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## BMJ Open

## Public preferences for interventions to prevent emerging infectious disease threats: a discrete choice experiment

| Journal: | BMJ Open |
| ---: | :--- |
| Manuscript ID | bmjopen-2017-017355 |
| Article Type: | Research |
| Date Submitted by the Author: | 19-Apr-2017 |
| Complete List of Authors: | Cook, Alex; National University Singapore Singapore, Saw Swee Hock <br> School of Public Health <br> Zhao, Xiahong; National University of Singapore, Saw Swee Hock School of <br> Public Health <br> Chen, Mark I-Cheng; National University of Singapore, Saw Swee Hock <br> School of Public Health <br> Finkelstein, Eric; Duke-NUS Graduate Medical School, Health Services and <br> Systems Research Program |
| <b>Primary Subject | Health policy |
| Heading</b>: | Kecondary Subject Heading: | | Health policy, Health economics, Infectious diseases, Public health |
| :--- |
| Keywords: |
| Public health < INFECTIOUS DISEASES, Discrete choice experiment, <br> Emerging infectious diseases, Interventions |
|  |
| Note: The following files were submitted by the author for peer review, but cannot be converted to <br> PDF. You must view these files (e.g. movies) online. |
| Supplementary data 1.csv <br> Supplementary data 2.csv |

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# Public preferences for interventions to prevent emerging infectious disease threats: a discrete choice experiment 

Running title: Preferences for outbreak interventions

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## Key Words

Public health, discrete choice experiment, emerging infectious diseases, interventions


#### Abstract

Objective When faced with an emergent epidemic with high mortality and morbidity potential, policy makers must decide what public health interventions to deploy at different stages of the outbreak. However, almost nothing is known about how the public view these interventions or how they trade off risks (of disease) with inconvenience (of interventions). In this paper, we aim to understand public perceptions on pandemic interventions, as well as to identify if there are any distinct respondent preference classes.

Design A discrete choice experiment.

Setting This study was fielded in Singapore between November 2012 and February 2013.

Participants A random sample of 500 Singapore residents aged 21 and over, including 271 women and 229 men, was analysed.

Outcome measures Demographic information was collected from each participant. Participants were also shown a series of pairs of alternatives, each combining interventions and morbidity, mortality and cost outcomes, and declared a preference for one combination. A random utility model was developed to determine the individual's preference for interventions and a hierarchical cluster analysis was performed to identify distinct respondent preference classes.

Results On average, participants preferred more intense interventions and disfavoured death and tax. The number of infections did not significantly influence respondents' responses. We identified two broad classes of respondents: those who were mortality averse and those who were expenditure averse. Education was found to be a predictor of group membership.

Conclusion Overall, there was considerable support for government interventions to prevent or mitigate outbreaks of emerging infectious diseases, including those that greatly restricted individual liberties, as long as the restrictions showed a reasonable chance of reducing the adverse health effects of the outbreak. (271 words)


## Strengths and limitations of this study

- This study conducts discrete choice experiments that allow strength of preferences for different pandemic preparedness interventions among the general public to be estimated.
- A hierarchical cluster analysis identifies key population subgroups that perceive the public health response differently from the general population.
- The study design and statistical methods proposed in this study can be easily adapted to other settings.
- The public reaction is unpredictable, and it may depend on the severity and symptoms of the disease.


## Introduction

The last decade has witnessed the emergence of several emerging infectious diseases, including the first influenza pandemic of the 21st century ${ }^{1}$, avian influenza A(H7N9) outbreaks ${ }^{2-4}$ a novel coronavirus (MERS-CoV) that emerged in Saudi Arabia ${ }^{5}$ and spread around the Middle East and Western Pacific ${ }^{6,7}$, the Ebola crisis in Western Africa ${ }^{8}$ and the Zika outbreak in the Americas and Asia ${ }^{9,10}$. When faced with such threats, policy makers worldwide have to decide which public health interventions to deploy should such an emerging infectious disease cause an outbreak in their territory. Following the emergence of the Severe Acute Respiratory Syndrome Coronavirus (SARS-CoV) in $2003{ }^{11}$, and the ongoing transmission of avian influenza $\mathrm{A}(\mathrm{H} 5 \mathrm{~N} 1)$ in South East Asia ${ }^{12,13}$ and China ${ }^{14}$, the WHO urged governments to develop pandemic preparedness plans ${ }^{15}$ as it revised the International Health Regulations in $2005{ }^{16}$. Details vary between countries ${ }^{17,18}$, and the influenza A(H1N1) pandemic of 2009 demonstrated clearly that willingness to respond also varied substantially between countries, with several Asian countries adopting more aggressive response policies ${ }^{19-21}$ than the approach common in America and Europe, which could be described as being more proportionate to the threat.

In the aftermath of the 2009 influenza pandemic, particularly severe criticism was voiced from some European quarters that health authorities and the WHO over-reacted in their response to the influenza A(H1N1) pandemic of $2009{ }^{22}$. Others argued that the prior experiences with SARS-CoV and H5N1 justified a robust response to the influenza A(H1N1pdm09) pandemic in $2009{ }^{19,20}$. For instance, in Singapore, where SARS-CoV caused 238 infections, 33 deaths, and reduced annual GDP by $1 \%{ }^{23}$, there was a strong governmental response, with over 8,000 contacts of SARS-CoV cases quarantined ${ }^{24}$. Singapore's health authorities used similarly robust measures during the influenza pandemic in 2009, and initially mandated isolation of confirmed cases, quarantining of exposed individuals, and temperature screening in hospitals, public places and ports of entry ${ }^{25}$. This was in spite of the paucity of evidence that such measures would make any difference to the overall course of the pandemic.

Since public acceptance is vital for many outbreak response policies to have the intended effect, public health decision making must go beyond accurate assessments of the severity of a threat and what measures might be effective against it. It has to calibrate policy to the public's willingness to accept the trade-offs associated with a given response to the outbreak, and a framework is needed for assessing this while recognizing the diversity of views between and within populations as to what they value. This framework must be able to accommodate a diversity of scenarios on the key characteristics of the threat, and the suite of public health interventions available. To this end, we conducted a 'conjoint'
discrete choice experiment to explore the Singapore public's willingness to accept certain containment and mitigation strategies under various outbreak scenarios, spanning a range of infection and fatality rates. Specifically we assess three broad questions: (i) How informed are the public about infectious disease outbreaks and the effectiveness of different interventions? (ii) How much do the public support interventions-quarantine, isolation of contacts, school closure and mass screening-that restrict civil liberties in an outbreak? (iii) How consistent are overall preferences for intervention policies throughout the population? Are there subgroups whose preferences are in opposition to the majority? We hypothesised that the population would be broadly supportive of interventions that restricted their civil liberties, but that they might be averse to monetary impacts of those interventions.

Our work was motivated by the past vulnerability of Singapore to a diversity of emerging infectious disease threats such as Nipah virus in the 1990 s ${ }^{26}$, to SARS-CoV in $2003{ }^{27}$, Chikungunya in $2008{ }^{28}$, pandemic influenza $\mathrm{A}\left(\mathrm{H} 1 \mathrm{~N} 1\right.$ pdm09) in $2009{ }^{29}$ and the Zika epidemic in $2016^{30}$, and its perceived vulnerability to future threats, given its location at the centre of South East Asia where various highly pathogenic strains of avian influenza continue to spread, its role as a transport hub, its highly urbanized environment and its tropical climate, which permits year round transmission of many viruses ${ }^{31}$. These results are hence intended to allow policy makers to identify policies which will have high levels of public support and are hence expected to translate into high levels of compliance, while exemplifying a method that can be used to address the same questions in different settings.

## Methods

## Fielding and sample

This survey was fielded in Singapore between November 2012 and February 2013. The sampling frame was based on a list of households obtained from the Singapore national database of dwellings and continued until 500 responses with informed consent were obtained, which required 1,196 households to be contacted (yielding an unadjusted response rate of 41.8\%). Respondent eligibility could not be determined in 41 households. The remaining households were found to have at least one eligible respondent (citizen or permanent resident aged 21 and over). For those with multiple eligible respondents, one was randomly selected to take the survey. Trained interviewers administered the paper survey in English, Malay, Mandarin or Tamil. The study was approved by the National University of Singapore Institutional Review Board. All methods were performed in accordance with relevant guidelines and regulations.

## Survey structure

The survey questioned respondents' travel habits, experience with two previous infectious disease outbreaks in Singapore (the 2009 influenza A(H1N1pdm09) pandemic and the 2003 SARS-CoV outbreaks), attitudes towards and knowledge of the effectiveness of interventions, and beliefs about the burden of infectious diseases in Singapore. Participants were also asked how frequently they attended various crowded public places and whether they would reduce such attendance in response to an outbreak. Socio-demographic questions were also included.

The core of the survey was a discrete choice experiment (DCE), which is a method to identify preferences for, importance of, and willingness-to-pay (WTP) for various features of composite products or, as in this case, policy responses to an infectious disease outbreak. Each policy scenario consists of a number of attributes and each attribute of a number of levels. Each participant was provided a series of pairs of hypothetical alternatives, and asked to select one choice set of each pair as being his or her preference. Each pair of choice sets contains the same attributes but different levels of each attribute; the attributes and levels used are found in Table 1.

The first four attributes include interventions which were used in Singapore and other countries at various points of the 2009 influenza pandemic, 2003 SARS outbreak, and in response to other emerging outbreaks. The fifth assesses the tolerance to economic losses. The final two summarize the severity of the outbreak, in size (number of cases) and fatality rates. A typical pair of choice sets is provided in Table 2. Attributes and levels for the survey were determined through literature review, cognitive interviews, and piloting a draft instrument $(\mathrm{n}=50)^{32}$.

Following standard practice in DCEs ${ }^{32}$, respondents saw a fractional DCE design that is statistically efficient, minimizes level overlap (where levels do not vary across competing options) and ensures level balance (each level appears approximately the same number of times) ${ }^{33}$. The design was produced using Sawtooth SSI Web v8-22 and included four choice sets (versions), each version containing ten tasks.

Five of the seven attributes consisted of measures the government could take to restrict the spread of an infectious disease. The government, during the 2009 influenza pandemic and 2003 SARS-CoV outbreaks, quarantined suspected cases and enforced the isolation of actual cases. Both of these measures were included as attributes with two levels for each: mandatory and voluntary. The cancellation of mass gatherings was also included as an attribute with levels ranging from no
cancellations to the closure of schools and prohibition of other types of mass gatherings. Temperature screening using thermal scanners was used during both the two events in Singapore and was therefore also included with different levels indicating whether the screenings were to be conducted only at border checkpoints, at checkpoints and other sites within Singapore, or not at all. Finally, a monetary attribute was included which posited a hypothetical one-time tax to fund control efforts with the following values: $\mathbf{S} \$ 15, \mathrm{~S} \$ 20, \mathrm{~S} \$ 40$ and $\mathrm{S} \$ 50$ (in $2013 \mathrm{~S} \$ 1 \approx \mathrm{US} \$ 0.80$ ). The two remaining attributes described the outcome of an infectious disease outbreak in terms of two metrics: the expected number of infections (five levels ranging from 200 to $1,000,000$ cases) and the expected number of infectionrelated deaths (five levels; 0-180 deaths). These levels were selected to span plausible ranges for emerging infectious disease outbreaks or pandemics. The DCE consisted of ten tasks that required respondents to choose between two scenarios with different levels of the seven attributes.

## Analyses

Model overview: The analysis uses a random utility model (RUM), which posits that respondents choose the option which provides them greater satisfaction/utility. By regressing respondent choices on the policy attributes and levels, we derived preference weights for each attribute-level, when all other attribute levels are held constant. The model assumes that the utility of a given scenario is a linear combination of the utilities associated with each attribute of the scenario, from interventions to outcomes, plus Gaussian noise. In addition, a hierarchical model was developed in which individuals were allowed differing utilities, the output of which was used to cluster individuals into groups.

Model formulation: A single attribute $a$ has $L_{a}$ levels. A choice set of options contains $A$ attributes in all, and so the information about the choice set is contained in the object $\left(l_{1}, l_{2}, \ldots, l_{A}\right)$. To facilitate analysis, the information is reformulated as a vector of dummy variables, ( $x_{1}, x_{2}, \ldots, x_{K}$ ) where $K=\sum_{a=1}^{A}\left(L_{a}-1\right)(1)$ is the total number of dummy variables, and where the dummy variables are coded 1 and 0 to indicate which levels are present for each attribute. One level per attribute is omitted to be treated as the baseline. We indicate choice sets via superscripts on the $x \mathrm{~s}$. The exception to this is the monetary variable which was left as a numerical value.

The average utility $\mu_{b}$ over individuals in the population presented with a choice set of options $b$ is modelled as a linear combination of utility components

$$
\begin{equation*}
\mu_{b}=\sum_{k=1}^{K} \beta_{k} x_{k}^{b} \tag{2}
\end{equation*}
$$

where the $\beta s$ capture the utility of each component. The utility experienced in the $i$ th response is assumed to be $u_{i b} \sim N\left(\mu_{b}, \sigma^{2}\right)$ (3). The respondent reports whether $u_{i 1}>u_{i 2}$ or not. If we denote the difference between these utilities as $\delta_{i}=u_{i 1}-u_{i 2}$ (4) then $\delta_{i} \sim N\left(\mu_{1}-\mu_{2}, 2 \sigma^{2}\right)$ (5). We observe $y_{i}$ which is 1 if $\delta_{i}>0$ and 0 otherwise. The likelihood of the data therefore follows directly.

The WTP for a given change in a policy scenario is the amount of cash (in this case a one-time tax) that would leave a respondent indifferent between paying (or receiving payment) for the attribute levels in a new scenario or remain with the original scenario. The WTP can be estimated by comparing the change in utility between the scenarios and the marginal utility of the tax attribute. The utility of tax was assumed to be linear, creating a single utility to money mapping that permitted the posterior distribution of willingness-to-pay (in units of one Singapore dollar) to be derived by taking the ratio of the other $\beta \mathrm{s}$ to the $\operatorname{tax} \beta$.

Subgroup analysis: We then employed a hierarchical cluster analysis with Wald's method to identify distinct respondent preference classes. To account for the between individual variation, a hierarchical model was fitted. This model is similar as the original model, but the utility parameter $\beta$ varies by individual. The utility parameter, $\beta_{i k}$, for individual $i$ attribute $k$ was assigned a Normal prior, i.e. $\beta_{i k} \sim N\left(\mu_{k}, \sigma_{k}^{2}\right)(6)$. Following parameter estimation (see next section), the Euclidean distance matrix used for cluster analysis was calculated from posterior mean utilities associated with each attribute and each individual. The number of latent classes was determined using the dendrogram from the cluster analysis, centroid plot from a two-group linear discriminant analysis, and elbow plot. Demographic predictors of class membership were then determined through logistic regression.

Model fitting: In the main model, flat prior distributions were assigned to each $\beta_{k}$ and to $\log \sigma$. To ensure identifiability, one exception is made: the extreme level for one attribute ( 180 deaths) was set to -1 so that all other utilities are relative to that. The choice of the variable to anchor the utility scale to was made on pilot runs. In the hierarchical model used for clustering, the hyperprior distributions for $\mu_{k}$ and $\sigma_{k}^{2}$ followed a normal distribution $N(0,10)$ and an inverse-gamma distribution with a shape of 0.1 and a scale of 0.1 , respectively. The model was fit using the Rstan package ${ }^{34}$ that used the Stan language ${ }^{35}$ to sample from the posterior distribution for the parameters resulting from the model described above. This used a Hamiltonian Monte Carlo algorithm ${ }^{36}$. In total 500,000 draws with a thin of 5 iterations from the posterior were made, and convergence assessed visually. Analyses were done in $\mathrm{R}^{37}$.

Variant model: An alternative model was also constructed in which the linear tax variable was
transformed using three dummy variables representing the tax effect of $\$ 20, \$ 40$ and $\$ 50$ compared with $\$ 15$. Similar results were obtained.

## Results

## Survey respondents

Table 3 presents demographic characteristics for the 500 respondents and for a comparable population from the 2010 Singapore census. Although the age, gender, racial group, employment status and family status distributions are similar between the groups, the sample has a higher proportion of those educated to a polytechnic diploma level or higher ( $45.2 \%$ compared to $38.0 \%$ in census).

## Attitudes and knowledge

The fraction predicting there would be an infectious disease outbreak in Singapore infecting more than 200 people over the next 12 months was $29 \%$ ( $95 \%$ Cl $25 \%-33 \%$, see Figure 1); the estimate for an outbreak infecting more than a million people (i.e. around a fifth of the total population) was much lower ( $10 \%$, $95 \%$ CI $7 \%-12 \%$ ). Mortality estimates also varied, with $20 \%$ ( $95 \%$ CI $16 \%-23 \%$ ) predicting it likely that there would be an outbreak which kills more than 30 , and $9 \%(95 \% \mathrm{Cl} 6 \%-11 \%)$ predicting one which kills more than 180 people, in the next year.

When asked about each intervention in isolation, a large majority of respondents favoured a policy of quarantine for potentially infected contacts ( $83 \%, 95 \% \mathrm{Cl} 79 \%-86 \%$, see Figure 1). Isolation for diagnosed cases of infection was favoured by an even larger proportion (95\%, 95\%CI 93\%-97\%). Most of the sample was also in favour of temperature screenings (though the proportion was higher for screenings conducted at the border than elsewhere: 95\% [94\%-98\%] vs. 89\% [87\%-92\%]). Temperature screening was thought to be somewhat or very effective by $91 \%$ ( $89-94 \%$ ) and quarantine by $95 \%$ ( $94-$ 97\%).

On attendance at crowded events or venues, the venue most frequently attended by survey participants were hawker centres (naturally ventilated food courts), where $29 \%$ ( $95 \% \mathrm{Cl} 25 \%-33 \%$ ) went daily, and $48 \%(95 \% \mathrm{Cl} 43 \%-52 \%)$ went weekly. A substantial fraction ( $60 \%, 95 \% \mathrm{Cl} 56 \%-64 \%$ ) reported going to shopping malls at least weekly, as opposed to $28 \%(95 \% \mathrm{Cl} 24 \%-32 \%)$ who reported going to religious gatherings and $3 \%(95 \% \mathrm{Cl} 2 \%-5 \%)$ to festivals. When asked whether they would limit attendance at mass gatherings in the event of an infectious disease outbreak, a significant proportion reported they
would not: $58 \%$ ( $95 \% \mathrm{Cl} 50-67 \%$ ) of those attending religious gatherings weekly and 51\% (95\%Cl 43$59 \%$ ) of daily hawker centre patrons stated they would not reduce the frequency of attendance.

## Overall preferences for interventions and willingness to pay

Figure 3A presents utilities for the entire sample excluding 7 with missing responses (full regression results are included in the supplementary materials). In outbreaks with at least 200 cases (the scenarios proffered), the sample as a whole marginally preferred mandatory to voluntary quarantine and isolation. They also favoured the cancellation of all mass gatherings and temperature screenings at sites all around Singapore. The two certainties of life-death and taxes-were disfavoured, but respondents' preferences were not influenced by the number of infections.

Table 4 shows how respondents valued, in monetary terms, different policy options or outcomes, based on their estimated WTP (parameter estimates [posterior means, $95 \%$ credible intervals] are presented in Tables S1 and S2 for the models with and without linear terms for the tax attribute). In general, respondents preferred more intervention, rather than less, and were willing to accept a loss of $\$ \$ 370$ million at the societal level for the full choice set of interventions considered for implementation. Participants indicated via their choices a willingness to accept (personal) costs of up to $\mathrm{S} \$ 34$ ( $\mathrm{S} \$ 19, \mathrm{~S} \$ 58$ ) to prevent 30 deaths, $\mathrm{S} \$ 70(\mathrm{~S} \$ 45, \mathrm{~S} \$ 112)$ to prevent $80, \mathrm{~S} \$ 71(\mathrm{~S} \$ 49, \mathrm{~S} \$ 109)$ to prevent 120 and $\mathrm{S} \$ 98$ ( $\$ \$ 69, \mathrm{~S} \$ 148$ ) to prevent 180 -at a national level, these imply a willingness to pay $\sim S \$ 0.5 \mathrm{M}$ to $\mathrm{S} \$ 1 \mathrm{M}$ for each life saved. The value placed on a strong response (mandatory isolation and quarantine, cancelling all mass gatherings, and islandwide screening), $\mathrm{S} \$ 74$, thus approximately corresponded to the value placed on preventing 100 deaths.

## Group preferences

The hierarchical cluster analysis determined that the sample included two subgroups, and based on the following results we labelled these groups mortality-averse and expenditure-averse (estimates in Tables S1 and S2). Cluster analysis results for these groups are shown in Figure 2. The mortality-averse group ( $n=317,63 \%$ ) was in favour of the actual deployment of interventions, whereas the expenditure-averse group ( $\mathrm{n}=183,37 \%$ ) expressed a strong disutility for a tax to cover the response and were ambivalent about mandatory isolation of confirmed cases. Both two groups, as expected, favoured a lower number of deaths, though the strength of preference varied substantially, with the mortality-averse group expressing a large disutility and the expenditure-averse a much smaller one. Neither group found reducing the number of infections important.

## Predictors of class membership

Those with post-secondary school education were more likely to belong to the mortality-adverse group than to belong to the expenditure-averse group (Odds ratio (OR): 1.85, 95\% CI: $1.22-2.78$ ). Other demographic variables were not predictive of class membership.

## Discussion

Public health policy makers have several constituencies, but chief among these is the populace on whose behalf they make decisions. Yet when it comes to pandemic preparedness, it is remarkable how little is known about what interventions the general population wants their governments to undertake. This gap is especially noteworthy due to the considerable personal burden imposed by some interventions and the backlash against what some deemed excessive measures during the 2009 influenza pandemic ${ }^{22,38}$.

Our survey found that most Singaporeans reported a high tolerance for interventions that curtail individual liberties, which may be related to their long-standing acceptance of a paternalistic streak in their government ${ }^{39}$. Most participants supported the isolation of known cases and the quarantine of potential cases, both strategies that have been used in recent history in Singapore: in 2003 thousands of contacts of SARS-CoV cases were isolated or put under daily telephone surveillance ${ }^{24}$, while in the early period of the 2009 epidemic, cases with confirmed influenza $A(H 1 N 1 p d m 09)$ infection and their household contacts were isolated at home, with foreigners detained in Government Quarantine Facilities ${ }^{40}$.

Overall, utilities of all participants were high for the more intense control measures, i.e. given the same number of infections and deaths, respondents reported preferring mandatory isolation, quarantine, and social distancing. It is not clear how effective social distancing measures would be in a mild outbreak, however, as many respondents reported that they would not voluntarily reduce how frequently they go out to eat or shop. It may be the implicit recognition of this that made the majority of participants recognize that isolation and quarantine should be mandatory rather than voluntary. Results reveal that the preferences of the population are not uniform; respondents could be broadly categorized into two groupings: one group (mortality averse) was strongly motivated to reduce the number of deaths and willing to accept interventions that did so, whereas another (expenditure averse, $37 \%$ of our respondents) was tax averse, and not in favour of any measures that might increase their taxes, even at levels comparable to the per capita costs of Singapore's routine dengue vector control program ${ }^{41}$.

Discrete-choice experiments can inform policy makers as to how much support there would be for potentially disruptive measures such as quarantine, isolation and school closures, and what kind of public health information might garner support from those otherwise not in favour. In Singapore, given our findings, this might involve stressing the necessity of such measures to reduce mortality, to co-opt the mortality-averse group, and to minimize the economic impact, to gain support from the sizeable taxaverse group. Studies such as this one can also identify misperceptions among the public that may hinder support for effective control. Two such examples surfaced in our study: (1) temperature screening island-wide received considerable support by our survey participants, although temperature screening at the country's main airport was estimated only to pick up around 1 imported case in 4 in $2009{ }^{25}$, and was increasingly ineffective as the infection became more widespread ${ }^{42}$, and (2) the predicted risk of infectious disease outbreaks was considerably underestimated: 2013 saw ~ 20000 dengue infections in Singapore, but the mean forecast risk of an outbreak infecting at least 200 people was a mere $29 \%$. Future studies might evaluate the effect of priming respondents with accurate public health information before eliciting their preferences.

Beyond its direct application to Singapore, our work holds a wider relevance on how governments and global health authorities can use such methods to inform better management of epidemics and pandemics. It has been argued that, during the influenza pandemic in 2009, the failure of WHO and government health agencies was not so much in their assessment of the severity of the threat or what interventions might be effective against it, but in being able to effectively communicate the risk and the benefits of select mitigation strategies ${ }^{43,44}$. Prior assessment of population level preferences could help identify thresholds of epidemic severity which could serve as triggers for the implementation of more disruptive measures. In addition, information from such surveys could be used to explain the rationale for particular decisions, with hierarchical cluster analysis used to support the targeting of different messages to audiences with different values. Whereas surveys have been performed retrospectively to gauge support for government responses to specific circumstances like the SARS-CoV outbreaks in 2003 and influenza pandemic in $2009{ }^{45,46}$, our method is the first conjoint analysis that quantifies public support for government interventions over a realistic range of outbreak scenarios and parameters.

Singapore is a city state in the centre of South East Asia that has experienced several emerging infectious disease threats and where some civil liberties are constrained for the good of society. Her people mostly originate in China, India and the Malay Archipelago, and, culturally and socially, Singapore has much in common with other countries in South, East, and South-East Asia. Our study may therefore
shed light on attitudes towards response to infectious disease threats in Asia, a hotspot for emerging infectious diseases ${ }^{47}$. Future research should extend the approach to African, American and European settings, where attitudes on the role the state should play in responding to public health threats may differ.

The current study does have limitations. The response rate was low (41.8\%) and although there were no significant differences when compared to the population age, gender, race, employment or family data, those with higher education were over-represented in our sample. A further limitation is that the study design elicits the public's preferences and trade-offs between known interventions and known outcomes of those interventions. However, at an early stage of an outbreak of a novel pathogen, policy makers face grave uncertainty about the outcomes of interventions because the characteristics of the pathogen's transmission routes and potential, the severity and symptoms of the disease it causes, and the public reaction is unpredictable. As a result, the decisions policy makers must continue to be based on scientific advice and political imperatives. Surveys such as this one permit a better understanding of those political imperatives in emerging infectious disease outbreaks.

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## Author Contributions

Conceived the study: ARC, MICC, EAF. Oversaw data collection: MAF, EAF. Performed analyses: ARC, XZ,

MAF. Wrote the paper: ARC, XZ, MAF, MICC, EAF.

## Additional Information

## Competing Interests

The authors declare no conflicts of interest.

## Funding

The work was funded by Singapore's National Medical Research Council, grant NMRC/H1N1R/005/2009, the Ministry of Health, Singapore, grant CDPHRG/0009/2014, and the Centre for Infectious Disease Epidemiology and Research. The funders had no role in study design, data collection and analysis, decision to publish, or preparation of the manuscript.

## Availability of data

All data analysed during this study are included in this published article (Supplementary data 1 and 2).

Figure captions


In the next 12 mo will there be an outbreak with...





Attendance
 Attendance



Figure 1: Risk perceptions, support for interventions during infectious disease outbreaks and belief in their effectiveness among $\mathbf{5 0 0}$ adult Singapore residents. Whiskers represent 95\% confidence intervals. (A) Estimates of risk of large outbreaks over the next 12 mo in Singapore. (B, C) Support for mandatory isolation and quarantine in the event of an outbreak. A four-point Likert scale (strongly oppose, moderately oppose, moderately in favour, strongly in favour) is presented with stronger opinions to the left- and right-most extremes of the plot. (D) Belief in the effectiveness of, experience of, and support for the use of temperature screening. (E-H) Frequency of attendance at hawker centers (outdoor food courts), shopping malls (black), religious gatherings and festivals. Week/Month/Year stand for at least once a week/month/year. Within each frequency, the number reporting they would not reduce their attendance in the event of an outbreak is overlaid (white), excepting those who never attend such activities.


Figure 2: Identification of distinct respondent preference classes among 500 adult Singapore residents using a hierarchical cluster analysis. (A) A dendrogram of the hierarchical cluster analysis (Wald's method). The $x$-axis measures the closeness of either individual points or clusters. (B) A centroid plot shows the first (LD1, $x$-axis) versus the second discriminant function (LD2, $y$-axis) from a two-group linear discriminant analysis. (C) An elbow plot validates the number of clusters. The "elbow" on the line is at two clusters.


Figure 3: Preference weights for policy scenario attributes, elicited by a discrete choice experiment.

Overall (A) and in two subgroups (B, C) identified via hierarchical cluster analysis. Attribute levels with larger (positive) utilities are preferred to those with smaller (negative) utilities. The figure reflects estimated coefficients from the probit model, with the utilities for voluntary quarantine, voluntary isolation, no social distancing, no temperature screening, 200 infections and 0 deaths being set to 0 . For panel (A), the utility for $\mathbf{1 8 0}$ deaths is set to $\mathbf{- 1}$ for identifiability, all other utilities are therefore relative to it. Bars indicate $95 \%$ credible intervals. For panels $(B, C)$, utilities are stratified posterior means from the Bayesian hierarchical model, and bars indicate 95\% confidence intervals.

## Tables

Table 1: Attributes and levels used in the discrete choice experiment. Each choice set of options contained one level for each attribute.

| Attributes | Levels |
| :---: | :---: |
| Quarantine of potential cases | Voluntary / Mandatory |
| Isolation of actual cases | Voluntary / Mandatory <br> cancellation of other mass gatherings that involve <br> more than 30 people in a single location |
| Cancellation of mass gatherings | None / Only at border checkpoints / At border <br> checkpoints and other sites within Singapore |
| Temperature screening | S\$15 / S\$20 / S\$40 / S\$50 |
| One-time fee to fund public health |  |
| measures | 200 cases (1 in 25,000 people are infected) / |
| Expected number of infections | 1,000 cases (1 in 10,000 people are infected) / (1 in 5,000 people are infected) / |
| 10,000 cases (1 in 500 people are infected) / |  |
| $1,000,000$ cases (1 in 5 people are infected) |  |

Table 2: A typical pair of choice sets of options.

|  | Scenario A | Scenario B |
| :---: | :---: | :---: |
| Policy measures |  |  |
| Quarantine of potential cases | Mandatory | Voluntary |
| Isolation of actual cases | Voluntary | Mandatory |
| Cancellation of mass gatherings | Closure of schools | Closure of schools and cancellation of other mass gatherings that involve more than 30 people in a single location |
| Temperature screening | Only at border checkpoints | Only at border checkpoints |
| One-time fee to fund public health measures | S\$40 | S\$15 |
| Outcomes |  |  |
| Expected number of infections | $\begin{aligned} & 500 \text { cases } \\ & (1 \text { in } 10,000 \text { people are infected) } \end{aligned}$ | 1,000,000 cases <br> (1 in 5 people are infected) |
| Expected number of infectionrelated deaths | 0 deaths | 120 deaths |
| Choice |  |  |
| If these were your only two options, which would you choose? | - |  |

Table 3: Demographic characteristics of sample ( $n=500$ ) and population. Sample racial groups are selfdeclared. Census racial groups accord with national registration.

|  | Sample percentage (95\% confidence interval) | Census 2010 percentage |
| :---: | :---: | :---: |
| Age |  |  |
| <40 | 36.2 (32.0-40.4) | 39.9 |
| 40-49 | 26.4 (22.5-30.3) | 22.2 |
| 50-59 | 19.6 (16.1-23.1) | 19.3 |
| 60+ | 17.8 (14.4-21.2) | 18.6 |
| Gender |  |  |
| Male | 45.8 (41.4-50.2) | 48.8 |
| Female | 54.2 (49.8-58.6) | 51.2 |
| Education |  |  |
| Upper secondary school or lower | 54.8 (50.4-59.2) | 62.0 |
| Polytechnic diploma or higher | 45.2 (40.8-49.6) | 38.0 |
| Racial group |  |  |
| Chinese | 72.8 (68.9-76.7) | 74.2 |
| Indian | 9.6 (7.0-12.2) | 9.2 |
| Malay | 13.0 (10.1-15.9) | 13.3 |
| Other | 4.6 (2.8-6.4) | 3.3 |
| Employment status |  |  |
| Employed | 65.0 (60.8-69.2) | 64.6 |
| Unemployed | 3.2 (1.7-4.7) | 2.0 |
| Not in labor force | 31.8 (27.7-35.9) | 33.4 |
| Family status |  |  |
| Without children | 42.4 (38.1-46.7) | 44.0 |
| With children | 57.6 (53.3-61.9) | 56.0 |

Table 4: Willingness to pay to move between options. The willingness to pay figures indicate the cash amount (in Singapore dollars, at 2013 prices $S \$ 1 \approx U S \$ 0.80$ ) required to make respondents indifferent between two neighbouring attribute levels, with arrows representing the direction in which the individual would be willing to pay to move. For instance, participants would pay $\$ 13$ (as revealed by their choices) to move from a voluntary to a mandatory quarantine policy.

| Attribute | Level | WTP (95\% Crl) | Level |
| :---: | :---: | :---: | :---: |
| Quarantine of potential cases | Voluntary | $\xrightarrow{\$ 15(\$ 8, \$ 24)}$ | Mandatory |
| Isolation of actual cases | Voluntary | $\xrightarrow{\$ 8(\$ 1, \$ 16)}$ | Mandatory |
| Cancellation of mass gatherings | None | $\xrightarrow{\text { \$27 (\$14, \$48) }}$ | School closure |
|  | None | $\xrightarrow{\$ 30(\$ 17, \$ 51)}$ | School closure and other mass gatherings |
| Temperature screening | None | $\xrightarrow{\$ 12(\$ 2, \$ 26)}$ | At border |
|  | None | $\xrightarrow{\$ 21(\$ 11, \$ 36)}$ | At border and other sites |
| Number of infections | 200 | N.S. | 500 |
|  | 200 | $\xrightarrow{\$ 15(\$ 4, \$ 29)}$ | 1000 |
|  | 200 | N.S. | 10000 |
|  | 200 | N.S. | 1000000 |
| Number of deaths | 0 | $\stackrel{\$ 34(\$ 19, \$ 58)}{\leftarrow}$ | 30 |
|  | 0 | $\begin{aligned} & \$ 70(\$ 45, \$ 112) \\ & \leftarrow \end{aligned}$ | 80 |
|  | 0 | $\stackrel{\$ 71(\$ 49, \$ 109)}{\leftarrow}$ | 120 |
|  | 0 | $\stackrel{\$ 98(\$ 69, \$ 148)}{\leftarrow}$ | 180 |

N.S. Not significant as S\$0 included in the 95\% credible interval.


