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A Description of Global Innovative Methods in Developing the WHO Community Engagement Package

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A Description of Global Innovative Methods in Developing the WHO Community Engagement Package

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ABSTRACT

Objectives Development of a Community Engagement Package (CEP) composed of (1) database of community engagement (CE) experiences from different contexts, (2) CE learning package of lessons and tools presented as online modules, and (3) CE workshop package for identifying CE experiences to enrich the CE database and ensure regular update of learning resources. The package aims to guide practitioners to promote local action and enhance skills for CE.

Setting and Participants The packages were co-created with diverse teams from WHO, SIHI, UNICEF, community practitioners, and other partners providing synergistic contributions and bridging existing silos.

Methods The design process of the package was anchored on CE principles. Literature search was performed using standardized search terms through global and regional databases. Interviews with CE practitioners were also conducted.

Results A total of 356 cases were found to fit the inclusion criteria and proceeded to data extraction and thematic analysis. Themes were organized according to rationale, key points and insights, facilitators of CE, and barriers to CE. Principles and standards of CE in various contexts served as a foundation for the CE learning package. The package comprises four modules organized by major themes such as mobilizing communities, strengthening health systems, CE in health emergencies, and CE as a driver for health equity.

Conclusion After pilot implementation, tools and resources were made available for training and continuous collection of novel CE lessons and experiences from diverse socio-geographical contexts.

STRENGTHS AND LIMITATIONS OF THIS STUDY

- The WHO Community Engagement Package (CEP) was co-created with a community of diverse teams of WHO, Social Innovation in Health Initiative hubs, UNICEF, partners organizations, and community practitioners that provided synergistic contributions in promoting best community engagement (CE) practices across the board.
- This project fills a need for a harmonized CE documentation package for training based on different local contexts and with a broad range of health and social development activities including health emergencies, routine immunization, neglected tropical diseases, city and urban development, nutritional interventions, and disaster risk management.
- The CE cases identified were limited to those in English, French, and Spanish. Future researches can explore relevant documented and undocumented experiences in other languages.
- The CEP was developed and tested primarily through online environments and might need adjustment for in-person implementation.

INTRODUCTION

There is an increasing necessity to redouble efforts using innovative approaches to bolster community engagement (CE) in the global health setting. Emergencies, including the COVID-19 pandemic, severely disrupted prevention and treatment services for non-communicable diseases (NCDs), malaria and other interventions.[1-4] This has compounded health inequities and widened the gap across populations. The complexities brought about by these health problems make community participation in co-creating innovative solutions to these challenges even more critical. The shift to people-centred approaches as highlighted in the revised WHO risk communication and community engagement (RCCE) strategy,[5, 6] is imperative as CE can make a considerable difference in health outcomes and capacitate communities to deal with

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4 health challenges and their determinants.[7-9] The response to the Nepal earthquake
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6 and similar experiences made clear that people-centred design and leadership in
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8 addressing problems facilitate more efficient use of resources, strengthen coordination
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10 and build local capacities.[10] The World Health Organization (WHO), United Nations
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12 Children's Fund (UNICEF) and development partners support CE with resource
13
14 mobilization, information, and trainings with various outcomes and competencies.[11]
15
16 However, there is no harmonized CE documentation package based on local contexts
17
18 for training. This project was initiated to guide health practitioners in promoting local
19
20 action, and to facilitate involvement, training, and synergies across health and
21
22 development sectors to achieve collective outputs and outcomes.[12-15] It responds to
23
24 the need to invest in effective social innovations grounded on CE, which utilize bottom-
25
26 up approaches and draw on strengths of individuals, communities, and institutions, while
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28 promoting synergies across sectors.[16-18]
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37 **The WHO Community Engagement Package**

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39 The WHO Department of Country Readiness Strengthening conceptualized and initiated
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41 the Community Engagement Package (CEP) project based on consultations within WHO
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43 Regional Offices and Headquarters. The CEP project[19] developed a database of CE
44
45 experiences, a CE learning package (CELP), and a CE workshop package (CEWP) based
46
47 on a broad scope of CE experiences in different settings. The compiled cases can guide
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49 program managers, CE practitioners, in-service medical and non-medical trainees, non-
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51 governmental organizations (NGO) staff, and multidisciplinary teams to sharpen their skills
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53 in the CE approach.
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CEP Project Design and Components

The design of the CEP involved the creation of a database of relevant CE cases. These cases were categorized and analyzed, and themes and concepts were used to develop the CELP with contributions from CE subject matter experts (SMEs). The CEWP was designed to document "newer" CE experiences that can be incorporated into the database, ensuring regular updates of the learning resources (see Figure 1). Table 1 summarizes the three components of the CEP.

Figure 1. WHO Community Engagement Package Components and Relationships

Table 1 Descriptions of the Components of the WHO Community Engagement Package

Community Engagement Database	Organized collection of data and documentation of community engagement experiences, practices, and approaches in different regions and contexts.
Community Engagement Learning Package	Curation of community engagement lessons and tools presented as online (asynchronous) modules designed to capacitate learners on basic concepts, principles, and applications of community engagement, and explore best practice experiences in solving health problems and promoting health through community engagement.
Community Engagement Workshop Package	Provides tools and templates for identifying community engagement experiences in a workshop format. The contents are similar to the Community Engagement Learning Package, with a special focus on documenting "new" CE experiences and their nuances, and a walk-through of using and submitting case studies for the CE database.

Given the uniqueness, relevance, and value of the harmonized CEP in the context of health emergencies and the overall global health sphere, this paper seeks to document

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4 the processes and the innovative ways by which the CEP was developed at the height
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6 of COVID-19 restrictions.
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11 12 **METHODS**

13 14 15 **Patient and Public Involvement**

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17 The conceptualization, design, and conduct of the CEP involved participation and co-
18
19 creation among colleagues and potential end users in the WHO, SIHI hubs, UNICEF and
20
21 other implementing partners, and community practitioners and frontline responders.
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24 25 26 **CEP Human Resource Infrastructure and Way of Working**

27
28 The overall project methodology was anchored on CE principles and processes.
29
30 Colleagues in WHO (Headquarters and regions) participated in the CEP project. The
31
32 Social Innovation in Health Initiative (SIHI) global network contributed substantially to the
33
34 realization of the CEP.
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37 38 39 **WHO CEP Working Group**

40
41 The design of the CEP project came about after consultations with WHO colleagues
42
43 involved in CE work, bringing in experiences of WHO working with communities in different
44
45 contexts and settings.[19] These colleagues work in different thematic areas: health
46
47 promotion, social determinants of health, health systems, disaster risk reduction, risk
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49 communication, healthy cities, community readiness and resilience, and population-
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51 based focused work. As the CEP design was drafted, a working group (WG) was
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53 established to provide technical advice and CE resources related to their respective
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4 areas of work. Regular WG meetings were conducted to ensure that they had updated
5
6 information and an opportunity to provide feedback to improve the package. Some
7
8 members of the WG also participated as resource persons in the CELP.
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10 The WG also consulted and regularly updated the RCCE Collective Services, which is
11
12 composed of WHO, UNICEF, International Federation of Red Cross and Red Crescent
13
14 Societies (IFRC) and Global Outbreak Alert and Response Network (GOARN). UNICEF
15
16 provided inputs regarding training.
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20 21 SIHI Global Network

22 The SIHI Philippines Hub is the main implementing agency of the project. It is part of the
23
24 SIHI global network of research hubs and other partners supported by TDR, the Special
25
26 Programme for Research and Training in Tropical Diseases. SIHI hubs have expertise and
27
28 experience documenting social innovations from communities and communicating
29
30 these innovations with stakeholders.
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34 Led by the SIHI Philippines, the SIHI hubs based in Colombia, Honduras, Malawi, Nigeria,
35
36 and South Africa also participated in this project. Together, they gathered published and
37
38 grey literature on CE and were involved in the development of the search terms and
39
40 selection criteria, case abstracts and identification of themes. SIHI Philippines
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42 spearheaded the development of the prototype learning and workshop packages and
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44 facilitated regular virtual meetings with the other hubs and WHO staff for updates and
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46 consultation.
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Development of the Components of the CEP

The development of the components of the CEP can be characterized as iterative, collaborative and comprehensive and can be considered "community engagement in practice."

