WHO Hub for Pandemic and Epidemic Intelligence

July.2021
Global need for stronger pandemic & epidemic intelligence

... we need more meaningful cooperation during and in-between health emergencies; more transparency, more regular detailed exchange of real-time data and experiences at all levels, more reliability of interaction ...

Review Committee on the Functioning of the IHR, Executive Board Jan 2021

• Detect new events with pandemic potential
• Monitor disease control measures for pandemic and epidemic risk management
• Leverage innovations in data science for public health surveillance
We cannot continue to prepare for the last pandemic

What the Hub is about

» Embracing complexity.
» Dealing with uncertainty.
» Building learning systems.

“Complex systems are typically non-linear, changing at different rates depending on their states and their environment.”

Collaborative intelligence for preparedness

» Collaborative approach vs. competitive approach
» Collaborative methods development vs. centralizing expertise
» Collaborative capacities vs. linear exchanges between actors
» Collaborative adaptive systems vs. singular problem focus
Vision and Mission of the Hub for Pandemic and Epidemic Intelligence

Vision of WHO
Keep the world safe

Mission of the WHO Hub [DRAFT]
To build a system of collaborative intelligence enabling better decisions to avert and manage pandemic & epidemic risks
Parameters of the WHO Hub

- As part of WHO’s Health Emergency Programme supporting all aspects of emergency preparedness and response
- Demand-driven by the needs of Member States, partners, & WHO at all levels
- Attracts global expertise to add value to existing and new programmes of work
- Uses flexible ways to structure capacity & expertise including staff, consultants, fellows, secondments, in Berlin and globally
- Can rely on predictable core funding by Germany: 30 million EUR annually
- Aspirational resources: 150+ million EUR for the work of the Hub and its ecosystem
Pandemic and Epidemic Intelligence for Public Health

Pandemic & epidemic intelligence

Better data
Better analytics
Better decisions

Recovery
Prediction
Prevention
Response
Preparedness
Accelerate, innovate, connect

» **Better Data**: EPI-BRAIN
  - Semantic networks of distributed data
  - Connections across many sectors and disciplines

» **Better Analytics**: Insights Initiative
  - Collaborative and iterative exploration of data
  - Connected analytical solutions

» **Better Decisions**: Implementation Accelerator
  - Building a stronger global public health intelligence workforce
  - Building multisectoral networks of decision makers & communities of practice

**Underpinned by:**
- Connecting institutions and networks to find solutions for the present and future
- Education and capacity building for public health intelligence
The WHO Hub embraces complexity and leverages solutions through multi-disciplinary collaborative intelligence
Create new global collaborative environment

Magnet - Connector - Engine

- Magnet for the brightest minds
- Working across disciplines
- Building on the best technology
- Demand-driven innovation
- Linking global and local initiatives
- Nurturing communities of practice
## Accelerate existing initiatives & attract innovations [Examples]

### Accelerate
- Epidemic Intelligence from Open Sources (EIOS)
- Infodemic Management
- Infectious Disease Modelling Network
- Support One Health Intelligence efforts

### Innovate
- Bringing data together
  - Data source-landscaping & taxonomy
  - Linking health and non-health data
- Working together globally
  - 100 global professorships
  - International & multidisciplinary collaborations
Global consultation process | Overview

- Engagements with relevant stakeholders from all sectors and regions between June and August 2021
- 340+ individuals and organizations reached in about 50 workshops, briefings and consultations

### Regional consultation (<20 participants each)
- AFRO
- AMRO
- EMRO
- EURO
- SEARO
- WPRO (TBC)

### Bilateral and other briefings
- UN Global Pulse
- ISARIC
- GIOPIDR
- ECDC
- Commissioner Gabriel
- KDCA amongst others

### Multistakeholder engagements
- Civil society group
- Private sector group
- EIOS community (2x)
- Epidemic Modelling Group
- UN CMT
- IANPHI

### Exploration of local ecosystem in Berlin
- ~20 bilateral briefings
- 4 multistakeholder workshops (2x “Better Data and Better Analytics”, “One Health”, “Interdisciplinary Health Research”)
WHO Hub: Global scope of consultations
(as of 11/08/2021)

Number of participants
- 1-2
- 3-5
- 6-10
- 11-25
- 26-58

Country reached
Not applicable

* Consultation planning in progress in the Western Pacific region.

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Data Source: World Health Organization. CPC Analytics
Map Production: WHO Health Emergencies Programme
Request ID: RITM00057
WHO Hub: Global scope of consultations per sector
(as of 11/08/2021)

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Overall participation per outreach session

**REGIONAL CONSULTATION SESSIONS**

- **Eastern Mediterranean**: 20 participants
  - WHO Regional Staff: 28%
  - Academia: 11%
  - National Government: 50%
- **South-East Asia**: 31 participants
  - WHO Regional Staff: 42%
  - National Government Staff: 10%
  - Academia: 9%
- **African Region**: 23 participants
  - National Government Staff: 70%
  - Academia: 9%
  - National Government: 17%
- **Americas**: 39 participants
  - WHO Regional Staff: 31%
  - Academia: 21%
  - National Government: 33%
- **Europe**: 39 participants
  - WHO Regional Staff: 21%
  - Academia: 18%
  - National Government: 51%
- **Germany**: 58 participants
  - National Government: 51%
  - Academia: 19%

**MULTISTAKEHOLDER ENGAGEMENTS**

- **Civil Society Group**
  - 60 participants
  - AMRO 40%
  - EMRO 21%
  - SEARO 17%
  - WP 7%
- **Private Sector Group**
  - 11 participants
  - AMRO 49%
  - EURO 45%
  - WP 9%
- **Epidemic Modelling Group**
  - 14 participants
  - EURO 43%
  - AFRO 7%
  - AMRO 38%
- **EIOS**
  - 40 participants
  - EURO 38%
  - AMRO 40%
Inauguration, 1 September 2021
Thank you