Figure 1: Risk perceptions, support for interventions during infectious disease outbreaks and belief in their effectiveness among 500 adult Singapore residents. Whiskers represent $95 \%$ confidence intervals. (A) Estimates of risk of large outbreaks over the next 12 mo in Singapore. (B, C) Support for mandatory isolation and quarantine in the event of an outbreak. A four-point Likert scale (strongly oppose, moderately oppose, moderately in favour, strongly in favour) is presented with stronger opinions to the left- and right-most extremes of the plot. (D) Belief in the effectiveness of, experience of, and support for the use of temperature screening. (E-H) Frequency of attendance at hawker centers (outdoor food courts), shopping malls (black), religious gatherings and festivals. Week/Month/Year stand for at least once a week/month/year. Within each frequency, the number reporting they would not reduce their attendance in the event of an outbreak is overlaid (white), excepting those who never attend such activities.




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Title: Public preferences for interventions to prevent emerging infectious disease threats: a discrete choice experiment - supplementary material

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Table S1: Utility estimates under main model, all participants. $95 \% \mathrm{CrI}$ is the $95 \%$ equal-tailed credible interval. The utility for all unlisted levels are set to $\mathbf{0}$. For the all-participant, the utility for 180 deaths is anchored to $\mathbf{- 1}$. For mortality-averse and expenditure-averse results, $95 \% \mathrm{Cl}$ is the $95 \%$ equal-tailed confidence interval for the posterior mean utility.

| Attribute level | Posterior mean | 95\% CrI | Attribute level | Posterior mean | 95\% Crl |
| :---: | :---: | :---: | :---: | :---: | :---: |
| All participants |  |  |  |  |  |
| Mandatory quarantine | 0.15 | (0.09,0.22) | 500 infections | -0.08 | (-0.22,0.06) |
| Mandatory isolation | 0.08 | (0.01,0.15) | 1000 infections | 0.15 | (0.02,0.28) |
| School closure | 0.27 | (0.16,0.39) | 10000 infections | 0.05 | (-0.10,0.20) |
| School closure and cancellation of other mass gatherings | 0.31 | (0.21,0.41) | 1 million infections | -0.06 | (-0.18,0.07) |
| Screening at border | 0.12 | (0.02,0.22) | 30 deaths | -0.35 | (-0.45,-0.24) |
| Screening at border and other sites | 0.21 | (0.12,0.32) | 80 deaths | -0.71 | (-0.84,-0.58) |
| Tax, per S\$100 | -0.84 | (-1.16,-0. 54) | 120 deaths | -0.72 | (-0.83,-0.62) |
| Standard deviation | 1.26 | $(0.95,1.68)$ | 180 deaths | -1.00 | (-1.00,-1.00) |
| Mortality averse |  |  |  |  |  |
| Attribute level | Posterior mean | $95 \% \mathrm{Cl}$ | Attribute level | Posterior mean | 95\% Cl |
| Mandatory quarantine | 0.14 | (0.11, 0.17) | 500 infections | -0.04 | (-0.06, -0.03) |
| Mandatory isolation | 0.06 | (0.01, 0.11) | 1000 infections | 0.05 | (0.04, 0.07) |
| School closure | 0.30 | (0.29, 0.32) | 10000 infections | 0.05 | (0.02, 0.08) |
| School closure and cancellation of other mass gatherings | 0.41 | (0.38, 0.44) | 1 million infections | -0.01 | (-0.06, 0.04) |
| Screening at border | 0.24 | (0.21, 0.27) | 30 deaths | -0.38 | (-0.40,-0.36) |
| Screening at border and other sites | 0.22 | (0.21, 0.24) | 80 deaths | -0.64 | (-0.66,-0.61) |
| Tax, per \$\$100 | -0.41 | (-0.73,0.10) | 120 deaths | -0.82 | (-0.87,-0.77) |
|  |  |  | 180 deaths | -1.68 | (-1.75,-1.62) |
| Expenditure averse |  |  |  |  |  |
| Mandatory quarantine | 0.13 | (0.07, 0.18) | 500 infections | -0.08 | (-0.11, -0.06) |
| Mandatory isolation | 0.02 | (-0.04,-0.09) | 1000 infections | 0.10 | (0.08, 0.13) |
| School closure | 0.30 | (0.27, 0.32) | 10000 infections | 0.07 | (0.02, 0.11) |
| School closure and cancellation of other mass gatherings | 0.40 | (0.35, 0.44) | 1 million infections | -0.14 | (-0.22, -0.07) |
| Screening at border | 0.10 | (0.06, 0.15) | 30 deaths | -0.38 | (-0.41, -0.35) |
| Screening at border and other sites | 0.19 | (0.17, 0.22) | 80 deaths | -0.64 | (-0.67, -0.60) |
| Tax, per \$\$100 | -1.29 | (-1.72, 0.87) | 120 deaths | -0.54 | (-0.62, -0.46) |
|  |  |  | 180 deaths | -0.28 | (-0.35, -0.20) |

Table S2: Utility estimates under variant model, all participants and subgroups. 95\% Crl is the $95 \%$ equal-tailed credible interval. The utility for all unlisted levels are set to 0 . For the all-participant, the utility for $\mathbf{1 8 0}$ deaths is anchored to $\mathbf{- 1}$.

| Attribute level | Posterior <br> mean | $95 \%$ Crl | Attribute level | Posterior <br> mean | $95 \% \mathrm{CrI}$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| All participants |  |  |  |  |  |
| Mandatory <br> quarantine | 0.16 | $(0.09,0.24)$ | 500 infections | -0.05 | $(-0.19,0.10)$ |
| Mandatory isolation | 0.10 | $(0.03,0.17)$ | 1000 infections | 0.19 | $(0.04,0.35)$ |
| School closure | 0.32 | $(0.19,0.47)$ | 10000 infections | 0.12 | $(-0.05,0.33)$ |
| School closure and <br> cancellation of other <br> mass gatherings | 0.29 | $(0.18,0.41)$ | 1 million infections | 0.02 | $(-0.12,0.18)$ |
| Screening at border | 0.14 | $(0.04,0.25)$ | 30 deaths |  |  |
| Screening at border <br> and other sites | 0.18 | $(0.07,0.29)$ | 80 deaths | -0.38 | $(-0.49,-0.26)$ |
| S\$20 tax | -0.22 | $(-0.39,-0.08)$ | 120 deaths | $(-0.92,-0.60)$ |  |
| S $\$ 30$ tax | -0.28 | $(-0.39,-0.17)$ | 180 deaths | -1.00 | $(-1.00,-1.00)$ |
| S\$50 tax | -0.34 | $(-0.47,-0.21)$ | Standard deviation | 1.38 | $(1.00,1.93)$ |

# CHEERS Checklist <br> Items to include when reporting economic evaluations of health interventions 

The ISPOR CHEERS Task Force Report, Consolidated Health Economic Evaluation Reporting
Standards (CHEERS) - Explanation and Elaboration: A Report of the ISPOR Health Economic Evaluations Publication Guidelines Good Reporting Practices Task Force, provides examples and further discussion of the 24-item CHEERS Checklist and the CHEERS Statement. It may be accessed via the Value in Health or via the ISPOR Health Economic Evaluation Publication Guidelines - CHEERS: Good Reporting Practices webpage: http://www.ispor.org/TaskForces/EconomicPubGuidelines.asp

| Section/item | Item <br> No | Recommendation |
| :--- | :--- | :--- |
| Title and abstract <br> Title | 1 | Identify the study as an economic evaluation or use more <br> specific terms such as "cost-effectiveness analysis", and <br> on page No/ <br> line No |
| Abstract | 2 | Provide a structured summary of objectives, perspective," <br> setting, methods (including study design and inputs), results <br> (including base case and uncertainty analyses), and <br> conclusions. |
| Introduction <br> Background and <br> objectives | 3 | Provide an explicit statement of the broader context for the <br> study. |

## Methods

Target population and 4
subgroups
Setting and location
5
Describe characteristics of the base case population and subgroups analysed, including why they were chosen. State relevant aspects of the systems) in which the decisions) needs) to be made.
Study perspective 6
Describe the perspective of the study and relate this to the costs being evaluated.
Comparators
7
Describe the interventions or strategies being compared and state why they were chosen.

 are being evaluated and say why appropriate.
Discount rate 9 Report the choice of discount rates) used for costs and


Choice of health outcomes

Measurement of effectiveness
outcomes and say why appropriate.
10 Describe what outcomes were used as the measures) of
benefit in the evaluation and their relevance for the type of
10 Describe what outcomes were used as the measures) of
benefit in the evaluation and their relevance for the type of analysis performed.
11a Single study-based estimates: Describe fully the design features of the single effectiveness study and why the single study was a sufficient source of clinical effectiveness data.


Consolidated Health Economic Evaluation Reporting Standards - CHEERS Checklist 2

11 b Synthesis-based estimates: Describe fully the methods used for identification of included studies and synthesis of clinical effectiveness data.
If applicable, describe the population and methods used to elicit preferences for outcomes.
Measurement and
valuation of preference based outcomes Estimating resources and costs


Single study-based economic evaluation: Describe approaches used to estimate resource use associated with the alternative
$\qquad$ interventions. Describe primary or secondary research methods for valuing each resource item in terms of its unit cost. Describe any adjustments made to approximate to opportunity costs.
13b Model-based economic evaluation: Describe approaches and data sources used to estimate resource use associated with model health states. Describe primary or secondary research methods for valuing each resource item in terms of its unit cost. Describe any adjustments made to approximate to opportunity costs.

Currency, price date, 14 and conversion

Choice of model

Assumptions
Analytical methods

## Results

Study parameters
the values, ranges, references, and, if used, probability distributions for all parameters. Report reasons or sources for
 Providing a table to show the input values is strongly recommended.
Incremental costs and 19 Report the dates of the estimated resource quantities and unit costs. Describe methods for adjusting estimated unit costs to the year of reported costs if necessary. Describe methods for converting costs into a common currency base and the exchange rate.
Describe and give reasons for the specific type of decisionanalytical model used. Providing a figure to show model structure is strongly recommended.
Describe all structural or other assumptions underpinning the decision-analytical model.
Describe all analytical methods supporting the evaluation. This could include methods for dealing with skewed, missing, or censored data; extrapolation methods; methods for pooling data; approaches to validate or make adjustments (such as half cycle corrections) to a model; and methods for handling population heterogeneity and uncertainty.


For each intervention, report mean values for the main

outcomes

Characterising uncertainty categories of estimated costs and outcomes of interest, as well as mean differences between the comparator groups. If applicable, report incremental cost-effectiveness ratios.
20a Single study-based economic evaluation: Describe the effects of sampling uncertainty for the estimated incremental cost and incremental effectiveness parameters, together with the impact
incremental effectiveness parameters, together with the impact
est


Characterising heterogeneity

## Discussion

Study findings, limitations, generalisability, and current knowledge
Other
Source of funding

Conflicts of interest
of methodological assumptions (such as discount rate, study perspective).
20b Model-based economic evaluation: Describe the effects on the results of uncertainty for all input parameters, and uncertainty related to the structure of the model and assumptions.
21 If applicable, report differences in costs, outcomes, or costeffectiveness that can be explained by variations between subgroups of patients with different baseline characteristics or other observed variability in effects that are not reducible by more information.


22 Summarise key study findings and describe how they support the conclusions reached. Discuss limitations and the generalisability of the findings and how the findings fit with current knowledge.

23 Describe how the study was funded and the role of the funder in the identification, design, conduct, and reporting of the analysis. Describe other non-monetary sources of support.
24 Describe any potential for conflict of interest of study contributors in accordance with journal policy. In the absence of a journal policy, we recommend authors comply with International Committee of Medical Journal Editors recommendations.

For consistency, the CHEERS Statement checklist format is based on the format of the CONSORT statement checklist

The ISPOR CHEERS Task Force Report provides examples and further discussion of the 24-item CHEERS Checklist and the CHEERS Statement. It may be accessed via the Value in Health link or via the ISPOR Health Economic Evaluation Publication Guidelines - CHEERS: Good Reporting Practices webpage: http://www.ispor.org/TaskForces/EconomicPubGuidelines.asp

The citation for the CHEERS Task Force Report is:
Husereau D, Drummond M, Petrous S, et al. Consolidated health economic evaluation reporting standards (CHEERS )-Explanation and elaboration: A report of the ISPOR health economic evaluations publication guidelines good reporting practices task force. Value Health 2013;16:231-50.


## BMJ Open

## Public preferences for interventions to prevent emerging infectious disease threats: a discrete choice experiment

| Journal: | BMJ Open |
| :---: | :---: |
| Manuscript ID | bmjopen-2017-017355.R1 |
| Article Type: | Research |
| Date Submitted by the Author: | 05-Jul-2017 |
| Complete List of Authors: | Cook, Alex; National University Singapore Singapore, Saw Swee Hock School of Public Health <br> Zhao, Xiahong; National University of Singapore, Saw Swee Hock School of Public Health <br> Chen, Mark I-Cheng; National University of Singapore, Saw Swee Hock School of Public Health <br> Finkelstein, Eric; Duke-NUS Graduate Medical School, Health Services and Systems Research Program |
| <b>Primary Subject Heading</b>: | Health policy |
| Secondary Subject Heading: | Health policy, Health economics, Infectious diseases, Public health |
| Keywords: | Public health < INFECTIOUS DISEASES, Discrete choice experiment, Emerging infectious diseases, Interventions |

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Manuscripts

# Public preferences for interventions to prevent emerging infectious disease threats: a discrete choice experiment 

Running title: Preferences for outbreak interventions

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## Key Words

Public health, discrete choice experiment, emerging infectious diseases, interventions


#### Abstract

Objective When faced with an emergent epidemic with high mortality and morbidity potential, policy makers must decide what public health interventions to deploy at different stages of the outbreak. However, almost nothing is known about how the public view these interventions or how they trade off risks (of disease) with inconvenience (of interventions). In this paper, we aim to understand public perceptions on pandemic interventions, as well as to identify if there are any distinct respondent preference classes.

Design A discrete choice experiment.

Setting This study was fielded in Singapore between November 2012 and February 2013.

Participants A random sample of 500 Singapore residents aged 21 and over, including 271 women and 229 men, was analysed.

Outcome measures Demographic information was collected from each participant. Participants were also shown a series of pairs of alternatives, each combining interventions and morbidity, mortality and cost outcomes, and declared a preference for one combination. A random utility model was developed to determine the individual's preference for interventions and a hierarchical cluster analysis was performed to identify distinct respondent preference classes.

Results On average, participants preferred more intense interventions, and preferred scenarios with fewer deaths and lower tax. The number of infections did not significantly influence respondents' responses. We identified two broad classes of respondents: those who were mortality averse and those who were expenditure averse. Education was found to be a predictor of group membership.

Conclusion Overall, there was considerable support for government interventions to prevent or mitigate outbreaks of emerging infectious diseases, including those that greatly restricted individual liberties, as long as the restrictions showed a reasonable chance of reducing the adverse health effects of the outbreak.


(275 words)

## Strengths and limitations of this study

- This study conducts discrete choice experiments that allow strength of preferences for different pandemic preparedness interventions among the general public to be estimated.
- A hierarchical cluster analysis identifies key population subgroups that perceive the public health response differently from the general population.
- The study design and statistical methods proposed in this study can be easily adapted to other settings.
- The public reaction is unpredictable, and it may depend on the severity and symptoms of the disease.


## Introduction

The last decade has witnessed the emergence of several emerging infectious diseases, including the first influenza pandemic of the 21st century ${ }^{1}$, avian influenza $A(H 7 N 9)$ outbreaks ${ }^{2-4}$, a novel coronavirus (MERS-CoV) that emerged in Saudi Arabia ${ }^{5}$ and spread around the Middle East and Western Pacific ${ }^{6,7}$, the Ebola crisis in Western Africa ${ }^{8}$ and the Zika outbreak in the Americas and Asia ${ }^{9,10}$. When faced with such threats-the impact of which is hard to predict in advance, as witnessed in the very different impact of recent outbreaks (e.g. a quarter of a million deaths for influenza A(H1N1pdm) ${ }^{11}$, over 10000 deaths during the 2014/5 Ebola crisis ${ }^{12}$, or around 600 deaths from MERS-CoV ${ }^{13}$ )—policy makers worldwide have to decide which public health interventions to deploy should such an emerging infectious disease cause an outbreak in their territory. Following the emergence of the Severe Acute Respiratory Syndrome Coronavirus (SARS-CoV) in 2003 ${ }^{14}$, and the ongoing transmission of avian influenza A(H5N1) in South East Asia ${ }^{15,16}$ and China ${ }^{17}$, the WHO urged governments to develop pandemic preparedness plans ${ }^{18}$ as it revised the International Health Regulations in $2005^{19}$. Details vary between countries ${ }^{20,21}$, and the influenza $\mathrm{A}(\mathrm{H} 1 \mathrm{~N} 1)$ pandemic of 2009 demonstrated clearly that willingness to respond also varied substantially between countries, with several Asian countries adopting more aggressive response policies ${ }^{22-24}$ than the approach common in America and Europe, which could be described as being more proportionate to the severity of the epidemics that came to pass.

In the aftermath of the 2009 influenza pandemic, particularly severe criticism was voiced from some European quarters that health authorities and the WHO over-reacted in their response to the influenza A(H1N1) pandemic of 2009 ${ }^{25}$. Others argued that the prior experiences with SARS-CoV and H5N1 justified a robust response to the influenza $\mathrm{A}(\mathrm{H} 1 \mathrm{~N} 1 \mathrm{pdm} 09)$ pandemic in $2009^{22,23}$. For instance, in Singapore, where SARS-CoV caused 238 infections, 33 deaths, and reduced annual GDP by $1 \%{ }^{26}$, there was a strong governmental response, with over 8,000 contacts of SARS-CoV cases quarantined ${ }^{27}$. Singapore's health authorities used similarly robust measures during the influenza pandemic in 2009, and initially mandated isolation of confirmed cases, quarantining of exposed individuals, and temperature screening in hospitals, public places and ports of entry ${ }^{28}$. This was in spite of the paucity of evidence that such measures would make any difference to the overall course of the pandemic.

Since public acceptance is vital for many outbreak response policies to have the intended effect, public health decision making must go beyond accurate assessments of the severity of a threat and what measures might be effective against it. It has to calibrate policy to the public's willingness to accept the trade-offs associated with a given response to the outbreak, and a framework is needed for assessing
this while recognizing the diversity of views between and within populations as to what they value. This framework must be able to accommodate a diversity of scenarios on the key characteristics of the threat, and the suite of public health interventions available.

Public health policy makers have several constituencies, but chief among these is the populace on whose behalf they make decisions. Yet, while tolerance and potential impact of interventions can (and should be) be assessed through surveys ${ }^{29}$, when it comes to pandemic preparedness, it is remarkable how little is known about what interventions the general population actually wants their governments to undertake. This gap is especially noteworthy due to the considerable personal burden imposed by some interventions and the backlash against what some deemed excessive measures during the 2009 influenza pandemic ${ }^{25,30}$.

To this end, we conducted a 'conjoint' discrete choice experiment to explore the Singapore public's willingness to accept certain containment and mitigation strategies under various outbreak scenarios, spanning a range of infection and fatality rates. Specifically we assess three broad questions: (i) How informed are the public about infectious disease outbreaks and the effectiveness of different interventions? (ii) How much do the public support interventions-quarantine, isolation of contacts, school closure and mass screening-that restrict civil liberties in an outbreak? (iii) How consistent are overall preferences for intervention policies throughout the population? Are there subgroups whose preferences are in opposition to the majority? We hypothesised that the population would be broadly supportive of interventions that restricted their civil liberties, but that they might be averse to monetary impacts of those interventions. Our work was motivated by the past vulnerability of Singapore to a diversity of emerging infectious disease threats such as Nipah virus in the 1990s ${ }^{31}$, to SARS-CoV in 2003 ${ }^{32}$, Chikungunya in 2008 ${ }^{33}$, pandemic influenza A(H1N1pdm09) in $2009^{34}$ and the Zika epidemic in $2016^{35}$, and its perceived vulnerability to future threats, given its location at the centre of South East Asia where various highly pathogenic strains of avian influenza continue to spread, its role as a transport hub, its highly urbanized environment and its tropical climate, which permits year round transmission of many viruses ${ }^{36}$. These results are hence intended to allow policy makers to identify policies which will have high levels of public support and are hence expected to translate into high levels of compliance, while exemplifying a method that can be used to address the same questions in different settings.

## Methods

Fielding and sample

This survey was fielded in Singapore between November 2012 and February 2013 by a market research company contracted by the authors. The sampling frame was based on a list of households obtained from the Singapore national database of dwellings and continued until 500 responses with written informed consent were obtained, which required 1,196 households to be contacted (yielding an unadjusted response rate of $41.8 \%$ ). Respondent eligibility could not be determined in 41 households. The remaining households were found to have at least one eligible respondent (citizen or permanent resident aged 21 and over). For those with multiple eligible respondents, one was randomly selected to take the survey. Trained interviewers administered the paper survey face-to-face in English, Malay, Mandarin or Tamil. Participants were guided through the discrete choice experiment by the interviewer. The study was approved by the National University of Singapore Institutional Review Board. All methods were performed in accordance with relevant guidelines and regulations.

## Survey structure

The survey questioned respondents' travel habits, experience with two previous infectious disease outbreaks in Singapore (the 2009 influenza A(H1N1pdm09) pandemic and the 2003 SARS-CoV outbreaks), attitudes towards and knowledge of the effectiveness of interventions, and beliefs about the burden of infectious diseases in Singapore. Participants were also asked how frequently they attended various crowded public places and whether they would reduce such attendance in response to an outbreak. Socio-demographic questions were also included.

The core of the survey was a discrete choice experiment (DCE), which is a method often used to identify preferences for, importance of, and willingness-to-pay (WTP) for specific features of products that are composed of multiple features. In this case, we used it to elicit preferences for specific policy responses to an infectious disease outbreak, and report WTP as an easy to understand scale of support. Each policy scenario consists of a number of attributes (for example social distancing) and each attribute of a number of levels (for example, none, closure of schools, or closure of schools and cancellation of mass gatherings). Each participant was provided a series of ten pairs of hypothetical alternatives, and for each pair was asked to select one of the two options (with a combination of one level for each attribute) as being his or her preference. An example of a typical pair of options is provided in Table 1. Each pair contains the same attributes but different levels of each attribute; the attributes and levels used are found in Table 2.

The first four attributes include interventions which were used in Singapore and other countries at various points of the 2009 influenza pandemic, 2003 SARS outbreak, and in response to other emerging
outbreaks. The fifth assesses the tolerance to economic losses. The final two summarize the severity of the outbreak, in size (number of cases) and fatality rates.

Five of the seven attributes consisted of measures the government could take to restrict the spread of an emerging infectious disease. We excluded vaccination as a control measure due to the long lead time required to get a vaccine to market, which is six months for a reformulated influenza vaccine ${ }^{37}$ but can be much longer (for dengue, for instance, it has taken decades ${ }^{38}$ ). The Singapore government, during the 2009 influenza pandemic and 2003 SARS-CoV outbreaks, quarantined suspected cases and enforced the isolation of actual cases. Both of these measures were included as attributes with two levels for each: mandatory and voluntary. The cancellation of mass gatherings was also included as an attribute with levels ranging from no cancellations to the closure of schools and prohibition of other types of mass gatherings. Temperature screening using thermal scanners was used during both the two events in Singapore and was therefore also included with different levels indicating whether the screenings were to be conducted only at border checkpoints, at checkpoints and other sites within Singapore, or not at all. Finally, a monetary attribute was included which posited a hypothetical one-time tax to fund control efforts with the following values: $\mathbf{S} \$ 15, \mathrm{~S} \$ 20, \mathrm{~S} \$ 40$ and $\mathrm{S} \$ 50$ (in $2013 \mathrm{~S} \$ 1 \approx \mathrm{US} \$ 0.80$ ). The two remaining attributes described the outcome of an infectious disease outbreak in terms of two metrics: the expected number of infections (five levels ranging from 200 to 1,000,000 cases) and the expected number of infection-related deaths (five levels; 0-180 deaths). Attributes and levels for the survey were determined through literature review, cognitive interviews, and piloting a draft instrument $(\mathrm{n}=50)^{39}$ to span plausible ranges for emerging infectious disease outbreaks or pandemics.

Following standard practice in DCEs ${ }^{39}$, respondents saw a fractional DCE design that is statistically efficient, minimizes level overlap (where levels do not vary across competing options) and ensures level balance (each level appears approximately the same number of times) ${ }^{40}$. The design was produced using Sawtooth SSI Web v8.22 and included four versions, each version containing ten tasks. Individual level data are available in Supplementary Data 1 and 2.

## Analyses

Model overview: The analysis uses a random utility model (RUM), which posits that respondents choose the option which provides them greater satisfaction/utility. By regressing respondent choices on the policy attributes and levels, we derived preference weights for each attribute-level, when all other attribute levels are held constant. The model assumes that the utility of a given scenario is a linear
combination of the utilities associated with each attribute of the scenario, from interventions to outcomes, plus Gaussian noise. In addition, a hierarchical model was developed in which individuals were allowed differing utilities, the output of which was used to cluster individuals into groups.

Model formulation: A single attribute $a$ has $L_{a}$ levels. A single set of policy/outcome options contains $A$ attributes in all, and so the information about the set is contained in the object $\left(l_{1}, l_{2}, \ldots, l_{A}\right)$. To facilitate analysis, the information is reformulated as a vector of dummy variables, $\left(x_{1}, x_{2}, \ldots, x_{K}\right)$ where $K=\sum_{a=1}^{A}\left(L_{a}-1\right)(1)$ is the total number of dummy variables, and where the dummy variables are coded 1 and 0 to indicate which levels are present for each attribute. One level per attribute is omitted to be treated as the baseline. We indicate sets via superscripts on the $x \mathrm{~s}$. The exception to this is the monetary variable which was left as a numerical value.

The average utility $\mu_{b}$ over individuals in the population presented with a set of options $b$ is modelled as a linear combination of utility components

$$
\begin{equation*}
\mu_{b}=\sum_{k=1}^{K} \beta_{k} x_{k}^{b} \tag{2}
\end{equation*}
$$

where the $\beta s$ capture the utility of each component. The utility experienced in the $i$ th response is assumed to be $u_{i b} \sim N\left(\mu_{b}, \sigma^{2}\right)$ (3). The respondent reports whether $u_{i 1}>u_{i 2}$ or not. If we denote the difference between these utilities as $\delta_{i}=u_{i 1}-u_{i 2}$ (4) then $\delta_{i} \sim N\left(\mu_{1}-\mu_{2}, 2 \sigma^{2}\right)$ (5). We observe $y_{i}$ which is 1 if $\delta_{i}>0$ and 0 otherwise. The likelihood of the data therefore follows directly.

WTP for a given change in a policy scenario is the amount of cash (in this case a one-time tax) that would leave a respondent indifferent between paying (or receiving payment) for the attribute levels in a new scenario or remain with the original scenario. Although individuals cannot directly pay for public health interventions that apply to society as a whole, WTP serves as a useful gauge for strength of support for or against a policy measure. The WTP can be estimated by comparing the change in utility between the scenarios and the marginal utility of the tax attribute. The utility of tax was assumed to be linear, creating a single utility to money mapping that permitted the posterior distribution of willingness-to-pay (in units of one Singapore dollar) to be derived by taking the ratio of the other $\beta \mathrm{s}$ to the $\operatorname{tax} \beta$.

Subgroup analysis: We then employed a hierarchical cluster analysis with Wald's method to identify distinct respondent preference classes. To account for the between individual variation, a hierarchical model was fitted. This model is similar as the original model, but the utility parameter $\beta$ varies by
individual. The utility parameter, $\beta_{i k}$, for individual $i$ attribute $k$ was assigned a Normal prior, i.e. $\beta_{i k} \sim N\left(\mu_{k}, \sigma_{k}^{2}\right)(6)$. Following parameter estimation (see next section), the Euclidean distance matrix used for cluster analysis was calculated from posterior mean utilities associated with each attribute and each individual. The number of latent classes was determined using the dendrogram from the cluster analysis, centroid plot from a two-group linear discriminant analysis, and elbow plot. Demographic predictors of class membership were then determined through logistic regression.

Model fitting: In the main model, flat prior distributions were assigned to each $\beta_{k}$ and to $\log \sigma$. To ensure identifiability, one exception is made: the extreme level for one attribute ( 180 deaths) was set to -1 so that all other utilities are relative to that. The choice of the variable to anchor the utility scale to was made on pilot runs. In the hierarchical model used for clustering, the hyperprior distributions for $\mu_{k}$ and $\sigma_{k}^{2}$ followed a normal distribution $N(0,10)$ and an inverse-gamma distribution with a shape of 0.1 and a scale of 0.1 , respectively. The model was fit using the Rstan package ${ }^{41}$ that used the Stan language ${ }^{42}$ to sample from the posterior distribution for the parameters resulting from the model described above. This used a Hamiltonian Monte Carlo algorithm ${ }^{43}$. In total 500,000 draws with a thin of 5 iterations from the posterior were made, and convergence assessed visually. Analyses were done in $\mathrm{R}^{44}$.

Variant model: An alternative model was also constructed in which the linear tax variable was transformed using three dummy variables representing the tax effect of $\$ 20, \$ 40$ and $\$ 50$ compared with $\$ 15$. Similar results were obtained.

## Results

## Survey respondents

Table 3 presents demographic characteristics for the 500 respondents and for a comparable population from the 2010 Singapore census. Although the age, gender, racial group, employment status and family status distributions are similar between the groups, the sample has a higher proportion of those educated to a polytechnic diploma level or higher ( $45.2 \%$ compared to $38.0 \%$ in census).

## Attitudes and knowledge

The fraction predicting there would be an infectious disease outbreak in Singapore infecting more than 200 people over the next 12 months was $29 \%$ ( $95 \%$ Cl $25 \%-33 \%$, see Figure 1); the estimate for an outbreak infecting more than a million people (i.e. around a fifth of the total population) was much
lower (10\%, 95\%CI 7\%-12\%). Mortality estimates also varied, with $20 \%$ ( $95 \% \mathrm{Cl} 16 \%-23 \%$ ) predicting it likely that there would be an outbreak which kills more than 30 , and $9 \%(95 \% \mathrm{Cl} 6 \%-11 \%)$ predicting one which kills more than 180 people, in the next year.

When asked about each intervention in isolation, a large majority of respondents favoured a policy of quarantine for potentially infected contacts $(83 \%, 95 \% \mathrm{CI} 79 \%-86 \%$, see Figure 1). Isolation for diagnosed cases of infection was favoured by an even larger proportion ( $95 \%, 95 \% \mathrm{Cl} 93 \%-97 \%$ ). Most of the sample was also in favour of temperature screenings (though the proportion was higher for screenings conducted at the border than elsewhere: $95 \%$ [94\%-98\%] vs. 89\% [87\%-92\%]). Temperature screening was thought to be somewhat or very effective by $91 \%$ ( $89-94 \%$ ) and quarantine by 95\% (9497\%).

On attendance at crowded events or venues, the venue most frequently attended by survey participants were hawker centres (naturally ventilated food courts), where $29 \%$ ( $95 \% \mathrm{Cl} 25 \%-33 \%$ ) went daily, and $48 \%$ ( $95 \% \mathrm{Cl} 43 \%-52 \%$ ) went weekly. A substantial fraction ( $60 \%, 95 \% \mathrm{Cl} 56 \%-64 \%$ ) reported going to shopping malls at least weekly, as opposed to $28 \%$ ( $95 \%$ Cl $24 \%-32 \%$ ) who reported going to religious gatherings and $3 \%(95 \% \mathrm{Cl} 2 \%-5 \%)$ to festivals. When asked whether they would limit attendance at mass gatherings in the event of an infectious disease outbreak, a significant proportion reported they would not: $58 \%$ ( $95 \% \mathrm{Cl} 50-67 \%$ ) of those attending religious gatherings weekly and $51 \%$ (95\%Cl 4359\%) of daily hawker centre patrons stated they would not reduce the frequency of attendance.

## Overall preferences for interventions and willingness to pay

Figure 2A presents utilities for the entire sample excluding 7 with missing responses (full regression results are included in the supplementary materials). In outbreaks with at least 200 cases (the scenarios proffered), the sample as a whole marginally preferred mandatory to voluntary quarantine and isolation. They also favoured the cancellation of all mass gatherings and temperature screenings at sites all around Singapore. The two certainties of life-death and taxes-were disfavoured, but respondents' preferences were not influenced by the number of infections.

Table 4 shows how respondents valued, in monetary terms, different policy options or outcomes, based on their estimated WTP (parameter estimates [posterior means, $95 \%$ credible intervals] are presented in Supplementary Table S1 and S2 for the models with and without linear terms for the tax attribute). In general, respondents preferred more intervention, rather than less, and were willing to accept a loss of S $\$ 370$ million at the societal level for the full set of interventions considered for implementation.

Participants indicated via their choices a willingness to accept (personal) costs of up to $\mathbf{S} \$ 34$ ( $\$ \$ 19, \mathrm{~S} \$ 58$ ) to prevent 30 deaths, $\mathrm{S} \$ 70(\mathrm{~S} \$ 45, \mathrm{~S} \$ 112$ ) to prevent $80, \mathrm{~S} \$ 71(\mathrm{~S} \$ 49, \mathrm{~S} \$ 109)$ to prevent 120 and $\mathrm{S} \$ 98$ (S $\$ 69, \mathrm{~S} \$ 148$ ) to prevent 180 -at a national level, these imply a willingness to pay $\sim \mathrm{S} \$ 0.5 \mathrm{M}$ to $\mathrm{S} \$ 1 \mathrm{M}$ for each life saved. The value placed on a strong response (mandatory isolation and quarantine, cancelling all mass gatherings, and islandwide screening), $\mathrm{S} \$ 74$, thus approximately corresponded to the value placed on preventing 100 deaths.