Development of the Community Engagement Database

The CE database is an organized collection of data and documentation of CE practices, experiences, and approaches used in different regions and contexts. Systematic search was done to gather and organize these, integrating multi-stakeholder and consultative approaches across the SIHI global network and key partners from WHO.

Search for Materials on Community Engagement

This phase identified materials that document experiences about CE in programs that address health or the social determinants of health. The search procedures were developed and co-created with SIHI hubs and the WHO using the "system lens" principles and a bottom-up approach. Methods were refined as feedback was collected during implementation.

A standard procedure was prescribed for literature search to ensure the quality of cases found and maximize use of search platforms. For published literature (i.e. case reports/series, review articles, research papers, journal articles), searches in PubMed, Google Scholar, Hinari, Research Gate, Scopus, Embase, LILACS were conducted. Other significant local and regional repositories were also explored.

The following standard search terms were used:

- (“social” OR “community” OR “stakeholder”) AND (“engagement” OR “partnerships” OR “participation” OR “action” OR “involvement” OR “empowerment”)
- (“social” OR “community”) AND (“ownership” OR “relations” OR “outreach”)
- “community-based participatory research”
- “population health management”
- “community-directed intervention”

These terms were also translated to French and Spanish and additional terms for a geographic location were also added to focus searches in these areas.

For grey literature (i.e. newsletters, unpublished reports or limited distribution, theses, conference papers/presentations, books, and others) general search engines were used and academic and professional networks were tapped. Materials in languages other than English were included, with interpretation assistance from the SIHI network. Audiovisual materials were collected from credible organizational partners of WHO and SIHI, sources recommended by these organizations, and verified social media accounts and websites.

Interviews, surveys, and correspondence with CE practitioners were facilitated to identify undocumented CE practices. Academic and professional networks of the SIHI network, WHO, and partners were engaged in identifying undocumented CE practices for inclusion. Virtual communication technologies were utilized because of travel restrictions. Recordings or transcripts were obtained for documentation. The reviews were conducted by the project staff and SIHI hubs in coordination with the WG.

Following PRISMA's recommended process flow, materials collected were screened initially through the title and abstract, when available. These were then assessed based on the selection criteria.

Selection Criteria

A set of criteria (Table 2) was developed to standardize relevant CE cases that were entered into the database. This was based on inputs from various stakeholders and was finalized with consensus from WHO and the participating SIHI hubs. Definitions of specific terms also provided additional guidance.

Table 2 Inclusion criteria and guiding definitions for the selection of community engagement materials

Inclusion Criteria
1. Documented in reputable sources or can provide information/documentation for the assessment of validity
2. Articles published in the last 10 years or undocumented experiences active within the last 10 years

3. All community engagement criteria are met:
- a. Captures or documents experience on community engagement addressing a health need or social determinants of health
 - b. Uses a participatory approach and active two-way communication using language appropriate for different actors and stakeholders
 - c. Encourages collaboration/synergies and sharing of expertise with various stakeholders and sectors, mainly, but not limited to, marginalized groups to improve capacities
 - d. Involves the community in the different phases of implementation of the intervention/strategy such as planning, context analysis, decision making, research, monitoring, evaluation and/or learning to ensure inclusive representation, maximum participation, and uncompromised consultation
 - e. Builds and sustains trust within the community

To simplify the assessment of trust, the following criteria based on the work of Di Napoli et al.[20], have been adopted. At least two of the four criteria must be met to indicate trust with the community:

 - i. Presence of interest and competence in offering services that support the community's needs and allows the realization of the community members' aspirations
 - ii. Community members are willing to participate in the improvement of the community through their effort of contribution of valuable resources
 - iii. Community members find pleasure and meaning in spending their time participating
 - iv. Community members expect that the engagement will improve future resources related to security, decision-making, participation, and achieving their goals

Definitions of Terms

Communities	Groups of people who may or may not be spatially connected, but share common interests, concerns, or identities. These communities could be local, national or international, with specific or broad interests[21]
Community engagement	<p>"The process of working collaboratively with and through groups of people affiliated by geographic proximity, special interest, or similar situations to address issues affecting the well-being of those people"[22]</p> <p>"The process of developing relationships that enable stakeholders to work together to address health-related issues and promote wellbeing to achieve positive health impact and outcomes"[23]</p>

Social determinants of health	"Non-medical factors that influence health outcomes". They are circumstances where "people are born, grow, work, live, and age, and the wider set of forces and systems shaping the conditions of daily life"[24]
Trust	"Positive expectations of community members toward the current and future opportunities they perceive in their local community, namely the place where they live and interact"[20] Building purposeful and compassionate relationships through a resilient and community-competent health workforce that adapts to the needs and preferences of the people they serve[25]

Writing Case Summaries

A summary was written for each identified case including the project's name, implementing institution, number of years the project was implemented, implementation site, and health issues/topic addressed. The rationale, objectives, intervention, outcomes, lessons, challenges, and factors promoting and/or impeding CE were abstracted. Social innovations, if any, were included.

Compilation of Materials

All selected and created documents were uploaded to the project's Google Drive and kept in storage, pending migration to a WHO repository for the database, CELP, and CEWP.

Analysis and Identification of Common Themes

Content analysis of the summaries and other data extracted from the screened materials was done using open coding. Key ideas and nuances were identified and grouped into categories and themes. These were then used to tag and organize the materials in the database.

Development of the Community Engagement Learning Package

The CELP is a curation of CE lessons and tools presented as online (asynchronous) modules designed to capacitate learners on basic concepts, principles, and applications of CE, and explore best practice experiences in solving health problems and promoting health through CE. In-depth analysis done with the contents of the database identified important CE principles, practices, lessons, challenges, and barriers encountered in different contexts and regions. Existing CE frameworks, toolkits, and guides were also surveyed. Emerging themes and concepts were utilized as the basis for the development of the CELP. SMEs contributed to the contents of the CELP designed to be delivered in an online learning management system.

Initial outline and plans for the CELP were also vetted among the CEP WG, and stakeholders and partners who have extensive experience in engaging and mobilizing communities, both at the regional and global levels. Comments, critiques, suggestions, and recommendations that emerged from the series of vetting processes further shaped and enhanced the content of the learning package.

