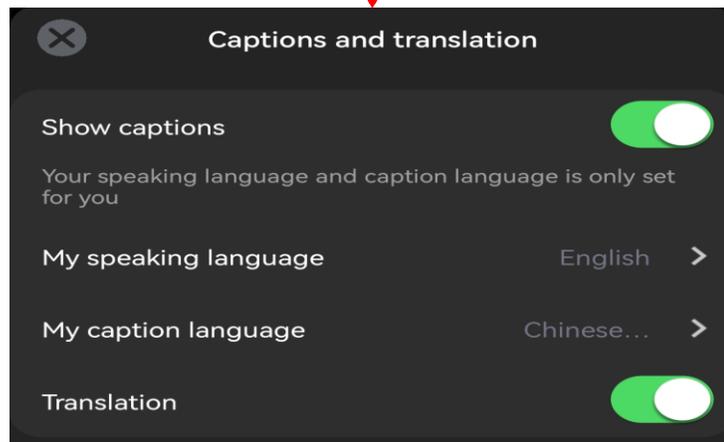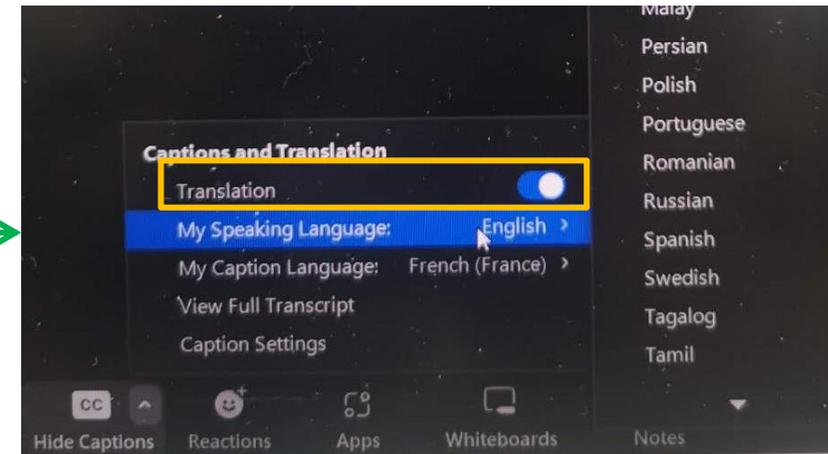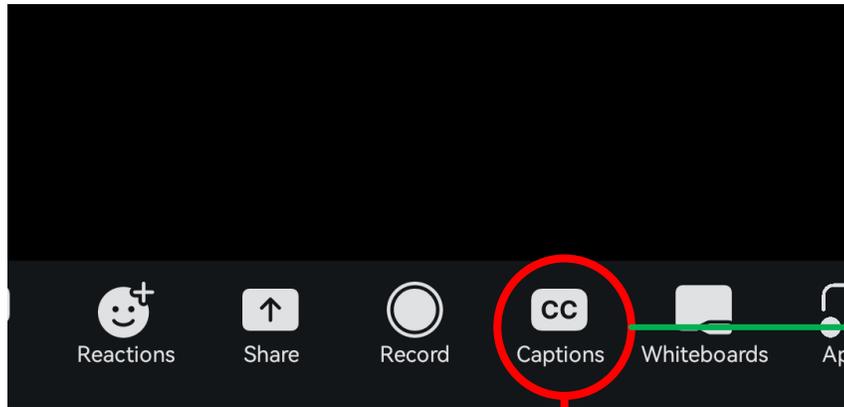# Non-English captions (words underneath)

Workshop Rules

1. Keep your microphone **muted**.

2. **Type questions directly in the chat box** and our team will respond.

3. **Unless** you are called by the moderator to speak, please **keep your microphone muted**.