## Group preferences

The hierarchical cluster analysis determined that the sample included two subgroups, and based on the following results we labelled these groups mortality-averse and expenditure-averse (estimates in

Supplementary Table S1 and S2). Cluster analysis results for these groups are shown in Figure 3, while utilities for the two groups are presented in Figures 2B and 2C. The mortality-averse group ( $\mathrm{n}=317,63 \%$ ) was in favour of the actual deployment of interventions, whereas the expenditure-averse group ( $n=183$, $37 \%$ ) expressed a strong disutility for a tax to cover the response and were ambivalent about mandatory isolation of confirmed cases. Both two groups, as expected, favoured a lower number of deaths, though the strength of preference varied substantially, with the mortality-averse group expressing a large disutility and the expenditure-averse a much smaller one. Neither group found reducing the number of infections important.

## Predictors of class membership

Those with post-secondary school education were more likely to belong to the mortality-adverse group than to belong to the expenditure-averse group (adjusted odds ratio: 1.71, $95 \% \mathrm{CI}: 1.12-2.61$ ). Other demographic variables were not predictive of class membership (see Figure 4).

## Discussion

Research on interventions to prevent or mitigate pandemics has assessed their effectiveness, using modelling ${ }^{45,46}$ or empirical evidence ${ }^{47,48}$, on their indirect effects ${ }^{49,50}$, their economic impacts ${ }^{51,52}$, and the legal and ethical issues surrounding their use ${ }^{53}$. This paper presents what we believe to be one of the first studies to measure the preferences of members of the public for control policies that form part of established pandemic preparedness plans.

As in many countries, Singaporean law permits the government to curtail civil liberties in response to an infectious disease outbreak (in Singapore's case, under the Infectious Diseases Act), but the use of this power to isolate cases or quarantine potential cases requires careful weighting of the risk to others from
not acting versus the loss of liberty of the individual being isolated or quarantined ${ }^{53}$. Our survey found that most Singaporeans reported a high tolerance for interventions that curtail individual liberties, which may be related to their long-standing acceptance of a paternalistic streak in their government ${ }^{54}$. Most participants supported the isolation of known cases and the quarantine of potential cases, both strategies that have been used in recent history in Singapore: in 2003 thousands of contacts of SARSCoV cases were isolated or put under daily telephone surveillance ${ }^{27}$, while in the early period of the 2009 epidemic, cases with confirmed influenza A(H1N1pdm09) infection and their household contacts were isolated at home, with foreigners detained in Government Quarantine Facilities ${ }^{55}$. While such popular support does not justify a policy of isolation or quarantine per se, it may facilitate the effective implementation of such a policy.

Overall, utilities of all participants were high for the more intense control measures, i.e. given the same number of infections and deaths, respondents reported preferring mandatory isolation, quarantine, and social distancing. It is not clear how effective social distancing measures would be in a mild outbreak, however, as many respondents reported that they would not voluntarily reduce how frequently they go out to eat or shop. It may be the implicit recognition of this that made the majority of participants recognize that isolation and quarantine should be mandatory rather than voluntary. Results reveal that the preferences of the population are not uniform; respondents could be broadly categorized into two groupings: one group (mortality averse) was strongly motivated to reduce the number of deaths and willing to accept interventions that did so, whereas another (expenditure averse, $37 \%$ of our respondents) was tax averse, and not in favour of any measures that might increase their taxes, even at levels comparable to the per capita costs of Singapore's routine dengue vector control program ${ }^{56}$.

Discrete-choice experiments can inform policy makers as to how much support there would be for potentially disruptive measures such as quarantine, isolation and school closures, and what kind of public health information might garner support from those otherwise not in favour. In Singapore, given our findings, this might involve stressing the necessity of such measures to reduce mortality, to co-opt the mortality-averse group, and to minimize the economic impact, to gain support from the sizeable taxaverse group. Studies such as this one can also identify misperceptions among the public that may hinder support for effective control. Two such examples surfaced in our study: (1) temperature screening island-wide received considerable support by our survey participants, although temperature screening at the country's main airport was estimated only to pick up around 1 imported case in 4 in $2009^{28}$, and was increasingly ineffective as the infection became more widespread ${ }^{57}$, and (2) the
predicted risk of infectious disease outbreaks was considerably underestimated: 2013 saw ~ 20000 dengue infections in Singapore, but the mean forecast risk of an outbreak infecting at least 200 people was a mere $29 \%$. Future studies might evaluate the effect of priming respondents with accurate public health information before eliciting their preferences. We included interventions that would be considered for use in response to an emerging infectious disease, and so did not consider vaccination given the lead time needed to develop a vaccine. For many vaccine-preventable infections, however, decisions about whether to be vaccinated are made by the individual, rather than by the government, and so alternative study designs might be better suited to determining features that lead to vaccine uptake and support, such as standard cross-sectional surveys ${ }^{58}$. Ethical issues regarding loss of liberty during an outbreak were not covered in our experiment, and should be explored in future studies, together with more contextual information on why policies were favoured or not ${ }^{59}$.

Beyond its direct application to Singapore, our work holds a wider relevance on how governments and global health authorities can use such methods to inform better management of epidemics and pandemics. It has been argued that, during the influenza pandemic in 2009, the failure of WHO and government health agencies was not so much in their assessment of the severity of the threat or what interventions might be effective against it, but in being able to effectively communicate the risk and the benefits of select mitigation strategies ${ }^{60,61}$. Prior assessment of population level preferences could help identify thresholds of epidemic severity which could serve as triggers for the implementation of more disruptive measures. In addition, information from such surveys could be used to explain the rationale for particular decisions, with hierarchical cluster analysis used to support the targeting of different messages to audiences with different values. Whereas surveys have been performed retrospectively to gauge support for government responses to specific circumstances like the SARS-CoV outbreaks in 2003 and influenza pandemic in 2009 ${ }^{62,63}$, our method is the first conjoint analysis that quantifies public support for government interventions over a realistic range of outbreak scenarios and parameters.

Singapore is a city state in the centre of South East Asia that has experienced several emerging infectious disease threats and where there is a general acceptance that some civil liberties be constrained for the overall public good ${ }^{54}$. Her people mostly originate in China, India and the Malay Archipelago, and, culturally and socially, Singapore has much in common with other countries in South, East, and South-East Asia. Our study may therefore shed light on attitudes towards response to infectious disease threats in Asia, a hotspot for emerging infectious diseases ${ }^{64}$. Future research should
extend the approach to African, American and European settings, where attitudes on the role the state should play in responding to public health threats may differ.

The current study does have limitations. The response rate was low (41.8\%) and although there were no significant differences when compared to the population age, gender, race, employment or family data, those with higher education were over-represented in our sample. A further limitation is that the study design elicits the public's preferences and trade-offs between known interventions and known outcomes of those interventions. However, at an early stage of an outbreak of a novel pathogen, policy makers face grave uncertainty about the outcomes of interventions because the characteristics of the pathogen's transmission routes and potential, the severity and symptoms of the disease it causes, and the public reaction is unpredictable. As a result, the decisions policy makers must continue to be based on scientific advice and political imperatives. Surveys such as this one permit a better understanding of those political imperatives in emerging infectious disease outbreaks.

In conclusion, we report what we believe is the first discrete choice experiment to assess support for policies to control an emerging infectious disease outbreak, finding high levels of support among the Singaporean population for interventions that curtail individual liberties. Similar studies in other settings would be useful for public health decision makers.

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## Author Contributions

Conceived the study: ARC, MICC, EAF. Oversaw data collection: MAF, EAF. Performed analyses: ARC, XZ, MAF. Wrote the paper: ARC, XZ, MAF, MICC, EAF.

## Additional Information

## Competing Interests

The authors declare no conflicts of interest.

## Funding

The work was funded by Singapore's National Medical Research Council, grant NMRC/H1N1R/005/2009, the Ministry of Health, Singapore, grant CDPHRG/0009/2014, and the Centre for Infectious Disease Epidemiology and Research. The funders had no role in study design, data collection and analysis, decision to publish, or preparation of the manuscript.

## Availability of data

All data analysed during this study are included in this published article (Supplementary data 1 and 2).

## Figure captions

Figure 1: Risk perceptions, support for interventions during infectious disease outbreaks and belief in their effectiveness among $\mathbf{5 0 0}$ adult Singapore residents. Whiskers represent $\mathbf{9 5 \%}$ confidence intervals. (A) Estimates of risk of large outbreaks over the next 12mo in Singapore. (B, C) Support for mandatory isolation and quarantine in the event of an outbreak. A four-point Likert scale (strongly oppose, moderately oppose, moderately in favour, strongly in favour) is presented with stronger opinions to the left- and right-most extremes of the plot. (D) Belief in the effectiveness of, experience of, and support for the use of temperature screening. ( $\mathrm{E}-\mathrm{H}$ ) Frequency of attendance at hawker centers (outdoor food courts), shopping malls (black), religious gatherings and festivals. Week/Month/Year stand for at least once a week/month/year. Within each frequency, the number reporting they would not reduce their attendance in the event of an outbreak is overlaid (white), excepting those who never attend such activities.

Figure 2: Preference weights for policy scenario attributes, elicited by a discrete choice experiment.
Overall (A) and in two subgroups (B, C) identified via hierarchical cluster analysis. Attribute levels with larger (positive) utilities are preferred to those with smaller (negative) utilities. The figure reflects estimated coefficients from the probit model, with the utilities for voluntary quarantine, voluntary isolation, no social distancing, no temperature screening, 200 infections and 0 deaths being set to 0 . For panel (A), the utility for $\mathbf{1 8 0}$ deaths is set to $\mathbf{- 1}$ for identifiability, all other utilities are therefore relative to it. Bars indicate $95 \%$ credible intervals. For panels (B, C), utilities are stratified posterior means from the Bayesian hierarchical model, and bars indicate $95 \%$ confidence intervals.

Figure 3: Identification of distinct respondent preference classes among 500 adult Singapore residents using a hierarchical cluster analysis. (A) A dendrogram of the hierarchical cluster analysis (Wald's method). The $x$-axis measures the closeness of either individual points or clusters. (B) A centroid plot
shows the first (LD1, $x$-axis) versus the second discriminant function (LD2, $y$-axis) from a two-group linear discriminant analysis. (C) An elbow plot validates the number of clusters. The "elbow" on the line is at two clusters.

Figure 4: Demographics of participants classified as expenditure averse (imperial red) and mortality averse (navy blue). Whiskers indicate $95 \%$ confidence intervals. NILF = Not in the labor force.

## Tables

Table 1: A typical pair of sets of options. In this example, the individual selected scenario A over scenario B.

|  | Scenario A | Scenario B |
| :---: | :---: | :---: |
| Policy measures |  |  |
| Quarantine of potential cases | Mandatory | Voluntary |
| Isolation of actual cases | Voluntary | Mandatory |
| Cancellation of mass gatherings | Closure of schools | Closure of schools and cancellation of other mass gatherings that involve more than 30 people in a single location |
| Temperature screening | Only at border checkpoints | Only at border checkpoints |
| One-time fee to fund public health measures | S\$40 | S\$15 |
| Outcomes |  |  |
| Expected number of infections | $\begin{aligned} & 500 \text { cases } \\ & (1 \text { in } 10,000 \text { people are infected) } \end{aligned}$ | $\begin{aligned} & 1,000,000 \text { cases } \\ & \text { (1 in } 5 \text { people are infected) } \end{aligned}$ |
| Expected number of infectionrelated deaths | 0 deaths | 120 deaths |
| Choice |  |  |
| If these were your only two options, which would you choose? | $\checkmark$ |  |

Table 2: Attributes and levels used in the discrete choice experiment. Each set of options contained one level for each attribute.

| Attributes | Levels |
| :---: | :---: |
| Quarantine of potential cases | Voluntary / Mandatory |
| Isolation of actual cases | Voluntary / Mandatory <br> cancellation of other mass gatherings that involve <br> more than 30 people in a single location |
| Cancellation of mass gatherings | None / Only at border checkpoints / At border <br> checkpoints and other sites within Singapore |
| Temperature screening | S\$15 / S\$20 / S\$40 / S\$50 |
| One-time fee to fund public health |  |
| measures | 200 cases (1 in 25,000 people are infected) / |
| Expected number of infections | 500 cases (1 in 10,000 people are infected) / |
| 1,000 cases (1 in 5,000 people are infected) / |  |
| 10,000 cases (1 in 500 people are infected) / |  |
| $1,000,000$ cases (1 in 5 people are infected) |  |

Table 3: Demographic characteristics of sample ( $n=500$ ) and population. Sample racial groups are selfdeclared. Census racial groups accord with national registration.

|  | Sample percentage (95\% confidence interval) | Census 2010 percentage |
| :---: | :---: | :---: |
| Age |  |  |
| <40 | 36.2 (32.0-40.4) | 39.9 |
| 40-49 | 26.4 (22.5-30.3) | 22.2 |
| 50-59 | 19.6 (16.1-23.1) | 19.3 |
| 60+ | 17.8 (14.4-21.2) | 18.6 |
| Gender |  |  |
| Male | 45.8 (41.4-50.2) | 48.8 |
| Female | 54.2 (49.8-58.6) | 51.2 |
| Education |  |  |
| Upper secondary school or lower | 54.8 (50.4-59.2) | 62.0 |
| Polytechnic diploma or higher | 45.2 (40.8-49.6) | 38.0 |
| Racial group |  |  |
| Chinese | 72.8 (68.9-76.7) | 74.2 |
| Indian | 9.6 (7.0-12.2) | 9.2 |
| Malay | 13.0 (10.1-15.9) | 13.3 |
| Other | 4.6 (2.8-6.4) | 3.3 |
| Employment status |  |  |
| Employed | 65.0 (60.8-69.2) | 64.6 |
| Unemployed | 3.2 (1.7-4.7) | 2.0 |
| Not in labor force | 31.8 (27.7-35.9) | 33.4 |
| Family status |  |  |
| Without children | 42.4 (38.1-46.7) | 44.0 |
| With children | 57.6 (53.3-61.9) | 56.0 |

Table 4: Willingness to pay to move between options. The willingness to pay figures indicate the cash amount (in Singapore dollars, at 2013 prices $S \$ 1 \approx U S \$ 0.80$ ) required to make respondents indifferent between two neighbouring attribute levels, with arrows representing the direction in which the individual would be willing to pay to move. For instance, participants would pay $\$ 13$ (as revealed by their choices) to move from a voluntary to a mandatory quarantine policy.

| Attribute | Level | WTP (95\% Crl) | Level |
| :---: | :---: | :---: | :---: |
| Quarantine of potential cases | Voluntary | $\xrightarrow{\$ 15(\$ 8, \$ 24)}$ | Mandatory |
| Isolation of actual cases | Voluntary | $\xrightarrow{\$ 8(\$ 1, \$ 16)}$ | Mandatory |
| Cancellation of mass gatherings | None | $\xrightarrow{\text { \$27 (\$14, \$48) }}$ | School closure |
|  | None | $\xrightarrow{\$ 30(\$ 17, \$ 51)}$ | School closure and other mass gatherings |
| Temperature screening | None | $\xrightarrow{\$ 12(\$ 2, \$ 26)}$ | At border |
|  | None | $\xrightarrow{\$ 21(\$ 11, \$ 36)}$ | At border and other sites |
| Number of infections | 200 | N.S. | 500 |
|  | 200 | $\xrightarrow{\$ 15(\$ 4, \$ 29)}$ | 1000 |
|  | 200 | N.S. | 10000 |
|  | 200 | N.S. | 1000000 |
| Number of deaths | 0 | $\stackrel{\$ 34(\$ 19, \$ 58)}{\leftarrow}$ | 30 |
|  | 0 | $\begin{aligned} & \$ 70(\$ 45, \$ 112) \\ & \leftarrow \end{aligned}$ | 80 |
|  | 0 | $\stackrel{\$ 71(\$ 49, \$ 109)}{\leftarrow}$ | 120 |
|  | 0 | $\stackrel{\$ 98(\$ 69, \$ 148)}{\leftarrow}$ | 180 |

N.S. Not significant as S\$0 included in the 95\% credible interval.


Figure 1: Risk perceptions, support for interventions during infectious disease outbreaks and belief in their effectiveness among 500 adult Singapore residents. Whiskers represent $95 \%$ confidence intervals. (A) Estimates of risk of large outbreaks over the next 12mo in Singapore. (B, C) Support for mandatory isolation and quarantine in the event of an outbreak. A four-point Likert scale (strongly oppose, moderately oppose, moderately in favour, strongly in favour) is presented with stronger opinions to the left- and right-most extremes of the plot. (D) Belief in the effectiveness of, experience of, and support for the use of temperature screening. (E-H) Frequency of attendance at hawker centers (outdoor food courts), shopping malls (black), religious gatherings and festivals. Week/Month/Year stand for at least once a week/month/year. Within each frequency, the number reporting they would not reduce their attendance in the event of an outbreak is overlaid (white), excepting those who never attend such activities.


Figure 2: Preference weights for policy scenario attributes, elicited by a discrete choice experiment. Overall (A) and in two subgroups ( $B, C$ ) identified via hierarchical cluster analysis. Attribute levels with larger (positive) utilities are preferred to those with smaller (negative) utilities. The figure reflects estimated coefficients from the probit model, with the utilities for voluntary quarantine, voluntary isolation, no social distancing, no temperature screening, 200 infections and 0 deaths being set to 0 . For panel (A), the utility for 180 deaths is set to -1 for identifiability, all other utilities are therefore relative to it. Bars indicate $95 \%$ credible intervals. For panels ( $B, C$ ), utilities are stratified posterior means from the Bayesian hierarchical model, and bars indicate $95 \%$ confidence intervals.




Figure 3: Identification of distinct respondent preference classes among 500 adult Singapore residents using a hierarchical cluster analysis. (A) A dendrogram of the hierarchical cluster analysis (Wald's method). The xaxis measures the closeness of either individual points or clusters. (B) A centroid plot shows the first (LD1, $x$-axis) versus the second discriminant function (LD2, y-axis) from a two-group linear discriminant analysis. (C) An elbow plot validates the number of clusters. The "elbow" on the line is at two clusters.


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Title: Public preferences for interventions to prevent emerging infectious disease threats: a discrete choice experiment - supplementary material

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Table S1: Utility estimates under main model, all participants. $95 \% \mathrm{Crl}$ is the $95 \%$ equal-tailed credible interval. The utility for all unlisted levels are set to $\mathbf{0}$. For the all-participant, the utility for 180 deaths is anchored to $\mathbf{- 1}$. For mortality-averse and expenditure-averse results, $95 \% \mathrm{Cl}$ is the $95 \%$ equal-tailed confidence interval for the posterior mean utility.

| Attribute level | Posterior mean | 95\% Crl | Attribute level | Posterior mean | 95\% Crl |
| :---: | :---: | :---: | :---: | :---: | :---: |
| All participants |  |  |  |  |  |
| Mandatory quarantine | 0.15 | (0.09,0.22) | 500 infections | -0.08 | (-0.22,0.06) |
| Mandatory isolation | 0.08 | (0.01,0.15) | 1000 infections | 0.15 | (0.02,0.28) |
| School closure | 0.27 | (0.16,0.39) | 10000 infections | 0.05 | (-0.10,0.20) |
| School closure and cancellation of other mass gatherings | 0.31 | (0.21,0.41) | 1 million infections | -0.06 | (-0.18,0.07) |
| Screening at border | 0.12 | (0.02,0.22) | 30 deaths | -0.35 | (-0.45,-0.24) |
| Screening at border and other sites | 0.21 | (0.12,0.32) | 80 deaths | -0.71 | (-0.84,-0.58) |
| Tax, per S\$100 | -0.84 | (-1.16,-0. 54) | 120 deaths | -0.72 | (-0.83,-0.62) |
| Standard deviation | 1.26 | (0.95,1.68) | 180 deaths | -1.00 | (-1.00,-1.00) |
| Mortality averse |  |  |  |  |  |
| Attribute level | Posterior mean | 95\% CI | Attribute level | Posterior mean | 95\% CI |
| Mandatory quarantine | 0.14 | (0.11, 0.17) | 500 infections | -0.04 | (-0.06, -0.03) |
| Mandatory isolation | 0.06 | (0.01, 0.11) | 1000 infections | 0.05 | (0.04, 0.07) |
| School closure | 0.30 | (0.29, 0.32) | 10000 infections | 0.05 | (0.02, 0.08) |
| School closure and cancellation of other mass gatherings | 0.41 | (0.38, 0.44) | 1 million infections | -0.01 | (-0.06, 0.04) |
| Screening at border | 0.24 | (0.21, 0.27) | 30 deaths | -0.38 | (-0.40,-0.36) |
| Screening at border and other sites | 0.22 | (0.21, 0.24) | 80 deaths | -0.64 | (-0.66,-0.61) |
| Tax, per S\$100 | -0.41 | (-0.73,0.10) | 120 deaths | -0.82 | (-0.87,-0.77) |
|  |  |  | 180 deaths | -1.68 | (-1.75,-1.62) |
| Expenditure averse |  |  |  |  |  |
| Mandatory quarantine | 0.13 | (0.07, 0.18) | 500 infections | -0.08 | (-0.11, -0.06) |
| Mandatory isolation | 0.02 | (-0.04,-0.09) | 1000 infections | 0.10 | (0.08, 0.13) |
| School closure | 0.30 | (0.27, 0.32) | 10000 infections | 0.07 | (0.02, 0.11) |
| School closure and cancellation of other mass gatherings | 0.40 | (0.35, 0.44) | 1 million infections | -0.14 | (-0.22, -0.07) |
| Screening at border | 0.10 | (0.06, 0.15) | 30 deaths | -0.38 | $(-0.41,-0.35)$ |
| Screening at border and other sites | 0.19 | (0.17, 0.22) | 80 deaths | -0.64 | (-0.67, -0.60) |
| Tax, per S\$100 | -1.29 | (-1.72, 0.87) | 120 deaths | -0.54 | (-0.62, -0.46) |
|  |  |  | 180 deaths | -0.28 | (-0.35, -0.20) |

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Table S2: Utility estimates under variant model, all participants and subgroups. 95\% Crl is the 95\% equal-tailed credible interval. The utility for all unlisted levels are set to 0 . For the all-participant, the utility for $\mathbf{1 8 0}$ deaths is anchored to $\mathbf{- 1}$.

| Attribute level | Posterior <br> mean | $95 \% \mathrm{CrI}$ | Attribute level | Posterior <br> mean | $95 \% \mathrm{CrI}$ |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| All participants |  |  |  |  |  | 0.16 |
| Mandatory <br> quarantine | $(0.09,0.24)$ | 500 infections | -0.05 | $(-0.19,0.10)$ |  |  |
| Mandatory isolation | 0.10 | $(0.03,0.17)$ | 1000 infections | 0.19 | $(0.04,0.35)$ |  |
| School closure | 0.32 | $(0.19,0.47)$ | 10000 infections | 0.12 | $(-0.05,0.33)$ |  |
| School closure and <br> cancellation of other <br> mass gatherings | 0.29 | $(0.18,0.41)$ | 1 million infections | 0.02 | $(-0.12,0.18)$ |  |
| Screening at border | 0.14 | $(0.04,0.25)$ | 30 deaths |  | $(-0.38$ | $(-0.49,-0.26)$ |
| Screening at border <br> and other sites | 0.18 | $(0.07,0.29)$ | 80 deaths | -0.75 | $(-0.92,-0.60)$ |  |
| S\$20 tax | -0.22 | $(-0.39,-0.08)$ | 120 deaths | -0.76 | $(-0.88,-0.65)$ |  |
| S\$30 tax | -0.28 | $(-0.39,-0.17)$ | 180 deaths | -1.00 | $(-1.00,-1.00)$ |  |
| S\$50 tax | -0.34 | $(-0.47,-0.21)$ | Standard deviation | 1.38 | $(1.00,1.93)$ |  |

"CaseNo", "Age50", "Gender", "Education", "Race", "Employment", "WithChildren" 166,FALSE, "Female","low","Chinese", "Not in labor force", TRUE 162,TRUE,"Male","low","Chinese","Not in labor force", FALSE 163, FALSE, "Female","low","Chinese", "Employed", TRUE
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150,FALSE, "Male", "low", "Malay","Employed", TRUE
142,TRUE,"Female", "low", "Chinese", "Employed", TRUE
145,TRUE,"Female","low","Chinese","Not in labor force", FALSE
149, FALSE, "Female","low","Chinese","Employed", TRUE
209, TRUE, "Male", "low", "Chinese", "Unemployed", FALSE
213,TRUE,"Male","high","Chinese", "Not in labor force", TRUE
210, FALSE, "Male","high","Chinese","Employed", TRUE
204, FALSE, "Male", "high","Indian", "Employed", TRUE
203, FALSE, "Male","high","Indian","Employed", TRUE
20,FALSE,"Male","low","Chinese","Employed", TRUE
175, FALSE, "Male", "high", "Other", "Employed", TRUE
17, FALSE, "Female", "high", "Chinese", "Employed", FALSE
16, FALSE, "Male","high","Chinese", "Employed", TRUE
14,FALSE,"Male","low","Chinese","Not in labor force", FALSE
18,FALSE,"Female","high","Indian","Employed", TRUE
15, FALSE, "Male","low", "Chinese","Employed", TRUE
176,TRUE,"Female","low","Malay","Employed", TRUE
172, TRUE,"Female", "low", "Malay", "Unemployed", TRUE
173, FALSE, "Male","high", "Chinese", "Employed", FALSE
171,FALSE, "Female","high","Chinese", "Employed", FALSE
174,FALSE,"Male","high","Chinese", "Employed", TRUE
19,FALSE, "Female", "low", "Malay", "Unemployed", TRUE
170,FALSE, "Female", "low", "Indian", "Unemployed", TRUE
178, FALSE, "Female","high","Chinese", "Employed", FALSE
468,TRUE,"Female","low","Chinese","Not in labor force", FALSE
251,TRUE,"Male","low","Chinese","Employed", TRUE
258,FALSE,"Female","high","Other", "Employed", TRUE
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439, FALSE,"Female","low","Indian", "Employed", FALSE
247, FALSE,"Female","low","Malay","Employed", TRUE
248,TRUE,"Female","low","Malay","Not in labor force",FALSE
255,FALSE, "Female", "high","Chinese", "Employed", TRUE
254,FALSE,"Female","low","Chinese","Not in labor force", TRUE
465, FALSE, "Female", "high","Chinese", "Employed", FALSE
471,FALSE, "Male","high", "Chinese","Employed", FALSE
252,TRUE,"Female", "low", "Chinese","Employed", FALSE
470,FALSE, "Male", "low","Indian", "Employed", TRUE
474, TRUE, "Female", "low", "Chinese", "Employed", TRUE
257,TRUE,"Female","low","Chinese","Not in labor force", FALSE
467, FALSE, "Male","high","Chinese", "Unemployed", FALSE
473, FALSE, "Female", "low","Malay","Unemployed", TRUE
241,TRUE,"Female","low","Chinese","Not in labor force",TRUE
256,FALSE, "Male", "low", "Chinese", "Employed", TRUE
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249, FALSE, "Female", "low", "Chinese", "Employed", TRUE
469,FALSE,"Female","low","Malay","Employed", TRUE
253,FALSE,"Male","low","Malay","Employed", TRUE
466,FALSE, "Female", "high", "Chinese", "Employed", TRUE
224,TRUE,"Female","low", "Malay","Employed", TRUE
219, TRUE, "Female", "low", "Chinese", "Employed", TRUE
226,TRUE,"Female","low","Malay","Not in labor force", FALSE

222, FALSE,"Male","high","Chinese","Employed", TRUE
227, TRUE, "Female", "low", "Chinese", "Employed", TRUE
225, FALSE, "Male","low", "Malay", "Employed", FALSE
228, FALSE,"Female","high","Malay","Employed", TRUE
218,FALSE,"Female","low","Indian","Employed", TRUE
232,FALSE,"Female","high","Chinese", "Employed", TRUE
229, FALSE,"Male","high","Chinese","Employed", TRUE
223, TRUE,"Male","low","Chinese", "Employed", TRUE
231,TRUE, "Female", "low", "Chinese", "Employed", TRUE
220,TRUE, "Male", "low", "Malay", "Employed", TRUE
230,FALSE, "Male", "high", "Chinese", "Employed", TRUE
221,TRUE,"Male","low","Indian","Employed", TRUE
182,TRUE, "Male","low","Chinese", "Not in labor force", TRUE
160,FALSE,"Female","low","Chinese","Employed", TRUE
186, FALSE,"Male","high","Chinese","Employed", TRUE
27,FALSE, "Male", "high","Indian", "Employed", FALSE
26,TRUE,"Male","low","Chinese","Not in labor force",FALSE
386,TRUE,"Female","low","Chinese","Not in labor force",FALSE
169,TRUE,"Male","low", "Chinese","Employed", TRUE
167,TRUE,"Female","high","Chinese","Employed", FALSE
154, FALSE, "Female", "high","Chinese", "Employed", TRUE
168, FALSE, "Female","high","Chinese", "Employed", FALSE
193, FALSE, "Female", "low","Indian", "Unemployed", FALSE
187, FALSE, "Male", "high", "Chinese", "Employed", FALSE
188, FALSE,"Female","low","Chinese","Employed", TRUE
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314,TRUE,"Female","low","Chinese","Not in labor force",TRUE
472, FALSE, "Female", "high", "Chinese", "Employed", FALSE
364,FALSE, "Male","high","Chinese","Not in labor force", FALSE
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343,FALSE,"Male","high","Chinese","Not in labor force", FALSE
338,FALSE,"Male","high","Chinese","Not in labor force",FALSE
371,FALSE, "Male","high", "Chinese","Employed", FALSE
375, FALSE, "Male","high", "Chinese","Employed", FALSE
365, FALSE,"Female","low","Chinese", "Not in labor force", FALSE
373, FALSE, "Male","high","Chinese","Employed", FALSE
366,FALSE,"Male","high","Chinese","Not in labor force",FALSE
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50, FALSE, "Female", "high","Chinese","Employed", TRUE
308, FALSE, "Female", "low", "Chinese", "Employed", FALSE
51,TRUE, "Female", "low", "Chinese","Employed", TRUE
48,FALSE,"Female","high","Chinese","Not in labor force", TRUE
49,TRUE,"Female","low","Chinese","Not in labor force", TRUE
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46, FALSE, "Male", "high", "Chinese", "Employed", FALSE
47, FALSE, "Male","low","Chinese","Employed", TRUE
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52,FALSE, "Male","high","Chinese","Employed", TRUE
40,TRUE,"Male","low","Chinese","Not in labor force", FALSE
53, FALSE, "Male", "high", "Chinese", "Employed", FALSE
44, FALSE, "Female", "high","Chinese", "Employed", TRUE
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71,TRUE,"Male","low","Chinese","Employed", FALSE
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76,FALSE,"Female","high","Chinese","Employed",TRUE
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417,FALSE,"Male","high","Chinese","Employed",FALSE
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391,FALSE,"Male","low","Malay","Employed", FALSE
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413,TRUE,"Female","low","Chinese","Not in labor force",TRUE
415,FALSE,"Female","high","Chinese","Employed",FALSE
414,FALSE,"Male","high","Chinese","Employed",FALSE
411,FALSE,"Female","low","Chinese","Not in labor force",TRUE
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298,FALSE,"Female","low","Malay","Unemployed",TRUE
303,FALSE,"Male","high","Other","Employed",TRUE
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290,FALSE,"Male","low","Chinese","Not in labor force",FALSE
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244,FALSE,"Female","high","Chinese","Employed",TRUE
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487,TRUE,"Male","high","Chinese","Employed",TRUE
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309,FALSE,"Female","high","Chinese","Employed",FALSE
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490,FALSE,"Male","low","Indian","Employed",FALSE
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494,TRUE,"Female","low","Chinese","Not in labor force",TRUE
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237,FALSE,"Male","high","Chinese","Employed", TRUE
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344,FALSE,"Male","high","Chinese","Employed",TRUE
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346,FALSE,"Female","high","Malay","Not in labor force",FALSE
350,TRUE,"Male","low","Chinese","Not in labor force",FALSE
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351,FALSE,"Male","high","Malay","Employed",FALSE
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423,TRUE,"Male","low","Chinese","Employed",TRUE
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318,TRUE,"Male","low","Chinese","Employed",TRUE
319,TRUE,"Male","low","Chinese","Employed",TRUE
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307,TRUE,"Male","high","Chinese","Employed",TRUE
278,TRUE,"Female","high","Chinese","Employed",TRUE
283,FALSE,"Male","high","Chinese","Employed",TRUE
279,TRUE,"Female","high","Chinese","Employed",TRUE
329,FALSE,"Female","low","Malay","Not in labor force",TRUE
332,FALSE,"Male","high","Other","Employed",TRUE
337,FALSE,"Male","high","Chinese","Not in labor force",TRUE
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333,FALSE,"Female","low","Malay","Employed",TRUE
334,FALSE,"Male","high","Other","Not in labor force",FALSE
282,FALSE,"Male","low","Chinese","Employed",TRUE
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284, FALSE, "Female", "high", "Other", "Employed", FALSE
275, FALSE, "Female","low","Chinese","Employed", FALSE
274,TRUE,"Female","low","Chinese","Not in labor force", FALSE
331,FALSE, "Female","high","Chinese", "Employed", TRUE
330,FALSE, "Female","high","Indian", "Employed", TRUE
281, FALSE, "Female","high","Chinese", "Employed", TRUE
280, FALSE, "Female","high","Chinese", "Not in labor force", FALSE
277, FALSE, "Female","high","Chinese","Employed", FALSE
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492,FALSE,"Male","low","Chinese","Not in labor force", FALSE
497,TRUE,"Female","low","Chinese", "Not in labor force", TRUE
491, FALSE, "Male", "high", "Chinese", "Employed", TRUE
495, FALSE, "Male","high","Chinese","Employed", FALSE
96, FALSE, "Male","low","Other","Employed", FALSE
97,TRUE,"Female","low","Chinese","Not in labor force",TRUE
98,FALSE,"Female","low","Chinese","Not in labor force", TRUE
99, FALSE,"Male","high","Chinese","Not in labor force", FALSE
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445, FALSE, "Male","high", "Chinese", "Employed", FALSE
478,TRUE,"Female","low","Chinese","Not in labor force",TRUE
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460,FALSE,"Male","low","Chinese","Employed", FALSE
263,TRUE,"Female","low","Chinese","Not in labor force",TRUE
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264,TRUE,"Female","low","Indian","Not in labor force", TRUE
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285, FALSE, "Male", "low","Chinese", "Employed", TRUE
296, FALSE, "Male", "low", "Chinese", "Employed", TRUE
293, TRUE, "Male","high","Chinese","Employed", TRUE
286, FALSE, "Female","low", "Chinese", "Employed", FALSE
394,TRUE,"Male","low","Chinese","Not in labor force", FALSE
396,TRUE,"Female", "low","Chinese", "Not in labor force", FALSE
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294,FALSE,"Male","high","Chinese", "Employed", TRUE
432,TRUE,"Female","low","Chinese","Not in labor force",TRUE
393, TRUE,"Female","high","Chinese","Employed", TRUE
500,FALSE,"Female","low","Chinese", "Not in labor force", TRUE
429,TRUE, "Male", "low", "Malay", "Employed", TRUE