Development of the Community Engagement Workshop Package

The CEWP was developed as a complementary strategy to the CELP, highlighting important topics and practical activities that might be useful for participants to enhance their CE practice. It was initially designed for face-to-face engagements, but because of the restrictions brought about by the pandemic, the pilot implementation was done online. The package materials were made into a downloadable format that can be adapted in either online or face-to-face settings. Different iterations of the activity design were developed based on the different possible country contexts, utilizing the input from

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4 SIHI networks and frontline responders engaging specific issues and populations -
5 migrants, indigenous populations, people living with disabilities, women, elderly and
6 youths.
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10 11 12 Testing the Learning and Workshop Packages

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14 Prototypes of the packages were tested among stakeholders, particularly community
15 mobilizers, public health practitioners and other potential end-users.
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19 An online platform was created to test the online learning package. Pilot participants
20 were selected using criteria that facilitated the inclusion of different groups and were
21 invited to undergo the online asynchronous training. Feedback from the participants
22 were obtained through online evaluation forms and were used to guide the revision of
23 the training design.
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31 Pilot testing for the workshop package was conducted in two phases through an online
32 video conferencing platform. The first phase was implemented among participants from
33 the Philippines. The pilot run tested the regional applicability and impact of the materials
34 and content. The second phase was conducted among a global set of participants,
35 which tested its universal applicability and impact. In both phases, user experiences were
36 collected and used to refine the packages.
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46 47 Ethical Considerations

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49 The development of the CEP did not entail participation of human subjects that requires
50 ethical approval by the WHO Ethics Review Committee.[26] The collection of feedback
51 from pilot participants is a regular mechanism to evaluate training. Informed consent was
52 obtained before documenting CE practitioners' experiences and recording workshop
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4 proceedings. Information about the project and its objectives and the extent of their
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6 participation were discussed.
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9 10 **Monitoring & Evaluation in Project Development**

11 Regular internal SIHI and WHO reviews and consultative processes were facilitated to
12
13 ensure that project deliverables met the needs of the end-users and fulfilled the
14
15 objectives of the project.
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18 19 **Limitations in Conducting the CEP Activities/Process**

20 All engagements and coordination for this project were done remotely using online
21
22 platforms due to the restrictions brought about by the COVID-19 pandemic. The team
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24 ensured that participatory approaches were reinforced and the voices of CE
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26 practitioners were incorporated in the CEP.
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30 31 **RESULTS**

32 33 **Community Engagement Database**

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35 A database of experiences on CE was developed across public health in different
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37 settings. WHO and partners identified relevant resources that captured CE experiences,
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39 using the prescribed inclusion criteria. Materials in various formats (documents, videos,
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41 etc.) that highlighted the practices, lessons and challenges in working with the
42
43 communities were compiled. The documents and related materials are in English,
44
45 Spanish, and French. Summaries of documented CE cases are available in English.
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Categories of Cases in the CE Database

There are 356 cases in the database (290 identified from published literature, 57 from grey literature, and nine from CE practitioner interviews) from all six WHO regions, categorized according to the health topic (Table 3). In addition, a total of 56 cases dealing with health emergencies were identified with 30 cases on COVID-19, 12 on Ebola, nine on environmental risk and disaster, and five on humanitarian crises.

Table 3 Distribution of Cases According to Health Topic and the WHO Regions

Health Topic Category	No. of Cases per WHO Region						Total
	AFR	EMR	EUR	PAHO	SEAR	WPR	
Communicable Diseases	66	10	2	20	14	21	133
Primary Health Care	9	2	11	13	6	8	49
Maternal & Child Health	9	1	2	5	5	3	25
WASH	6	0	1	3	1	0	11
Sexual & Reproductive Health	3	2	2	4	1	2	14
Social Determinant of Health	1	5	13	27	7	3	56
Mental Health	0	3	1	5	1	4	14
NCDs	1	3	4	3	8	11	30
Nutrition	0	0	0	2	2	2	6
Others	3	0	5	3	5	2	18
Total	98	26	41	85	50	56	356

CE Practitioner Interviews

Seven CE practitioner interviews were conducted – five interviewees from AFRO, one each from PAHO and WPRO. These interviews identified nine unpublished CE experiences and explored CE strategies and dynamics and how that influenced the sustainability of health interventions.

Thematic Analysis

The case summaries were coded and analyzed, capturing themes from the rationale for CE, key insights, facilitating factors, and barriers. The documentation of the thematic analysis is available in a supplementary document in the database. Table 4 presents the thematic areas that emerged from the review of the cases.

Table 4 Summary of Themes from the Community Engagement Cases

Rationale for Community Engagement	Contextual and health system challenges Health and social goals Mechanisms
Key Points and Insights	Community mobilization Individual and community agency Multi-stakeholder engagement Multidirectional communication Building on local capacity Access, acceptability and adaptation Inclusion Sustainability Participatory research Basic principles
Facilitators of Community Engagement	Adapting the intervention Applying participatory principles and approaches Maximizing reach and access Utilizing support mechanisms

Barriers to Community Engagement	Societal and contextual issues Challenges with leadership Weak health system Challenges in encouraging and sustaining participation Inadequate reach and access Knowledge/information gaps Lack of trust Issues in communication Inadequate or improper allocation of resources Organizational and logistic problems Challenges on the sustainability and generalizability of the project Timing and duration of community engagement
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Community Engagement Learning Package (CELP)

From the CE materials collected, the CELP was developed anchored on basic principles and standards of CE and grounded on actual experiences in working with communities in different contexts and settings. The CELP includes four self-instructional modules that participants may complete independently or as a ladder-type course. Each module presents basic frameworks and concepts of CE in relation to the theme of that module and are then tied to real world examples of CE in different contexts (see Table 5). Target learners include early to mid-level professionals and practitioners applying community engagement in their work who may come from various disciplines such as medical and health sciences, public health, public policy and administration, program management, social development and other social sciences. Students both at the undergraduate and postgraduate levels of any higher education institution, from various disciplines as mentioned above may also benefit from the modules.

Table 5 **Modules of the Community Engagement Learning Package**

Module Title	Main framework/s used	Sample cases used
Module 1: Engaging and Mobilizing Communities for Health and Development	<p>WHO community engagement framework for quality, people-centred and resilient health services[23]</p> <p>Community engagement: a health promotion guide for universal health coverage in the hands of the people[27]</p>	<p>Setting health priorities in a community: a case example Sousa et al., 2017[32]</p> <p>Participatory learning and action to address type 2 diabetes in rural Bangladesh: a qualitative process evaluation Morrison et al., 2019[33]</p> <p>Community engagement in outbreak response: lessons from the 2014–2016 Ebola outbreak in Sierra Leone Bedson et al., 2020[34]</p> <p>‘What works here doesn’t work there’: The significance of local context for a sustainable and replicable asset-based community intervention aimed at promoting social interaction in later life. Wildman et al., 2019[35]</p>
Module 2: Strengthening Health Systems through Community Engagement	Systems thinking for health systems strengthening[28]	Achieving UHC in Samoa through Revitalizing PHC and Reinvigorating the Role of Village Women Groups Baghirov et al., 2019[36]
Module 3: Community Engagement in All-Hazards Emergency and Disaster Risk Management	<p>Sendai framework for disaster risk reduction 2015–2030[29]</p> <p>Health Emergency and Disaster Risk Management Framework[30]</p>	Shifting Paradigms: Strengthening Institutions for Community-Based Disaster Risk Reduction and Management Bawagan et al., 2015[37]

Module 4: Community Engagement as a Driver for Achieving Health Equity and Community Resilience	Minimum Quality Standards and Indicators for Community Engagement[31]	Integrated vector control of Chagas disease in Guatemala: a case of social innovation in health Castro-Arroyave et al., 2020[38]
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The pilot participants found the CELP to be comprehensive in terms of content and with a user-friendly format. They appreciated how other concepts in public health were linked to CE. They suggested more practical applications and specific how-to's, and assessment activities with immediate feedback. These were all taken into consideration in the revision of the modules.

Community Engagement Workshop Package (CEWP)

The CEWP provides tools and templates for identifying other CE experiences in a workshop format. The contents are similar to the CELP, with a special focus on documenting "new" CE experiences and a walk-through of using and submitting case studies for the CE database. The target participants are practitioners who are interested in sharing their CE experiences. The CEWP allows the continuous collection of evidence and discussions with stakeholders on CE principles, practices, and frameworks. These resources will be cataloged, categorized, and used to update the database and the learning and workshop packages.