4. Respect all participant's views and opinions.

5. Use identifiable names for yourself (avoid names like 'iPhone 6HF' or 'Huawei 2pro' or '….' or '1235CV'); leave your otter pilots at the door because…

6. All powerpoints and videos will be archived on the website (https://www.seshglobal.org/sihi-training-workshop-2024/) within 24 hours

7. Enjoy the workshop!

Social Innovation in Health Mid-Year Training Workshop

Social innovation training workshop outline

- **Purpose:** to enhance understanding of social innovation in health and its core components

- **Free** and open to all

- Focused on **social innovation in health**

- **Building** on the last social innovation training series[1]

- **Certificate** for those who join the sessions and complete surveys

[1]Tao, Tan et al. Social innovation in health training to engage researchers in resource-limited settings: process description and evaluation. *Health Promotion International.* 2024. 39: daae025

Schedule

- Every Tuesday at 1pm – 2pm WAT / 8pm – 9pm China (June 4th – July 23rd)
- Includes sessions on methodologies, practical strategies, skills for communication, theoretical foundations, and embedding social innovation in practice
- Participatory elements

SESH team members at a participatory event.
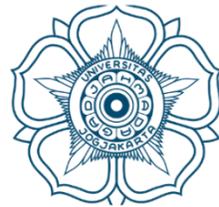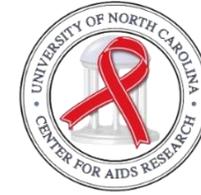
Participatory Health Research

Presenter: Gifty Marley, PhD

Postdoctoral Fellow, UNC-Project China

Date: June 4, 2024
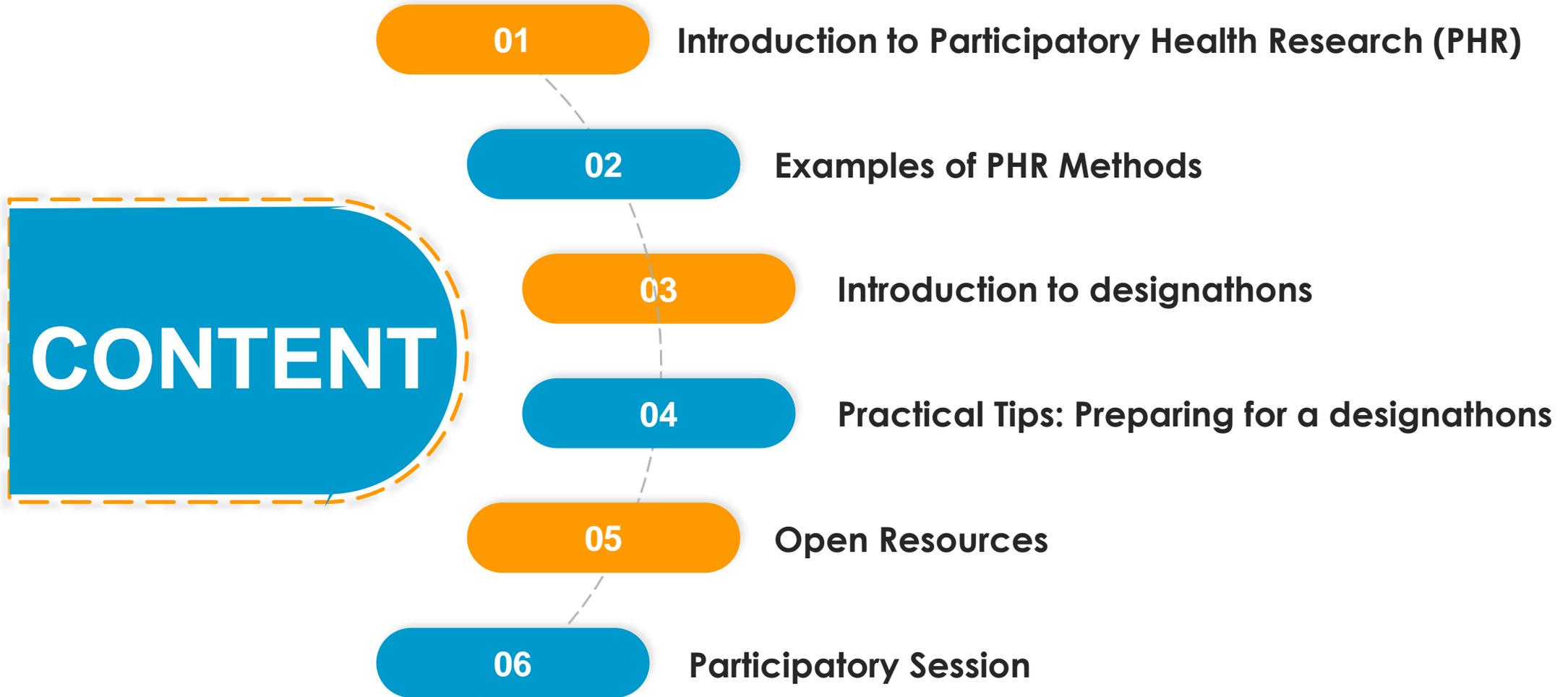
2023 SESH Global/UNC-Project China/GDDH Annual Meeting in Guangzhou, China.