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400, TRUE, "Female", "high", "Chinese", "Employed", FALSE
430, FALSE, "Male", "low", "Chinese", "Unemployed", FALSE
499,TRUE,"Male","low","Chinese","Not in labor force",FALSE
402, FALSE, "Male","high", "Chinese", "Employed", FALSE
431,FALSE, "Male", "high","Indian", "Employed", TRUE
399,TRUE,"Male","high","Chinese","Not in labor force", FALSE
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25,TRUE,"Female","low","Chinese","Not in labor force", TRUE
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24, FALSE, "Female", "high","Other", "Employed", TRUE
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124,FALSE, "Male","low", "Other","Unemployed", TRUE
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374,FALSE,"Female","high","Chinese", "Not in labor force", FALSE
372,TRUE,"Female","high","Chinese","Not in labor force", TRUE
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367,FALSE,"Female","low","Chinese","Not in labor force", TRUE
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67,FALSE,"Male","high","Chinese","Employed", TRUE
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9,TRUE,"Female","low","Malay","Employed", TRUE
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66, FALSE, "Male","high","Chinese","Employed", FALSE
395,TRUE,"Male","low","Chinese","Employed", FALSE
181,FALSE, "Male", "high", "Indian", "Employed", FALSE
177,TRUE,"Male","low","Chinese","Not in labor force",TRUE
397,TRUE,"Female","low", "Chinese", "Employed", TRUE
179, FALSE, "Female","high","Chinese", "Employed", TRUE

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82,FALSE,"Female","high","Chinese","Employed", TRUE
239, FALSE, "Male", "low", "Malay", "Employed", TRUE
83,FALSE, "Male","high","Chinese", "Employed", TRUE
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84,FALSE,"Female","high","Indian","Employed", FALSE
269,TRUE,"Male","low","Chinese","Not in labor force",TRUE
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87,FALSE, "Female", "high","Chinese","Employed", TRUE
238, TRUE,"Female", "low", "Chinese","Employed", TRUE
88,FALSE, "Female", "high","Indian", "Employed", FALSE
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109, FALSE, "Female","high","Indian", "Employed", TRUE
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433, FALSE, "Female","high","Indian", "Employed", TRUE
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434,TRUE,"Male", "low", "Chinese", "Unemployed", FALSE
425,TRUE,"Female","low","Chinese", "Not in labor force", TRUE
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91,TRUE,"Female","low","Chinese","Not in labor force", TRUE
92,TRUE,"Female","low","Chinese","Not in labor force",TRUE
93,FALSE,"Male","high","Chinese","Not in labor force", FALSE
94,TRUE,"Female","low","Chinese","Not in labor force",TRUE
"CaseNo","Quarantine.A","Isolation.A", "NoMassGatherings.A", "TempScreening.A", "Tax.A","Infections.A","Deaths.A", "Quarantine.B","Isolation.B","NoMassGatheri ngs.B","TempScreening.B","Tax.B","Infections.B","Deaths.B","Choice" 166,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" $166,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o$ A" $166,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ B" 166,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario A" 166,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B" $166,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" 166,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" $166,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o ~ A "$ $166,1,2,1,1,2,4,5,2,1,3,3,4,2,4, "$ Scenario B" 166,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" $162,1,2,2,2,4,3,2,1,1,1,3,3,4,3, "$ Scenario A" $162,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o ~ A "$ $162,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o ~ A "$ $162,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o ~ A "$ 162,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario A" $162,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o$ A" 162,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" $162,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ B" 162,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario A" 162,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $163,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o \mathrm{~A} "$ 163,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario A" 163,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario B" $163,1,2,3,3,1,4,3,2,1,1,1,2,1,4, " S c e n a r i o$ A" 163,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario A" 163,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 163, 1, 2, 1, 2, 1, 3, 4, 2, 1, 3, 3, 3, 5, 1, "Scenario A" $163,2,2,3,2,1,1,5,1,1,2,3,4,2,2, "$ Scenario B" $163,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ B "$ 163,2,2,1,1,3,3,4,1,1,2,3,1,3,5,"Scenario B" 153,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario B" 153, 1, 2, 3, 2, 1, 1, 4, 2, 1, 2, 3, 4, 5, 3, "Scenario B" 153, 2, 2, 1, 2, 3, 4, 2, 1, 1, 3, 1, 1, 4, 5, "Scenario A" 153, 1, 2, 1, 1, 3, 2, 1, 2, 1, 1, 2, 4, 3, 1, "Scenario A" 153,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" 153,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario A" 153, 2, 1, 1, 3, 1, 2, 1, 1, 2, 3, 2, 4, 3, 4, "Scenario A" 153,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" 153, 1, 1, 2, 2, 3, 3, 3, 2, 2, 3, 1, 2, 4, 5, "Scenario B" $153,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o ~ A "$ 159, 2, 1, 2, 2, 3, 2, 1, 1, 2, 3, 2, 1,5, 4, "Scenario A" 159,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" 159, 2, 2, 1, 1, 2, 4, 5, 1, 2, 2, 2, 3, 1, 1,"Scenario A" 159,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario B" 159, 2, 1, 2, 1, 4, 2, 3, 1, 1, 3, 3, 1, 5, 3, "Scenario A" 159, 2, 2, 3, 1, 1, 1, 1, 1, 1, 1, 3, 3, 3, 4, "Scenario A" 159, 1, 2, 1, 2, 3, 2, 4, 2, 1, 2, 2, 2, 5, 3, "Scenario B" 159,2,2,3,3,4,3,5,2,1,2,1,3,5,2,"Scenario B" 159,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario A" 159,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" $184,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o$ A" $184,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ A" 184,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario A" 184,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A"

184, 1, 1, 3, 2, 2, 2, 3, 2, 2, 3, 3, 1, 2, 4, "Scenario A" $184,2,1,1,1,4,1,2,1,2,3,2,2,5,3, "$ Scenario A" 184,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" $184,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ A" 184,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario A" $184,1,1,3,1,1,1,2,2,2,3,3,2,4,1, " S c e n a r i o$ A" 185,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 185, 1, 1, 2, 1, 2, 2, 3, 2, 2, 3, 2, 4, 1, 2, "Scenario A" 185,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario B" 185, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario A" $185,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o$ A" $185,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ A" $185,1,2,1,2,1,3,4,2,1,3,3,3,5,1, "$ Scenario B" $185,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ A" 185,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario B" $185,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o ~ A "$ $156,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o$ A" 156,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" $156,2,2,1,2,3,4,2,1,1,3,1,1,4,5, "$ Scenario A" 156, 1, 2, 1, 1, 3, 2, 1, 2, 1, 1, 2, 4, 3, 1,"Scenario A" 156,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 156,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" $156,2,1,1,3,1,2,1,1,2,3,2,4,3,4, "$ Scenario A" 156,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" 156, 1, 1, 2, 2, 3, 3, 3, 2, 2, 3, 1, 2, 4, 5, "Scenario A" $156,1,2,2,3,1,5,4,2,1,3,2,4,2,5$, Scenario A" 155,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario B" 155,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" 155,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario A" 155, 1, 1, 3, 3, 1, 4, 1, 2, 2, 1, 2, 4, 3, 2, "Scenario A" 155,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B" $155,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o ~ A "$ 155,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" 155, 2, 2, 3, 3, 4, 3, 5, 2, 1, 2, 1, 3, 5, 2, "Scenario B" 155, 1, 2, 1, 1, 2, 4, 5, 2, 1, 3, 3, 4, 2, 4, "Scenario A" 155,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" $158,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o ~ A "$ $158,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ A" 158, 1, 1, 1, 3, 1, 4,5,2,2,2,2,2,3,5,"Scenario A" $158,2,1,2,2,1,4,1,1,2,2,1,3,1,2, "$ Scenario B" 158, 1, 1, 3, 2, 2, 2, 3, 2, 2, 3, 3, 1, 2, 4, "Scenario A" $158,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o ~ A "$ 158, 2, 1, 1, 2, 1, 4, 4, 1, 2, 3, 1, 3, 3,5,"Scenario B" $158,2,2,2,3,3,5,4,1,2,2,3,4,4,1, "$ Scenario A" 158, 1, 1, 2, 1, 4, 3,5,2,1,1,2,3,5,1,"Scenario B" 158, 1, 1, 3, 1, 1, 1, 2, 2, 2, 3, 3, 2, 4, 1, "Scenario A" 161,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario B" $161,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o ~ A "$ $161,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario B" 161,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario B" 161,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario A" 161,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario A" 161,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario A" $161,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ B" 161,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario B" 161,2,2,1,1,3,3,4,1,1,2,3,1,3,5,"Scenario B" 164,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario B"


164,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" 164,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario B" 164,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 164,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" 164,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" $164,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o$ A" 164,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" 164,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario B" 164,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario A" $165,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o$ A" $165,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o ~ A "$ 165,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 165,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario A" 165,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario A" $165,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o ~ A "$ $165,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o ~ B "$ $165,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o ~ B "$ 165,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 165,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" 157, 1, 2, 2, 2, 4, 3, 2, 1, 1, 1, 3, 3, 4, 3, "Scenario A" 157, 2, 1, 3, 1, 2, 5, 4, 1, 2, 1, 3, 4, 2, 1, "Scenario A" 157,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 157,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario B" 157,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" 157,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" 157,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" 157, 2, 2, 2, 3, 3, 5, 4, 1, 2, 2, 3, 4, 4, 1, "Scenario A" 157,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 157,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario A" 183,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario B" 183,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $183,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o ~ A "$ 183, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario A" 183, 1, 1, 2, 1, 4, 5, 5, 2, 2, 1, 2, 3, 4, 1,"Scenario A" 183,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 183,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario A" 183,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario B" 183,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A" $183,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario B" $198,1,1,3,3,3,1,2,1,2,2,3,2,2,5, "$ Scenario A" 198, 1, 2, 3, 2, 1, 1, 4, 2, 1, 2, 3, 4, 5, 3, "Scenario A" $198,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ A" $198,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ A" $198,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o ~ A "$ 198,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 198,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario B" 198, 1, 1, 3, 3, 1, 5, 2, 2, 2, 2, 1, 3, 1, 3, "Scenario A" 198, 1, 1, 2, 2, 3, 3, 3, 2, 2, 3, 1, 2, 4, 5,"Scenario A" $198,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" 196,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario B" 196,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" 196,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 196,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario B" $196,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ B" $196,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" 196, 1, 2, 1, 2, 3, 2, 4, 2, 1, 2, 2, 2, 5, 3, "Scenario A" $196,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o$ A"
$196,1,2,1,1,2,4,5,2,1,3,3,4,2,4, "$ Scenario B" 196,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" 197,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario B" 197,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 197,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario A" 197,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 197,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario A" 197,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" 197,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B" 197,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B" 197,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 197,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 199,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 199, 1, 1, 2, 1, 2, 2, 3, 2, 2, 3, 2, 4, 1, 2, "Scenario A" 199,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario B" 199,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario B" 199, 1, 1, 2, 1, 4, 5, 5, 2, 2, 1, 2, 3, 4, 1, "Scenario A" 199,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario A" 199,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario A" 199, 2, 2, 3, 2, 1, 1, 5, 1, 1, 2, 3, 4, 2, 2, "Scenario A" 199,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A" 199,2,2,1,1,3,3,4,1,1,2,3,1,3,5,"Scenario A" $420,1,1,3,3,3,1,2,1,2,2,3,2,2,5, "$ Scenario A" $420,1,2,3,2,1,1,4,2,1,2,3,4,5,3, "$ Scenario B" $420,2,2,1,2,3,4,2,1,1,3,1,1,4,5, "$ Scenario B" 420, 1, 2, 1, 1, 3, 2, 1, 2, 1, 1, 2, 4, 3, 1, "Scenario A" $420,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o ~ A "$ $420,2,1,2,1,2,1,4,1,1,1,3,2,5,2, "$ Scenario A" $420,2,1,1,3,1,2,1,1,2,3,2,4,3,4, "$ Scenario A" 420,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" $420,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o ~ B "$ $420,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o ~ A "$ $194,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o ~ B "$ 194,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" 194,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 194, 1, 1, 3, 3, 1, 4, 1, 2, 2, 1, 2, 4, 3, 2, "Scenario A" 194,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B" 194,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario A" 194,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario A" $194,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o ~ A "$ 194,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario A" 194,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" $192,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o$ A" 192,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario A" 192,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario A" 192,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 192,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario A" 192,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" 192,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B" $192,2,2,2,3,3,5,4,1,2,2,3,4,4,1, "$ Scenario B" 192,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario A" 192,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario A" 195,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 195,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario A" $195,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ A" 195,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario B" 195,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario A"

195,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario A" 195,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" 195,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario B" 195,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A" 195, 2, 2, 1, 1, 3, 3, 4, 1, 1, 2, 3, 1, 3,5,"Scenario A" $200,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o$ B" 200,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" 200,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario B" 200,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 200,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 200,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario A" 200, 2, 1, 1, 3, 1, 2, 1, 1, 2, 3, 2, 4, 3, 4, "Scenario A" 200,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" 200, 1, 1, 2, 2, 3, 3, 3, 2, 2, 3, 1, 2, 4, 5, "Scenario A" 200,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario B" $421,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o ~ A "$ $421,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o B^{\prime \prime}$ $421,2,2,1,1,2,4,5,1,2,2,2,3,1,1, "$ Scenario B" $421,1,1,3,3,1,4,1,2,2,1,2,4,3,2, "$ Scenario A" $421,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ A" $421,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o ~ A "$ $421,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o ~ A "$ $421,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o$ B" $421,1,2,1,1,2,4,5,2,1,3,3,4,2,4, "$ Scenario A" 421,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" 435,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario B" $435,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ A" $435,1,1,1,3,1,4,5,2,2,2,2,2,3,5$, Scenario A" $435,2,1,2,2,1,4,1,1,2,2,1,3,1,2, "$ Scenario B" 435,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" $435,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o ~ A "$ $435,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o$ A" $435,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ A" $435,1,1,2,1,4,3,5,2,1,1,2,3,5,1, " S c e n a r i o$ A" 435,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario A" $436,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" $436,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o$ B" $436,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ B" $436,1,2,3,3,1,4,3,2,1,1,1,2,1,4, "$ Scenario A" $436,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o$ B" $436,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ A" 436,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario A" $436,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ A" $436,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o$ B" $436,2,2,1,1,3,3,4,1,1,2,3,1,3,5$, Scenario A" 419,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A" $419,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ A" 419,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario B" 419,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A" 419,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" 419,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 419,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario B" 419,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" $419,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o$ A" 419,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario B" $463,2,1,2,2,3,2,1,1,2,3,2,1,5,4, "$ Scenario A" $463,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o$ A"
$463,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ B" 463,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario A" $463,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ A" $463,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" $463,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o ~ B "$ $463,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o ~ A "$ 463,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario A" 463,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" 316,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario B" $316,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ B" $316,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o ~ A "$ 316,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario B" $316,1,1,3,2,2,2,3,2,2,3,3,1,2,4, "$ Scenario A" 316,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario A" 316,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" $316,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ B" $316,1,1,2,1,4,3,5,2,1,1,2,3,5,1, " S c e n a r i o$ A" 316,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 273,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 273,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $273,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario B" 273,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 273,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 273,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario A" 273,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" 273,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario B" $273,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o A "$ 273,2,2,1,1,3,3,4,1,1,2,3,1,3,5,"Scenario A" 207,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A" 207,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" 207,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario A" 207,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 207,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" 207,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 207,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario B" 207,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" 207,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario A" 207,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario B" $270,2,1,2,2,3,2,1,1,2,3,2,1,5,4, "$ Scenario B" $270,1,2,2,3,2,1,5,2,1,1,1,4,3,3, "$ Scenario A" 270,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" $270,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o ~ A "$ $270,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ B" 270,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario B" 270,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" $270,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o$ A" 270,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" $270,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o ~ A "$ $272,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o$ A" $272,2,1,3,1,2,5,4,1,2,1,3,4,2,1, "$ Scenario A" 272,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 272,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario B" 272,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" $272,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o$ B" $272,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o B^{\prime}$ $272,2,2,2,3,3,5,4,1,2,2,3,4,4,1, "$ Scenario B" 272,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B"


272,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 289,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 289,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario A" 289,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario B" 289,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 289,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 289,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario A" 289,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario A" 289,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario A" 289, 2, 2, 3, 1, 2, 4, 2, 1, 1, 1, 2, 2, 2, 5, "Scenario A" 289,2,2,1,1,3,3,4,1,1,2,3,1,3,5,"Scenario B" 243, 1, 1, 3, 3, 3, 1, 2, 1, 2, 2, 3, 2, 2, 5, "Scenario A" 243,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" 243, 2, 2, 1, 2, 3, 4, 2, 1, 1, 3, 1, 1, 4, 5, "Scenario A" 243,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A" 243,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" $243,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ B" 243,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario B" 243,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" 243,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario B" $243,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" $242,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o ~ A "$ 242,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" 242,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" $242,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o ~ A "$ $242,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ B" $242,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" 242,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" $242,2,2,3,3,4,3,5,2,1,2,1,3,5,2, "$ Scenario A" 242,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario A" $242,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o ~ A "$ 363,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 363,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 363,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 363,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 363,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" 363,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" 363,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" 363,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario A" 363,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 363,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 360,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 360,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $360,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario A" 360,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 360,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 360,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 360,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $360,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ A" 360,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A" 360,2,2,1,1,3,3,4,1,1,2,3,1,3,5,"Scenario A" 361,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A" 361,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" $361,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ A" $361,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ A" 361,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 361,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B"

361,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 361,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" $361,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o$ A" $361,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" 201,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" 201, 1, 2, 2, 3, 2, 1,5,2,1,1,1,4,3,3,"Scenario B" 201,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 201, 1, 1, 3, 3, 1, 4, 1, 2, 2, 1, 2, 4, 3, 2, "Scenario A" 201,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B" 201,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario A" 201,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" 201,2,2,3,3,4,3,5,2,1,2,1,3,5,2,"Scenario B" 201,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 201,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" 202,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 202,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 202,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 202,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 202, 1, 1, 3, 2, 2, 2, 3, 2, 2, 3, 3, 1, 2, 4, "Scenario A" 202,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario A" $202,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o$ A" 202,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B" 202,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 202,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 214,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 214,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" 214,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario A" 214,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 214, 1, 1, 2, 1, 4, 5,5,2,2,1,2,3, 4, 1,"Scenario B" $214,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ A" $214,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o ~ B "$ $214,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ B" $214,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o$ A" 214,2,2,1,1,3,3,4,1,1,2,3,1,3,5,"Scenario B" 208, 1, 1, 3, 3, 3, 1, 2, 1, 2, 2, 3, 2, 2, 5, "Scenario B" 208,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" 208, 2, 2, 1, 2, 3, 4, 2, 1, 1, 3, 1, 1, 4,5,"Scenario A" 208,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 208,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 208, 2, 1, 2, 1, 2, 1, 4, 1, 1, 1, 3, 2, 5, 2, "Scenario A" 208,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario B" 208, 1, 1, 3, 3, 1, 5, 2, 2, 2, 2, 1, 3, 1, 3, "Scenario A" 208,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario B" $208,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o ~ A "$ $216,2,1,2,2,3,2,1,1,2,3,2,1,5,4, "$ Scenario A" 216,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" 216,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario A" $216,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o$ A" $216,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ A" $216,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" 216,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario A" $216,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o$ A" $216,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o$ A" $216,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o$ A" 205,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 205,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 205, 1, 1, 1, 3, 1, 4, 5, 2, 2, 2, 2, 2, 3,5,"Scenario A"


205,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 205, 1, 1, 3, 2, 2, 2, 3, 2, 2, 3, 3, 1, 2, 4, "Scenario A" 205,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario A" 205,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" 205,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B" 205,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 205,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 212,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 212,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $212,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ A" $212,1,2,3,3,1,4,3,2,1,1,1,2,1,4, "$ Scenario A" $212,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o$ B" $212,2,1,2,3,1,1,3,1,2,2,1,2,3,1, "$ Scenario A" 212,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $212,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o ~ A "$ $212,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ $212,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ B" 206,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A" 206,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" 206, 2, 2, 1, 2, 3, 4, 2, 1, 1, 3, 1, 1, 4, 5, "Scenario A" 206,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 206,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 206,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 206,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 206,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" 206,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario A" $206,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" $215,2,1,2,2,3,2,1,1,2,3,2,1,5,4, "$ Scenario B" 215,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" $215,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ A" $215,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o ~ A "$ $215,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o ~ A "$ $215,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" 215,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario A" $215,2,2,3,3,4,3,5,2,1,2,1,3,5,2, "$ Scenario A" 215,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 215,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" 217,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario B" 217,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 217,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 217,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario B" 217,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" 217,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" 217,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B" 217,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B" 217,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario A" 217,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $148,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o ~ A "$ 148, 1, 1, 2, 1, 2, 2, 3, 2, 2, 3, 2, 4, 1, 2, "Scenario B" $148,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario A" 148, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario A" 148,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" $148,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o ~ A "$ $148,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o$ A" $148,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o ~ A "$ 148,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario B" $148,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ B"

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141,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A"
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211,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario A"
211,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario A"
211,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario A"
211,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B"
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151,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" $151,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o$ B" $211,2,1,2,2,3,2,1,1,2,3,2,1,5,4, "$ Scenario A" 211,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" 211,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 211,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario A" $211,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" 211,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B"

$211,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o B "$ 211,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 211,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" 362,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario B" $362,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ B" $362,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o ~ A "$ $362,2,1,2,2,1,4,1,1,2,2,1,3,1,2, "$ Scenario A" 362,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" 362,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" 362,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" 362,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario A" 362,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 362,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 359,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 359,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" 359,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario B" 359,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 359,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 359,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 359,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" 359,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario B" 359,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A" 359,2,2,1,1,3,3,4,1,1,2,3,1,3,5,"Scenario A" 143,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A" 143,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" $143,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ A" 143,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A" 143,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" 143,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 143,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario B" 143,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" $143,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o ~ A "$ $143,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o ~ A "$ 144,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" 144,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" 144, 2, 2, 1, 1, 2, 4,5,1,2,2,2,3,1,1,"Scenario A" $144,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o ~ A "$ 144,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario A" 144,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario A" 144, 1, 2, 1, 2, 3, 2, 4, 2, 1, 2, 2, 2, 5, 3, "Scenario A" $144,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o$ A" 144,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 144,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" 150,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario B" $150,2,1,3,1,2,5,4,1,2,1,3,4,2,1, "$ Scenario A" 150, 1, 1, 1, 3, 1, 4, 5, 2, 2, 2, 2, 2, 3, 5, "Scenario A" 150,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 150,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" 150, 2, 1, 1, 1, 4, 1, 2, 1, 2, 3, 2, 2, 5, 3, "Scenario A" 150,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B" $150,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ A" 150,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 150,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $142,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" 142,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $142,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario B" $142,1,2,3,3,1,4,3,2,1,1,1,2,1,4, " S c e n a r i o$ A"

142,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 142,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario A" 142,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" 142,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario B" $142,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ B "$ $142,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ B" 145,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario B" 145,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" 145,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario A" 145,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A" $145,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o ~ B "$ 145,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 145,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 145,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" 145,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario A" $145,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" 149, 2, 1, 2, 2, 3, 2, 1, 1, 2, 3, 2, 1,5, 4, "Scenario B" 149, 1, 2, 2, 3, 2, 1, 5, 2, 1, 1, 1, 4, 3, 3, "Scenario A" 149,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 149,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario B" 149,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B" $149,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o ~ A "$ 149, 1, 2, 1, 2, 3, 2, 4, 2, 1, 2, 2, 2, 5, 3, "Scenario A" 149,2,2,3,3,4,3,5,2,1,2,1,3,5,2,"Scenario B" 149,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 149,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" 209,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 209,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 209,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario A" 209,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 209,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" 209,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" 209, 2, 1, 1, 2, 1, 4, 4, 1, 2, 3, 1, 3, 3, 5, "Scenario A" 209,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B" 209,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 209,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $213,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o ~ A "$ 213,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario A" $213,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario A" 213,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 213,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 213,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 213,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $213,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ B" 213,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A" $213,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ A" $210,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o ~ A "$ $210,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o ~ A "$ $210,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ A" 210, 1, 2, 1, 1, 3, 2, 1, 2, 1, 1, 2, 4, 3, 1, "Scenario A" 210,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 210, 2, 1, 2, 1, 2, 1, 4, 1, 1, 1, 3, 2, 5, 2,"Scenario A" 210,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" $210,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o$ B" $210,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o ~ A "$ 210, 1, 2, 2, 3, 1, 5, 4, 2, 1, 3, 2, 4, 2, 5, "Scenario B" 204, 2, 1, 2, 2, 3, 2, 1, 1, 2, 3, 2, 1, 5, 4, "Scenario A"


204,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" 204,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario A" 204, 1, 1, 3, 3, 1, 4, 1, 2, 2, 1, 2, 4, 3, 2, "Scenario A" 204, 2, 1, 2, 1, 4, 2, 3, 1, 1, 3, 3, 1, 5, 3, "Scenario A" 204,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario B" 204,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario A" 204, 2, 2, 3, 3, 4, 3, 5, 2, 1, 2, 1, 3,5,2,"Scenario A" 204,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario A" 204,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" 203,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 203,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 203,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 203,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 203,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario A" 203,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario A" 203,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" 203,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B" 203,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 203,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 20,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 20,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $20,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o ~ B "$ $20,1,2,3,3,1,4,3,2,1,1,1,2,1,4, " S c e n a r i o$ A" $20,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o$ B" 20,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 20,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $20,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o ~ B "$ $20,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ $20,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario A" 175,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A" $175,1,2,3,2,1,1,4,2,1,2,3,4,5,3, "$ Scenario B" $175,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o ~ A "$ 175,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 175,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 175,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 175,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 175,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" $175,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o$ A" $175,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" $17,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o$ A" 17,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" 17,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" $17,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o$ A" $17,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ A" 17, 2, 2, 3, 1, 1, 1, 1, 1, 1, 1, 3, 3, 3, 4, "Scenario A" $17,1,2,1,2,3,2,4,2,1,2,2,2,5,3, "$ Scenario A" 17,2,2,3,3,4,3,5,2,1,2,1,3,5,2,"Scenario B" $17,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o$ B" $17,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o ~ A "$ $16,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o$ A" $16,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ B" 16,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" $16,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o$ A" $16,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o$ A" $16,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o ~ A "$ $16,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o$ A" $16,2,2,2,3,3,5,4,1,2,2,3,4,4,1, "$ Scenario B"

16,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" $16,1,1,3,1,1,1,2,2,2,3,3,2,4,1, " S c e n a r i o$ B" 14, 2, 1, 2, 3, 1, 3, 1, 1, 2, 1, 1, 1, 2, 2, "Scenario A" 14,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $14,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ B" $14,1,2,3,3,1,4,3,2,1,1,1,2,1,4, " S c e n a r i o \mathrm{~A} "$ 14, 1, 1, 2, 1, 4,5,5,2,2,1,2,3,4,1,"Scenario B" $14,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ B" 14, 1, 2, 1, 2, 1, 3, 4, 2, 1, 3, 3, 3, 5, 1,"Scenario B" $14,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o ~ B "$ $14,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ $14,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ A" $18,1,1,3,3,3,1,2,1,2,2,3,2,2,5$, Scenario B" $18,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ A" $18,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ B" $18,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ B" $18,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o A "$ $18,2,1,2,1,2,1,4,1,1,1,3,2,5,2$, "Scenario A" $18,2,1,1,3,1,2,1,1,2,3,2,4,3,4, "$ Scenario B" 18, 1, 1, 3, 3, 1, 5, 2, 2, 2, 2, 1, 3, 1, 3, "Scenario B" $18,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o ~ B "$ $18,1,2,2,3,1,5,4,2,1,3,2,4,2,5, "$ Scenario B" $15,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o$ A" $15,1,2,2,3,2,1,5,2,1,1,1,4,3,3$, Scenario B" $15,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ B" $15,1,1,3,3,1,4,1,2,2,1,2,4,3,2$, "Scenario A" $15,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o ~ A "$ $15,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" $15,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o ~ B "$ $15,2,2,3,3,4,3,5,2,1,2,1,3,5,2$, "Scenario $\mathrm{B}^{\prime \prime}$ $15,1,2,1,1,2,4,5,2,1,3,3,4,2,4, "$ Scenario B" $15,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o ~ A "$ $176,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o ~ A "$ 176,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 176,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 176,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" $176,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o ~ A "$ $176,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o ~ A "$ $176,2,1,1,2,1,4,4,1,2,3,1,3,3,5, "$ Scenario A" $176,2,2,2,3,3,5,4,1,2,2,3,4,4,1, "$ Scenario B" 176,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 176,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $172,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" 172,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $172,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario B" 172, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario A" 172,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" $172,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o ~ B "$ $172,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o$ B" $172,2,2,3,2,1,1,5,1,1,2,3,4,2,2, "$ Scenario B" $172,2,2,3,1,2,4,2,1,1,1,2,2,2,5, "$ Scenario A" $172,2,2,1,1,3,3,4,1,1,2,3,1,3,5$, Scenario A" $173,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o ~ A "$ $173,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ B" 173,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario A" 173,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A" 173,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B"


173,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 173,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 173, 1, 1, 3, 3, 1, 5, 2, 2, 2, 2, 1, 3, 1, 3, "Scenario A" $173,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o$ A" 173,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario A" 171,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" 171,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" 171,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 171,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario A" $171,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ A" $171,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" 171,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" $171,2,2,3,3,4,3,5,2,1,2,1,3,5,2, "$ Scenario B" 171,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 171,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" $174,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o$ A" 174,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 174,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 174,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 174, 1, 1, 3, 2, 2, 2, 3, 2, 2, 3, 3, 1, 2, 4, "Scenario A" $174,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o ~ A "$ $174,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o ~ A "$ $174,2,2,2,3,3,5,4,1,2,2,3,4,4,1, "$ Scenario B" 174,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 174,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 19,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" $19,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o ~ B "$ $19,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario B" 19, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario A" 19,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 19,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 19,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" 19,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario B" 19,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A" 19, 2, 2, 1, 1, 3, 3, 4, 1, 1, 2, 3, 1, 3, 5, "Scenario A" 170, 1, 1, 3, 3, 3, 1, 2, 1, 2, 2, 3, 2, 2, 5, "Scenario A" 170,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" $170,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ A" 170, 1, 2, 1, 1, 3, 2, 1, 2, 1, 1, 2, 4, 3, 1, "Scenario A" 170,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 170,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 170,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 170,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" $170,1,1,2,2,3,3,3,2,2,3,1,2,4,5, "$ Scenario A" $170,1,2,2,3,1,5,4,2,1,3,2,4,2,5$, Scenario A" 178,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario B" 178, 1, 2, 2, 3, 2, 1,5,2,1,1,1,4,3,3,"Scenario B" 178,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 178, 1, 1, 3, 3, 1, 4, 1, 2, 2, 1, 2, 4, 3, 2, "Scenario B" $178,2,1,2,1,4,2,3,1,1,3,3,1,5,3, "$ Scenario B" $178,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" 178, 1, 2, 1, 2, 3, 2, 4, 2, 1, 2, 2, 2, 5, 3, "Scenario A" $178,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o$ A" $178,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o$ A" 178,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" $468,1,2,2,2,4,3,2,1,1,1,3,3,4,3, "$ Scenario B" $468,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ A"
$468,1,1,1,3,1,4,5,2,2,2,2,2,3,5, "$ Scenario A" $468,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o$ A" $468,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o ~ A "$ 468,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" $468,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o ~ A "$ $468,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ B" 468, 1, 1, 2, 1, 4, 3, 5, 2, 1, 1, 2, 3, 5, 1,"Scenario B" $468,1,1,3,1,1,1,2,2,2,3,3,2,4,1, "$ Scenario B" 251,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 251,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" 251,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario A" $251,1,2,3,3,1,4,3,2,1,1,1,2,1,4, " S c e n a r i o$ A" 251, 1, 1, 2, 1, 4, 5, 5, 2, 2, 1, 2, 3, 4, 1,"Scenario A" 251,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario A" $251,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o$ B" $251,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o ~ A "$ $251,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ $251,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario B" 258, 1, 1, 3, 3, 3, 1, 2, 1, 2, 2, 3, 2, 2, 5, "Scenario B" $258,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ A" $258,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ A" $258,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ B" 258, 1, 2, 2, 2, 2, 3, 2, 2, 2, 3, 1, 4, 5, 1, "Scenario A" 258,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" $258,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o$ A" 258, 1, 1, 3, 3, 1, 5, 2, 2, 2, 2, 1, 3, 1, 3, "Scenario A" $258,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o$ A" $258,1,2,2,3,1,5,4,2,1,3,2,4,2,5$, Scenario A" $246,2,1,2,2,3,2,1,1,2,3,2,1,5,4, "$ Scenario A" 246,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" $246,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o ~ B "$ $246,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o ~ A "$ $246,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ B" $246,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" 246,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" $246,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o$ A" 246,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" $246,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o$ A" 475,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario B" $475,2,1,3,1,2,5,4,1,2,1,3,4,2,1, "$ Scenario A" 475,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" $475,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o ~ A "$ $475,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o$ B" $475,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o ~ A "$ 475,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B" $475,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ B" $475,1,1,2,1,4,3,5,2,1,1,2,3,5,1, " S c e n a r i o$ A" 475,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 439,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario B" 439, 1, 1, 2, 1, 2, 2, 3, 2, 2, 3, 2, 4, 1, 2, "Scenario A" 439,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario B" 439,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario B" 439, 1, 1, 2, 1, 4, 5, 5, 2, 2, 1, 2, 3, 4, 1,"Scenario A" $439,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ A" 439, 1, 2, 1, 2, 1, 3, 4, 2, 1, 3, 3, 3, 5, 1, "Scenario A" $439,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ A" $439,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$