Participants and observers of the CEWP pilot were satisfied with the introduction and ice-breaking activities which set the stage for conducive training sessions. Participants also expressed satisfaction on the content, pointing out that the workshop addressed aspects of CE not previously considered. The topics of the training were noted to be far-reaching,

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4 covering several CE frameworks, with good video presentations. Participants were able
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6 to relate the lessons and case studies to their experiences. They pointed out a few areas
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8 of improvement, including the need for adequate time to study the cases prior to the
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10 synchronous online sessions and more breakout sessions for participants to raise issues
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12 and ensure more diverse voices and opinions. They also recommended that the
13
14 frameworks need to further emphasize listening and understanding community
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16 perspectives right from the start of the engagement.
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20 21 **DISCUSSION**

22
23 The CEP and its development showcase innovative elements in the project design, the
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25 human resources involved and way of working, and the interrelationships of the different
26
27 CEP components.
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31 The CEP conceptualization and design involved broad consultations and co-creation
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33 with a community of diverse teams of WHO, SIHI hubs, UNICEF, and other implementing
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35 partners, and frontline responders. The process and products of the package were
36
37 vetted among stakeholders and partners at the regional and global levels. In addition,
38
39 community practitioners were consulted regarding the screening criteria of cases to be
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41 included in the database, shared undocumented CE practices, and participated in the
42
43 pilots of the learning and workshop packages to provide user feedback. This multi-
44
45 stakeholder consultative processes allowed for the creation of a grounded,
46
47 contextualized, relevant and integrated package.
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51 Working on the CEP project during the COVID-19 pandemic did not deter the WHO and
52
53 SIHI from intensifying collaboration. The use of online platforms enabled the team to
54
55 engage and mobilize relevant resources and develop the CEP components despite the
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4 absence of face-to-face consultations and other limitations. Creative use of online
5
6 platforms was also maximized for the different components of the CEP (e.g., online
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8 database, online modules) while still providing templates for possible face-to-face
9
10 delivery, allowing for flexibility in engagement methods.

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12
13 The three components of the CEP feed into each other. The thematic analysis of the
14
15 materials in the CE database guided the design of the CELP and CEWP. Selected cases
16
17 were also used to reinforce and provide real-world application to the CE frameworks and
18
19 related concepts in the online modules. The CEWP facilitates the discussion of CE
20
21 principles and practices among practitioners and the collection of new information for
22
23 updating the database and CELP with "new" CE experiences.

24
25
26
27 The merit of the current CEP project over existing documentation is that the CEP is broad-
28
29 based - not limited to health emergencies, but includes other public health and social
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31 developmental activities such as routine immunization, neglected tropical diseases, city
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33 and urban development, nutritional interventions and disaster risk management, among
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35 others.

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39 An operational challenge during the documentation was the language barrier. The
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41 cases were limited to English, French and Spanish. Future researchers can explore
42
43 relevant documented and undocumented experiences in other languages, which will
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45 make the database more comprehensive and unifying at the same time.

46 47 48 49 **CONCLUSION**

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51 The design of the CEP emphasized interrelationships among its components – CE
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53 database, learning package and workshop package. The CELP contents were taken
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55 from the comprehensive thematic analysis of the database. The CEWP facilitates the
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4 documentation of "new" CE experiences and their nuances, ensuring timely updates of
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6 the database by CE practitioners themselves.
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9 Most of the cases included in the CEP database presented key insights on CE including
10
11 its basic principles and the role of individual and community agency, building on local
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13 capacity, multi-directional communication, inclusion, and multi-stakeholder
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15 engagement. Barriers to CE including issues of access, acceptability and adoption in the
16
17 setting of weak health systems and societal issues were also identified. The learning and
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19 workshop packages were then developed to guide health professionals and other
20
21 stakeholders based on these grounds.
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25 The development of the CEP was the work of multiple global stakeholders providing
26
27 synergistic contributions and bridging silos. The description of the CEP methodology will
28
29 allow replication, provide transparency into the development of the CEP and present
30
31 lessons learned during the development of a robust and harmonized package.
32
33

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This study does not involve human participants.

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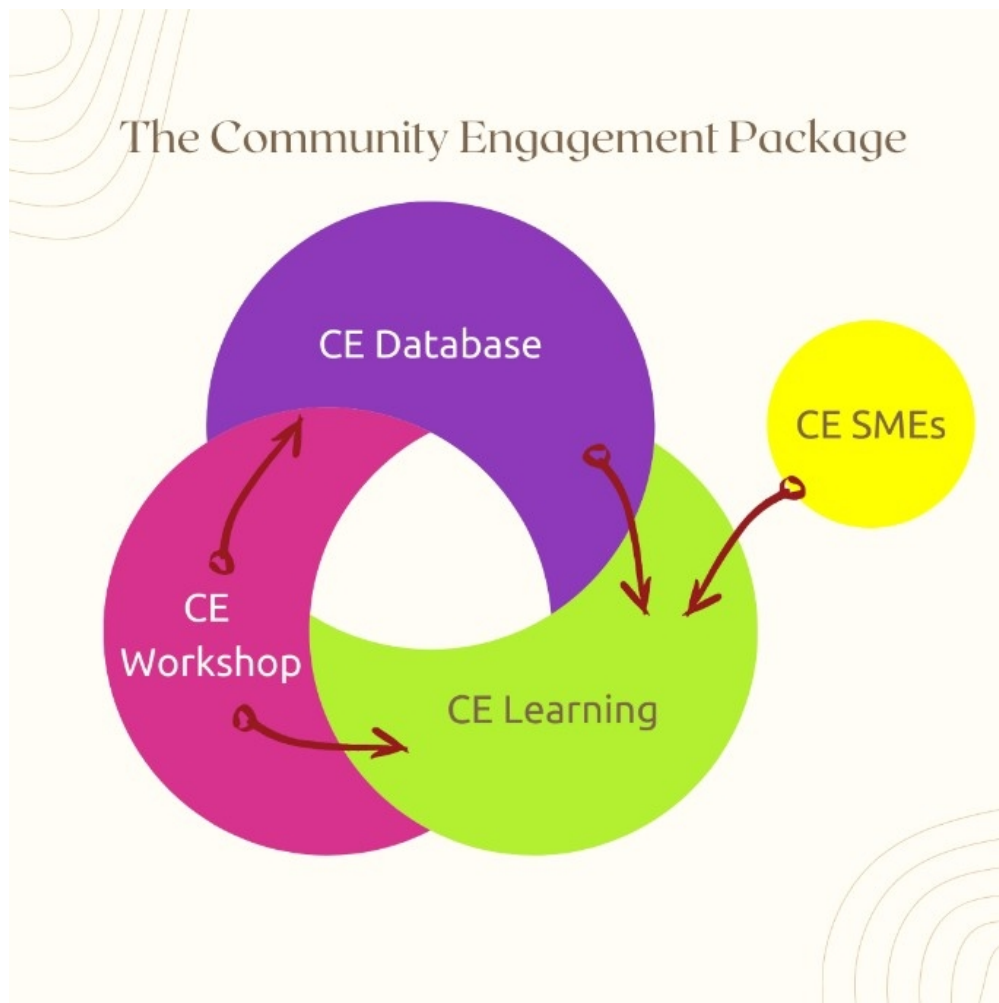
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Figure Legend

Figure 1. WHO Community Engagement Package Components and Relationships

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A Description of Global Innovative Methods in Developing the WHO Community Engagement Package

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A Description of Global Innovative Methods in Developing the WHO Community Engagement Package

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ABSTRACT

Objectives Development of a Community Engagement Package (CEP) composed of (1) database of community engagement (CE) experiences from different contexts, (2) CE learning package of lessons and tools presented as online modules, and (3) CE workshop package for identifying CE experiences to enrich the CE database and ensure regular update of learning resources. The package aims to guide practitioners to promote local action and enhance skills for CE.