4YouthByYouth Designathon in Lagos, Nigeria.

Designathon to develop HIV self-testing intervention in Guangzhou, China.

Introduction to Participatory Health Research (PHR)

DEFINITION

Participatory Health Research (PHR) is a research paradigm whereby the entirety of the research process is a partnership between stakeholders with different backgrounds and perspectives, like researchers, community members, policymakers, and others*

Note: Participatory research compels a trustful relationship between the researchers and community partners, which can promote community ownership of the study.

*Duea SR, Zimmerman EB, Vaughn LM, Dias S, Harris J. A Guide to Selecting Participatory Research Methods Based on Project and Partnership Goals. J Particip Res Methods. 2022;3(1):10.35844/001c.32605. doi: 10.35844/001c.32605. Epub 2022 May 23. PMID: 35799626; PMCID: PMC9258244.

RATIONALE FOR PHR

- Community benefits(greater power, increase research literacy, community empowerment).
- Researcher benefits(increase relevance, tailor interventions, spur innovation, shape trial participation, improve the implementation of evidence-based interventions, etc.)
- Enhances relationships between communities and researchers.
- Ethical imperative.
- Joy

ALS Ice Bucket Challenge as a participatory activity

All photos: Bing imges

Some Examples of PHR Methods

Community Advisory Boards (CABs)

Adapted Delphi

Crowdsourcing (including Designathons)

Co-Creation

Photovoice

Prediction Markets

Pop Quiz 1

Does planning your research with an NGO/CSO/CBO alone qualify as a participatory research approach? Why?

PHR Methods

PHR Methods	Definition	Function
Community Advisory Board (CAB)	A small group, comprised of community leaders and local institutional representatives that serves as a voice for the community and local study participants.	CABs provide input into study design and local study procedures to ensure that research strategies acknowledge and respect the values and cultural/ethnic differences among participants.
Adapted Delphi	A structured technique to moderate a group communication process effectively in allowing a group of individuals to deal with a complex problem	Used as a forecasting tool to build consensus around clinical issues and develop, describe and evaluate clinical guidelines or tools
Crowdsourcing	An innovative bottom-to-top problem-solving approach that harnesses the collective intelligence and diverse skills of a large community known as the 'crowd'. *Examples* *include designathons/ hackathons, sprint contests, and innovation contests.*	Generate innovative ideas, logos, images, videos, design a clinical prevention service, or new technology to improve a specific outcome

Examples of PHR Methods

PHR Method	Structure	Function
Co-creation	A collaboration and innovative problem-solving where researchers work together with program beneficiaries, regarding them as experts of their lived experiences.	To create a shared leadership role of program beneficiaries in the development and design of programs
Photovoice	A process by which people use images as a tool to deconstruct problems by posing meaningful questions in a community to find actionable solutions.	To encourage discussion, investigate experiences, highlight social justice issues, collaborate for change, identify needs, and more.
Prediction markets	Are online markets where participants trade contracts whose payoffs are tied to a future event, thereby yielding prices that can be interpreted as market-aggregated forecasts	Used to complement traditional forecasting models like expert panels, non-syndromic surveillance, or public polls

Pop Quiz 2

1) *Feasibility: When* **can you incorporate participatory elements into your study?**

2) *Need:* **When should you incorporate participatory elements into your study?**

Some participants of the designathon for HIV self-testing among youth in Nigeria. 2019
Source: 4YouthByYouth

INTRODUCTION TO DESIGNATHONS

What are Designathons?

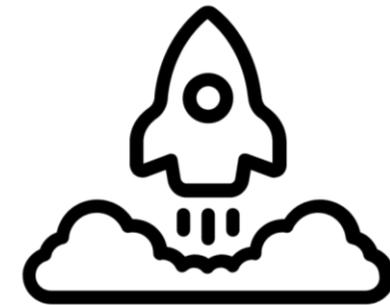A multi-stage community-engaged process that includes an open call to identify excellent ideas and people, a collaborative team-based event, and follow-up activities to implement.*
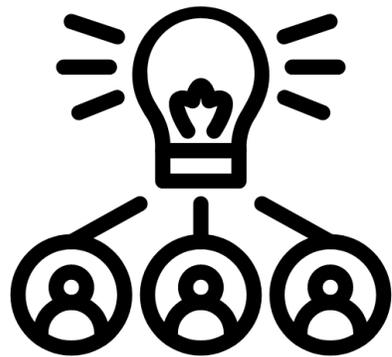
Open call to identify ideas/people

Collaborative team-based event

Follow-up implementation/ research

*Designathons are also called hackathons, hackfests, innovation challenges, sprint challenges, competitions, and open calls.