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465,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario B"
465,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A"
465,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario B"
465,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario A"
471,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario B"
471,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B"
471,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B"
471,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario A"
471,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B"
471,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario A"
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471,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" $471,2,2,3,3,4,3,5,2,1,2,1,3,5,2, "$ Scenario B" 471,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" $471,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o$ A" $252,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o$ B" $252,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ A" 252,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario A" 252,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 252,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" $252,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o$ B" $252,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o ~ A "$ $252,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ A" 252,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 252,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario A" 470,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" $470,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o ~ A "$ $470,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ A" 470,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" $470,1,1,2,1,4,5,5,2,2,1,2,3,4,1, "$ Scenario A" $470,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ A" $470,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o$ B" $470,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o ~ A "$ $470,2,2,3,1,2,4,2,1,1,1,2,2,2,5, "$ Scenario A" $470,2,2,1,1,3,3,4,1,1,2,3,1,3,5$, Scenario A" $474,1,1,3,3,3,1,2,1,2,2,3,2,2,5, "$ Scenario A" $474,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ B" $474,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ B" $474,1,2,1,1,3,2,1,2,1,1,2,4,3,1, "$ Scenario A" $474,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o ~ B "$ $474,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ B" $474,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o ~ A "$ $474,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o ~ A "$ $474,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o$ A" 474, 1, 2, 2, 3, 1, 5, 4, 2, 1, 3, 2, 4, 2,5, "Scenario A" 257,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" 257, 1, 2, 2, 3, 2, 1, 5, 2, 1, 1, 1, 4, 3, 3, "Scenario A" 257,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 257,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario A" 257,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B" 257, 2, 2, 3, 1, 1, 1, 1, 1, 1, 1, 3, 3, 3, 4, "Scenario A" 257,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario A" 257,2,2,3,3,4,3,5,2,1,2,1,3,5,2,"Scenario A" 257,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 257,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" 467,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 467,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 467,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" $467,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o ~ A "$ 467,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" $467,2,1,1,1,4,1,2,1,2,3,2,2,5,3, "$ Scenario B" 467,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" $467,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ B" 467,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" $467,1,1,3,1,1,1,2,2,2,3,3,2,4,1, " S c e n a r i o$ B" $473,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" 473, 1, 1, 2, 1, 2, 2, 3, 2, 2, 3, 2, 4, 1, 2, "Scenario A" $473,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario B"


473, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario A" 473,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 473,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 473,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $473,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ B" $473,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ $473,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ A" $241,1,1,3,3,3,1,2,1,2,2,3,2,2,5, "$ Scenario B" 241,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" $241,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ B" $241,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ B" $241,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o ~ A "$ 241,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 241,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario B" $241,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o ~ A "$ 241,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario B" 241,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario B" 256,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario B" 256,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" $256,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ A" $256,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o ~ A "$ $256,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ A" $256,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" 256,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" 256,2,2,3,3,4,3,5,2,1,2,1,3,5,2,"Scenario B" $256,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o$ A" $256,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o$ A" 250,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 250, 2, 1, 3, 1, 2, 5, 4, 1, 2, 1, 3, 4, 2, 1, "Scenario B" 250, 1, 1, 1, 3, 1, 4, 5, 2, 2, 2, 2, 2, 3, 5, "Scenario A" $250,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o ~ A "$ 250,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario A" $250,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o$ B" 250,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B" 250, 2, 2, 2, 3, 3, 5, 4, 1, 2, 2, 3, 4, 4, 1, "Scenario A" 250,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 250,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 249,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 249,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" 249,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario B" 249,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 249,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 249,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario A" 249,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" 249,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario B" 249,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A" $249,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ A" 469,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario B" 469,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" $469,2,2,1,2,3,4,2,1,1,3,1,1,4,5, "$ Scenario A" 469,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A" 469,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" 469,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" $469,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o$ A" 469,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" 469,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario A" $469,1,2,2,3,1,5,4,2,1,3,2,4,2,5, "$ Scenario A"

253,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario B" 253,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" 253,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 253, 1, 1, 3, 3, 1, 4, 1, 2, 2, 1, 2, 4, 3, 2, "Scenario A" 253,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B" $253,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o B^{\prime}$ 253, 1, 2, 1, 2, 3, 2, 4, 2, 1, 2, 2, 2, 5, 3, "Scenario A" 253,2,2,3,3,4,3,5,2,1,2,1,3,5,2,"Scenario A" 253,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 253, 1, 1, 2, 2, 2, 1, 1, 2, 2, 3, 1, 1, 1, 2, "Scenario A" $466,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o$ A" $466,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o B^{\prime \prime}$ $466,1,1,1,3,1,4,5,2,2,2,2,2,3,5, "$ Scenario B" $466,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o$ A" $466,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o ~ A "$ $466,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o$ B" $466,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o$ A" $466,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ B" 466,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 466,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $224,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o ~ A "$ $224,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o$ B" $224,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o B^{\prime \prime}$ 224,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario B" 224,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 224,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" $224,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o$ B" $224,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o B^{\prime}$ 224,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario B" $224,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario B" $219,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o ~ A "$ 219,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" 219,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario B" 219,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 219,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" 219,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 219,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 219,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" 219,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario B" 219,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario B" $226,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o$ A" $226,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o$ A" $226,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ A" 226,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario B" 226,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B" $226,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" $226,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o ~ B "$ $226,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o ~ B "$ $226,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o$ A" 226,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" $222,1,2,2,2,4,3,2,1,1,1,3,3,4,3, "$ Scenario A" 222,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" $222,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o B^{\prime \prime}$ $222,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o$ A" $222,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o ~ B "$ 222,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" $222,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o$ A"
$222,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o B "$ 222,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 222,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 227,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 227,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $227,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ A" 227,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 227,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 227,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" $227,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o ~ A "$ $227,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ A" 227,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A" $227,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario A" 225,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A" 225,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" $225,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ B" 225,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 225,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" 225,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario A" 225,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 225,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" $225,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o ~ A "$ $225,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" $228,2,1,2,2,3,2,1,1,2,3,2,1,5,4, "$ Scenario A" 228,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" $228,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ B" $228,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o$ A" $228,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o ~ B "$ $228,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" 228, 1, 2, 1, 2, 3, 2, 4, 2, 1, 2, 2, 2, 5, 3, "Scenario B" $228,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o ~ B "$ 228,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 228, 1, 1, 2, 2, 2, 1, 1, 2, 2, 3, 1, 1, 1, 2, "Scenario A" 218, 1, 2, 2, 2, 4, 3, 2, 1, 1, 1, 3, 3, 4, 3, "Scenario A" 218, 2, 1, 3, 1, 2, 5, 4, 1, 2, 1, 3, 4, 2, 1, "Scenario B" 218,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" $218,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o$ B" 218,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" $218,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o$ B" $218,2,1,1,2,1,4,4,1,2,3,1,3,3,5, "$ Scenario A" $218,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ A" 218,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 218,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $232,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" 232,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $232,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ A" $232,1,2,3,3,1,4,3,2,1,1,1,2,1,4, " S c e n a r i o$ A" $232,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o$ B" $232,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ A" 232,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $232,2,2,3,2,1,1,5,1,1,2,3,4,2,2, "$ Scenario A" 232,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario B" $232,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ B" $229,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o$ A" 229,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" 229,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario A" $229,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ A"

229,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 229,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 229,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 229,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" 229,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario A" 229,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario A" 223,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" 223,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" 223,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario A" 223,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario B" $223,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o ~ A "$ 223,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario A" 223,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" 223, 2, 2, 3, 3, 4, 3, 5, 2, 1, 2, 1, 3, 5, 2, "Scenario A" 223,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 223,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" $231,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o ~ A "$ $231,2,1,3,1,2,5,4,1,2,1,3,4,2,1, "$ Scenario B" 231,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario A" 231,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" $231,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o ~ A "$ $231,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o$ B" 231,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B" $231,2,2,2,3,3,5,4,1,2,2,3,4,4,1, "$ Scenario B" 231,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 231,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $220,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" 220,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario A" $220,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario B" 220, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario A" $220,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o ~ B "$ $220,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o ~ A "$ $220,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o$ B" $220,2,2,3,2,1,1,5,1,1,2,3,4,2,2, "$ Scenario A" 220,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A" $220,2,2,1,1,3,3,4,1,1,2,3,1,3,5$, Scenario A" $230,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o$ B" 230,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" $230,2,2,1,2,3,4,2,1,1,3,1,1,4,5, "$ Scenario A" 230, 1, 2, 1, 1, 3, 2, 1, 2, 1, 1, 2, 4, 3, 1,"Scenario B" 230,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" 230,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 230,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario B" $230,1,1,3,3,1,5,2,2,2,2,1,3,1,3, "$ Scenario A" 230,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario B" 230, 1, 2, 2, 3, 1, 5, 4, 2, 1, 3, 2, 4, 2, 5, "Scenario A" 221,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" $221,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o$ B" $221,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o ~ A "$ 221,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario B" $221,2,1,2,1,4,2,3,1,1,3,3,1,5,3, "$ Scenario A" 221,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario B" 221,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" $221,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o ~ A "$ 221,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 221,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" 182,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario B"

182, 2, 1, 3, 1, 2, 5, 4, 1, 2, 1, 3, 4, 2, 1, "Scenario B" 182, 1, 1, 1, 3, 1, 4,5,2,2,2,2,2,3,5,"Scenario A" 182,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" $182,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o$ A" $182,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o ~ A "$ $182,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o$ A" $182,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ A" 182,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 182,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario A" 160,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 160,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" 160,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario B" 160,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 160,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 160,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario A" 160,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario A" $160,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o ~ A "$ $160,2,2,3,1,2,4,2,1,1,1,2,2,2,5$, Scenario A" $160,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario B" 186,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario B" $186,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o ~ A "$ $186,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ A" 186,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A" 186,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" $186,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ A" $186,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o$ B" $186,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o$ B" $186,1,1,2,2,3,3,3,2,2,3,1,2,4,5, "$ Scenario A" $186,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o ~ A "$ 27,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario B" $27,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o$ A" $27,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ B" 27,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario B"
$27,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o B^{\prime \prime}$
$27,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" 27,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario A"
$27,2,2,3,3,4,3,5,2,1,2,1,3,5,2$, "Scenario A"
$27,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o$ B"
27,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B"
$26,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o$ A"
$26,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ A" $26,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o$ A" $26,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o$ A" $26,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o$ A" $26,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o \mathrm{~A} "$ $26,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o$ A" $26,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ A" $26,1,1,2,1,4,3,5,2,1,1,2,3,5,1, " S c e n a r i o ~ A "$ $26,1,1,3,1,1,1,2,2,2,3,3,2,4,1, " S c e n a r i o$ A" $386,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o ~ A "$ 386,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" 386,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario A" 386,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario B" $386,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o$ A" $386,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ A" 386,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario A" $386,2,2,3,2,1,1,5,1,1,2,3,4,2,2, "$ Scenario B"
$386,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o$ A" $386,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario A" 169,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario B" 169,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" 169,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario B" 169,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 169,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 169,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 169,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 169,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" 169,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario A" 169,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario A" 167,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario B" 167,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" 167,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario A" 167,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario A" 167,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B" 167,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario A" 167,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" 167,2,2,3,3,4,3,5,2,1,2,1,3,5,2,"Scenario B" 167,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario A" 167,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" 154, 1, 2, 2, 2, 4, 3, 2, 1, 1, 1, 3, 3, 4, 3, "Scenario A" 154, 2, 1, 3, 1, 2, 5, 4, 1, 2, 1, 3, 4, 2, 1, "Scenario A" 154, 1, 1, 1, 3, 1, 4, 5, 2, 2, 2, 2, 2, 3, 5, "Scenario A" 154,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 154,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" $154,2,1,1,1,4,1,2,1,2,3,2,2,5,3, "$ Scenario A" 154, 2, 1, 1, 2, 1, 4, 4, 1, 2, 3, 1, 3, 3,5, "Scenario A" $154,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o ~ B "$ 154,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario A" 154,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario A" $168,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o ~ A "$ 168,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario A" $168,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario B" 168,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario B" $168,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o ~ A "$ $168,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o ~ A "$ 168,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario A" $168,2,2,3,2,1,1,5,1,1,2,3,4,2,2, "$ Scenario B" 168,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario B" $168,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario B" 193,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A" 193,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" 193,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario B" 193,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 193,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" 193,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario A" 193,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario B" 193,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" 193,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario B" 193,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario A" 187,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" 187,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" 187,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 187,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario B" 187,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B"

187,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario B" 187,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario A" 187, 2, 2, 3, 3, 4, 3, 5, 2, 1, 2, 1, 3, 5, 2, "Scenario A" 187,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario A" 187,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" $188,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o$ A" $188,2,1,3,1,2,5,4,1,2,1,3,4,2,1, "$ Scenario A" $188,1,1,1,3,1,4,5,2,2,2,2,2,3,5, "$ Scenario A" 188,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario B" 188, 1, 1, 3, 2, 2, 2, 3, 2, 2, 3, 3, 1, 2, 4, "Scenario B" $188,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o ~ A "$ $188,2,1,1,2,1,4,4,1,2,3,1,3,3,5, "$ Scenario B" $188,2,2,2,3,3,5,4,1,2,2,3,4,4,1, "$ Scenario A" 188, 1, 1, 2, 1, 4, 3, 5, 2, 1, 1, 2, 3, 5, 1, "Scenario A" $188,1,1,3,1,1,1,2,2,2,3,3,2,4,1, " S c e n a r i o ~ A "$ $315,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o ~ A "$ 315,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $315,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario A" 315,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 315,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" $315,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o ~ A "$ $315,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o$ B" $315,2,2,3,2,1,1,5,1,1,2,3,4,2,2$, "Scenario A" $315,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o$ A" $315,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ A" $314,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o ~ A "$ $314,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o ~ A "$ $314,2,2,1,2,3,4,2,1,1,3,1,1,4,5, "$ Scenario $B^{\prime \prime}$ 314,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" $314,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o A^{\prime}$ $314,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o ~ A "$ $314,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o ~ A "$ $314,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o ~ A "$ 314,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario A" 314,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario B" $472,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o$ A" $472,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o ~ A "$ $472,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ A" $472,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o$ A" $472,2,1,2,1,4,2,3,1,1,3,3,1,5,3, "$ Scenario B" $472,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" $472,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o ~ A "$ $472,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o$ B" 472,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 472,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" 364,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 364,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 364,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 364,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario B" 364,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" 364,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" 364,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B" 364,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario A" 364,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 364,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $340,1,1,2,1,2,2,3,2,2,3,2,4,1,2, "$ Scenario A" $340,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario B"

340,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" $340,1,1,2,1,4,5,5,2,2,1,2,3,4,1, "$ Scenario B" 340,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 340,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $340,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o ~ A "$ $340,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ $340,2,2,1,1,3,3,4,1,1,2,3,1,3,5$, Scenario A" 343,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A" 343,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" 343,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario A" 343,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 343,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 343,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 343,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario B" 343,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" 343,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario B" 343, 1, 2, 2, 3, 1,5,4, 2, 1, 3, 2, 4, 2,5,"Scenario B" $338,2,1,2,2,3,2,1,1,2,3,2,1,5,4, "$ Scenario A" $338,1,2,2,3,2,1,5,2,1,1,1,4,3,3, "$ Scenario A" $338,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o B^{\prime}$ $338,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o ~ A "$ $338,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ B" $338,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" 338,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" 338,2,2,3,3,4,3,5,2,1,2,1,3,5,2,"Scenario B" 338,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" $338,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o$ A" $371,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o ~ A "$ $371,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o ~ A "$ $371,1,1,1,3,1,4,5,2,2,2,2,2,3,5, "$ Scenario B" $371,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o ~ A "$ $371,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o ~ A "$ $371,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o ~ A "$ 371,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B" $371,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ A" 371,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 371,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $375,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" 375,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario A" $375,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario A" 375,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario B" 375,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario A" 375,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario A" 375,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario A" 375,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario A" 375,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A" $375,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ A" $365,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o ~ A "$ 365,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" 365,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario A" 365,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 365,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 365,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario A" 365,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario B" 365,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" 365,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario B" $365,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A"


373,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" 373,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" 373,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 373,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario B" 373,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B" 373,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario B" 373, 1, 2, 1, 2, 3, 2, 4, 2, 1, 2, 2, 2, 5, 3, "Scenario A" 373,2,2,3,3,4,3,5,2,1,2,1,3,5,2,"Scenario B" 373,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 373,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" $366,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o ~ A "$ $366,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ A" 366,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 366,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 366,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" 366,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" $366,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o$ B" $366,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ A" 366,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario A" 366,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $43,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" $43,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o ~ A "$ $43,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario B" $43,1,2,3,3,1,4,3,2,1,1,1,2,1,4$, Scenario A" 43,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" $43,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o ~ B "$ 43,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $43,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ A" $43,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o$ B" $43,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ A" $50,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o$ A" 50, 1, 2, 3, 2, 1, 1, 4, 2, 1, 2, 3, 4, 5, 3,"Scenario B" $50,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ A" 50, 1, 2, 1, 1, 3, 2, 1, 2, 1, 1, 2, 4, 3, 1,"Scenario B" 50, 1, 2, 2, 2, 2, 3, 2, 2, 2, 3, 1, 4, 5, 1,"Scenario B" 50,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" $50,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o$ A" $50,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o$ A" 50, 1, 1, 2, 2, 3, 3, 3, 2, 2, 3, 1, 2, 4, 5, "Scenario A" $50,1,2,2,3,1,5,4,2,1,3,2,4,2,5$, Scenario A" 308,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario B" 308, 1, 2, 2, 3, 2, 1,5,2,1,1,1,4,3,3,"Scenario A" 308,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 308, 1, 1, 3, 3, 1, 4, 1, 2, 2, 1, 2, 4, 3, 2, "Scenario A" 308,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B" 308, 2, 2, 3, 1, 1, 1, 1, 1, 1, 1, 3, 3, 3, 4, "Scenario A" 308, 1, 2, 1, 2, 3, 2, 4, 2, 1, 2, 2, 2,5,3,"Scenario B" 308,2,2,3,3,4,3,5,2,1,2,1,3,5,2,"Scenario B" 308, 1, 2, 1, 1, 2, 4,5,2,1,3,3,4,2,4,"Scenario B" $308,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o A^{\prime}$ 51, 1, 2, 2, 2, 4, 3, 2, 1, 1, 1, 3, 3, 4, 3, "Scenario A" 51, 2, 1, 3, 1, 2, 5, 4, 1, 2, 1, 3, 4, 2, 1,"Scenario A" 51,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" $51,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o$ A" $51,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o ~ A "$ 51, 2, 1, 1, 1, 4, 1, 2, 1, 2, 3, 2, 2, 5, 3, "Scenario A" $51,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o$ A"

51,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B" $51,1,1,2,1,4,3,5,2,1,1,2,3,5,1, " S c e n a r i o$ B" 51,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $48,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" $48,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o ~ B "$ $48,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario B" 48, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario A" 48, 1, 1, 2, 1, 4,5,5,2,2,1,2,3,4,1,"Scenario B" 48,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 48,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $48,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o ~ B "$ $48,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o$ A" $48,2,2,1,1,3,3,4,1,1,2,3,1,3,5$, SScenario A" 49,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario B" 49,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" $49,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ A" 49, 1, 2, 1, 1, 3, 2, 1, 2, 1, 1, 2, 4, 3, 1,"Scenario A" 49,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 49,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 49,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" $49,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o$ A" $49,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o ~ A "$ $49,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" $42,2,1,2,2,3,2,1,1,2,3,2,1,5,4$, SScenario A" $42,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o ~ B "$ $42,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o ~ B "$ $42,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o ~ A "$ $42,2,1,2,1,4,2,3,1,1,3,3,1,5,3, "$ Scenario $B^{\prime \prime}$ $42,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" $42,1,2,1,2,3,2,4,2,1,2,2,2,5,3, "$ Scenario B" $42,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o ~ B "$ $42,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o ~ B "$ $42,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o$ A" $46,1,2,2,2,4,3,2,1,1,1,3,3,4,3, "$ Scenario A" $46,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ A" $46,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o$ B" $46,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o$ A" $46,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o ~ A "$ $46,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o$ A" $46,2,1,1,2,1,4,4,1,2,3,1,3,3,5$, Scenario A" $46,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ B" $46,1,1,2,1,4,3,5,2,1,1,2,3,5,1, " S c e n a r i o$ B" $46,1,1,3,1,1,1,2,2,2,3,3,2,4,1, " S c e n a r i o ~ B "$ $47,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" 47,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" 47,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario B" 47, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario A" 47,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" $47,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o ~ B "$ 47, 1, 2, 1, 2, 1, 3, 4, 2, 1, 3, 3, 3, 5, 1, "Scenario B" 47,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario B" 47, 2, 2, 3, 1, 2, 4, 2, 1, 1, 1, 2, 2, 2, 5, "Scenario A" $47,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ A" $45,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o$ A" $45,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o ~ B "$ 45,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario B" $45,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ A"


45,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" $45,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ A" 45,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario B" $45,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o B^{\prime \prime}$ $45,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o ~ B "$ $45,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" 52, 2, 1, 2, 2, 3, 2, 1, 1, 2, 3, 2, 1, 5, 4, "Scenario A" $52,1,2,2,3,2,1,5,2,1,1,1,4,3,3, "$ Scenario B" 52,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 52, 1, 1, 3, 3, 1, 4, 1, 2, 2, 1, 2, 4, 3, 2, "Scenario A" $52,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ B" $52,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" $52,1,2,1,2,3,2,4,2,1,2,2,2,5,3, "$ Scenario B" $52,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o$ B" 52,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" $52,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o ~ A "$ $40,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o$ A" $40,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ B" $40,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o$ B" $40,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o$ A" $40,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o$ A" $40,2,1,1,1,4,1,2,1,2,3,2,2,5,3$, Scenario A" $40,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o$ A" $40,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ B" $40,1,1,2,1,4,3,5,2,1,1,2,3,5,1, " S c e n a r i o$ B" $40,1,1,3,1,1,1,2,2,2,3,3,2,4,1, " S c e n a r i o ~ B "$ $53,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o ~ A "$ 53, 1, 1, 2, 1, 2, 2, 3, 2, 2, 3, 2, 4, 1, 2,"Scenario B" $53,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ B" 53, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario A" 53,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" $53,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o ~ A "$ 53, 1, 2, 1, 2, 1, 3, 4, 2, 1, 3, 3, 3, 5, 1,"Scenario B" $53,2,2,3,2,1,1,5,1,1,2,3,4,2,2, "$ Scenario B" $53,2,2,3,1,2,4,2,1,1,1,2,2,2,5, "$ Scenario A" 53, 2, 2, 1, 1, 3, 3, 4, 1, 1, 2, 3, 1, 3, 5, "Scenario B" $44,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o ~ B "$ $44,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ A" $44,2,2,1,2,3,4,2,1,1,3,1,1,4,5, "$ Scenario B" $44,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ B" $44,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o$ A" $44,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ B" $44,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o ~ A "$ $44,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o$ A" $44,1,1,2,2,3,3,3,2,2,3,1,2,4,5, "$ Scenario B" $44,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" $41,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o$ A" $41,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o ~ B "$ $41,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o ~ B "$ $41,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o$ A" $41,2,1,2,1,4,2,3,1,1,3,3,1,5,3, "$ Scenario B" $41,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" 41,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" $41,2,2,3,3,4,3,5,2,1,2,1,3,5,2$, "Scenario B" $41,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o ~ B "$ 41,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" $58,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o$ A"

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58, 2, 1, 3, 1, 2, 5, 4, 1, 2, 1, 3, 4, 2, 1, "Scenario B" $58,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o$ B" 58,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario B" 58, 1, 1, 3, 2, 2, 2, 3, 2, 2, 3, 3, 1, 2, 4,"Scenario B" $58,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o ~ B "$ $58,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o$ B" $58,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ A" 58, 1, 1, 2, 1, 4, 3, 5, 2, 1, 1, 2, 3, 5, 1, "Scenario A" 58,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $12,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" $12,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o ~ A "$ $12,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ A" $12,1,2,3,3,1,4,3,2,1,1,1,2,1,4, " S c e n a r i o$ A" 12,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" $12,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o ~ A "$ $12,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o$ A" $12,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o ~ A "$ $12,2,2,3,1,2,4,2,1,1,1,2,2,2,5, "$ Scenario B" $12,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ B" 54, 1, 1, 3, 3, 3, 1, 2, 1, 2, 2, 3, 2, 2, 5, "Scenario B" $54,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ A" $54,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ B" 54, 1, 2, 1, 1, 3, 2, 1, 2, 1, 1, 2, 4, 3, 1,"Scenario A" 54, 1, 2, 2, 2, 2, 3, 2, 2, 2, 3, 1, 4, 5, 1, "Scenario B" 54, 2, 1, 2, 1, 2, 1, 4, 1, 1, 1, 3, 2, 5, 2,"Scenario B" $54,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o$ A" $54,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o ~ A "$ $54,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o$ B" $54,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" $56,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o$ A" $56,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o ~ B "$ $56,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o ~ B "$ $56,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o ~ A "$ $56,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ B" $56,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" 56, 1, 2, 1, 2, 3, 2, 4, 2, 1, 2, 2, 2, 5, 3, "Scenario B" $56,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o ~ B "$ $56,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o$ B" 56,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" $11,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o \mathrm{~A} "$ $11,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ B" 11,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" $11,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o ~ B "$ 11, 1, 1, 3, 2, 2, 2, 3, 2, 2, 3, 3, 1, 2, 4, "Scenario B" $11,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o$ B" 11,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B" $11,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ A" 11,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" $11,1,1,3,1,1,1,2,2,2,3,3,2,4,1, " S c e n a r i o ~ B "$ $483,2,1,2,3,1,3,1,1,2,1,1,1,2,2, "$ Scenario B" 483,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" 483,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario B" 483,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 483,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 483,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 483, 1, 2, 1, 2, 1, 3, 4, 2, 1, 3, 3, 3, 5, 1, "Scenario A" $483,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ A"


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483,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A"
483,2,2,1,1,3,3,4,1,1,2,3,1,3,5,"Scenario A"
482,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A"
482,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A"
482,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario A"
482,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B"
482,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B"
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482,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A"
482,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B"
482,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario B"
482,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario A"
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485,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B"
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480,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B"
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480,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario A"
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479,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B"
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479,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A"
479,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B"
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479,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A"
479,2,2,1,1,3,3,4,1,1,2,3,1,3,5,"Scenario A"
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69,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A"
69,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario B"
69,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B"
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69,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario A"
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57,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A"
57,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario A"
57,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario A"
57,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B"
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57, 2, 2, 3, 1, 1, 1, 1, 1, 1, 1, 3, 3, 3, 4, "Scenario A" 57,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" 57, 2, 2, 3, 3, 4, 3, 5, 2, 1, 2, 1, 3, 5, 2,"Scenario B" 57, 1, 2, 1, 1, 2, 4, 5, 2, 1, 3, 3, 4, 2, 4, "Scenario A" 57,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" $55,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o$ A" $55,2,1,3,1,2,5,4,1,2,1,3,4,2,1, "$ Scenario A" 55, 1, 1, 1, 3, 1, 4, 5, 2, 2, 2, 2, 2, 3, 5, "Scenario A" 55,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 55,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" $55,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o ~ B "$ 55,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B" $55,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ A" 55,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 55, 1, 1, 3, 1, 1, 1, 2, 2, 2, 3, 3, 2, 4, 1,"Scenario A" $13,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" 13, 1, 1, 2, 1, 2, 2, 3, 2, 2, 3, 2, 4, 1, 2,"Scenario B" $13,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario B" 13, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario A" 13, 1, 1, 2, 1, 4,5,5,2,2,1,2,3,4,1,"Scenario B" $13,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ B" $13,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o ~ B "$ $13,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ B" $13,2,2,3,1,2,4,2,1,1,1,2,2,2,5$, Scenario A" $13,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ A" 59,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario B" $59,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o ~ A "$ 59,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario A" 59, 1, 2, 1, 1, 3, 2, 1, 2, 1, 1, 2, 4, 3, 1, "Scenario A" 59, 1, 2, 2, 2, 2, 3, 2, 2, 2, 3, 1, 4, 5, 1, "Scenario A" 59,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario A" $59,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o$ B" $59,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o ~ A "$ 59, 1, 1, 2, 2, 3, 3, 3, 2, 2, 3, 1, 2, 4,5,"Scenario B" 59, 1, 2, 2, 3, 1, 5, 4, 2, 1, 3, 2, 4, 2, 5, "Scenario A" $70,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o$ A" $70,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o ~ B "$ $70,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o ~ B "$ $70,1,1,3,3,1,4,1,2,2,1,2,4,3,2, "$ Scenario B" $70,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ A" $70,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" 70,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" $70,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o ~ A "$ $70,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o$ B" $70,1,1,2,2,2,1,1,2,2,3,1,1,1,2, "$ Scenario A" 71, 1, 2, 2, 2, 4, 3, 2, 1, 1, 1, 3, 3, 4, 3, "Scenario B" $71,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ A" $71,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o$ A" $71,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o ~ A "$ 71, 1, 1, 3, 2, 2, 2, 3, 2, 2, 3, 3, 1, 2, 4, "Scenario B" $71,2,1,1,1,4,1,2,1,2,3,2,2,5,3, "$ Scenario B" $71,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o$ A" $71,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ A" $71,1,1,2,1,4,3,5,2,1,1,2,3,5,1, " S c e n a r i o$ B" $71,1,1,3,1,1,1,2,2,2,3,3,2,4,1, " S c e n a r i o$ A" 73,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" $73,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o$ B"

$73,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o A "$ 73, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario A" 73, 1, 1, 2, 1, 4,5,5,2,2,1,2,3,4,1,"Scenario B" $73,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ A" $73,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o$ A" $73,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ B" $73,2,2,3,1,2,4,2,1,1,1,2,2,2,5, "$ Scenario A" $73,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario B" $74,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o$ A" $74,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ A" $74,2,2,1,2,3,4,2,1,1,3,1,1,4,5, "$ Scenario B" $74,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ A" $74,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o$ A" $74,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ B" $74,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o$ A" $74,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o ~ A "$ $74,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o$ A" $74,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" $190,2,1,2,2,3,2,1,1,2,3,2,1,5,4, "$ Scenario A" 190,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" 190,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 190,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario B" $190,2,1,2,1,4,2,3,1,1,3,3,1,5,3, "$ Scenario A" 190, 2, 2, 3, 1, 1, 1, 1, 1, 1, 1, 3, 3, 3, 4, "Scenario A" 190, 1, 2, 1, 2, 3, 2, 4, 2, 1, 2, 2, 2, 5, 3, "Scenario A" 190, 2, 2, 3, 3, 4, 3, 5, 2, 1, 2, 1, 3,5,2,"Scenario A" 190,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 190,1,1,2,2,2,1,1,2,2,3,1,1,1,2, "Scenario A" $75,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o$ A" $75,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ B" $75,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o ~ B "$ $75,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o ~ B "$ $75,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o ~ B "$ 75,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" $75,2,1,1,2,1,4,4,1,2,3,1,3,3,5, "$ Scenario B" $75,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ A" $75,1,1,2,1,4,3,5,2,1,1,2,3,5,1, " S c e n a r i o$ A" $75,1,1,3,1,1,1,2,2,2,3,3,2,4,1, " S c e n a r i o$ B" $76,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" $76,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o$ B" $76,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario A" $76,1,2,3,3,1,4,3,2,1,1,1,2,1,4, " S c e n a r i o$ B" $76,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o ~ B "$ $76,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ B" $76,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o$ B" $76,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ B" $76,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o$ A" $76,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ A" $77,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o ~ A "$ $77,1,2,3,2,1,1,4,2,1,2,3,4,5,3$, SScenario A" $77,2,2,1,2,3,4,2,1,1,3,1,1,4,5, "$ Scenario A" $77,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ A" 77,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" $77,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ B" $77,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o$ A" $77,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o$ B" $77,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o$ A"
$77,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" $78,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o$ B" $78,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o$ A" $78,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ B" $78,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o$ A" $78,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ B" $78,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" $78,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o$ A" $78,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o$ B" $78,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o B^{\prime \prime}$ $78,1,1,2,2,2,1,1,2,2,3,1,1,1,2, "$ Scenario A" 189,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 189, 2, 1, 3, 1, 2, 5, 4, 1, 2, 1, 3, 4, 2, 1, "Scenario A" 189,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 189,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 189,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" 189, 2, 1, 1, 1, 4, 1, 2, 1, 2, 3, 2, 2,5,3,"Scenario B" 189,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" 189, 2, 2, 2, 3, 3, 5, 4, 1, 2, 2, 3, 4, 4, 1, "Scenario A" 189,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 189,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario A" $72,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o ~ A "$ $72,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o$ A" $72,2,1,3,2,3,5,5,1,2,1,3,4,4,4$, SScenario A" $72,1,2,3,3,1,4,3,2,1,1,1,2,1,4, " S c e n a r i o$ A" $72,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o ~ B "$ $72,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o ~ A "$ $72,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o ~ A "$ $72,2,2,3,2,1,1,5,1,1,2,3,4,2,2$, "Scenario A" $72,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ $72,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ B" $95,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o ~ A "$ $95,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ B" 95, 2, 2, 1, 2, 3, 4, 2, 1, 1, 3, 1, 1, 4,5,"Scenario B" 95, 1, 2, 1, 1, 3, 2, 1, 2, 1, 1, 2, 4, 3, 1,"Scenario B" 95, 1, 2, 2, 2, 2, 3, 2, 2, 2, 3, 1, 4, 5, 1,"Scenario B" $95,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ A" 95, 2, 1, 1, 3, 1, 2, 1, 1, 2, 3, 2, 4, 3, 4, "Scenario A" 95, 1, 1, 3, 3, 1, 5, 2, 2, 2, 2, 1, 3, 1, 3, "Scenario A" 95, 1, 1, 2, 2, 3, 3, 3, 2, 2, 3, 1, 2, 4,5,"Scenario B" $95,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ B" 191,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario B" 191,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" 191,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 191,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario A" 191,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B" 191,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario A" $191,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o ~ A "$ $191,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o ~ A "$ 191,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario A" 191,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" 79,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" $79,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ B" $79,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o$ A" $79,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o ~ A "$ 79, 1, 1, 3, 2, 2, 2, 3, 2, 2, 3, 3, 1, 2, 4, "Scenario A" $79,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o$ A"