Setting and Participants The packages were co-created with diverse teams from WHO, SIHI, UNICEF, community practitioners, and other partners providing synergistic contributions and bridging existing silos.

Methods The design process of the package was anchored on CE principles. Literature search was performed using standardized search terms through global and regional databases. Interviews with CE practitioners were also conducted.

Results A total of 356 cases were found to fit the inclusion criteria and proceeded to data extraction and thematic analysis. Themes were organized according to rationale, key points and insights, facilitators of CE, and barriers to CE. Principles and standards of CE in various contexts served as a foundation for the CE learning package. The package comprises four modules organized by major themes such as mobilizing communities, strengthening health systems, CE in health emergencies, and CE as a driver for health equity.

Conclusion After pilot implementation, tools and resources were made available for training and continuous collection of novel CE lessons and experiences from diverse socio-geographical contexts.

STRENGTHS AND LIMITATIONS OF THIS STUDY

- The WHO Community Engagement Package (CEP) was co-created with a community of diverse teams of WHO, Social Innovation in Health Initiative hubs, UNICEF, partners organizations, and community practitioners that provided synergistic contributions in promoting best community engagement (CE) practices across the board.
- This project fills a need for a harmonized CE documentation package for training based on different local contexts and with a broad range of health and social development activities including health emergencies, routine immunization, neglected tropical diseases, city and urban development, nutritional interventions, and disaster risk management.
- The CE cases identified were limited to those in English, French, and Spanish. Future researches can explore relevant documented and undocumented experiences in other languages.
- The CEP was developed and tested primarily through online environments and might need adjustment for in-person implementation.

INTRODUCTION

There is an increasing necessity to redouble efforts using innovative approaches to bolster community engagement (CE) in the global health setting. Emergencies, including the COVID-19 pandemic, severely disrupted prevention and treatment services for non-communicable diseases (NCDs), malaria and other interventions.[1-4] This has compounded health inequities and widened the gap across populations. The complexities brought about by these health problems make community participation in co-creating innovative solutions to these challenges even more critical. The shift to people-centred approaches as highlighted in the revised WHO risk communication and community engagement (RCCE) strategy,[5, 6] is imperative as CE can make a considerable difference in health outcomes and capacitate communities to deal with

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4 health challenges and their determinants.[7-9] The response to the Nepal earthquake
5
6 and similar experiences made clear that people-centred design and leadership in
7
8 addressing problems facilitate more efficient use of resources, strengthen coordination
9
10 and build local capacities.[10] The World Health Organization (WHO), United Nations
11
12 Children's Fund (UNICEF) and development partners support CE with resource
13
14 mobilization, information, and trainings with various outcomes and competencies.[11]
15
16 However, there is no harmonized CE documentation package based on local contexts
17
18 for training. This project was initiated to guide health practitioners in promoting local
19
20 action, and to facilitate involvement, training, and synergies across health and
21
22 development sectors to achieve collective outputs and outcomes.[12-15] It responds to
23
24 the need to invest in effective social innovations grounded on CE, which utilize bottom-
25
26 up approaches and draw on strengths of individuals, communities, and institutions, while
27
28 promoting synergies across sectors.[16-18]
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37 **The WHO Community Engagement Package**

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39 The WHO Department of Country Readiness Strengthening conceptualized and initiated
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41 the Community Engagement Package (CEP) project based on consultations within WHO
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43 Regional Offices and Headquarters. The CEP project[19] developed a database of CE
44
45 experiences, a CE learning package (CELP), and a CE workshop package (CEWP) based
46
47 on a broad scope of CE experiences in different settings. The compiled cases can guide
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49 program managers, CE practitioners, in-service medical and non-medical trainees, non-
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51 governmental organizations (NGO) staff, and multidisciplinary teams to sharpen their skills
52
53 in the CE approach.
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CEP Project Design and Components

The design of the CEP involved the creation of a database of relevant CE cases. These cases were categorized and analyzed, and themes and concepts were used to develop the CELP with contributions from CE subject matter experts (SMEs). The CEWP was designed to document "newer" CE experiences that can be incorporated into the database, ensuring regular updates of the learning resources (see Figure 1). Table 1 summarizes the three components of the CEP.

Figure 1. WHO Community Engagement Package Components and Relationships

Table 1 Descriptions of the Components of the WHO Community Engagement Package

Community Engagement Database	Organized collection of data and documentation of community engagement experiences, practices, and approaches in different regions and contexts.
Community Engagement Learning Package	Curation of community engagement lessons and tools presented as online (asynchronous) modules designed to capacitate learners on basic concepts, principles, and applications of community engagement, and explore best practice experiences in solving health problems and promoting health through community engagement.
Community Engagement Workshop Package	Provides tools and templates for identifying community engagement experiences in a workshop format. The contents are similar to the Community Engagement Learning Package, with a special focus on documenting "new" CE experiences and their nuances, and a walk-through of using and submitting case studies for the CE database.

Given the uniqueness, relevance, and value of the harmonized CEP in the context of health emergencies and the overall global health sphere, this paper seeks to document

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2
3
4 the processes and the innovative ways by which the CEP was developed at the height
5
6 of COVID-19 restrictions.
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11 12 **METHODS**

13 14 15 **Patient and Public Involvement**

16
17 The conceptualization, design, and conduct of the CEP involved participation and co-
18
19 creation among colleagues and potential end users in the WHO, SIHI hubs, UNICEF and
20
21 other implementing partners, and community practitioners and frontline responders.
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23

24 25 26 **CEP Human Resource Infrastructure and Way of Working**

27
28 The overall project methodology was anchored on CE principles and processes.
29
30 Colleagues in WHO (Headquarters and regions) participated in the CEP project. The
31
32 Social Innovation in Health Initiative (SIHI) global network contributed substantially to the
33
34 realization of the CEP.
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37 38 39 **WHO CEP Working Group**

40
41 The design of the CEP project came about after consultations with WHO colleagues
42
43 involved in CE work, bringing in experiences of WHO working with communities in different
44
45 contexts and settings.[19] These colleagues work in different thematic areas: health
46
47 promotion, social determinants of health, health systems, disaster risk reduction, risk
48
49 communication, healthy cities, community readiness and resilience, and population-
50
51 based focused work. As the CEP design was drafted, a working group (WG) was
52
53 established to provide technical advice and CE resources related to their respective
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4 areas of work. Regular WG meetings were conducted to ensure that they had updated
5
6 information and an opportunity to provide feedback to improve the package. Some
7
8 members of the WG also participated as resource persons in the CELP.
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10 The WG also consulted and regularly updated the RCCE Collective Services, which is
11
12 composed of WHO, UNICEF, International Federation of Red Cross and Red Crescent
13
14 Societies (IFRC) and Global Outbreak Alert and Response Network (GOARN). UNICEF
15
16 provided inputs regarding training.
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20 21 SIHI Global Network

22 The SIHI Philippines Hub is the main implementing agency of the project. It is part of the
23
24 SIHI global network of research hubs and other partners supported by TDR, the Special
25
26 Programme for Research and Training in Tropical Diseases. SIHI hubs have expertise and
27
28 experience documenting social innovations from communities and communicating
29
30 these innovations with stakeholders.
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34 Led by the SIHI Philippines, the SIHI hubs based in Colombia, Honduras, Malawi, Nigeria,
35
36 and South Africa also participated in this project. Together, they gathered published and
37
38 grey literature on CE and were involved in the development of the search terms and
39
40 selection criteria, case abstracts and identification of themes. SIHI Philippines
41
42 spearheaded the development of the prototype learning and workshop packages and
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44 facilitated regular virtual meetings with the other hubs and WHO staff for updates and
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46 consultation.
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Development of the Components of the CEP

The development of the components of the CEP can be characterized as iterative, collaborative and comprehensive and can be considered "community engagement in practice."