Conceptual Frameworks
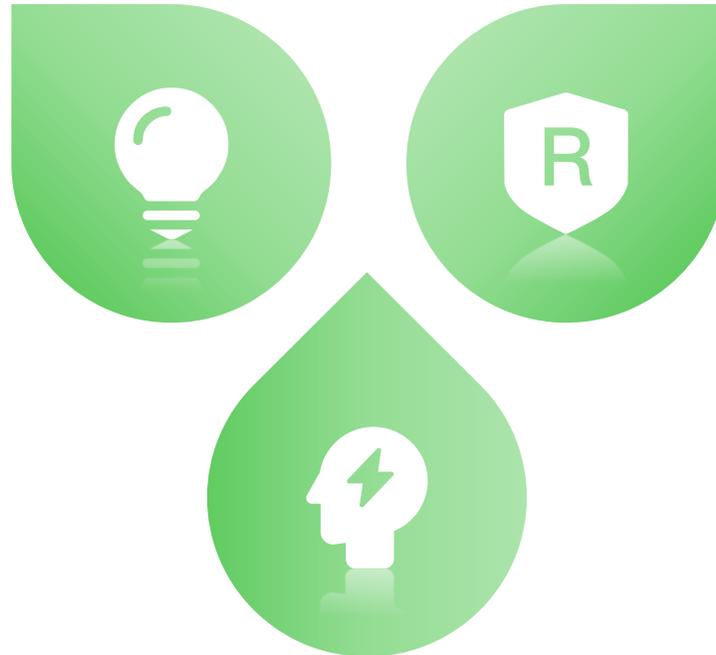
A

Designathons are underneath the larger categories of crowdsourcing, citizen science, and participatory science

C

Identify your community and engage them in the planning, implementation, and evaluation of the designathon

B

Organizers may be interested to use participatory action research (PAR), community-based participatory research (CBPR), human-centered design (HCD)

