Global Health
recommender systems

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Background
3–5 MAY 2022, CICG, Geneva and Online

GENEVA HEALTH FORUM

THE FORUM THAT BRINGS TOGETHER KEY ACTORS OF GLOBAL HEALTH

ABOUT  CALL

1600 Participants
80 Countries
3 Days
120 Innovations
6 Reasons To Participate

- Empower Yourself To Tackle The Most Important Global Health Challenges
- Expand Your Network With A Large Number Of Researchers And Institutions Around The World
- Learn About Innovative Solutions To Key Global Health Challenges
- Promote Your Values, Activities, Solutions And Products
- Promote Your Ideas To Key Global Health Stakeholders
- Initiate Collaborations

Field Actors
Academics
Private Sectors
Policy-Makers
## Information overload…

<table>
<thead>
<tr>
<th>Time</th>
<th>Track 1: Health system</th>
<th>Track 2: Health care</th>
<th>Track 3: Health actors</th>
<th>Track 4: Research and development</th>
<th>Track 5: Communication</th>
<th>Hosted meetings</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00</td>
<td>ES1.1 La maintenance des dispositifs médicaux dans les pays en développement - avec ou sans équipements de contrôle, mesure et essai?</td>
<td>ES1.2 Digital twin: beyond listening</td>
<td>ES1.3 The future in our toilets - digital health breakthroughs &amp; the smart sanitation economy</td>
<td>ES1.4 Writing clinical practice guidelines: could we be better and quicker?</td>
<td>ES1.5 Serious game, virtual reality, simulation: sharing experience</td>
<td>ES1.6 Aging: living longer and healthier or just longer?</td>
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</tbody>
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### 08:15
**Plenary 3 - Blockchain for Global Health**

### 09:00
**Plenary 4 - Cybersecurity and the health system: What risks for patients?**

### 10:30
Coffee break, visit, exhibition, Photo exhibitions

### 11:00
- WS91 Diabetes and E-Health solutions: innovative and limited settings; options or real opportunities for equity care?
- WS92 What do digital tools to develop a research in limited settings cost?
- WS93 Defining the specifications to carry out a diagnosis tool in developing settings: a multilingual platform in one day at an affordable price in a district hospital in Africa?
- WS94 What have we learned from the Digital Age - Old Tools, New Tools?
- WS95 Humanitarian aid: is digital health accessible in a resource-limited health challenge?
- WS96 Learn how to use UpLabs: when a health crisis comes, what tools to use?
- WS97 Mental health: Do digital tools matter in mental health challenges?
- WS98 What have we learned on health from the Rich World?
- WS99 Cybersecurity and hospital: what’s the issue?
- WS100 Digital health and integrations: Blood transfusion in the era of big data
- WS11 Health promotion’s digital moves
- WS12 Are we ready for the next emerging pandemics? Opportunities and challenges in the digital age

### 12:30
Lunch break, visit exhibition, Poster, Photo exhibitions

### 14:00
**Plenary 5 - Digital: What place will remain for the health professionals?**

### 15:00
Coffee break, visit exhibition, Poster, Photo exhibitions

### 16:00
- PS3.1 Global health security – Towards multi-stakeholder collaboration to confront the increasing threat of vector-borne diseases
- PS3.2 Technology for maternal, newborns and child health: Can we rely on it for the future?
- PS3.3 Increasing fairness and impact of research partnerships
- PS3.4 The “W”heem of Universal Health Coverage (UHC)
- PS3.5 Serious game, virtual reality, simulation: disruptive tools for training, sensitization, and care
- PS3.6 Information Technology as an innovative approach to address Non-Communicable Disease Health Promotion Administration, Ministry of Health and Welfare, Taiwan
- PS3.7 Health promotion’s digital moves

### 17:00
Coffee break, visit exhibition, Poster, Photo exhibitions

### 18:00
- SE1 Digital health, health, and health: A breakthrough for public health or creating new dependencies?
- SE2 Comment innover en santé globale? Le défi de la solidarité internationale - Organized by La Cité de la Santé Internationale
- SE3 Russia and global health
- SE4 Repenser l’action publique en matière de santé en Afrique organisé par la Charte de la Solidarité Internationale
- SE5 NCCR: Precision Epidemic Forecasting: Organized by the Institute of Global Health
- SE6 Precision Epidemic Forecasting, NCCR project

### 18:30
- Interim and job sharing with MRC Global Health (MgS/Coll) students
- Participatory Disease monitoring of influenza: Challenge the frontiers of the HIV/AIDS epidemic
- Participatory Disease monitoring of influenza: The Swartland Institute for Global Health Transformation
Identify needs and requirements for designing and developing a personalized recommender system to facilitate networking and collaboration in global health.
Questionnaire results
Participants profiles
In which of these categories do you fit?