79, 2, 1, 1, 2, 1, 4, 4, 1, 2, 3, 1, 3, 3, 5, "Scenario A" $79,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ B" 79,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 79,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $80,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o ~ A "$ $80,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o ~ B "$ $80,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ B" $80,1,2,3,3,1,4,3,2,1,1,1,2,1,4, "$ Scenario A" 80, 1, 1, 2, 1, 4,5,5,2,2,1,2,3,4,1,"Scenario B" $80,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ B" $80,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o$ B" $80,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ B" $80,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ $80,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ A" 417,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A" 417,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" $417,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ A" $417,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ A" 417,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 417,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 417,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" $417,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o ~ A "$ $417,1,1,2,2,3,3,3,2,2,3,1,2,4,5, "$ Scenario A" $417,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" $416,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o ~ A "$ $416,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o$ B" $416,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ B" $416,1,1,3,3,1,4,1,2,2,1,2,4,3,2$, "Scenario A" $416,2,1,2,1,4,2,3,1,1,3,3,1,5,3$, Scenario A" $416,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" $416,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o ~ B "$ $416,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o$ B" $416,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o A^{\prime}$ 416,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" 381,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 381,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario A" $381,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o ~ A "$ $381,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o$ A" 381,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario A" $381,2,1,1,1,4,1,2,1,2,3,2,2,5,3, "$ Scenario B" 381,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" $381,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o ~ A "$ $381,1,1,2,1,4,3,5,2,1,1,2,3,5,1, " S c e n a r i o$ B" $381,1,1,3,1,1,1,2,2,2,3,3,2,4,1, " S c e n a r i o ~ A "$ 390,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario B" $390,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o A "$ 390, 2, 1, 3, 2, 3, 5, 5, 1, 2, 1, 3, 4, 4, 4, "Scenario A" 390,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 390,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" $390,2,1,2,3,1,1,3,1,2,2,1,2,3,1, "$ Scenario A" 390,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario A" $390,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ A" 390, 2, 2, 3, 1, 2, 4, 2, 1, 1, 1, 2, 2, 2, 5,"Scenario B" $390,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ B" $391,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o B^{\prime}$ 391,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" 391,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario B"

391,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A" 391,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" 391,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario A" 391,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 391,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" $391,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o ~ A "$ 391,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario A" 389,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" 389,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" 389,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario A" $389,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o ~ A "$ 389,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario A" 389,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario A" 389,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario A" 389,2,2,3,3,4,3,5,2,1,2,1,3,5,2,"Scenario B" 389,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 389,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" $380,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o$ A" $380,2,1,3,1,2,5,4,1,2,1,3,4,2,1, "$ Scenario A" $380,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o$ A" $380,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o ~ A "$ $380,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o ~ A "$ $380,2,1,1,1,4,1,2,1,2,3,2,2,5,3, "$ Scenario B" 380,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" $380,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ A" $380,1,1,2,1,4,3,5,2,1,1,2,3,5,1, " S c e n a r i o$ B" 380,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario A" $382,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o B^{\prime}$ 382,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario A" $382,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario A" $382,1,2,3,3,1,4,3,2,1,1,1,2,1,4, " S c e n a r i o$ A" $382,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o$ B" $382,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o ~ A "$ $382,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o$ A" $382,2,2,3,2,1,1,5,1,1,2,3,4,2,2, "$ Scenario A" 382,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario B" $382,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ B" 383,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario B" 383,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" 383,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario B" 383,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A" 383,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" 383,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario A" 383,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario B" 383,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" 383, 1, 1, 2, 2, 3, 3, 3, 2, 2, 3, 1, 2, 4, 5, "Scenario A" $383,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" $384,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o ~ A "$ $384,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o$ B" $384,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o \mathrm{~A} "$ 384, 1, 1, 3, 3, 1, 4, 1, 2, 2, 1, 2, 4, 3, 2, "Scenario A" 384,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario A" 384,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario A" $384,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o$ B" $384,2,2,3,3,4,3,5,2,1,2,1,3,5,2$, "Scenario B" 384,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario A" 384,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B"


385,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 385,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario A" 385,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario A" 385,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 385,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" $385,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o$ B" 385,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" $385,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ A" 385,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 385,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario A" $388,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o ~ A "$ $388,1,1,2,1,2,2,3,2,2,3,2,4,1,2, "$ Scenario A" $388,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario A" 388, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario B" $388,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o$ A" $388,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ A" $388,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o$ A" $388,2,2,3,2,1,1,5,1,1,2,3,4,2,2, "$ Scenario A" $388,2,2,3,1,2,4,2,1,1,1,2,2,2,5, "$ Scenario B" $388,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ A" $378,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o$ B" $378,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o ~ A "$ $378,2,2,1,2,3,4,2,1,1,3,1,1,4,5, "$ Scenario B" 378,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A" 378,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" $378,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ A" $378,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o A "$ $378,1,1,3,3,1,5,2,2,2,2,1,3,1,3, "$ Scenario A" $378,1,1,2,2,3,3,3,2,2,3,1,2,4,5, "$ Scenario B" $378,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" 379,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" 379,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" $379,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ B" 379,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario A" 379,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B" 379,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario B" 379,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" $379,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o$ A" 379,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario A" 379,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" 392,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 392,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario A" $392,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o$ A" 392,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 392,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario A" 392,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario A" 392,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B" $392,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ A" 392,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario A" 392,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $412,2,1,2,3,1,3,1,1,2,1,1,1,2,2, "$ Scenario A" 412,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $412,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ B" $412,1,2,3,3,1,4,3,2,1,1,1,2,1,4, " S c e n a r i o$ A" $412,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o$ B" $412,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ B" $412,1,2,1,2,1,3,4,2,1,3,3,3,5,1, "$ Scenario B"
$412,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o B^{\prime}$ $412,2,2,3,1,2,4,2,1,1,1,2,2,2,5, "$ Scenario A" $412,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ A" $413,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o$ A" $413,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ B" $413,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ A" 413,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A" 413,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 413,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" $413,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o$ A" $413,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o ~ A "$ $413,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o$ A" $413,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" 415,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario B" $415,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o$ A" $415,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o ~ B "$ $415,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o$ B" $415,2,1,2,1,4,2,3,1,1,3,3,1,5,3, "$ Scenario B" $415,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" $415,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o ~ A "$ $415,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o ~ A "$ $415,1,2,1,1,2,4,5,2,1,3,3,4,2,4, "$ Scenario A" 415,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" 414, 1, 2, 2, 2, 4, 3, 2, 1, 1, 1, 3, 3, 4, 3, "Scenario A" $414,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ A" $414,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o ~ A "$ $414,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o ~ A "$ $414,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o ~ A "$ $414,2,1,1,1,4,1,2,1,2,3,2,2,5,3, "$ Scenario A" $414,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o$ A" $414,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o ~ A "$ 414,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario A" $414,1,1,3,1,1,1,2,2,2,3,3,2,4,1, " S c e n a r i o ~ A "$ 411,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario B" 411,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $411,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ A" 411,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario B" $411,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o$ A" 411,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario A" 411,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $411,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ A" 411,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario B" 411,2,2,1,1,3,3,4,1,1,2,3,1,3,5,"Scenario B" 297,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A" 297,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" 297,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario B" 297,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A" 297,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" 297,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 297,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 297,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" 297,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario A" 297,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario A" 300,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario B" $300,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o$ A" $300,2,2,1,1,2,4,5,1,2,2,2,3,1,1, "$ Scenario B" $300,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o$ A"


300,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B" 300,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "Scenario A" 300,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" 300,2,2,3,3,4,3,5,2,1,2,1,3,5,2,"Scenario B" 300,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario A" $300,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o$ A" 299,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario B" 299,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 299,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario A" 299,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario B" 299,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario A" 299,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" 299,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" 299,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B" 299,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 299,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $298,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o ~ B "$ 298, 1, 1, 2, 1, 2, 2, 3, 2, 2, 3, 2, 4, 1, 2, "Scenario A" $298,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario B" 298, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario A" $298,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o$ B" $298,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ B" 298, 1, 2, 1, 2, 1, 3, 4, 2, 1, 3, 3, 3, 5, 1,"Scenario B" 298,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario A" $298,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ $298,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ B" 303,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario B" 303,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" 303,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario A" 303,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 303,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 303,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 303,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 303,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" 303,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario A" 303,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario A" 292,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" 292,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" 292,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario A" 292,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario A" 292,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario A" $292,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" $292,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o$ B" 292,2,2,3,3,4,3,5,2,1,2,1,3,5,2,"Scenario B" 292,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 292,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" 301,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 301,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario A" 301,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario A" 301,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 301,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" 301,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario A" 301,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" 301,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B" 301, 1, 1, 2, 1, 4, 3, 5, 2, 1, 1, 2, 3, 5, 1,"Scenario A" 301,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 290, 2, 1, 2, 3, 1, 3, 1, 1, 2, 1, 1, 1, 2, 2, "Scenario A"

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477,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A"
477,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B"
477,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario A"
477,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A"
477,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B"
477,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B"
477,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A"
477,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A"
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477,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario A" $477,1,2,2,3,1,5,4,2,1,3,2,4,2,5, "$ Scenario A" 245,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario B" 245,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" $245,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ A" $245,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o$ B" 245,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario A" $245,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" 245,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario A" $245,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o ~ A "$ 245,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario A" 245,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" $481,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o$ A" 481,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 481,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" $481,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o ~ A "$ $481,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o ~ B "$ $481,2,1,1,1,4,1,2,1,2,3,2,2,5,3, "$ Scenario B" 481,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B" $481,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ B" 481,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario A" $481,1,1,3,1,1,1,2,2,2,3,3,2,4,1, " S c e n a r i o$ A" 407,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 407,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" 407,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario A" 407,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 407,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 407,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 407,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario A" 407,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario A" 407,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A" 407,2,2,1,1,3,3,4,1,1,2,3,1,3,5,"Scenario A" $486,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o$ A" $486,1,2,3,2,1,1,4,2,1,2,3,4,5,3, "$ Scenario A" $486,2,2,1,2,3,4,2,1,1,3,1,1,4,5, "$ Scenario B" 486,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" $486,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o ~ A "$ $486,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ A" $486,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o$ A" $486,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o$ A" $486,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o$ A" $486,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ B" $312,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o$ A" $312,1,2,2,3,2,1,5,2,1,1,1,4,3,3, "$ Scenario B" 312,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 312,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario A" 312,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B" $312,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" $312,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o$ B" $312,2,2,3,3,4,3,5,2,1,2,1,3,5,2, "$ Scenario B" 312,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 312,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" 310,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" $310,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ B" $310,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o ~ B "$ 310,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario B" $310,1,1,3,2,2,2,3,2,2,3,3,1,2,4, "$ Scenario A"

310, 2, 1, 1, 1, 4, 1, 2, 1, 2, 3, 2, 2, 5, 3, "Scenario A" $310,2,1,1,2,1,4,4,1,2,3,1,3,3,5, "$ Scenario A" $310,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ B" 310,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 310,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 487,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario B" 487,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" 487,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario B" 487,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 487,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" $487,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o ~ A "$ 487,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $487,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ A" 487,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A" 487,2,2,1,1,3,3,4,1,1,2,3,1,3,5,"Scenario A" 304,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A" 304,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" 304,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario B" 304,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 304,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" 304,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario A" 304,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario B" 304,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" 304,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario B" 304, 1, 2, 2, 3, 1, 5, 4, 2, 1, 3, 2, 4, 2, 5, "Scenario A" $406,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o ~ A "$ $406,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o$ B" $406,2,2,1,1,2,4,5,1,2,2,2,3,1,1, "$ Scenario A" $406,1,1,3,3,1,4,1,2,2,1,2,4,3,2, "$ Scenario A" $406,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ B" $406,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" $406,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o$ B" $406,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o ~ A "$ $406,1,2,1,1,2,4,5,2,1,3,3,4,2,4, "$ Scenario A" 406,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" 377,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 377,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 377,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 377,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 377,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" 377,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" 377,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" 377,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B" 377,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 377,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 311,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" $311,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o ~ A "$ 311,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario B" $311,1,2,3,3,1,4,3,2,1,1,1,2,1,4, " S c e n a r i o$ A" 311,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 311,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 311,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $311,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ A" $311,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o$ A" $311,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o B^{\prime}$ 309,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A" 309,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B"


309,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario A" 309,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 309,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 309,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 309,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 309,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" 309,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario A" 309,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario A" 488,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario B" $488,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o$ A" $488,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o ~ A "$ 488, 1, 1, 3, 3, 1, 4, 1, 2, 2, 1, 2, 4, 3, 2, "Scenario B" $488,2,1,2,1,4,2,3,1,1,3,3,1,5,3, "$ Scenario $B "$ 488,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario B" $488,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o$ B" $488,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o ~ A "$ $488,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o ~ A "$ $488,1,1,2,2,2,1,1,2,2,3,1,1,1,2, "$ Scenario A" 489,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 489,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario A" 489,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 489,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario B" 489, 1, 1, 3, 2, 2, 2, 3, 2, 2, 3, 3, 1, 2, 4, "Scenario A" 489,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario A" 489,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" 489,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B" 489,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 489,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $490,2,1,2,3,1,3,1,1,2,1,1,1,2,2, "$ Scenario A" 490,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $490,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario B" 490,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" $490,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o$ B" 490,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 490,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $490,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ A" 490,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario B" $490,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ A" 493, 1, 1, 3, 3, 3, 1, 2, 1, 2, 2, 3, 2, 2, 5, "Scenario A" 493,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" 493,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario A" 493,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 493,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" 493, 2, 1, 2, 1, 2, 1, 4, 1, 1, 1, 3, 2, 5, 2, "Scenario A" 493,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 493,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" $493,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o ~ A "$ $493,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" 494,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" 494,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" 494,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 494,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario A" $494,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ B" $494,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" $494,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o ~ A "$ $494,2,2,3,3,4,3,5,2,1,2,1,3,5,2, "$ Scenario B" $494,1,2,1,1,2,4,5,2,1,3,3,4,2,4, "$ Scenario A"

494, 1, 1, 2, 2, 2, 1, 1, 2, 2, 3, 1, 1, 1, 2, "Scenario A" 235, 1, 2, 2, 2, 4, 3, 2, 1, 1, 1, 3, 3, 4, 3, "Scenario A" 235,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 235, 1, 1, 1, 3, 1, 4,5,2,2,2,2,2,3,5,"Scenario A" $235,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o ~ A "$ $235,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o ~ A "$ $235,2,1,1,1,4,1,2,1,2,3,2,2,5,3, "$ Scenario B" 235,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B" 235,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B" 235,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 235,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 345,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" $345,1,1,2,1,2,2,3,2,2,3,2,4,1,2, "$ Scenario B" 345,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario B" 345,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 345,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" $345,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o B^{\prime}$ 345,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $345,2,2,3,2,1,1,5,1,1,2,3,4,2,2, "$ Scenario B" 345,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A" $345,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o ~ A "$ $234,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o ~ A "$ 234, 1, 2, 3, 2, 1, 1, 4, 2, 1, 2, 3, 4, 5, 3, "Scenario A" 234,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario A" 234,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A" 234,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" $234,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ B" $234,2,1,1,3,1,2,1,1,2,3,2,4,3,4, "$ Scenario A" 234, 1, 1, 3, 3, 1, 5, 2, 2, 2, 2, 1, 3, 1, 3, "Scenario A" 234,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario B" $234,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o ~ A "$ $236,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o$ B" 236,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" 236,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 236, 1, 1, 3, 3, 1, 4, 1, 2, 2, 1, 2, 4, 3, 2, "Scenario A" 236,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B" $236,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" $236,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o$ B" $236,2,2,3,3,4,3,5,2,1,2,1,3,5,2, "$ Scenario B" 236,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 236,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" 237,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario B" $237,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o ~ A "$ 237,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario A" 237,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 237,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" 237,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" 237, 2, 1, 1, 2, 1, 4, 4, 1, 2, 3, 1, 3, 3,5, "Scenario A" $237,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ A" 237,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 237,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario A" 349,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 349,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $349,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ B" 349,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 349,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 349,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario A"

349,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" 349,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario B" 349,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A" 349,2,2,1,1,3,3,4,1,1,2,3,1,3,5,"Scenario A" $344,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o$ B" $344,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ B" $344,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ A" 344,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 344,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" $344,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ A" $344,2,1,1,3,1,2,1,1,2,3,2,4,3,4, "$ Scenario A" 344,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" $344,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o B^{\prime \prime}$ $344,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o B^{\prime \prime}$ 352,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" 352,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" $352,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ B" $352,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o$ A" 352,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario A" 352,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario B" $352,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o ~ B "$ $352,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o ~ A "$ 352,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 352,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" 346,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" $346,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ A" $346,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o$ B" 346,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 346,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" $346,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o$ A" $346,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o ~ A "$ $346,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o ~ A "$ 346,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 346,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 350,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 350,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $350,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario A" 350,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario B" $350,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o B^{\prime \prime}$ 350,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario A" 350,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" 350,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario A" 350,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A" $350,2,2,1,1,3,3,4,1,1,2,3,1,3,5$, Scenario A" 353,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A" 353,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" 353,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario B" 353,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 353,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 353,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario A" 353,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 353, 1, 1, 3, 3, 1, 5, 2, 2, 2, 2, 1, 3, 1, 3, "Scenario A" 353,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario A" $353,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ B" $440,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o ~ A "$ $440,1,2,2,3,2,1,5,2,1,1,1,4,3,3, "$ Scenario B" $440,2,2,1,1,2,4,5,1,2,2,2,3,1,1, "$ Scenario B"

440,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario A" $440,2,1,2,1,4,2,3,1,1,3,3,1,5,3, "$ Scenario A" $440,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" $440,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o$ B" $440,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o ~ A "$ $440,1,2,1,1,2,4,5,2,1,3,3,4,2,4, "$ Scenario B" 440,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" 351,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 351,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario A" 351,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" $351,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o ~ A "$ 351,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" 351,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario A" 351,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" 351,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario A" 351,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" $351,1,1,3,1,1,1,2,2,2,3,3,2,4,1, " S c e n a r i o$ B" $348,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o ~ A "$ $348,1,1,2,1,2,2,3,2,2,3,2,4,1,2, "$ Scenario B" $348,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario A" 348, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario B" $348,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o$ B" $348,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o ~ A "$ 348,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" 348, 2, 2, 3, 2, 1, 1,5,1,1,2,3,4,2,2,"Scenario A" $348,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o$ A" $348,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ A" 347,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario B" 347,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" 347,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario A" 347,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 347,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" $347,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ A" 347,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 347,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" 347,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario B" 347,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario B" 34,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" 34, 1, 2, 2, 3, 2, 1, 5, 2, 1, 1, 1, 4, 3, 3, "Scenario A" $34,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ B" 34, 1, 1, 3, 3, 1, 4, 1, 2, 2, 1, 2, 4, 3, 2,"Scenario B" 34,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B" 34,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario A" $34,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o$ A" $34,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o$ A" 34,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 34,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" 32,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" $32,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ A" 32,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 32,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario B" 32,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" $32,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o$ A" $32,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o$ B" $32,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ A" 32,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" $32,1,1,3,1,1,1,2,2,2,3,3,2,4,1, " S c e n a r i o$ B"


37,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 37, 1, 1, 2, 1, 2, 2, 3, 2, 2, 3, 2, 4, 1, 2,"Scenario B" 37, 2, 1, 3, 2, 3, 5, 5, 1, 2, 1, 3, 4, 4, 4, "Scenario A" 37, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario A" 37,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 37,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 37, 1, 2, 1, 2, 1, 3, 4, 2, 1, 3, 3, 3, 5, 1,"Scenario A" 37,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario A" 37,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A" 37,2,2,1,1,3,3,4,1,1,2,3,1,3,5,"Scenario A" $38,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o ~ A "$ $38,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ A" $38,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ B" 38,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" $38,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o$ A" $38,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o ~ B "$ $38,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o$ A" 38, 1, 1, 3, 3, 1, 5, 2, 2, 2, 2, 1, 3, 1, 3, "Scenario A" $38,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o$ B" $38,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ B" $33,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o$ A" $33,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o A "$ $33,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ B" $33,1,1,3,3,1,4,1,2,2,1,2,4,3,2$, "Scenario B" $33,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ A" $33,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" $33,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o ~ A "$ $33,2,2,3,3,4,3,5,2,1,2,1,3,5,2$, "Scenario B" $33,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o ~ B "$ $33,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o$ A" $454,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o ~ A "$ $454,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ A" $454,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o$ B" 454,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario B" 454,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" $454,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o$ A" $454,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o ~ A "$ $454,2,2,2,3,3,5,4,1,2,2,3,4,4,1, "$ Scenario B" $454,1,1,2,1,4,3,5,2,1,1,2,3,5,1, " S c e n a r i o B^{\prime}$ 454, 1, 1, 3, 1, 1, 1, 2, 2, 2, 3, 3, 2, 4, 1, "Scenario A" $458,2,1,2,3,1,3,1,1,2,1,1,1,2,2, "$ Scenario A" 458,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $458,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ B" $458,1,2,3,3,1,4,3,2,1,1,1,2,1,4, "$ Scenario A" $458,1,1,2,1,4,5,5,2,2,1,2,3,4,1, "$ Scenario B" 458,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" $458,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o B^{\prime \prime}$ $458,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o ~ B "$ $458,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ $458,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario B" 39,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A" 39,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" 39,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario A" $39,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ A" $39,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o ~ B "$ 39,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario A" 39,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario B"

39,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" $39,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o$ A" 39,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario A" 35,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" $35,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o$ A" $35,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ A" $35,1,1,3,3,1,4,1,2,2,1,2,4,3,2, "$ Scenario B" $35,2,1,2,1,4,2,3,1,1,3,3,1,5,3$, SScenario A" 35,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario B" $35,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o ~ B "$ $35,2,2,3,3,4,3,5,2,1,2,1,3,5,2, "$ Scenario A" 35,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario A" $35,1,1,2,2,2,1,1,2,2,3,1,1,1,2, "$ Scenario A" $36,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o$ A" $36,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ A" $36,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o ~ B "$ $36,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o$ B" $36,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o$ A" $36,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o$ A" 36,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B" $36,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o ~ B "$ $36,1,1,2,1,4,3,5,2,1,1,2,3,5,1, " S c e n a r i o ~ B "$ $36,1,1,3,1,1,1,2,2,2,3,3,2,4,1, " S c e n a r i o$ A" 327,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 327,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario A" 327,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario A" 327,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario B" $327,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o ~ B "$ 327,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario A" 327,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario A" 327,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario B" 327,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario B" $327,2,2,1,1,3,3,4,1,1,2,3,1,3,5$, Scenario A" $328,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o$ B" 328,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" 328, 2, 2, 1, 2, 3, 4, 2, 1, 1, 3, 1, 1, 4, 5, "Scenario A" $328,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ A" 328,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" $328,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o B^{\prime}$ $328,2,1,1,3,1,2,1,1,2,3,2,4,3,4, "$ Scenario A" 328,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" $328,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o ~ A "$ $328,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" $370,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o ~ A "$ 370,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" $370,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o B^{\prime}$ $370,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o B^{\prime \prime}$ $370,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ B" $370,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" $370,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o ~ A "$ $370,2,2,3,3,4,3,5,2,1,2,1,3,5,2, "$ Scenario B" 370,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" $370,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o ~ A "$ 368,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" $368,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ A" 368, 1, 1, 1, 3, 1, 4, 5, 2, 2, 2, 2, 2, 3, 5, "Scenario A" 368,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario B"


368,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" $368,2,1,1,1,4,1,2,1,2,3,2,2,5,3, "$ Scenario A" 368,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" 368,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B" 368,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 368,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 456,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 456,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $456,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ B" $456,1,2,3,3,1,4,3,2,1,1,1,2,1,4, " S c e n a r i o$ B" $456,1,1,2,1,4,5,5,2,2,1,2,3,4,1, "$ Scenario B" $456,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o B^{\prime \prime}$ $456,1,2,1,2,1,3,4,2,1,3,3,3,5,1, "$ Scenario B" $456,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ B" $456,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ $456,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o ~ A "$ $438,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o ~ B "$ $438,1,2,3,2,1,1,4,2,1,2,3,4,5,3, "$ Scenario B" $438,2,2,1,2,3,4,2,1,1,3,1,1,4,5, "$ Scenario A" 438,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" $438,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o ~ B "$ $438,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ B" $438,2,1,1,3,1,2,1,1,2,3,2,4,3,4, "$ Scenario A" $438,1,1,3,3,1,5,2,2,2,2,1,3,1,3, "$ Scenario B" 438,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario B" $438,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o ~ A "$ $408,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o ~ A "$ $408,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o ~ B "$ $408,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o ~ B "$ 408, 1, 1, 3, 3, 1, 4, 1, 2, 2, 1, 2, 4, 3, 2, "Scenario A" $408,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o ~ A "$ $408,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" $408,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o ~ B "$ $408,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o ~ A "$ 408, 1, 2, 1, 1, 2, 4, 5, 2, 1, 3, 3, 4, 2, 4, "Scenario B" 408, 1, 1, 2, 2, 2, 1, 1, 2, 2, 3, 1, 1, 1, 2, "Scenario A" 357,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 357,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario A" 357,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 357,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 357,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" 357,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario A" 357,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" 357,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario A" 357,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 357,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 356,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 356,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $356,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ A" 356,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario B" 356,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 356,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario A" 356,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $356,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ A" $356,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ 356,2,2,1,1,3,3,4,1,1,2,3,1,3,5,"Scenario A" $441,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o$ A"


441,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" $441,2,2,1,2,3,4,2,1,1,3,1,1,4,5, "$ Scenario A" 441,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A" 441,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" $441,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ B" $441,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o$ A" 441,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" $441,1,1,2,2,3,3,3,2,2,3,1,2,4,5, "$ Scenario B" $441,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" 358,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" $358,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o$ B" $358,2,2,1,1,2,4,5,1,2,2,2,3,1,1, "$ Scenario A" 358, 1, 1, 3, 3, 1, 4, 1, 2, 2, 1, 2, 4, 3, 2,"Scenario B" 358, 2, 1, 2, 1, 4, 2, 3, 1, 1, 3, 3, 1, 5, 3, "Scenario A" 358,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario A" 358, 1, 2, 1, 2, 3, 2, 4, 2, 1, 2, 2, 2, 5, 3, "Scenario B" $358,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o ~ A "$ 358, 1, 2, 1, 1, 2, 4,5,2,1,3,3,4,2,4,"Scenario B" 358,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" $341,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o$ A" $341,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o ~ A "$ $341,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o$ B" 341,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 341,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" 341,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario A" 341,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" $341,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ A" $341,1,1,2,1,4,3,5,2,1,1,2,3,5,1, " S c e n a r i o ~ B "$ 341,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 355,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 355,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario A" 355,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario B" 355, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario A" 355,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 355,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario A" 355,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" 355,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario B" 355,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario B" $355,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario A" 233, 1, 1, 3, 3, 3, 1, 2, 1, 2, 2, 3, 2, 2, 5, "Scenario A" 233,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" $233,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ A" 233,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A" 233,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 233,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 233,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" $233,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o$ A" 233,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario A" $233,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" 354,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" 354,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" 354,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" $354,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o ~ A "$ 354,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B" 354,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario A" 354,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" $354,2,2,3,3,4,3,5,2,1,2,1,3,5,2, "$ Scenario B"

$354,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o B "$ 354,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" 457,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 457,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 457,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario A" $457,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o ~ A "$ 457,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario A" 457,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario A" 457,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" 457,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B" 457,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 457,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $404,2,1,2,3,1,3,1,1,2,1,1,1,2,2, "$ Scenario A" 404,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $404,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ A" 404,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" $404,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o$ B" $404,2,1,2,3,1,1,3,1,2,2,1,2,3,1, "$ Scenario B" 404,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $404,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ B" $404,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ $404,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o ~ A "$ 403, 1, 1, 3, 3, 3, 1, 2, 1, 2, 2, 3, 2, 2, 5, "Scenario A" 403,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" 403,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario A" 403,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 403,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" $403,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o ~ B "$ 403,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 403, 1, 1, 3, 3, 1, 5, 2, 2, 2, 2, 1, 3, 1, 3, "Scenario A" 403, 1, 1, 2, 2, 3, 3, 3, 2, 2, 3, 1, 2, 4, 5, "Scenario A" 403,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario A" 369,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" 369,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" 369,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 369,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario B" 369,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario A" 369,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario A" 369,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" 369,2,2,3,3,4,3,5,2,1,2,1,3,5,2,"Scenario B" 369,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 369,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" 455,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 455,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" $455,1,1,1,3,1,4,5,2,2,2,2,2,3,5, "$ Scenario B" 455,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 455,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario A" 455,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" 455,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B" $455,2,2,2,3,3,5,4,1,2,2,3,4,4,1, "$ Scenario B" 455,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario A" 455,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 60, 2, 1, 2, 3, 1, 3, 1, 1, 2, 1, 1, 1, 2, 2,"Scenario A" 60,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $60,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario B" 60, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario A" $60,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o$ B"









$60,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ B" $60,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o$ B" 60,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario B" 60,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A" $60,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ A" $7,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o$ B" 7, 1, 2, 3, 2, 1, 1, 4, 2, 1, 2, 3, 4, 5, 3, "Scenario A" $7,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ B" $7,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ A" $7,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o$ A" $7,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ B" 7, 2, 1, 1, 3, 1, 2, 1, 1, 2, 3, 2, 4, 3, 4, "Scenario A" $7,1,1,3,3,1,5,2,2,2,2,1,3,1,3$, Scenario A" $7,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o$ B" $7,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o ~ A "$ $62,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o$ A" $62,1,2,2,3,2,1,5,2,1,1,1,4,3,3, "$ Scenario B" $62,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ B" 62,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario A" 62,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario A" $62,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" 62,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" $62,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o ~ B "$ $62,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o$ B" $62,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o$ A" $4,1,2,2,2,4,3,2,1,1,1,3,3,4,3$, Scenario A" $4,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ B" 4, 1, 1, 1, 3, 1, 4, 5, 2, 2, 2, 2, 2, 3,5,"Scenario B" $4,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o ~ A "$ $4,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o$ A" $4,2,1,1,1,4,1,2,1,2,3,2,2,5,3$, Scenario A" $4,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o$ A" $4,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ B" $4,1,1,2,1,4,3,5,2,1,1,2,3,5,1, " S c e n a r i o$ B" 4, 1, 1, 3, 1, 1, 1, 2, 2, 2, 3, 3, 2, 4, 1, "Scenario B" 63,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 63,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $63,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ A" 63, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario A" 63,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario A" $63,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ B" 63,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $63,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o ~ A "$ 63,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario B" $63,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ B" $422,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o ~ A "$ $422,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o B^{\prime \prime}$ $422,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ B" $422,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o ~ A "$ $422,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o ~ A "$ $422,2,1,2,1,2,1,4,1,1,1,3,2,5,2, "$ Scenario B" 422,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario B" $422,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o B^{\prime \prime}$ $422,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o$ A" $422,1,2,2,3,1,5,4,2,1,3,2,4,2,5, "$ Scenario B" 68,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" $68,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o$ B"