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Structure of a Designathon

Open call

Team-based event

Implement/research
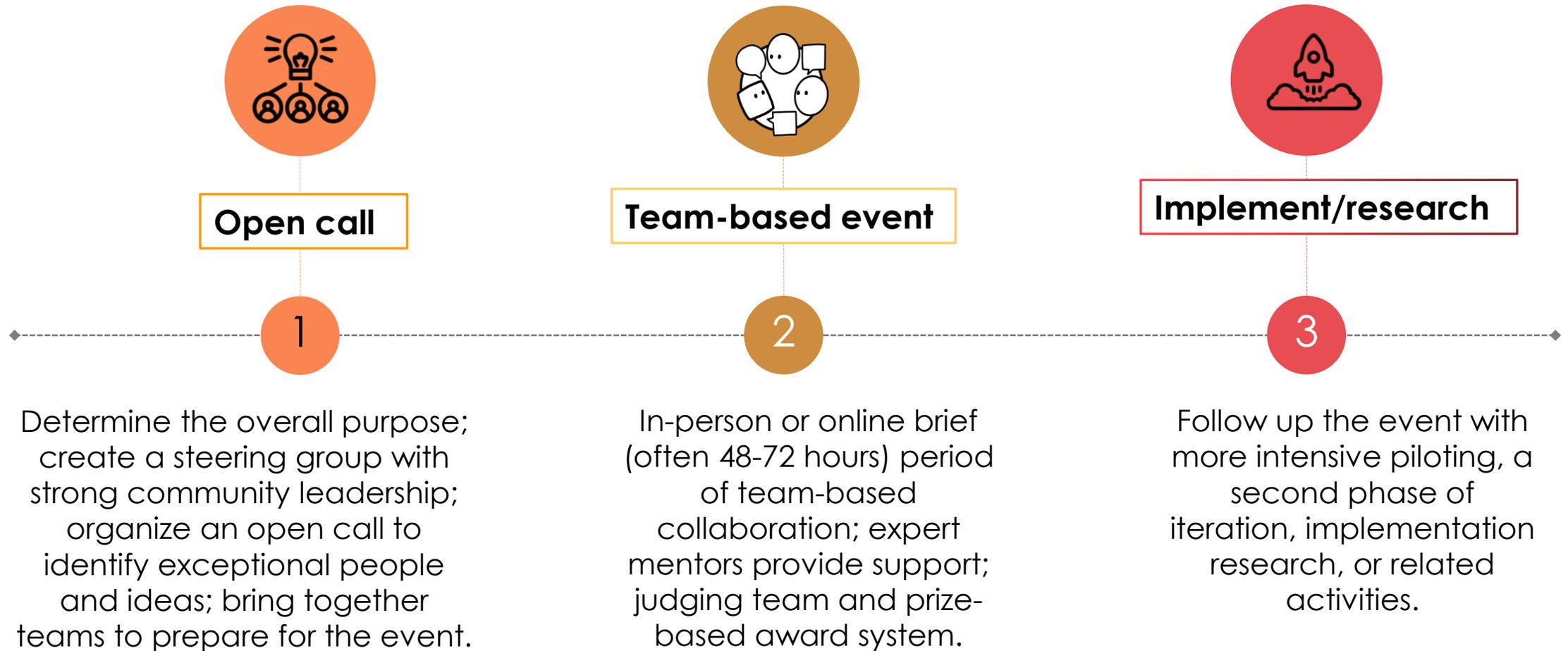
1

2

3

Determine the overall purpose; create a steering group with strong community leadership; organize an open call to identify exceptional people and ideas; bring together teams to prepare for the event.

In-person or online brief (often 48-72 hours) period of team-based collaboration; expert mentors provide support; judging team and prize-based award system.

Follow up the event with more intensive piloting, a second phase of iteration, implementation research, or related activities.

Risks and Mitigation Strategies

Lack of follow-through after the event

- Build a structured plan of implementation/research to make the event useful

Insufficient interest in the open call

- Use social media metrics to gauge interest and tweak promotion, incentives, details

Exacerbate inequalities

- Include end users in steering group and other key positions, use an intersectional approach in selection criteria

Digital divide

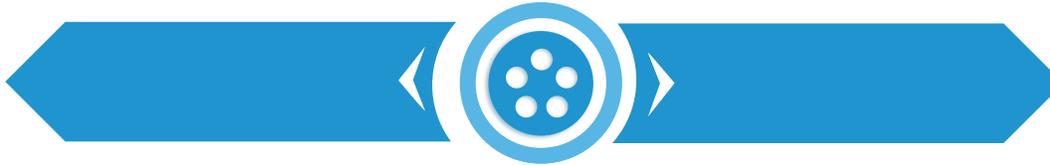- Create pathways for in-person participation

Benefits

Reduces disparities

Elevate people from marginalized backgrounds

Pro-social

Enhances multi-disciplinary collaboration

Fun!

Leverages networks & spurs innovation

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Essential bits for planning

Ask your self: What's for?

- Phototyping an intervention (i.e., PrEP adherence/persistence)?

- Developing an APP (i.e., Gay Friendly Doctor)?

- Developing a data analysis plan (data to analyze hackathon process and outcomes)?

Before preparation

- Is designathon appropriate for your task or problem?

- Who will be the participants of the designathon?

- When, where, and how long?

- In-person or Hybrid

- Cost

Things to know

Mentoring and judging group

- A group of mentors (between 5-8) is needed to provide mentoring, technical support, and advises to the designathon teams

- The mentors should engage in key stakeholders with multidiscipline experience/ skill, i.e., include individuals with expertise in public health, civil society, communications, design

- Discuss the aim, judging criteria, time-line with the mentoring team before the designathon during the mentor meeting

Participants

- Should include key stakeholders that closely work with the end-users of the designathon

- Widely disseminate a call for participation to identify participants

- Using multiple platforms and networks will increase heterogeneity

- Eight or more groups are expected, with a team with 3-5 participants

- Invite CBO leaders to nominate participants and crowdsourcing finalists to contribute

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Materials Checklist

➢ Read the designathon practical guide (download here:
https://socialinnovationinhealth.org/health-designathon-guide/)

➢ A handbook that clarifies the rules aim, prize structure, judging criteria, expectations, contact person, and agenda/activity outline.