Development of the Community Engagement Database

The CE database is an organized collection of data and documentation of CE practices, experiences, and approaches used in different regions and contexts. Systematic search was done to gather and organize these, integrating multi-stakeholder and consultative approaches across the SIHI global network and key partners from WHO.

Search for Materials on Community Engagement

This phase identified materials that document experiences about CE in programs that address health or the social determinants of health. The search procedures were developed and co-created with SIHI hubs and the WHO using the "system lens" principles and a bottom-up approach. Methods were refined as feedback was collected during implementation.

A standard procedure was prescribed for literature search to ensure the quality of cases found and maximize use of search platforms. For published literature (i.e. case reports/series, review articles, research papers, journal articles), searches in PubMed, Google Scholar, Hinari, Research Gate, Scopus, Embase, LILACS were conducted. Other significant local and regional repositories were also explored.

The following standard search terms were used:

- (“social” OR “community” OR “stakeholder”) AND (“engagement” OR “partnerships” OR “participation” OR “action” OR “involvement” OR “empowerment”)
- (“social” OR “community”) AND (“ownership” OR “relations” OR “outreach”)
- “community-based participatory research”
- “population health management”
- “community-directed intervention”

These terms were also translated to French and Spanish and additional terms for a geographic location were also added to focus searches in these areas.

For grey literature (i.e. newsletters, unpublished reports or limited distribution, theses, conference papers/presentations, books, and others) general search engines were used and academic and professional networks were tapped. Materials in languages other than English were included, with interpretation assistance from the SIHI network. Audiovisual materials were collected from credible organizational partners of WHO and SIHI, sources recommended by these organizations, and verified social media accounts and websites.

Interviews, surveys, and correspondence with CE practitioners were facilitated to identify undocumented CE practices. Academic and professional networks of the SIHI network, WHO, and partners were engaged in identifying undocumented CE practices for inclusion. Virtual communication technologies were utilized because of travel restrictions. Recordings or transcripts were obtained for documentation. The reviews were conducted by the project staff and SIHI hubs in coordination with the WG.

Following PRISMA's recommended process flow, materials collected were screened initially through the title and abstract, when available. These were then assessed based on the selection criteria.

Selection Criteria

A set of criteria (Table 2) was developed to standardize relevant CE cases that were entered into the database. This was based on inputs from various stakeholders and was finalized with consensus from WHO and the participating SIHI hubs. Definitions of specific terms also provided additional guidance.

Table 2 Inclusion criteria and guiding definitions for the selection of community engagement materials

Inclusion Criteria
1. Documented in reputable sources or can provide information/documentation for the assessment of validity
2. Articles published in the last 10 years or undocumented experiences active within the last 10 years

3. All community engagement criteria are met:
- a. Captures or documents experience on community engagement addressing a health need or social determinants of health
 - b. Uses a participatory approach and active two-way communication using language appropriate for different actors and stakeholders
 - c. Encourages collaboration/synergies and sharing of expertise with various stakeholders and sectors, mainly, but not limited to, marginalized groups to improve capacities
 - d. Involves the community in the different phases of implementation of the intervention/strategy such as planning, context analysis, decision making, research, monitoring, evaluation and/or learning to ensure inclusive representation, maximum participation, and uncompromised consultation
 - e. Builds and sustains trust within the community

To simplify the assessment of trust, the following criteria based on the work of Di Napoli et al.[20], have been adopted. At least two of the four criteria must be met to indicate trust with the community:

 - i. Presence of interest and competence in offering services that support the community's needs and allows the realization of the community members' aspirations
 - ii. Community members are willing to participate in the improvement of the community through their effort of contribution of valuable resources
 - iii. Community members find pleasure and meaning in spending their time participating
 - iv. Community members expect that the engagement will improve future resources related to security, decision-making, participation, and achieving their goals

Definitions of Terms

Communities	Groups of people who may or may not be spatially connected, but share common interests, concerns, or identities. These communities could be local, national or international, with specific or broad interests[21]
Community engagement	<p>"The process of working collaboratively with and through groups of people affiliated by geographic proximity, special interest, or similar situations to address issues affecting the well-being of those people"[22]</p> <p>"The process of developing relationships that enable stakeholders to work together to address health-related issues and promote wellbeing to achieve positive health impact and outcomes"[23]</p>

Social determinants of health	"Non-medical factors that influence health outcomes". They are circumstances where "people are born, grow, work, live, and age, and the wider set of forces and systems shaping the conditions of daily life"[24]
Trust	"Positive expectations of community members toward the current and future opportunities they perceive in their local community, namely the place where they live and interact"[20] Building purposeful and compassionate relationships through a resilient and community-competent health workforce that adapts to the needs and preferences of the people they serve[25]

Writing Case Summaries

A summary was written for each identified case including the project's name, implementing institution, number of years the project was implemented, implementation site, and health issues/topic addressed. The rationale, objectives, intervention, outcomes, lessons, challenges, and factors promoting and/or impeding CE were abstracted. Social innovations, if any, were included.

Compilation of Materials

All selected and created documents were uploaded to the project's Google Drive and kept in storage, pending migration to a WHO repository for the database, CELP, and CEWP.

Analysis and Identification of Common Themes

Content analysis of the summaries and other data extracted from the screened materials was done using open coding. Key ideas and nuances were identified and grouped into categories and themes. These were then used to tag and organize the materials in the database.

Development of the Community Engagement Learning Package

The CELP is a curation of CE lessons and tools presented as online (asynchronous) modules designed to capacitate learners on basic concepts, principles, and applications of CE, and explore best practice experiences in solving health problems and promoting health through CE. In-depth analysis done with the contents of the database identified important CE principles, practices, lessons, challenges, and barriers encountered in different contexts and regions. Existing CE frameworks, toolkits, and guides were also surveyed. Emerging themes and concepts were utilized as the basis for the development of the CELP. SMEs contributed to the contents of the CELP designed to be delivered in an online learning management system.

Initial outline and plans for the CELP were also vetted among the CEP WG, and stakeholders and partners who have extensive experience in engaging and mobilizing communities, both at the regional and global levels. Comments, critiques, suggestions, and recommendations that emerged from the series of vetting processes further shaped and enhanced the content of the learning package.