93 réponses

- 31.2% Academics / Researchers
- 22.6% Industry / Private sector
- 10.8% Policy makers
- 8.5% International organizations
- 7.2% NGOs
- 6.6% Funders / Sponsors
- 5.6% Students
- 4.3% Student, individual
Participants needs
Share
Promote

Learn
Be informed of

Collaborate
Networking

Be part of
Share
Promote

Innovation

Global health issues

Best practices

Insights

Evidence-based experience

Knowledge

Specific topic
Learn
Be informed of

Important issues
New development
From expert in …
New initiatives /
  collaborations
State of the art

Actors in specific field
Hands-on experience
Research activities
Last projects going on
Getting new inspirations
Collaborate
Networking

Start new projects

Exchange informations / knowledge

Collaborate with developing countries

Exchange views on my research

Meeting new people, stakeholders,…

Identify projects on which to embark

Identify new funding opportunities
Be part of community / initiatives / projects /...
Specific collaboration needs
<table>
<thead>
<tr>
<th><strong>Initiate</strong></th>
<th><strong>Create</strong></th>
<th><strong>Target</strong></th>
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</thead>
<tbody>
<tr>
<td>Projects, studies, trials,…</td>
<td>Communities of practice</td>
<td>Collaboration for specific needs</td>
</tr>
<tr>
<td>On specific topics</td>
<td>On specific topics</td>
<td>Eg: hospital here with a lot of patients with tropical disease &lt;-&gt; students in LMICs with skills on tropical diseases</td>
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<tr>
<td>With other organization in the field</td>
<td>With contributions from multiple organizations</td>
<td>Eg: some people have ideas and skills but no resources</td>
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<tr>
<td>With LMICs, researchers, health prof.</td>
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Information issues
Yes, it was hard to find the right information

- Too many info
- Hard to navigate
- Info structure not clear
- Too much time to get to the right info
- Too many activities/events proposed
- Need better way to connect to other participants
- Too many posters, not well advertised, low attendance
Suggestion of improvements
<table>
<thead>
<tr>
<th>Share</th>
<th>Facilitate speed network</th>
<th>Organize special sessions</th>
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<tbody>
<tr>
<td>Contact details</td>
<td>In-person online</td>
<td>By themes</td>
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<tr>
<td>Affiliations</td>
<td>10mn tchat</td>
<td>By region</td>
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<tr>
<td>Bio</td>
<td>« random» speed activity</td>
<td>Informal events</td>
</tr>
<tr>
<td>Interests</td>
<td>Lighter program</td>
<td>Networking nights</td>
</tr>
<tr>
<td>Expertise</td>
<td>and more time for social interaction</td>
<td>Gathertown</td>
</tr>
<tr>
<td>Experience</td>
<td></td>
<td>Regional think tank</td>
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<tr>
<td>Projects</td>
<td></td>
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<tr>
<td>Start profile</td>
<td></td>
<td></td>
</tr>
<tr>
<td>matching early</td>
<td></td>
<td></td>
</tr>
<tr>
<td>before GHF</td>
<td></td>
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Recommender systems
Would you like to see information filtered for you based on your interests in the GHF platform?

- Yes: 73.4%
- No: 26.6%

If the GHF were to implement a recommender system that would suggest people for you to network with and events for you to attend based on your interests and profile, would you want to use it?

- Yes: 89.9%
- No: 10.1%
Would you like to be connected to other participants based on their...

- **Domain of interest**: 67 (84.8%)
- **Expertise / Skills**: 59 (74.7%)
- **Location**: 30 (38%)
- **Language**: 19 (24.1%)
- **Profile (eg: researchers, industry)**: 41 (51.9%)
- **global health and geopolitics**: 1 (1.3%)
- **I am retiring, so probably don't**: 1 (1.3%)
What People Look For On Dating Apps

Domain of interest

Profile
Networking platform
Specific field / topic (eg. Maternal health)
Area of activity
Organization, affiliation
Job openings
Collaboration openings

Recommender systems

Profile
Interests
Research projects
Innovation
Location
New areas to explore
Value proposition
Main questions (FAQs)
FAQs

Who are the people working in the field of...?
Who are the people who has competencies/expertise in...?
Who are the people who has experience in...?
Who is open to collaboration?
Who are the people working on ... in my region?
Who are the people I can collaborate with to create/initiate a project on ...?
Who are the people I can discuss with about this topic?
Who are the people I can talk to, to promote or share about...?
Who are the people who can help me achieving [goals]...?
What are the new developments in... and who are the main actors?
People data modeling
Concept
GDH2ack
Onboarding

Demographic data

- Profile category
- Affiliation
- Role / job title
- Location
- Language

Build your introduction

My name is {name}... I have a background and experience in {skills}... My research area focuses on {research area}... I am particularly interested in {domain of interest}... I am looking for {profile category}... to {nature of collaboration}...
Enriching user profile

- CV
- Publications
  - Google scholar
  - Researchgate
  - IEEE profile
  - Pubmed
  - ORCID
- Previous events attended
- Projects
- Experience
  - LinkedIn
- Interaction with the platform
Needs: Before the GHF

Connect
People
Communities

Get inspired
Projects
Publications

Inspire
Share
Knowledge
Projects
Publications
Needs: During the GHF

Connect
- People
- Communities

Participate
- Talks
- Workshops
- Speed networking

Get inspired
- Showcases
- Demos
- Exhibitions
- Projects
- Publications

Inspire
- Share Knowledge
- Projects
- Publications
Needs: After the GHF

**Connect**
- People
- Communities

**Initiate**
- Collaboration

**Get inspired + Inspire**
- Informal events
- Networking nights
- Gathertown
- Share
- Knowledge
Space and Global Health Recommender systems
Needs for collaboration

Were you expecting /or would you like any form of collaboration between the members of the working group? If yes, what type of collaboration?
Value of a recommender system (RS)

How do you think a RS could be used to facilitate networking and collaboration in the space and global health community?

Are there specific features you would like to see included in such a system?
Match-making factors

How would you like to be connected with other members?
(ex: by domain of interest, skills, ...)
Long-term collaboration

In your opinion, how can we foster and sustain collaboration in Space and Global Health in general?
Based on our discussion today, we will send you shortly a questionnaire to fill.