➢ An agenda that details activities with time allocation and arrangement of the designathon (including location, hotel, meals, etc.).

➢ A steering committee, mentorship schedule, and judging rubrics

➢ A launched open call for participation

➢ Booked venue with break-out-rooms (for in-person designathon) or webinar participation details (for online)

➢ A pre-post designathon survey towards the participants, and mention what data will need to be collected from the participants

➢ Designated coordinator for technical support and logistics (like hotel booking, transportation, and designathon clarifications).

A bird's eye view of a pre-pandemic era hackathon from the
Source: *Global Aegon Hackathon*

Practical Tips: Implementing a designathon

Step 1: Offline, online, or hybrid?

Step 2: Key aspects of designathon

Pre-event activities: Coming to the designathon ready to go

- Group leaders to identify group members and make sure uniforms are mailed to each team

- Create group chats (Telegram, WhatsApp, WeChat)and identify the responsible contact person for each group

- Conduct pre-training for responsible contacting persons

- The layout of the competition area, making sure each group has an independent discussion space and that communication equipment is working properly

- Icebreakers for groups online

- Share high-scoring materials from previous designathons

- Disseminate materials and reminders

- Pre-race Q&A for participants

Agenda/Scheduling and timetables

Timeline	Activities	
Pre-Event Activities		
4 Weeks Prior	Setting up groups, group chats, ice-breakers, dissemination of material	
3-2 Weeks Prior	Sending high-scoring submissions for reference	
2 Weeks Prior	Online: Sourcing of space that's conducive for participation Offline: Ensuring travel arrangements are confirmed Sending of materials and links	
During The Event		
Day 1	8:30-10:00	Introductions, rules, contest details
	10:00-12:00	Small group discussions / mentoring sessions
	12:00-14:30	Lunch time
	14:30-17:30	Small group discussions / mentoring sessions
Day 2	8:30-17:30	Small group discussions / mentoring sessions
Day 3	08:30-13:00	Small group discussions / mentoring sessions
	13:00-18:00	Presentations, judging, presentation of prizes

Step 3: Logistics for the event

- **Technical support and technical/dry runs:** Ensuring software is installed and that all tech is prepared ahead of time

- **Accommodation and F&B**: Ensure that they are near the competition venue (book for 1 day prior up until the last day of the competition (or day after)

- **Payments and claims**: Usually better for the organizing team to handle payments; for participants joining elsewhere - ensure that participants adhere to a claims process

- **Arranging for optional off-site activities:** Team building and having fun!