Development of the Community Engagement Workshop Package

The CEWP was developed as a complementary strategy to the CELP, highlighting important topics and practical activities that might be useful for participants to enhance their CE practice. It was initially designed for face-to-face engagements, but because of the restrictions brought about by the pandemic, the pilot implementation was done online. The package materials were made into a downloadable format that can be adapted in either online or face-to-face settings. Different iterations of the activity design were developed based on the different possible country contexts, utilizing the input from

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4 SIHI networks and frontline responders engaging specific issues and populations -
5 migrants, indigenous populations, people living with disabilities, women, elderly and
6 youths.
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10 11 12 Testing the Learning and Workshop Packages

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14 Prototypes of the packages were tested among stakeholders, particularly community
15 mobilizers, public health practitioners and other potential end-users.
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19 An online platform was created to test the online learning package. Pilot participants
20 were selected using criteria that facilitated the inclusion of different groups and were
21 invited to undergo the online asynchronous training. Feedback from the participants
22 were obtained through online evaluation forms and were used to guide the revision of
23 the training design.
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31 Pilot testing for the workshop package was conducted in two phases through an online
32 video conferencing platform. The first phase was implemented among participants from
33 the Philippines. The pilot run tested the regional applicability and impact of the materials
34 and content. The second phase was conducted among a global set of participants,
35 which tested its universal applicability and impact. In both phases, user experiences were
36 collected and used to refine the packages.
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46 47 Ethical Considerations

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49 The development of the CEP did not entail participation of human subjects that requires
50 ethical approval by the WHO Ethics Review Committee.[26] The collection of feedback
51 from pilot participants is a regular mechanism to evaluate training. Informed consent was
52 obtained before documenting CE practitioners' experiences and recording workshop
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4 proceedings. Information about the project and its objectives and the extent of their
5
6 participation were discussed.
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9 10 **Monitoring & Evaluation in Project Development**

11 Regular internal SIHI and WHO reviews and consultative processes were facilitated to
12
13 ensure that project deliverables met the needs of the end-users and fulfilled the
14
15 objectives of the project.
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17

18 19 **Limitations in Conducting the CEP Activities/Process**

20 All engagements and coordination for this project were done remotely using online
21
22 platforms due to the restrictions brought about by the COVID-19 pandemic. The team
23
24 ensured that participatory approaches were reinforced and the voices of CE
25
26 practitioners were incorporated in the CEP.
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30 31 **RESULTS**

32 33 **Community Engagement Database**

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35 A database of experiences on CE was developed across public health in different
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37 settings. WHO and partners identified relevant resources that captured CE experiences,
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39 using the prescribed inclusion criteria. Materials in various formats (documents, videos,
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41 etc.) that highlighted the practices, lessons and challenges in working with the
42
43 communities were compiled. The documents and related materials are in English,
44
45 Spanish, and French. Summaries of documented CE cases are available in English.
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Categories of Cases in the CE Database

There are 356 cases in the database (290 identified from published literature, 57 from grey literature, and nine from CE practitioner interviews) from all six WHO regions, categorized according to the health topic (Table 3). In addition, a total of 56 cases dealing with health emergencies were identified with 30 cases on COVID-19, 12 on Ebola, nine on environmental risk and disaster, and five on humanitarian crises.

Table 3 Distribution of Cases According to Health Topic and the WHO Regions

Health Topic Category	No. of Cases per WHO Region						Total
	AFR	EMR	EUR	PAHO	SEAR	WPR	
Communicable Diseases	66	10	2	20	14	21	133
Primary Health Care	9	2	11	13	6	8	49
Maternal & Child Health	9	1	2	5	5	3	25
WASH	6	0	1	3	1	0	11
Sexual & Reproductive Health	3	2	2	4	1	2	14
Social Determinant of Health	1	5	13	27	7	3	56
Mental Health	0	3	1	5	1	4	14
NCDs	1	3	4	3	8	11	30
Nutrition	0	0	0	2	2	2	6
Others	3	0	5	3	5	2	18
Total	98	26	41	85	50	56	356

CE Practitioner Interviews

Seven CE practitioner interviews were conducted – five interviewees from AFRO, one each from PAHO and WPRO. These interviews identified nine unpublished CE experiences and explored CE strategies and dynamics and how that influenced the sustainability of health interventions.

Thematic Analysis

The case summaries were coded and analyzed, capturing themes from the rationale for CE, key insights, facilitating factors, and barriers. The documentation of the thematic analysis is available in an additional document in the database. Table 4 presents the thematic areas that emerged from the review of the cases.

Table 4 Summary of Themes from the Community Engagement Cases

Rationale for Community Engagement	Contextual and health system challenges Health and social goals Mechanisms
Key Points and Insights	Community mobilization Individual and community agency Multi-stakeholder engagement Multidirectional communication Building on local capacity Access, acceptability and adaptation Inclusion Sustainability Participatory research Basic principles
Facilitators of Community Engagement	Adapting the intervention Applying participatory principles and approaches Maximizing reach and access Utilizing support mechanisms

Barriers to Community Engagement	Societal and contextual issues Challenges with leadership Weak health system Challenges in encouraging and sustaining participation Inadequate reach and access Knowledge/information gaps Lack of trust Issues in communication Inadequate or improper allocation of resources Organizational and logistic problems Challenges on the sustainability and generalizability of the project Timing and duration of community engagement
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Community Engagement Learning Package (CELP)

From the CE materials collected, the CELP was developed anchored on basic principles and standards of CE and grounded on actual experiences in working with communities in different contexts and settings. The CELP includes four self-instructional modules that participants may complete independently or as a ladder-type course. Each module presents basic frameworks and concepts of CE in relation to the theme of that module and are then tied to real world examples of CE in different contexts (see Table 5). Target learners include early to mid-level professionals and practitioners applying community engagement in their work who may come from various disciplines such as medical and health sciences, public health, public policy and administration, program management, social development and other social sciences. Students both at the undergraduate and postgraduate levels of any higher education institution, from various disciplines as mentioned above may also benefit from the modules.

Table 5 **Modules of the Community Engagement Learning Package**

Module Title	Main framework/s used	Sample cases used
Module 1: Engaging and Mobilizing Communities for Health and Development	<p>WHO community engagement framework for quality, people-centred and resilient health services[23]</p> <p>Community engagement: a health promotion guide for universal health coverage in the hands of the people[27]</p>	<p>Setting health priorities in a community: a case example Sousa et al., 2017[32]</p> <p>Participatory learning and action to address type 2 diabetes in rural Bangladesh: a qualitative process evaluation Morrison et al., 2019[33]</p> <p>Community engagement in outbreak response: lessons from the 2014–2016 Ebola outbreak in Sierra Leone Bedson et al., 2020[34]</p> <p>'What works here doesn't work there': The significance of local context for a sustainable and replicable asset-based community intervention aimed at promoting social interaction in later life. Wildman et al., 2019[35]</p>
Module 2: Strengthening Health Systems through Community Engagement	Systems thinking for health systems strengthening[28]	Achieving UHC in Samoa through Revitalizing PHC and Reinvigorating the Role of Village Women Groups Baghirov et al., 2019[36]
Module 3: Community Engagement in All-Hazards Emergency and Disaster Risk Management	<p>Sendai framework for disaster risk reduction 2015–2030[29]</p> <p>Health Emergency and Disaster Risk Management Framework[30]</p>	Shifting Paradigms: Strengthening Institutions for Community-Based Disaster Risk Reduction and Management Bawagan et al., 2015[37]

Module 4: Community Engagement as a Driver for Achieving Health Equity and Community Resilience	Minimum Quality Standards and Indicators for Community Engagement[31]	Integrated vector control of Chagas disease in Guatemala: a case of social innovation in health Castro-Arroyave et al., 2020[38]
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The pilot participants found the CELP to be comprehensive in terms of content and with a user-friendly format. They appreciated how other concepts in public health were linked to CE. They suggested more practical applications and specific how-to's, and assessment activities with immediate feedback. These were all taken into consideration in the revision of the modules.

Community Engagement Workshop Package (CEWP)

The CEWP provides tools and templates for identifying other CE experiences in a workshop format. The contents are similar to the CELP, with a special focus on documenting "new" CE experiences and a walk-through of using and submitting case studies for the CE database. The target participants are practitioners who are interested in sharing their CE experiences. The CEWP allows the continuous collection of evidence and discussions with stakeholders on CE principles, practices, and frameworks. These resources will be cataloged, categorized, and used to update the database and the learning and workshop packages.