68,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 68, 1, 1, 3, 3, 1, 4, 1, 2, 2, 1, 2, 4, 3, 2, "Scenario A" $68,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ A" $68,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" 68,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" $68,2,2,3,3,4,3,5,2,1,2,1,3,5,2$, "Scenario B" 68, 1, 2, 1, 1, 2, 4,5,2,1,3,3,4,2,4,"Scenario B" $68,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o$ A" 423,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario B" $423,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ A" $423,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o ~ A "$ 423,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 423, 1, 1, 3, 2, 2, 2, 3, 2, 2, 3, 3, 1, 2, 4, "Scenario A" 423, 2, 1, 1, 1, 4, 1, 2, 1, 2, 3, 2, 2, 5, 3, "Scenario A" 423,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B" $423,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o ~ A "$ $423,1,1,2,1,4,3,5,2,1,1,2,3,5,1, " S c e n a r i o$ A" 423, 1, 1, 3, 1, 1, 1, 2, 2, 2, 3, 3, 2, 4, 1,"Scenario A" $306,2,1,2,3,1,3,1,1,2,1,1,1,2,2, "$ Scenario A" 306,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $306,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario B" $306,1,2,3,3,1,4,3,2,1,1,1,2,1,4, "$ Scenario B" 306,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 306,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 306,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario A" $306,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ B" $306,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ B "$ $306,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario B" $376,1,1,3,3,3,1,2,1,2,2,3,2,2,5, "$ Scenario A" $376,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ A" $376,2,2,1,2,3,4,2,1,1,3,1,1,4,5, "$ Scenario A" $376,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ B" $376,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o B^{\prime \prime}$ $376,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ B" $376,2,1,1,3,1,2,1,1,2,3,2,4,3,4, "$ Scenario B" 376,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" $376,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o ~ A "$ $376,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ B" 305,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" 305,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" 305,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario A" 305,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario A" 305,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B" 305,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario A" 305,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" 305,2,2,3,3,4,3,5,2,1,2,1,3,5,2,"Scenario A" 305,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 305,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" 409, 1, 2, 2, 2, 4, 3, 2, 1, 1, 1, 3, 3, 4, 3, "Scenario A" 409,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 409,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 409,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 409,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" 409,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" 409,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B" 409,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B" 409,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B"


409,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $410,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" 410,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $410,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ A" $410,1,2,3,3,1,4,3,2,1,1,1,2,1,4, " S c e n a r i o$ A" $410,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o$ B" $410,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ B" $410,1,2,1,2,1,3,4,2,1,3,3,3,5,1, "$ Scenario B" 410,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario B" $410,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ $410,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o ~ A "$ $461,1,1,3,3,3,1,2,1,2,2,3,2,2,5, "$ Scenario B" $461,1,2,3,2,1,1,4,2,1,2,3,4,5,3, "$ Scenario B" $461,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o A^{\prime}$ $461,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ B" $461,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o ~ B "$ $461,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o ~ A "$ $461,2,1,1,3,1,2,1,1,2,3,2,4,3,4, "$ Scenario B" $461,1,1,3,3,1,5,2,2,2,2,1,3,1,3, "$ Scenario A" 461,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario B" $461,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o ~ A "$ $437,2,1,2,2,3,2,1,1,2,3,2,1,5,4, "$ Scenario A" 437,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" 437,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 437,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario B" 437,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario A" 437,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario A" 437,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" $437,2,2,3,3,4,3,5,2,1,2,1,3,5,2, "$ Scenario A" 437,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 437,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" $451,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o ~ A "$ $451,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ B" $451,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o$ B" $451,2,1,2,2,1,4,1,1,2,2,1,3,1,2, "$ Scenario A" 451,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario A" $451,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o ~ A "$ $451,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o ~ A "$ 451,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B" $451,1,1,2,1,4,3,5,2,1,1,2,3,5,1, "$ Scenario B" 451,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $446,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o ~ A "$ $446,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o ~ B "$ $446,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario B" 446,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 446,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" $446,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ B" $446,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o$ B" $446,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o B^{\prime}$ $446,2,2,3,1,2,4,2,1,1,1,2,2,2,5, "$ Scenario A" $446,2,2,1,1,3,3,4,1,1,2,3,1,3,5$, Scenario A" 320,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A" $320,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o ~ A "$ $320,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ A" $320,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o ~ A "$ 320,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" $320,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ A"


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317,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B"
322,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A"
322,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario A"
322,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario A"
322,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario B"
322,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario A"
322,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B"
322,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B"
322,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario B"
322,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A"
322,2,2,1,1,3,3,4,1,1,2,3,1,3,5,"Scenario A"
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321,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A" 321,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" 321,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario B" $321,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ A" $321,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o ~ A "$ $321,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ B" 321,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 321,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" 321,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario A" $321,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ B" $1,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o$ A" $1,1,2,2,3,2,1,5,2,1,1,1,4,3,3$, Scenario B" $1,2,2,1,1,2,4,5,1,2,2,2,3,1,1, "$ Scenario B" $1,1,1,3,3,1,4,1,2,2,1,2,4,3,2$, "Scenario A" $1,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ B" $1,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o ~ A "$ $1,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o$ B" $1,2,2,3,3,4,3,5,2,1,2,1,3,5,2$, "Scenario B" 1,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" $1,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o$ A" $324,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o ~ A "$ 324,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" $324,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o$ B" 324,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 324,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario A" 324,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario A" $324,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o$ B" $324,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o ~ B "$ 324,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 324,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 323,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 323,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario A" 323,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario A" 323,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario B" 323,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario A" 323,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 323,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" 323,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario B" 323,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A" 323,2,2,1,1,3,3,4,1,1,2,3,1,3,5,"Scenario A" 325,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A" 325,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" 325,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario B" 325,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A" 325,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" 325,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 325,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 325,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" $325,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o ~ A "$ $325,1,2,2,3,1,5,4,2,1,3,2,4,2,5, "$ Scenario B" $2,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o B "$ $2,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o$ A" $2,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ B" $2,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o \mathrm{~A} "$ $2,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ B" $2,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" $2,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o$ A"


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$2,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o \mathrm{~A} "$ $2,1,2,1,1,2,4,5,2,1,3,3,4,2,4, "$ Scenario B" 2,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" 313,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" $313,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ B" $313,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o B^{\prime}$ 313,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 313,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario A" 313,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario A" 313,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B" $313,2,2,2,3,3,5,4,1,2,2,3,4,4,1, "$ Scenario B" 313,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 313,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $318,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" $318,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o ~ A "$ $318,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ A" $318,1,2,3,3,1,4,3,2,1,1,1,2,1,4, " S c e n a r i o B^{\prime}$ $318,1,1,2,1,4,5,5,2,2,1,2,3,4,1, "$ Scenario A" $318,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ B" 318,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $318,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ B" $318,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ $318,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ A" 319,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A" 319,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" 319,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario B" $319,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ A" 319,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" 319,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 319,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 319,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" $319,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o ~ A "$ 319,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario B" 326,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario B" 326,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" 326,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 326,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario A" $326,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ B" 326,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario A" 326,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" 326,2,2,3,3,4,3,5,2,1,2,1,3,5,2,"Scenario A" 326,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 326,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" 307,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 307,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 307,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 307,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 307,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario A" 307,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario A" 307,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B" 307,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B" 307,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 307,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $278,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" 278, 1, 1, 2, 1, 2, 2, 3, 2, 2, 3, 2, 4, 1, 2, "Scenario B" $278,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario A" 278, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario A"

278, 1, 1, 2, 1, 4, 5, 5, 2, 2, 1, 2, 3, 4, 1, "Scenario B" 278, 2, 1, 2, 3, 1, 1, 3, 1, 2, 2, 1, 2, 3, 1, "Scenario A" 278, 1, 2, 1, 2, 1, 3, 4, 2, 1, 3, 3, 3, 5, 1, "Scenario B" $278,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ B" $278,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ $278,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o B^{\prime}$ 283,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario B" 283,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" 283,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario A" $283,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ A" 283,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" 283,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario A" 283,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario B" 283,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" 283,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario A" $283,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o ~ B "$ $279,2,1,2,2,3,2,1,1,2,3,2,1,5,4, "$ Scenario B" $279,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o$ A" 279,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 279,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario B" 279,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B" $279,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" 279, 1, 2, 1, 2, 3, 2, 4, 2, 1, 2, 2, 2, 5, 3, "Scenario B" $279,2,2,3,3,4,3,5,2,1,2,1,3,5,2, "$ Scenario A" 279,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 279,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" 329,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 329,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 329,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 329,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario B" 329,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" $329,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o$ B" 329,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B" 329,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B" 329,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 329,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $332,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o ~ A "$ $332,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o$ B" $332,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario A" 332,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" $332,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o$ A" $332,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o ~ A "$ $332,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o ~ A "$ $332,2,2,3,2,1,1,5,1,1,2,3,4,2,2, "$ Scenario B" $332,2,2,3,1,2,4,2,1,1,1,2,2,2,5, "$ Scenario B" $332,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario B" 337,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A" 337,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" 337,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario A" 337,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A" 337,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 337,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario A" $337,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o$ A" 337,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" $337,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o A "$ 337,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario A" $336,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o$ A"

336,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" $336,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ B" $336,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o$ A" $336,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ A" $336,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" $336,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o ~ A "$ $336,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o B^{\prime}$ 336,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 336,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" 335,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" $335,2,1,3,1,2,5,4,1,2,1,3,4,2,1, "$ Scenario B" $335,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o ~ B "$ 335,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario B" 335,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario A" 335,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario A" 335,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" $335,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ B" 335,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 335,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 333,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 333,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" 333,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario B" 333,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario B" 333, 1, 1, 2, 1, 4, 5, 5, 2, 2, 1, 2, 3, 4, 1,"Scenario A" 333,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario A" 333,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario A" $333,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ A" $333,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ $333,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ A" $334,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o$ A" 334,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" $334,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ B" $334,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o B^{\prime}$ 334,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" $334,2,1,2,1,2,1,4,1,1,1,3,2,5,2, "$ Scenario A" 334,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 334,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" 334,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario B" $334,1,2,2,3,1,5,4,2,1,3,2,4,2,5, "$ Scenario B" 282,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario B" $282,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o$ B" $282,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o ~ A "$ $282,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o$ B" $282,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ B" 282,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario A" 282,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario A" $282,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o$ B" 282,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 282,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" 276,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario B" $276,2,1,3,1,2,5,4,1,2,1,3,4,2,1, "$ Scenario B" 276,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario A" 276,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario B" $276,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o$ A" $276,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o ~ A "$ $276,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o$ A" $276,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ B"


276, 1, 1, 2, 1, 4, 3, 5, 2, 1, 1, 2, 3, 5, 1, "Scenario B" 276,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 284,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 284, 1, 1, 2, 1, 2, 2, 3, 2, 2, 3, 2, 4, 1, 2, "Scenario A" $284,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o ~ A "$ $284,1,2,3,3,1,4,3,2,1,1,1,2,1,4, " S c e n a r i o$ A" 284,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" $284,2,1,2,3,1,1,3,1,2,2,1,2,3,1, "$ Scenario B" 284,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario A" 284,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario B" $284,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ $284,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario B" 275,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario B" 275,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" 275,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario B" 275,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A" $275,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o ~ A "$ 275,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 275,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 275,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" 275,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario B" $275,1,2,2,3,1,5,4,2,1,3,2,4,2,5$, "Scenario A" $274,2,1,2,2,3,2,1,1,2,3,2,1,5,4, "$ Scenario A" 274, 1, 2, 2, 3, 2, 1, 5, 2, 1, 1, 1, 4, 3, 3, "Scenario A" $274,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ A" 274,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario A" $274,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ B" $274,2,2,3,1,1,1,1,1,1,1,3,3,3,4$, Scenario A" 274,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" $274,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o ~ B "$ $274,1,2,1,1,2,4,5,2,1,3,3,4,2,4, "$ Scenario A" $274,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o$ B" $331,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o$ A" 331,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" $331,1,1,1,3,1,4,5,2,2,2,2,2,3,5, "$ Scenario B" 331,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 331,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario A" $331,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o$ A" 331,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" $331,2,2,2,3,3,5,4,1,2,2,3,4,4,1, "$ Scenario B" 331,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 331,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 330,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" $330,1,1,2,1,2,2,3,2,2,3,2,4,1,2, "$ Scenario B" $330,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario B" 330,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario B" $330,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o$ A" 330,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" $330,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o$ B" $330,2,2,3,2,1,1,5,1,1,2,3,4,2,2, "$ Scenario A" 330,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario B" $330,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario B" $281,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o ~ A "$ $281,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ A" $281,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ B" 281,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A" $281,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o ~ A "$

281,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 281,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario B" 281,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" $281,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o$ A" $281,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o ~ A "$ $280,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o B^{\prime \prime}$ 280, 1, 2, 2, 3, 2, 1, 5, 2, 1, 1, 1, 4, 3, 3, "Scenario A" $280,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ B" 280,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario B" $280,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ B" $280,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" 280, 1, 2, 1, 2, 3, 2, 4, 2, 1, 2, 2, 2, 5, 3, "Scenario A" $280,2,2,3,3,4,3,5,2,1,2,1,3,5,2, "$ Scenario A" 280, 1, 2, 1, 1, 2, 4, 5, 2, 1, 3, 3, 4, 2, 4, "Scenario A" 280,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" 277,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 277,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario A" 277,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario A" 277,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 277,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" 277,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" $277,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o ~ A "$ 277,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B" 277,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario A" 277,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario A" $496,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" $496,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o$ A" $496,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ A" 496,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario B" $496,1,1,2,1,4,5,5,2,2,1,2,3,4,1, "$ Scenario A" $496,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o ~ B "$ 496,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $496,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ A" 496,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario B" $496,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario B" 492, 1, 1, 3, 3, 3, 1, 2, 1, 2, 2, 3, 2, 2, 5, "Scenario A" $492,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o ~ A "$ $492,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ B" 492,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A" 492,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 492,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 492,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 492,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" $492,1,1,2,2,3,3,3,2,2,3,1,2,4,5, "$ Scenario A" $492,1,2,2,3,1,5,4,2,1,3,2,4,2,5, "$ Scenario A" 497,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario B" 497,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" 497,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario A" 497,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario B" 497,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario A" 497,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario B" 497,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" 497,2,2,3,3,4,3,5,2,1,2,1,3,5,2,"Scenario B" 497,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario A" 497,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" 491,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" $491,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ A"

491,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 491,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 491,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario A" 491,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" $491,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o ~ A "$ $491,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ B" 491,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 491,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario A" 495,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario B" 495,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $495,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario A" 495,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario B" 495,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario A" 495,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario A" 495,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $495,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ A" $495,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o$ B" $495,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario B" $96,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o$ A" 96,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" $96,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ A" $96,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ B" $96,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o$ A" $96,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ B" $96,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o$ B" 96,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" $96,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o ~ A "$ $96,1,2,2,3,1,5,4,2,1,3,2,4,2,5$, SScenario A" 97, 2, 1, 2, 2, 3, 2, 1, 1, 2, 3, 2, 1, 5, 4, "Scenario A" 97, 1, 2, 2, 3, 2, 1, 5, 2, 1, 1, 1, 4, 3, 3, "Scenario B" 97, 2, 2, 1, 1, 2, 4,5,1,2,2,2,3,1,1,"Scenario B" 97, 1, 1, 3, 3, 1, 4, 1, 2, 2, 1, 2, 4, 3, 2,"Scenario A" $97,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ B" 97, 2, 2, 3, 1, 1, 1, 1, 1, 1, 1, 3, 3, 3, 4, "Scenario A" 97, 1, 2, 1, 2, 3, 2, 4, 2, 1, 2, 2, 2, 5, 3, "Scenario B" 97, 2, 2, 3, 3, 4, 3,5,2,1,2,1,3,5,2,"Scenario B" 97, 1, 2, 1, 1, 2, 4,5,2,1,3,3,4,2,4,"Scenario B" 97,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" $98,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o$ A" $98,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ B" 98, 1, 1, 1, 3, 1, 4, 5, 2, 2, 2, 2, 2, 3, 5, "Scenario B" 98, 2, 1, 2, 2, 1, 4, 1, 1, 2, 2, 1, 3, 1, 2,"Scenario A" 98, 1, 1, 3, 2, 2, 2, 3, 2, 2, 3, 3, 1, 2, 4, "Scenario B" $98,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o$ B" 98, 2, 1, 1, 2, 1, 4, 4, 1, 2, 3, 1, 3, 3, 5, "Scenario B" $98,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ A" 98, 1, 1, 2, 1, 4, 3, 5, 2, 1, 1, 2, 3, 5, 1,"Scenario A" 98, 1, 1, 3, 1, 1, 1, 2, 2, 2, 3, 3, 2, 4, 1,"Scenario B" $99,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" 99,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $99,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ A" 99,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 99,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" $99,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ B" 99,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" 99,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario A" 99, 2, 2, 3, 1, 2, 4, 2, 1, 1, 1, 2, 2, 2, 5, "Scenario A"

99, 2, 2, 1, 1, 3, 3, 4, 1, 1, 2, 3, 1, 3,5,"Scenario B" 100,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario B" 100, 1, 2, 3, 2, 1, 1, 4, 2, 1, 2, 3, 4, 5, 3, "Scenario A" 100, 2, 2, 1, 2, 3, 4, 2, 1, 1, 3, 1, 1, 4, 5,"Scenario A" 100,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 100,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 100,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 100, 2, 1, 1, 3, 1, 2, 1, 1, 2, 3, 2, 4, 3, 4, "Scenario A" 100, 1, 1, 3, 3, 1, 5, 2, 2, 2, 2, 1, 3, 1, 3, "Scenario A" $100,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o ~ A "$ 100, 1, 2, 2, 3, 1, 5, 4, 2, 1, 3, 2, 4, 2, 5, "Scenario A" 101,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" 101,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" 101,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 101,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario B" $101,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ A" $101,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" $101,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o ~ A "$ $101,2,2,3,3,4,3,5,2,1,2,1,3,5,2, "$ Scenario A" 101,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 101,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" 102,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" $102,2,1,3,1,2,5,4,1,2,1,3,4,2,1, "$ Scenario A" 102,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario A" 102,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 102, 1, 1, 3, 2, 2, 2, 3, 2, 2, 3, 3, 1, 2, 4, "Scenario A" $102,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o ~ A "$ $102,2,1,1,2,1,4,4,1,2,3,1,3,3,5$, Scenario A" $102,2,2,2,3,3,5,4,1,2,2,3,4,4,1, "$ Scenario B" 102,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 102,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 103,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 103, 1, 1, 2, 1, 2, 2, 3, 2, 2, 3, 2, 4, 1, 2, "Scenario B" 103, 2, 1, 3, 2, 3, 5, 5, 1, 2, 1, 3, 4, 4, 4, "Scenario A" 103,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 103,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 103,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 103, 1, 2, 1, 2, 1, 3, 4, 2, 1, 3, 3, 3,5,1,"Scenario A" 103,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario A" 103,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A" 103, 2, 2, 1, 1, 3, 3, 4, 1, 1, 2, 3, 1, 3, 5,"Scenario A" 104,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario B" $104,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o ~ A "$ 104, 2, 2, 1, 2, 3, 4, 2, 1, 1, 3, 1, 1, 4, 5, "Scenario A" 104,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A" 104,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 104,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 104,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 104, 1, 1, 3, 3, 1, 5, 2, 2, 2, 2, 1, 3, 1, 3, "Scenario A" 104, 1, 1, 2, 2, 3, 3, 3, 2, 2, 3, 1, 2, 4, 5, "Scenario A" 104, 1, 2, 2, 3, 1, 5, 4, 2, 1, 3, 2, 4, 2,5, "Scenario A" 105,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" 105,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" 105,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" $105,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o A "$ 105,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario A" $105,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A"

$105,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o A "$ $105,2,2,3,3,4,3,5,2,1,2,1,3,5,2, "$ Scenario A" 105,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 105,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" $445,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o ~ A "$ $445,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ B" $445,1,1,1,3,1,4,5,2,2,2,2,2,3,5, "$ Scenario B" $445,2,1,2,2,1,4,1,1,2,2,1,3,1,2, "$ Scenario B" 445,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" $445,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o B^{\prime \prime}$ $445,2,1,1,2,1,4,4,1,2,3,1,3,3,5, "$ Scenario B" $445,2,2,2,3,3,5,4,1,2,2,3,4,4,1, "$ Scenario B" $445,1,1,2,1,4,3,5,2,1,1,2,3,5,1, "$ Scenario A" 445,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario A" $478,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o ~ A "$ $478,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o$ B" $478,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario B" 478, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario A" $478,1,1,2,1,4,5,5,2,2,1,2,3,4,1, "$ Scenario B" $478,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ B" $478,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o ~ A "$ $478,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o B^{\prime}$ $478,2,2,3,1,2,4,2,1,1,1,2,2,2,5, "$ Scenario A" $478,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario A" $444,1,1,3,3,3,1,2,1,2,2,3,2,2,5, "$ Scenario A" $444,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ A" $444,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ A" $444,1,2,1,1,3,2,1,2,1,1,2,4,3,1, "$ Scenario A" $444,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o ~ A "$ $444,2,1,2,1,2,1,4,1,1,1,3,2,5,2, "$ Scenario A" $444,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o ~ A "$ $444,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o$ A" $444,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o ~ A "$ $444,1,2,2,3,1,5,4,2,1,3,2,4,2,5, "$ Scenario B" $442,2,1,2,2,3,2,1,1,2,3,2,1,5,4, "$ Scenario A" 442,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" $442,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o ~ B "$ $442,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o$ B" $442,2,1,2,1,4,2,3,1,1,3,3,1,5,3, "$ Scenario A" $442,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" $442,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o ~ A "$ $442,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o$ A" $442,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o$ B" $442,1,1,2,2,2,1,1,2,2,3,1,1,1,2, "$ Scenario A" $452,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o ~ A "$ 452,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 452,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" $452,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o ~ A "$ 452,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario A" $452,2,1,1,1,4,1,2,1,2,3,2,2,5,3, "$ Scenario A" $452,2,1,1,2,1,4,4,1,2,3,1,3,3,5, "$ Scenario A" $452,2,2,2,3,3,5,4,1,2,2,3,4,4,1, "$ Scenario B" 452,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" $452,1,1,3,1,1,1,2,2,2,3,3,2,4,1, " S c e n a r i o$ B" $262,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" 262,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $262,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario B"

262,1,2,3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario A" 262,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 262,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 262,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $262,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ B" $262,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ $262,2,2,1,1,3,3,4,1,1,2,3,1,3,5$, Scenario A" $464,1,1,3,3,3,1,2,1,2,2,3,2,2,5$, Scenario A" $464,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ A" $464,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ B" $464,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ B" $464,1,2,2,2,2,3,2,2,2,3,1,4,5,1, "$ Scenario B" $464,2,1,2,1,2,1,4,1,1,1,3,2,5,2, "$ Scenario B" $464,2,1,1,3,1,2,1,1,2,3,2,4,3,4, "$ Scenario B" $464,1,1,2,2,3,3,3,2,2,3,1,2,4,5, "$ Scenario B" $464,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o ~ A "$ $271,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o ~ A "$ 271,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" 271,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 271, 1, 1, 3, 3, 1, 4, 1, 2, 2, 1, 2, 4, 3, 2, "Scenario A" $271,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ B" $271,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" 271,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" $271,2,2,3,3,4,3,5,2,1,2,1,3,5,2, "$ Scenario B" 271,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 271,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" 259,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 259,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 259, 1, 1, 1, 3, 1, 4, 5, 2, 2, 2, 2, 2, 3, 5, "Scenario A" 259,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 259,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" 259,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" 259, 2, 1, 1, 2, 1, 4, 4, 1, 2, 3, 1, 3, 3,5,"Scenario B" 259,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B" 259,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 259,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $265,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o ~ A "$ 265,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $265,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario B" 265,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario B" 265,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario A" $265,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o ~ A "$ 265,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $265,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ B" 265,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A" $265,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ A" 287,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A" 287,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" 287,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario B" 287,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 287,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 287,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 287,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 287,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" 287,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario B" 287,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario B" $459,2,1,2,2,3,2,1,1,2,3,2,1,5,4, "$ Scenario B"

459,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" 459,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 459,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario A" 459,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B" 459, 2, 2, 3, 1, 1, 1, 1, 1, 1, 1, 3, 3, 3, 4, "Scenario A" 459,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" $459,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o ~ A "$ 459,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 459,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" $288,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o ~ A "$ $288,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ B" 288, 1, 1, 1, 3, 1, 4, 5, 2, 2, 2, 2, 2, 3, 5, "Scenario A" 288, 2, 1, 2, 2, 1, 4, 1, 1, 2, 2, 1, 3, 1, 2, "Scenario A" 288, 1, 1, 3, 2, 2, 2, 3, 2, 2, 3, 3, 1, 2, 4, "Scenario A" $288,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o ~ A "$ $288,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o$ A" $288,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o ~ B "$ $288,1,1,2,1,4,3,5,2,1,1,2,3,5,1, " S c e n a r i o$ B" 288, 1, 1, 3, 1, 1, 1, 2, 2, 2, 3, 3, 2, 4, 1,"Scenario B" 266,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 266,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $266,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ A" 266,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 266,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 266,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 266,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $266,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ B" $266,2,2,3,1,2,4,2,1,1,1,2,2,2,5$, Scenario A" 266,2,2,1,1,3,3,4,1,1,2,3,1,3,5,"Scenario A" $260,1,1,3,3,3,1,2,1,2,2,3,2,2,5$, Scenario A" $260,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o ~ B "$ $260,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o ~ A "$ $260,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o ~ A "$ 260,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 260,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 260,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario B" $260,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o ~ A "$ $260,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o$ A" 260, 1, 2, 2, 3, 1, 5, 4, 2, 1, 3, 2, 4, 2, 5, "Scenario A" $418,2,1,2,2,3,2,1,1,2,3,2,1,5,4, "$ Scenario B" 418,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" $418,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o ~ A "$ $418,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o$ A" $418,2,1,2,1,4,2,3,1,1,3,3,1,5,3, "$ Scenario B" $418,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" 418,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" $418,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o B^{\prime \prime}$ $418,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o$ B" 418,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" $460,1,2,2,2,4,3,2,1,1,1,3,3,4,3, "$ Scenario A" $460,2,1,3,1,2,5,4,1,2,1,3,4,2,1, "$ Scenario B" 460,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 460,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" $460,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o$ A" $460,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o ~ A "$ $460,2,1,1,2,1,4,4,1,2,3,1,3,3,5, "$ Scenario B" $460,2,2,2,3,3,5,4,1,2,2,3,4,4,1, "$ Scenario B"

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263,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B"
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264,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B"
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$261,2,2,2,3,3,5,4,1,2,2,3,4,4,1, "$ Scenario B"
$261,1,1,2,1,4,3,5,2,1,1,2,3,5,1, " S c e n a r i o B^{\prime \prime}$
261,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B"
$285,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o ~ A "$
285,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B"
$285,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario A"
285,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A"
285,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario A"
$285,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ A"
$285,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o$ B"
$285,2,2,3,2,1,1,5,1,1,2,3,4,2,2, "$ Scenario A"
285,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A"
285,2,2,1,1,3,3,4,1,1,2,3,1,3,5,"Scenario B"
$296,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o ~ A "$
$296,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ A"
$296,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ B"
296,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B"
296,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B"

$296,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o B "$ 296, 2, 1, 1, 3, 1, 2, 1, 1, 2, 3, 2, 4, 3, 4, "Scenario A" 296,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" 296,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario B" $296,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o ~ A "$ $293,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o ~ A "$ 293, 1, 2, 2, 3, 2, 1, 5, 2, 1, 1, 1, 4, 3, 3, "Scenario A" 293,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 293, 1, 1, 3, 3, 1, 4, 1, 2, 2, 1, 2, 4, 3, 2, "Scenario A" 293,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario A" 293,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario B" 293,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario A" 293,2,2,3,3,4,3,5,2,1,2,1,3,5,2,"Scenario B" 293, 1, 2, 1, 1, 2, 4, 5, 2, 1, 3, 3, 4, 2, 4, "Scenario A" 293,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" 286,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" $286,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ B" 286,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario A" 286,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 286,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario A" $286,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o$ B" $286,2,1,1,2,1,4,4,1,2,3,1,3,3,5$, Scenario A" $286,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ B" 286,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 286,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $394,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o A "$ 394,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $394,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario $B^{\prime \prime}$ 394,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 394, 1, 1, 2, 1, 4, 5, 5, 2, 2, 1, 2, 3, 4, 1,"Scenario A" $394,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o ~ A "$ 394,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $394,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ A" 394,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A" 394,2,2,1,1,3,3,4,1,1,2,3,1,3,5,"Scenario B" 396,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario B" $396,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o ~ A "$ $396,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ B" 396,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A" $396,1,2,2,2,2,3,2,2,2,3,1,4,5,1, "$ Scenario A" 396,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 396,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 396,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" $396,1,1,2,2,3,3,3,2,2,3,1,2,4,5, "$ Scenario A" 396,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario A" $498,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o$ A" 498,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" $498,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o ~ A "$ 498, 1, 1, 3, 3, 1, 4, 1, 2, 2, 1, 2, 4, 3, 2, "Scenario B" $498,2,1,2,1,4,2,3,1,1,3,3,1,5,3, "$ Scenario B" $498,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario B" $498,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o ~ A "$ $498,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o$ B" $498,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o$ A" 498, 1, 1, 2, 2, 2, 1, 1, 2, 2, 3, 1, 1, 1, 2, "Scenario B" 294, 1, 2, 2, 2, 4, 3, 2, 1, 1, 1, 3, 3, 4, 3, "Scenario A" $294,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ A"

294, 1, 1, 1, 3, 1, 4, 5, 2, 2, 2, 2, 2, 3, 5, "Scenario B" 294,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 294,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" $294,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o$ A" $294,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o ~ A "$ $294,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ A" 294,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario A" 294,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 432,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario B" $432,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o B^{\prime}$ $432,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario A" $432,1,2,3,3,1,4,3,2,1,1,1,2,1,4, " S c e n a r i o$ A" $432,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o$ B" 432,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" $432,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o$ B" $432,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o ~ A "$ $432,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ $432,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario B" 393,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario B" 393,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" 393,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario A" 393,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 393,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 393,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario A" 393,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 393,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" 393,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario B" 393,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario A" $500,2,1,2,2,3,2,1,1,2,3,2,1,5,4, "$ Scenario A" 500, 1, 2, 2, 3, 2, 1, 5, 2, 1, 1, 1, 4, 3, 3, "Scenario A" 500,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 500, 1, 1, 3, 3, 1, 4, 1, 2, 2, 1, 2, 4, 3, 2, "Scenario A" $500,2,1,2,1,4,2,3,1,1,3,3,1,5,3, "$ Scenario B" $500,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" 500, 1, 2, 1, 2, 3, 2, 4, 2, 1, 2, 2, 2, 5, 3, "Scenario B" $500,2,2,3,3,4,3,5,2,1,2,1,3,5,2, "$ Scenario B" 500, 1, 2, 1, 1, 2, 4, 5, 2, 1, 3, 3, 4, 2, 4, "Scenario A" 500,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" 429,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 429,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario A" 429,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario A" 429,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 429,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" 429,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario A" 429,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" 429, 2, 2, 2, 3, 3, 5, 4, 1, 2, 2, 3, 4, 4, 1, "Scenario A" 429,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario A" 429,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario A" 398,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario B" $398,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o ~ A "$ $398,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario A" 398, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario A" 398,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" $398,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ A" $398,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o$ A" $398,2,2,3,2,1,1,5,1,1,2,3,4,2,2, "$ Scenario B" $398,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o$ B"


398, 2, 2, 1, 1, 3, 3, 4, 1, 1, 2, 3, 1, 3, 5, "Scenario A" $400,1,1,3,3,3,1,2,1,2,2,3,2,2,5, "$ Scenario A" $400,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ A" 400,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario B" $400,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o ~ A "$ $400,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o$ A" $400,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ A" $400,2,1,1,3,1,2,1,1,2,3,2,4,3,4, "$ Scenario A" 400,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" $400,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o ~ A "$ $400,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" $430,2,1,2,2,3,2,1,1,2,3,2,1,5,4$, Scenario A" $430,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o$ A" $430,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ B" $430,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o ~ A "$ 430,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B" $430,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario B" 430,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario A" $430,2,2,3,3,4,3,5,2,1,2,1,3,5,2, "$ Scenario A" 430, 1, 2, 1, 1, 2, 4,5,2,1,3,3,4,2,4,"Scenario A" 430,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" 499,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario B" 499,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 499,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario A" 499,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario B" 499, 1, 1, 3, 2, 2, 2, 3, 2, 2, 3, 3, 1, 2, 4, "Scenario A" 499,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" 499,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B" $499,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o ~ B "$ 499, 1, 1, 2, 1, 4, 3, 5, 2, 1, 1, 2, 3, 5, 1, "Scenario A" 499,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario A" $402,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o ~ A "$ $402,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o ~ B "$ $402,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario A" 402,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 402,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" $402,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o ~ A "$ $402,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o$ B" $402,2,2,3,2,1,1,5,1,1,2,3,4,2,2, "$ Scenario B" 402,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario B" $402,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ A" $431,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o$ B" 431,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" 431,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario B" 431,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 431,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" 431,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 431,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario B" $431,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o$ A" $431,1,1,2,2,3,3,3,2,2,3,1,2,4,5, "$ Scenario B" 431,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario B" 399,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario B" 399,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" 399,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 399, 1, 1, 3, 3, 1, 4, 1, 2, 2, 1, 2, 4, 3, 2, "Scenario A" 399,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario A" 399,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario B"