Image: Online designathon group with SESH coordinator at the 2022 SESH Designathon in June 2022
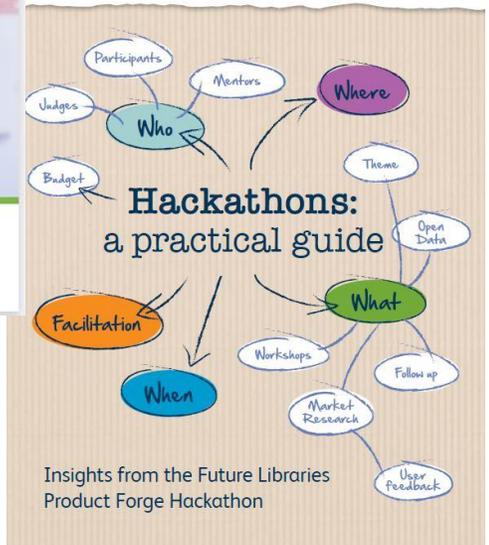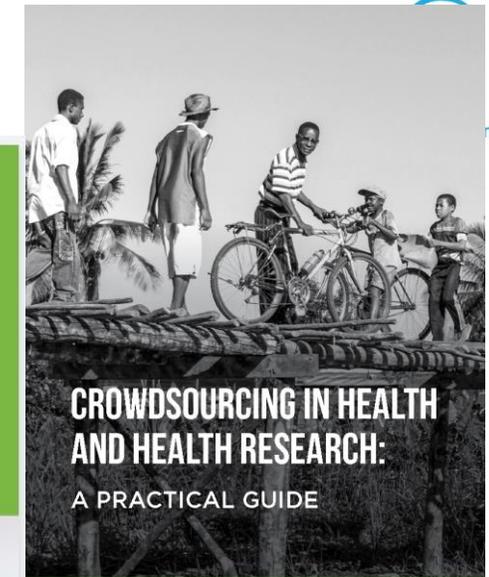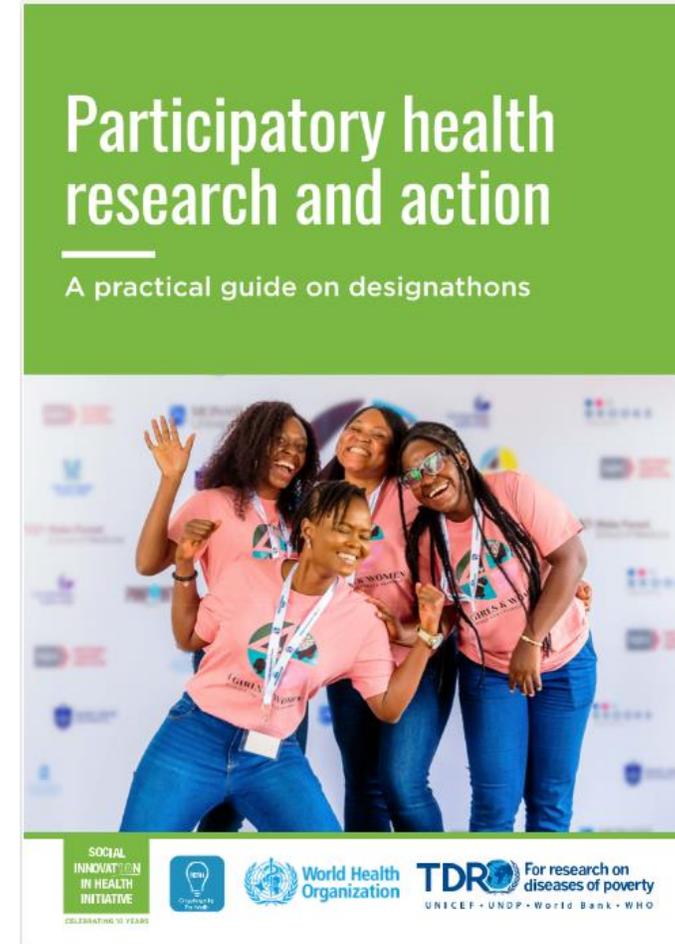
Open access resources

Crowdsourcing and collective intelligence:
- WHO/TDR Practical Guide on Crowdsourcing in Health and Health Research (2018) and WHO/TDR SIHI Consensus on Open Calls (2021)[1]
- Nesta Collective Intelligence Design Playbook (2021)

Designathons and hackathons:
- Participatory health research and action: A practical guide on designathons. Geneva: World Health Organization; 2024. Licence: CC BY-NC-SA 3.0 IGO. Available from: https://socialinnovationinhealth.org/health-designathon-guide/.
- Major League Hacking (MLH) Online Guide (2022)
- How to organize a hackathon (2020), Nolte et al., ArXIV
- MIT Health Hackathon Handbook (2016)

[1]Han et al., BMJ Open, 2021

Participatory health research and action: A practical guide on designathons

CROWDSOURCING IN HEALTH AND HEALTH RESEARCH: A PRACTICAL GUIDE

Hackathons: a practical guide

Insights from the Future Libraries Product Forge Hackathon

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Acknowledgement

Co-creation Team
- Dr. Joseph D. Tucker
- Dr. Ogechukwu B. Aribodor
- Ms. Lauren Elizabeth Fidelak
- Mr. Munawar Koray
- Ms. Ujunwa Onyeama

Moderators
- Dr. Weiming Tang
- Dr. Eneyi Kpokiri
- Dr. Chunyan Li

Technical support team
- Ms. Yusha Tao
- Mr. Zhuoheng Yin
- Ms. Zixuan Zhu

Participatory Group Session

Image: The SESH team at the 2022 SESH Designathon in June 2022

Breakout Group Activities

Duration: 25mins

☐ **Directive:** Please follow the link in the chat box and complete the Zoom poll question based on your preferences and interests.

Poll question: Which small group activities would you like to join?