Participants and observers of the CEWP pilot were satisfied with the introduction and ice-breaking activities which set the stage for conducive training sessions. Participants also expressed satisfaction on the content, pointing out that the workshop addressed aspects of CE not previously considered. The topics of the training were noted to be far-reaching,

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3
4 covering several CE frameworks, with good video presentations. Participants were able
5
6 to relate the lessons and case studies to their experiences. They pointed out a few areas
7
8 of improvement, including the need for adequate time to study the cases prior to the
9
10 synchronous online sessions and more breakout sessions for participants to raise issues
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12 and ensure more diverse voices and opinions. They also recommended that the
13
14 frameworks need to further emphasize listening and understanding community
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16 perspectives right from the start of the engagement.
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20 21 **DISCUSSION**

22
23 The CEP and its development showcase innovative elements in the project design, the
24
25 human resources involved and way of working, and the interrelationships of the different
26
27 CEP components.
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31 The CEP conceptualization and design involved broad consultations and co-creation
32
33 with a community of diverse teams of WHO, SIHI hubs, UNICEF, and other implementing
34
35 partners, and frontline responders. The process and products of the package were
36
37 vetted among stakeholders and partners at the regional and global levels. In addition,
38
39 community practitioners were consulted regarding the screening criteria of cases to be
40
41 included in the database, shared undocumented CE practices, and participated in the
42
43 pilots of the learning and workshop packages to provide user feedback. This multi-
44
45 stakeholder consultative processes allowed for the creation of a grounded,
46
47 contextualized, relevant and integrated package.
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49

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51 Working on the CEP project during the COVID-19 pandemic did not deter the WHO and
52
53 SIHI from intensifying collaboration. The use of online platforms enabled the team to
54
55 engage and mobilize relevant resources and develop the CEP components despite the
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4 absence of face-to-face consultations and other limitations. Creative use of online
5
6 platforms was also maximized for the different components of the CEP (e.g., online
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8 database, online modules) while still providing templates for possible face-to-face
9
10 delivery, allowing for flexibility in engagement methods.

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12
13 The three components of the CEP feed into each other. The thematic analysis of the
14
15 materials in the CE database guided the design of the CELP and CEWP. Selected cases
16
17 were also used to reinforce and provide real-world application to the CE frameworks and
18
19 related concepts in the online modules. The CEWP facilitates the discussion of CE
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21 principles and practices among practitioners and the collection of new information for
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23 updating the database and CELP with "new" CE experiences.

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26
27 The merit of the current CEP project over existing documentation is that the CEP is broad-
28
29 based - not limited to health emergencies, but includes other public health and social
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31 developmental activities such as routine immunization, neglected tropical diseases, city
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33 and urban development, nutritional interventions and disaster risk management, among
34
35 others.

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38
39 An operational challenge during the documentation was the language barrier. The
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41 cases were limited to English, French and Spanish. Future researchers can explore
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43 relevant documented and undocumented experiences in other languages, which will
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45 make the database more comprehensive and unifying at the same time.

46 47 48 49 **CONCLUSION**

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51 The design of the CEP emphasized interrelationships among its components – CE
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53 database, learning package and workshop package. The CELP contents were taken
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55 from the comprehensive thematic analysis of the database. The CEWP facilitates the
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4 documentation of "new" CE experiences and their nuances, ensuring timely updates of
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6 the database by CE practitioners themselves.
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9 Most of the cases included in the CEP database presented key insights on CE including
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11 its basic principles and the role of individual and community agency, building on local
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13 capacity, multi-directional communication, inclusion, and multi-stakeholder
14
15 engagement. Barriers to CE including issues of access, acceptability and adoption in the
16
17 setting of weak health systems and societal issues were also identified. The learning and
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19 workshop packages were then developed to guide health professionals and other
20
21 stakeholders based on these grounds.
22
23

24
25 The development of the CEP was the work of multiple global stakeholders providing
26
27 synergistic contributions and bridging silos. The description of the CEP methodology will
28
29 allow replication, provide transparency into the development of the CEP and present
30
31 lessons learned during the development of a robust and harmonized package.
32
33

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41
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DATA SHARING/DATA AVAILABILITY

Data are available upon reasonable request.

ETHICS APPROVAL STATEMENT

This study does not involve human participants.

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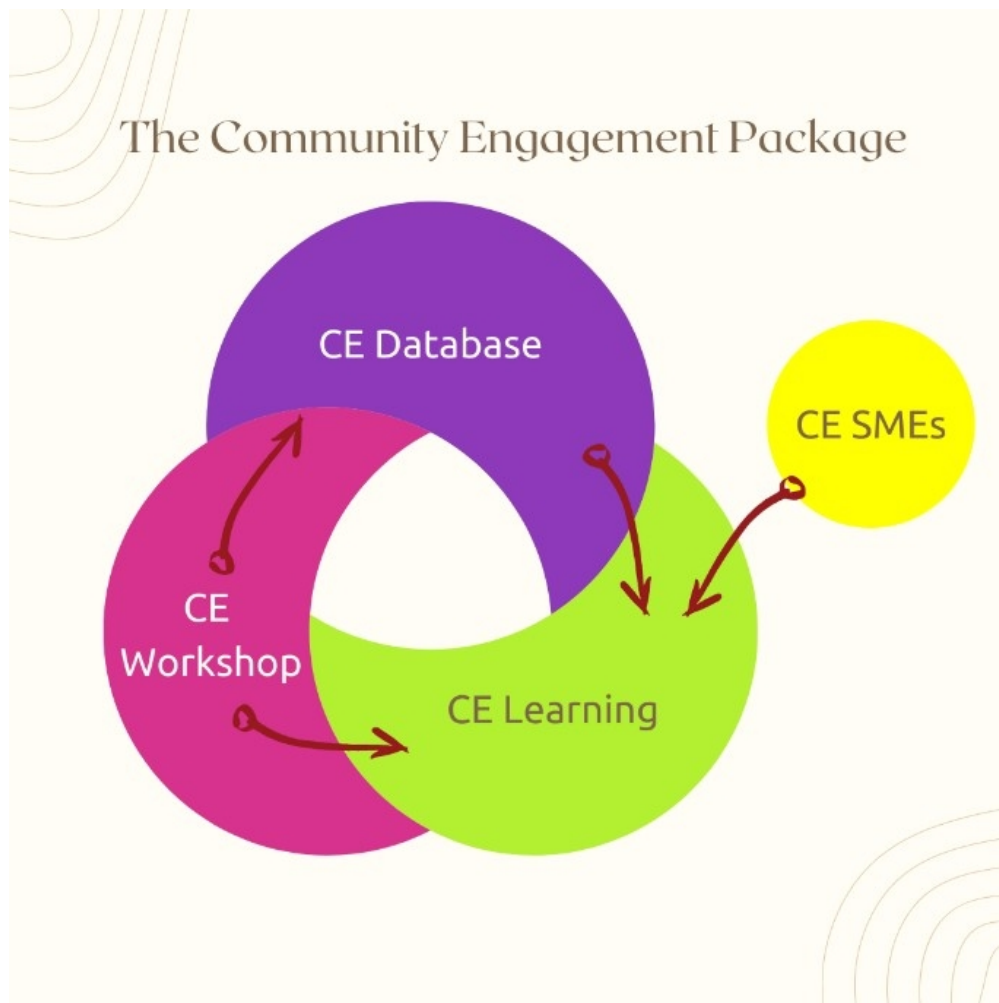
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Figure Legend

Figure 1. WHO Community Engagement Package Components and Relationships

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