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399,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" 399,2,2,3,3,4,3,5,2,1,2,1,3,5,2,"Scenario A" 399,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 399,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" $22,1,2,2,2,4,3,2,1,1,1,3,3,4,3$, Scenario A" $22,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ B" 22,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario A" $22,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o$ A" 22,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" $22,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o ~ A "$ $22,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o$ A" $22,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ B" $22,1,1,2,1,4,3,5,2,1,1,2,3,5,1, "$ Scenario A" $22,1,1,3,1,1,1,2,2,2,3,3,2,4,1, " S c e n a r i o$ B" $25,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" $25,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o$ A" $25,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o ~ A "$ $25,1,2,3,3,1,4,3,2,1,1,1,2,1,4, " S c e n a r i o$ A" 25,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario A" $25,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ A" $25,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o$ A" $25,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o ~ A "$ $25,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o$ A" $25,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario A" $21,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o$ A" $21,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ A" $21,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o ~ B "$ $21,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ A" $21,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o$ B" $21,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ A" $21,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o$ B" $21,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o ~ A "$ $21,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o ~ B "$ $21,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o B^{\prime \prime}$ $24,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o$ A" $24,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o$ A" $24,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o ~ A "$ $24,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o ~ B "$ $24,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ A" $24,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" $24,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o ~ B "$ $24,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o$ A" $24,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o$ B" $24,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o$ A" $23,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o$ A" 23, 2, 1, 3, 1, 2, 5, 4, 1, 2, 1, 3, 4, 2, 1,"Scenario B" $23,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o$ A" $23,2,1,2,2,1,4,1,1,2,2,1,3,1,2, "$ Scenario A" $23,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o ~ A "$ $23,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o$ A" $23,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ B" 23, 1, 1, 2, 1, 4, 3, 5, 2, 1, 1, 2, 3, 5, 1, "Scenario A" $23,1,1,3,1,1,1,2,2,2,3,3,2,4,1, " S c e n a r i o ~ A "$ $116,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" $116,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o ~ B "$ $116,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario B" $116,1,2,3,3,1,4,3,2,1,1,1,2,1,4, " S c e n a r i o$ A"

$116,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o A^{\prime}$ 116,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 116,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" 116,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario B" $116,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ $116,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario B" 117,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario B" 117,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" 117,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario B" 117, 1, 2, 1, 1, 3, 2, 1, 2, 1, 1, 2, 4, 3, 1,"Scenario A" 117,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" 117,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario A" 117,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 117,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" 117,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario B" 117,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario A" 118,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario B" $118,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o$ B" 118,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 118,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario B" $118,2,1,2,1,4,2,3,1,1,3,3,1,5,3, "$ Scenario B" $118,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario B" $118,1,2,1,2,3,2,4,2,1,2,2,2,5,3, "$ Scenario $B^{\prime}$ $118,2,2,3,3,4,3,5,2,1,2,1,3,5,2$, "Scenario B" 118, 1, 2, 1, 1, 2, 4,5,2,1,3,3,4,2,4,"Scenario B" 118, 1, 1, 2, 2, 2, 1, 1, 2, 2, 3, 1, 1, 1, 2, "Scenario A" 119,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 119,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 119,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 119,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 119,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" 119,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" 119,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B" 119, 2, 2, 2, 3, 3, 5, 4, 1, 2, 2, 3, 4, 4, 1,"Scenario A" 119,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario A" 119,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 120, 2, 1, 2, 3, 1, 3, 1, 1, 2, 1, 1, 1, 2, 2, "Scenario A" 120,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $120,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario B" 120, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario A" 120, 1, 1, 2, 1, 4, 5, 5, 2, 2, 1, 2, 3, 4, 1,"Scenario B" 120,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 120,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $120,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ B" $120,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ $120,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario A" $121,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o ~ A "$ 121,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" 121,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario A" 121,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 121,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 121,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 121,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" $121,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o$ A" $121,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o$ A" 121,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario B" 122,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario B"
$122,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o B "$ 122,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario A" 122, 1, 1, 3, 3, 1, 4, 1, 2, 2, 1, 2, 4, 3, 2, "Scenario A" 122, 2, 1, 2, 1, 4, 2, 3, 1, 1, 3, 3, 1, 5, 3, "Scenario A" $122,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" $122,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o ~ A "$ $122,2,2,3,3,4,3,5,2,1,2,1,3,5,2, "$ Scenario A" 122,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 122,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" 123, 1, 2, 2, 2, 4, 3, 2, 1, 1, 1, 3, 3, 4, 3, "Scenario A" 123,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 123,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 123,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 123,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario A" 123,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario A" $123,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o ~ A "$ 123, 2, 2, 2, 3, 3, 5, 4, 1, 2, 2, 3, 4, 4, 1,"Scenario B" 123,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 123, 1, 1, 3, 1, 1, 1, 2, 2, 2, 3, 3, 2, 4, 1,"Scenario B" 124,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 124,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $124,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario B" 124,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 124,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 124,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 124,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $124,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ A" $124,2,2,3,1,2,4,2,1,1,1,2,2,2,5, "$ Scenario A" $124,2,2,1,1,3,3,4,1,1,2,3,1,3,5$, Scenario A" 125, 1, 1, 3, 3, 3, 1, 2, 1, 2, 2, 3, 2, 2, 5, "Scenario B" 125,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" $125,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o ~ B "$ 125,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 125,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 125,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 125,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario B" 125,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario B" 125,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario B" $125,1,2,2,3,1,5,4,2,1,3,2,4,2,5, "$ Scenario B" $126,2,1,2,2,3,2,1,1,2,3,2,1,5,4, "$ Scenario A" 126,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" 126,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" $126,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o ~ B "$ $126,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ A" 126,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario A" 126, 1, 2, 1, 2, 3, 2, 4, 2, 1, 2, 2, 2, 5, 3, "Scenario A" $126,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o$ A" $126,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o$ A" $126,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o ~ A "$ 127,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 127,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 127,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 127,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario B" 127,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" 127,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" 127,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B" 127,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B"

127,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario A" 127,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 128,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario B" 128,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $128,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ A" $128,1,2,3,3,1,4,3,2,1,1,1,2,1,4, " S c e n a r i o$ A" 128, 1, 1, 2, 1, 4, 5, 5, 2, 2, 1, 2, 3, 4, 1, "Scenario A" 128,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 128, 1, 2, 1, 2, 1, 3, 4, 2, 1, 3, 3, 3, 5, 1, "Scenario A" $128,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o ~ A "$ $128,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ $128,2,2,1,1,3,3,4,1,1,2,3,1,3,5$, Scenario A" 129,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A" 129,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" 129,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario A" 129,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A" 129,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 129,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 129,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 129,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" 129,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario A" 129,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario A" $130,2,1,2,2,3,2,1,1,2,3,2,1,5,4, "$ Scenario B" 130,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" 130,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario A" 130,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario B" $130,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ A" $130,2,2,3,1,1,1,1,1,1,1,3,3,3,4$, Scenario A" 130, 1, 2, 1, 2, 3, 2, 4, 2, 1, 2, 2, 2, 5, 3, "Scenario A" $130,2,2,3,3,4,3,5,2,1,2,1,3,5,2$, "Scenario B" $130,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o ~ A "$ $130,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o ~ A "$ 131,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 131,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 131,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 131,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario B" 131,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" 131,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" $131,2,1,1,2,1,4,4,1,2,3,1,3,3,5, "$ Scenario A" $131,2,2,2,3,3,5,4,1,2,2,3,4,4,1, "$ Scenario A" 131,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario A" 131,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 132,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 132,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" 132,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario B" 132,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 132,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" $132,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o ~ B "$ 132,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" $132,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ B" $132,2,2,3,1,2,4,2,1,1,1,2,2,2,5, "$ Scenario A" $132,2,2,1,1,3,3,4,1,1,2,3,1,3,5$, Scenario A" $133,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o ~ A "$ 133,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" 133,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario B" 133,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 133, 1, 2, 2, 2, 2, 3, 2, 2, 2, 3, 1, 4, 5, 1,"Scenario A"

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133, 2, 1, 2, 1, 2, 1, 4, 1, 1, 1, 3, 2, 5, 2, "Scenario B" 133,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 133, 1, 1, 3, 3, 1, 5, 2, 2, 2, 2, 1, 3, 1, 3, "Scenario A" 133, 1, 1, 2, 2, 3, 3, 3, 2, 2, 3, 1, 2, 4, 5, "Scenario A" 133,1,2,2,3,1,5,4,2,1,3,2,4,2,5,"Scenario B" $134,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o ~ A "$ 134, 1, 2, 2, 3, 2, 1, 5, 2, 1, 1, 1, 4, 3, 3, "Scenario A" 134,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 134,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario A" 134,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario A" 134,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario A" 134,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" $134,2,2,3,3,4,3,5,2,1,2,1,3,5,2, "$ Scenario B" 134,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario A" 134,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" 135,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 135,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B" 135,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 135,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario B" 135,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" $135,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o ~ A "$ 135,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" $135,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ B" 135,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 135,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario A" $136,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" $136,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o$ B" $136,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario $B^{\prime \prime}$ 136,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario B" 136,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" $136,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o ~ B "$ $136,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o$ B" $136,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ B" $136,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o$ B" $136,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario A" 137,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario B" 137,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" 137,2,2,1,2,3,4,2,1,1,3,1,1,4,5,"Scenario A" 137,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario A" 137,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" 137,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario A" 137,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario A" 137,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" 137,1,1,2,2,3,3,3,2,2,3,1,2,4,5,"Scenario A" 137, 1, 2, 2, 3, 1, 5, 4, 2, 1, 3, 2, 4, 2, 5, "Scenario A" 138, 2, 1, 2, 2, 3, 2, 1, 1, 2, 3, 2, 1, 5, 4, "Scenario A" 138, 1, 2, 2, 3, 2, 1, 5, 2, 1, 1, 1, 4, 3, 3, "Scenario A" $138,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o ~ A "$ $138,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o ~ A "$ $138,2,1,2,1,4,2,3,1,1,3,3,1,5,3, "$ Scenario A" $138,2,2,3,1,1,1,1,1,1,1,3,3,3,4$, Scenario A" 138, 1, 2, 1, 2, 3, 2, 4, 2, 1, 2, 2, 2, 5, 3, "Scenario A" $138,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o ~ A "$ $138,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o$ A" $138,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o ~ A "$ 139,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 139,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario B"

139,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 139,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 139,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario A" 139,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario A" 139, 2, 1, 1, 2, 1, 4, 4, 1, 2, 3, 1, 3, 3,5,"Scenario A" 139, 2, 2, 2, 3, 3, 5, 4, 1, 2, 2, 3, 4, 4, 1,"Scenario B" 139,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 139,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 140, 2, 1, 2, 3, 1, 3, 1, 1, 2, 1, 1, 1, 2, 2, "Scenario A" $140,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o ~ A "$ $140,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario A" 140, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario A" 140, 1, 1, 2, 1, 4, 5,5,2,2,1,2,3,4,1,"Scenario B" 140, 2, 1, 2, 3, 1, 1, 3, 1, 2, 2, 1, 2, 3, 1,"Scenario A" 140,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario A" $140,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o ~ A "$ $140,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ $140,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario B" $374,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o \mathrm{~A} "$ $374,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ A" $374,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ B" $374,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ A" $374,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o ~ A "$ 374,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario A" $374,2,1,1,3,1,2,1,1,2,3,2,4,3,4, "$ Scenario B" $374,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o$ B" $374,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o ~ A "$ $374,1,2,2,3,1,5,4,2,1,3,2,4,2,5$, Scenario A" $372,2,1,2,2,3,2,1,1,2,3,2,1,5,4, "$ Scenario A" 372,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" $372,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o ~ A "$ $372,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o ~ A "$ $372,2,1,2,1,4,2,3,1,1,3,3,1,5,3, "$ Scenario B" 372,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario B" 372,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario A" $372,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o$ A" $372,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o$ A" $372,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o$ A" $342,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o$ A" $342,2,1,3,1,2,5,4,1,2,1,3,4,2,1, "$ Scenario A" 342,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario A" 342,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario B" 342,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" $342,2,1,1,1,4,1,2,1,2,3,2,2,5,3, "$ Scenario $\mathrm{B}^{\prime}$ $342,2,1,1,2,1,4,4,1,2,3,1,3,3,5, "$ Scenario A" $342,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ A" 342,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" 342,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" $367,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" 367,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario A" 367,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario B" 367,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario B" 367,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" $367,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ B" 367,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario A" 367,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario A" 367,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario B"

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$367,2,2,1,1,3,3,4,1,1,2,3,1,3,5$, Scenario A"
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$67,1,1,1,3,1,4,5,2,2,2,2,2,3,5, "$ Scenario B"
$67,2,1,2,2,1,4,1,1,2,2,1,3,1,2, "$ Scenario B"
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$64,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o ~ B "$
$64,1,2,1,2,1,3,4,2,1,3,3,3,5,1, "$ Scenario A"
$64,2,2,3,2,1,1,5,1,1,2,3,4,2,2, "$ Scenario B"
$64,2,2,3,1,2,4,2,1,1,1,2,2,2,5, "$ Scenario B"
$64,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario A"
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$6,1,2,3,2,1,1,4,2,1,2,3,4,5,3, "$ Scenario B"
$6,2,2,1,2,3,4,2,1,1,3,1,1,4,5, "$ Scenario A"
$6,1,2,1,1,3,2,1,2,1,1,2,4,3,1, "$ Scenario A"
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$6,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o ~ B "$
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$6,1,1,3,3,1,5,2,2,2,2,1,3,1,3, "$ Scenario A"
$6,1,1,2,2,3,3,3,2,2,3,1,2,4,5$, "Scenario A"
$6,1,2,2,3,1,5,4,2,1,3,2,4,2,5$, Scenario A"
$10,2,1,2,2,3,2,1,1,2,3,2,1,5,4, "$ Scenario B"
$10,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o$ A"
$10,2,2,1,1,2,4,5,1,2,2,2,3,1,1, "$ Scenario A"
$10,1,1,3,3,1,4,1,2,2,1,2,4,3,2, "$ Scenario A"
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$10,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o ~ A "$
$10,2,1,2,1,4,2,3,1,1,3,3,1,5,3, "$ Scenario $B "$
$10,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o ~ A "$


$10,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o ~ B "$ $10,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o$ B" $10,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o$ A" 10, 1, 1, 2, 2, 2, 1, 1, 2, 2, 3, 1, 1, 1, 2,"Scenario B" 8, 1, 2, 2, 2, 4, 3, 2, 1, 1, 1, 3, 3, 4, 3, "Scenario B" $8,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o ~ A "$ 8, 1, 1, 1, 3, 1, 4, 5, 2, 2, 2, 2, 2, 3,5, "Scenario A" 8, 2, 1, 2, 2, 1, 4, 1, 1, 2, 2, 1, 3, 1, 2, "Scenario A" 8, 1, 1, 3, 2, 2, 2, 3, 2, 2, 3, 3, 1, 2, 4, "Scenario B" 8, 2, 1, 1, 1, 4, 1, 2, 1, 2, 3, 2, 2, 5, 3, "Scenario B" $8,2,1,1,2,1,4,4,1,2,3,1,3,3,5, " S c e n a r i o$ A" 8, 2, 2, 2, 3, 3, 5, 4, 1, 2, 2, 3, 4, 4, 1, "Scenario A" 8, 1, 1, 2, 1, 4, 3,5,2,1,1,2,3,5,1,"Scenario B" 8, 1, 1, 3, 1, 1, 1, 2, 2, 2, 3, 3, 2, 4, 1, "Scenario A" $9,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" $9,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o$ A" $9,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ A" $9,1,2,3,3,1,4,3,2,1,1,1,2,1,4$, Scenario A" 9,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 9, 2, 1, 2, 3, 1, 1, 3, 1, 2, 2, 1, 2, 3, 1, "Scenario A" $9,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o$ A" $9,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ A" $9,2,2,3,1,2,4,2,1,1,1,2,2,2,5$, Scenario A" $9,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ B" $5,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o$ A" 5,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" $5,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ A" $5,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o ~ A "$ $5,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o$ B" $5,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ B" 5, 2, 1, 1, 3, 1, 2, 1, 1, 2, 3, 2, 4, 3, 4, "Scenario A" $5,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o$ A" $5,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o$ A" $5,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" 65,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" 65,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" $65,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o ~ B "$ $65,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o ~ A "$ $65,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ A" $65,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" $65,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o ~ B "$ 65,2,2,3,3,4,3,5,2,1,2,1,3,5,2,"Scenario B" $65,1,2,1,1,2,4,5,2,1,3,3,4,2,4, "$ Scenario B" $65,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o ~ A "$ $66,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o$ A" $66,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ B" 66,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" $66,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o ~ A "$ $66,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o$ A" $66,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o$ A" $66,2,1,1,2,1,4,4,1,2,3,1,3,3,5$, SScenario A" $66,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ B" $66,1,1,2,1,4,3,5,2,1,1,2,3,5,1, " S c e n a r i o B^{\prime \prime}$ $66,1,1,3,1,1,1,2,2,2,3,3,2,4,1, " S c e n a r i o ~ B "$ $395,2,1,2,3,1,3,1,1,2,1,1,1,2,2, "$ Scenario B" 395,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" $395,2,1,3,2,3,5,5,1,2,1,3,4,4,4, " S c e n a r i o$ A"


395, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4, "Scenario A" 395,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario A" 395,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario A" 395,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario B" 395,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario A" $395,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ 395,2,2,1,1,3,3,4,1,1,2,3,1,3,5,"Scenario B" $181,1,1,3,3,3,1,2,1,2,2,3,2,2,5, "$ Scenario A" $181,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ A" $181,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ A" $181,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o ~ A "$ 181,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" 181,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" 181,2,1,1,3,1,2,1,1,2,3,2,4,3,4,"Scenario B" $181,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o ~ A "$ $181,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o$ B" $181,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o ~ A "$ 177,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" 177,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" 177,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 177,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario A" $177,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ B" 177,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario A" 177,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" 177,2,2,3,3,4,3,5,2,1,2,1,3,5,2,"Scenario B" 177,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario A" 177,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" 397,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 397,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario A" 397,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 397,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 397,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario A" 397,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" 397,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" 397,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B" 397,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario A" 397,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario A" $179,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ A" 179,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario B" 179,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario B" 179,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario B" 179,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 179,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario A" 179, 1, 2, 1, 2, 1, 3, 4, 2, 1, 3, 3, 3,5, 1,"Scenario A" 179,2,2,3,2,1,1,5,1,1,2,3,4,2,2,"Scenario B" 179,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario B" $179,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ A" 82,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A" $82,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ B" 82, 2, 2, 1, 2, 3, 4, 2, 1, 1, 3, 1, 1, 4, 5, "Scenario A" 82,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" 82,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario B" 82,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" $82,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o$ A" $82,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o$ A" 82, 1, 1, 2, 2, 3, 3, 3, 2, 2, 3, 1, 2, 4, 5, "Scenario A" $82,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A"

239,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario B" 239,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" 239, 2, 2, 1, 1, 2, 4, 5, 1, 2, 2, 2, 3, 1, 1,"Scenario A" 239,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario A" 239,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B" $239,2,2,3,1,1,1,1,1,1,1,3,3,3,4, " S c e n a r i o$ A" 239,1,2,1,2,3,2,4,2,1,2,2,2,5,3,"Scenario B" 239,2,2,3,3,4,3,5,2,1,2,1,3,5,2,"Scenario B" 239,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario A" 239,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" 83,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 83, 2, 1, 3, 1, 2, 5, 4, 1, 2, 1, 3, 4, 2, 1, "Scenario A" 83, 1, 1, 1, 3, 1, 4, 5, 2, 2, 2, 2, 2, 3,5,"Scenario B" 83,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 83, 1, 1, 3, 2, 2, 2, 3, 2, 2, 3, 3, 1, 2, 4,"Scenario A" 83,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario A" 83,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario A" $83,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ B" 83, 1, 1, 2, 1, 4, 3, 5, 2, 1, 1, 2, 3, 5, 1,"Scenario B" 83,1,1,3,1,1,1,2,2,2,3,3,2,4,1,"Scenario B" 267,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A" 267,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario A" $267,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario A" 267,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 267,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" 267,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario A" 267,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario A" $267,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o ~ A "$ $267,2,2,3,1,2,4,2,1,1,1,2,2,2,5, " S c e n a r i o ~ A "$ $267,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "$ Scenario B" $240,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o ~ B "$ 240,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario A" $240,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ B" $240,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ A" 240,1,2,2,2,2,3,2,2,2,3,1,4,5,1,"Scenario A" 240,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario A" $240,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o ~ A "$ $240,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o$ A" $240,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o ~ B "$ $240,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" 84,2,1,2,2,3,2,1,1,2,3,2,1,5,4,"Scenario A" 84,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario B" $84,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ A" $84,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o$ A" 84,2,1,2,1,4,2,3,1,1,3,3,1,5,3,"Scenario B" 84,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario B" 84, 1, 2, 1, 2, 3, 2, 4, 2, 1, 2, 2, 2, 5, 3, "Scenario A" $84,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o ~ A "$ $84,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o$ A" 84, 1, 1, 2, 2, 2, 1, 1, 2, 2, 3, 1, 1, 1, 2, "Scenario A" 269,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" 269,2,1,3,1,2,5,4,1,2,1,3,4,2,1,"Scenario A" 269,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario A" 269,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" 269,1,1,3,2,2,2,3,2,2,3,3,1,2,4,"Scenario B" 269,2,1,1,1,4,1,2,1,2,3,2,2,5,3,"Scenario B" 269,2,1,1,2,1,4,4,1,2,3,1,3,3,5,"Scenario B"


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269,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B"

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269,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B"
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114,2,2,3,1,2,4,2,1,1,1,2,2,2,5,"Scenario A" 114,2,2,1,1,3,3,4,1,1,2,3,1,3,5, "Scenario A" 115,1,1,3,3,3,1,2,1,2,2,3,2,2,5,"Scenario A" 115,1,2,3,2,1,1,4,2,1,2,3,4,5,3,"Scenario B" $115,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ A" $115,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o$ A" 115, 1, 2, 2, 2, 2, 3, 2, 2, 2, 3, 1, 4, 5, 1, "Scenario A" 115,2,1,2,1,2,1,4,1,1,1,3,2,5,2,"Scenario B" $115,2,1,1,3,1,2,1,1,2,3,2,4,3,4, "$ Scenario A" 115,1,1,3,3,1,5,2,2,2,2,1,3,1,3,"Scenario A" $115,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o ~ A "$ $115,1,2,2,3,1,5,4,2,1,3,2,4,2,5, "$ Scenario A" $31,2,1,2,2,3,2,1,1,2,3,2,1,5,4, "$ Scenario B" 31,1,2,2,3,2,1,5,2,1,1,1,4,3,3,"Scenario A" $31,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o ~ A "$ $31,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o ~ A "$ $31,2,1,2,1,4,2,3,1,1,3,3,1,5,3, " S c e n a r i o$ B" $31,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" $31,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o$ B" $31,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o$ A" $31,1,2,1,1,2,4,5,2,1,3,3,4,2,4, "$ Scenario A" $31,1,1,2,2,2,1,1,2,2,3,1,1,1,2, " S c e n a r i o$ B" $30,1,2,2,2,4,3,2,1,1,1,3,3,4,3, " S c e n a r i o$ A" $30,2,1,3,1,2,5,4,1,2,1,3,4,2,1, " S c e n a r i o$ A" $30,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o$ B" $30,2,1,2,2,1,4,1,1,2,2,1,3,1,2, " S c e n a r i o$ A" $30,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o ~ B "$ $30,2,1,1,1,4,1,2,1,2,3,2,2,5,3, " S c e n a r i o ~ B "$ $30,2,1,1,2,1,4,4,1,2,3,1,3,3,5, "$ Scenario B" $30,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ A" $30,1,1,2,1,4,3,5,2,1,1,2,3,5,1, " S c e n a r i o$ B" $30,1,1,3,1,1,1,2,2,2,3,3,2,4,1, " S c e n a r i o$ B" $462,2,1,2,3,1,3,1,1,2,1,1,1,2,2, " S c e n a r i o$ B" $462,1,1,2,1,2,2,3,2,2,3,2,4,1,2, " S c e n a r i o ~ A "$ $462,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario A" 462,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" $462,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o$ B" $462,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o$ A" $462,1,2,1,2,1,3,4,2,1,3,3,3,5,1, " S c e n a r i o$ B" $462,2,2,3,2,1,1,5,1,1,2,3,4,2,2, "$ Scenario B" $462,2,2,3,1,2,4,2,1,1,1,2,2,2,5, "$ Scenario A" $462,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ A" $424,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o ~ B "$ $424,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o ~ A "$ $424,2,2,1,2,3,4,2,1,1,3,1,1,4,5, "$ Scenario B" 424,1,2,1,1,3,2,1,2,1,1,2,4,3,1,"Scenario B" $424,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o$ A" $424,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o ~ A "$ $424,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o$ A" $424,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o$ B" $424,1,1,2,2,3,3,3,2,2,3,1,2,4,5, "$ Scenario A" $424,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o B^{\prime \prime}$ $28,2,1,2,2,3,2,1,1,2,3,2,1,5,4, " S c e n a r i o$ B" $28,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o$ A" $28,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ B" 28, 1, 1, 3, 3, 1, 4, 1, 2, 2, 1, 2, 4, 3, 2, "Scenario A" $28,2,1,2,1,4,2,3,1,1,3,3,1,5,3, "$ Scenario B"

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28,2,2,3,1,1,1,1,1,1,1,3,3,3,4,"Scenario A"

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387,2,1,2,3,1,3,1,1,2,1,1,1,2,2,"Scenario A"
387,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario A"

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387,1,1,2,1,2,2,3,2,2,3,2,4,1,2,"Scenario A"

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387,2,1,3,2,3,5,5,1,2,1,3,4,4,4,"Scenario B" 387,1,2,3,3,1,4,3,2,1,1,1,2,1,4,"Scenario A" 387,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario A" 387,2,1,2,3,1,1,3,1,2,2,1,2,3,1,"Scenario B" 387,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario A" $387,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ A" $387,2,2,3,1,2,4,2,1,1,1,2,2,2,5, "$ Scenario A" 387,2,2,1,1,3,3,4,1,1,2,3,1,3,5,"Scenario B" $426,1,1,3,3,3,1,2,1,2,2,3,2,2,5, "$ Scenario A" $426,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ A" $426,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o ~ A "$ $426,1,2,1,1,3,2,1,2,1,1,2,4,3,1, " S c e n a r i o B^{\prime \prime}$ $426,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o$ B" $426,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ A" $426,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o ~ A "$ $426,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o$ B" $426,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o ~ A "$ $426,1,2,2,3,1,5,4,2,1,3,2,4,2,5$, Scenario A" $434,2,1,2,2,3,2,1,1,2,3,2,1,5,4, "$ Scenario A" $434,1,2,2,3,2,1,5,2,1,1,1,4,3,3, " S c e n a r i o$ A" $434,2,2,1,1,2,4,5,1,2,2,2,3,1,1, " S c e n a r i o$ A" $434,1,1,3,3,1,4,1,2,2,1,2,4,3,2, " S c e n a r i o ~ A "$ $434,2,1,2,1,4,2,3,1,1,3,3,1,5,3, "$ Scenario B" $434,2,2,3,1,1,1,1,1,1,1,3,3,3,4, "$ Scenario A" $434,1,2,1,2,3,2,4,2,1,2,2,2,5,3, " S c e n a r i o ~ A "$ $434,2,2,3,3,4,3,5,2,1,2,1,3,5,2, " S c e n a r i o$ B" $434,1,2,1,1,2,4,5,2,1,3,3,4,2,4, " S c e n a r i o$ A" 434,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario A" 425,1,2,2,2,4,3,2,1,1,1,3,3,4,3,"Scenario A" $425,2,1,3,1,2,5,4,1,2,1,3,4,2,1, "$ Scenario A" $425,1,1,1,3,1,4,5,2,2,2,2,2,3,5, " S c e n a r i o ~ B "$ 425,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario B" $425,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o ~ A "$ $425,2,1,1,1,4,1,2,1,2,3,2,2,5,3, "$ Scenario A" $425,2,1,1,2,1,4,4,1,2,3,1,3,3,5, "$ Scenario A" 425,2,2,2,3,3,5,4,1,2,2,3,4,4,1,"Scenario B" $425,1,1,2,1,4,3,5,2,1,1,2,3,5,1, " S c e n a r i o$ B" $425,1,1,3,1,1,1,2,2,2,3,3,2,4,1, " S c e n a r i o$ A" $180,2,1,2,3,1,3,1,1,2,1,1,1,2,2, "$ Scenario A" $180,1,1,2,1,2,2,3,2,2,3,2,4,1,2, "$ Scenario A" $180,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "$ Scenario A" 180, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4,"Scenario A" $180,1,1,2,1,4,5,5,2,2,1,2,3,4,1, " S c e n a r i o$ B" $180,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o ~ A "$ 180,1,2,1,2,1,3,4,2,1,3,3,3,5,1,"Scenario A" $180,2,2,3,2,1,1,5,1,1,2,3,4,2,2, " S c e n a r i o$ B" 180, 2, 2, 3, 1, 2, 4, 2, 1, 1, 1, 2, 2, 2, 5, "Scenario A" $180,2,2,1,1,3,3,4,1,1,2,3,1,3,5, " S c e n a r i o$ A" $90,1,1,3,3,3,1,2,1,2,2,3,2,2,5, " S c e n a r i o$ B" $90,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ A" $90,2,2,1,2,3,4,2,1,1,3,1,1,4,5, " S c e n a r i o$ B" $90,1,2,1,1,3,2,1,2,1,1,2,4,3,1, "$ Scenario A" $90,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o$ A" $90,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ A" $90,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o$ A" $90,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o$ A" $90,1,1,2,2,3,3,3,2,2,3,1,2,4,5, "$ Scenario B"
$90,1,2,2,3,1,5,4,2,1,3,2,4,2,5, " S c e n a r i o$ A" 91, 2, 1, 2, 2, 3, 2, 1, 1, 2, 3, 2, 1, 5, 4, "Scenario A" 91, 1, 2, 2, 3, 2, 1,5,2,1,1,1,4,3,3,"Scenario B" 91,2,2,1,1,2,4,5,1,2,2,2,3,1,1,"Scenario B" 91,1,1,3,3,1,4,1,2,2,1,2,4,3,2,"Scenario B" 91, 2, 1, 2, 1, 4, 2, 3, 1, 1, 3, 3, 1, 5, 3, "Scenario A" 91, 2, 2, 3, 1, 1, 1, 1, 1, 1, 1, 3, 3, 3, 4, "Scenario A" 91, 1, 2, 1, 2, 3, 2, 4, 2, 1, 2, 2, 2, 5, 3, "Scenario B" 91, 2, 2, 3, 3, 4, 3, 5, 2, 1, 2, 1, 3, 5, 2, "Scenario A" 91,1,2,1,1,2,4,5,2,1,3,3,4,2,4,"Scenario B" 91,1,1,2,2,2,1,1,2,2,3,1,1,1,2,"Scenario B" 92, 1, 2, 2, 2, 4, 3, 2, 1, 1, 1, 3, 3, 4, 3, "Scenario A" $92,2,1,3,1,2,5,4,1,2,1,3,4,2,1, "$ Scenario B" 92,1,1,1,3,1,4,5,2,2,2,2,2,3,5,"Scenario B" 92,2,1,2,2,1,4,1,1,2,2,1,3,1,2,"Scenario A" $92,1,1,3,2,2,2,3,2,2,3,3,1,2,4, " S c e n a r i o$ B" $92,2,1,1,1,4,1,2,1,2,3,2,2,5,3$, SScenario A" 92, 2, 1, 1, 2, 1, 4, 4, 1, 2, 3, 1, 3, 3, 5, "Scenario A" $92,2,2,2,3,3,5,4,1,2,2,3,4,4,1, " S c e n a r i o$ B" 92,1,1,2,1,4,3,5,2,1,1,2,3,5,1,"Scenario B" $92,1,1,3,1,1,1,2,2,2,3,3,2,4,1, " S c e n a r i o$ B" 93, 2, 1, 2, 3, 1, 3, 1, 1, 2, 1, 1, 1, 2, 2, "Scenario A" 93, 1, 1, 2, 1, 2, 2, 3, 2, 2, 3, 2, 4, 1, 2,"Scenario B" $93,2,1,3,2,3,5,5,1,2,1,3,4,4,4$, SScenario A" 93, 1, 2, 3, 3, 1, 4, 3, 2, 1, 1, 1, 2, 1, 4,"Scenario B" 93,1,1,2,1,4,5,5,2,2,1,2,3,4,1,"Scenario B" $93,2,1,2,3,1,1,3,1,2,2,1,2,3,1, " S c e n a r i o ~ A "$ 93, 1, 2, 1, 2, 1, 3, 4, 2, 1, 3, 3, 3, 5, 1, "Scenario B" 93, 2, 2, 3, 2, 1, 1, 5, 1, 1, 2, 3, 4, 2, 2, "Scenario A" 93, 2, 2, 3, 1, 2, 4, 2, 1, 1, 1, 2, 2, 2, 5, "Scenario A" 93, 2, 2, 1, 1, 3, 3, 4, 1, 1, 2, 3, 1, 3,5,"Scenario A" 94, 1, 1, 3, 3, 3, 1, 2, 1, 2, 2, 3, 2, 2,5,"Scenario B" $94,1,2,3,2,1,1,4,2,1,2,3,4,5,3, " S c e n a r i o$ A" 94, 2, 2, 1, 2, 3, 4, 2, 1, 1, 3, 1, 1, 4,5,"Scenario B" 94, 1, 2, 1, 1, 3, 2, 1, 2, 1, 1, 2, 4, 3, 1,"Scenario A" $94,1,2,2,2,2,3,2,2,2,3,1,4,5,1, " S c e n a r i o$ A" $94,2,1,2,1,2,1,4,1,1,1,3,2,5,2, " S c e n a r i o$ A" $94,2,1,1,3,1,2,1,1,2,3,2,4,3,4, " S c e n a r i o$ A" $94,1,1,3,3,1,5,2,2,2,2,1,3,1,3, " S c e n a r i o$ A" $94,1,1,2,2,3,3,3,2,2,3,1,2,4,5, " S c e n a r i o$ B" $94,1,2,2,3,1,5,4,2,1,3,2,4,2,5, "$ Scenario A"