1. Crowdsourcing (Expert views)

2. Community Advisory boards (Expert views)

3. Co-creation (Expert views)

4. Participatory Health Research (Q&A)

Breakout Room Details

Rooms	Team	Description
Crowdsourcing	Dr Eneyi Kopkiri (Moderator) Yusha Tao (technical support)	The moderator will lead the group to discuss crowdsourcing and answer questions about how to organize open calls.
Community Advisory Board	Dr. Weiming Tang (Moderator) Zhuoheng Yin (technical support)	The moderator will lead the group to discuss community advisory boards and answer questions about how to organize them.
Co-creation	Dr. Chunyan Li (Moderator) Munawar Koray (technical support)	The moderator will lead the group to discuss co-creation and share some lessons learnt in organizing a successful co-creation.
Participatory Health Research Q&A	Dr. Joseph Tucker (Moderator) Ujunwa Onyeama (technical support)	The moderator will answer questions about participatory health research and its importance to equity in healthcare.
Trivia: Participatory Research Version	Dr. Ogechukwu Aribodor & Dr. Gifty Marley (Moderator) Lauren Fidelak & Zixuan Zhu (technical support)	Participants in this group will play a game of Trivia featuring participatory health research-related questions. The top three participants with the highest scores will receive non-monetary prizes.

Trivia: Participatory Research Version
Moderator: Drs. Ogechukwu Aribodor & Gifty Marley

Trivia: Participatory Research Version Rules

Directions

1. Change your username to a recognizable name.

2. Use the <u>raise hand</u> option in Zoom to signal the game master.

3. When called, provide your answer to the question by typing in the chat box

4. Providing a correct answer within **30 seconds** after the question is asked earns you 10 points per question.

5. A wrong answer is passed to the next person with a raised hand, earning them a <u>bonus of 5 points</u>.

6. Remember to keep the scores for your total points won.

7. The top three winners will be announced at the end of the game.

Prizes:

1st place: A one-on-one meeting with Dr Joseph Tucker where you can ask any questions about participatory health research and social innovation in health; recognition on the SIHI training website and a shoutout on X(Twitter); bragging rights.

2nd place: recognition on the SIHI training website, a shoutout on X(Twitter), and bragging rights.

3rd place: bragging rights.

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Questions

01

02

03

04

05

06

Trivia: Participatory Research Version

07

08

09

10

11

12

Trivia: Participatory Research Version Answers

1. Community-Based Participatory Research
2. Collaboration/partnership
3. Answer: Co-learning
4. Empowerment/community partnership
5. In-depth interviews/Stakeholder interviews
6. Informed consent
7. Scoping review
8. False
9. To provide input into the study design
10. Designathon
11. Crowdsourcing
12. False

Thank you

Email: gifty.marley@seshglobal.org

HIDDEN BONUS GAME WITH ANSWERS: PLAY WITH COLLEAGUES AND FRIENDS.

Jeopardy: Participatory Health Research Version

Jeopardy: Participatory Health Research Edition Rules

Directions

1. Use the <u>raise hand</u> option in Zoom to signal the game master.

2. When called, turn on your <u>audio</u> to select a question from the categories based on the number of points you want: *PHR Fundamentals and Methods; Public Health; or PHR Principles and Outcomes.*

3. Answer the question starting with the phrase '<u>what is …</u>'

4. Providing a correct answer wins you the points associated with the question.

5. A wrong answer is passed to the next person with a raised hand as a <u>bonus with half the points</u>.

6. Those who provide a correct answer can switch to another category when it is their turn.

7. All answers should be provided using the audio or by typing in the chat box.

Category: Fundamentals and Methods

200 pts

400 pts

600 pts

800 pts

Category: Principles and Outcomes

200 pts

400 pts

600 pts

800 pts

Category: Public Health

200 pts

400 pts

600 pts

800 pts

Jeopardy: Health Research Edition Answers

Category: Fundamentals and Methods Answers

- 200 pts: What is **collaboration/partnership**?
- 400 pts: What **is community-based participatory research**?
- 600 pts: What is a **focus group**?
- 800 pts: What is a **Community Advisory Board**?

Category: Principles and Outcomes

- 200 pts: What is **co-learning and mutual benefit**?
- 400 pts: What is **community empowerment**?
- 600 pts: What is **partnership sustainability/sustainable partnership**?
- 800 pts: What is **power sharing**?

Category: Public Health

- 200 pts: What is **prevalence**?
- 400 pts: What is the **World Health Organization (WHO)**?
- 600 pts: What is the **study population**?
- 800 pts: What is **randomization**?