

OMS Digital Pandemic Preparedness workshop: Agenda

Venue: Oxford Martin School Lecture Theatre, 34 Broad Street, Oxford, OX1 3BD

Monday 21st September

10:00 Registration and coffee
10:30 Session 1: *Welcome and workshop overview*
12:30 Lunch
13:30 Session 2: *UKHSA-led session*
15:00 Break
15:30 Session 3: *UKHSA-led session*
17:00 End

Tuesday 22nd September

09:00 Session 4: *Global perspectives on potential and challenges for digital tools*
10:30 Break
11:00 Session 5: *Ethical, efficient and responsible decision-making*
12:30 Lunch
13:30 Session 6: *Future requirements and opportunities, motivated by past experiences*
15:00 Break
15:30 Session 7: *Global and pathogenic variation in requirements*
17:00 End

19:30 Dinner

Wednesday 23rd September

09:00 Session 8: *The potential of data, and the challenges of collecting and sharing it*
10:30 Break
11:00 Session 9: *Behavioural and social considerations, and ways to measure impacts*
12:30 Lunch
13:30 Session 10: *What next?*
15:00 End



OMS Digital Pandemic Preparedness workshop: Programme

Monday 21st September

Session 1: *Welcome and workshop overview*

10:30 Christophe Fraser and the OMS Digital Pandemic Preparedness Team

Welcome and general notices

**The Oxford Martin School (OMS) Digital Pandemic Preparedness project:
background, scope, and aims for the workshop and beyond.**

12:00 Lightning talks - a rapid round-up of the programme's work:

[Younjung Kim](#) **Privacy-preserving epidemiological inference from digital exposure-history data**

[Jamie Webb](#) **A platform approach to ethics for digital pandemic preparedness**

[Michael Parker](#) **Situating the ethics of digital pandemic preparedness in the context of ethics of pandemic preparedness, response and prevention more broadly**

[Thomas Rawson](#) **Infectious disease and demography**

[Melinda Mills](#) **If you build it, will they come? Lessons from public participation from digital and health projects**

[Luca Ferretti](#) **Opportunities for epidemiological insights from app data**

12:30 *Lunch*

Session 2: *UKHSA-led session*

13:30 [Leanne Cummings](#) *Director of Products and Services for Government Digital Service*

Building Digital Resilience: Government Capabilities and Preparedness for Future Crisis

14:15 [Steven Riley](#) *Director General and Chief Data Officer, UK Health Security Agency (UKHSA)*

Preparing for the Next Pandemic: Prioritising Digital Technology Interventions

15:00 *Break*

Session 3: *UKHSA-led session*

15:30 Break-out groups led by Steven Riley

17:00 *End*



Tuesday 22nd September

Session 4: *Global perspectives on potential and challenges for digital tools*

Chair: Peter Horby

9:00 Randy Marsden *former project lead of Exposure Notifications at Apple*

The Triangle of Trust: Lessons from GAEN for the Next Pandemic

9:30 Jason Bay, *National University of Singapore; TraceTogether (Singapore)*

TraceTogether: Reflections on the future of Digital Contact Tracing Apps

10:00 Maria van Kerkhove *Director, Department of Epidemic and Pandemic Management, WHO Health Emergencies Programme*

Learnings and challenges from COVID-19, mpox, Ebola and more: how can digital public health tools help us to prevent and respond quicker for future events

10:30 *Break*

Session 5: *Ethical, efficient and responsible decision-making*

Chair: Michael Parker

11:00 Devi Sridhar *(online), Global Public Health, University of Edinburgh, UK*

A decision-making tree for policy responses to a pathogen with pandemic potential

11:30 Stephen John *Philosophy of Public Health, University of Cambridge, UK*

Pandemic policymaking, multiple perspectives and unexpected consequences: lessons from school closures

12:00 **Panel discussion:** *where does responsibility lie for a digital public health tool and its surrounding infrastructure? How can ethics be embedded? (Devi Sridhar, Stephen John, Peter Horby)*

12:30 *Lunch*



Session 6: *Future requirements and opportunities, motivated by past experiences*

Chair: Luca Ferretti

13:30 Wolfgang Emmerich Zuhlke (*NHS COVID-19 app*), *Computer Science, University College London, UK*

Providing a Digital Contact Tracing service in the first week of a Pandemic

14:00 Justus Benzler *Epidemiologist, Robert Koch Institute, Germany (Corona-Warn-App)*

Future Requirements and Opportunities for Universal and Frequent Testing - motivated by the German experience with the (imperfect) integration of lab- and community-based testing into an exposure notification app infrastructure

14:20 Vittoria Colizza *Founding Director of the Sorbonne Université Modeling Outbreaks Center; Director of Research at INSERM and Sorbonne Université, Paris, France*

From mobility traces to epidemic-relevant behaviour: lessons for pandemic preparedness

14:40 Samir Bhatt *Machine Learning and Public Health, University of Copenhagen, Denmark and Statistics and Public Health, Imperial College London, UK*

AI in Infectious Disease: An overview

15:00 *Break*

Session 7: *Global and pathogenic variation in requirements*

Chair: Christophe Fraser

15:30 Njenga Kariuki (*online*), *Global Health, Washington State University, USA*

Perspectives for the global South: challenges and opportunities for digital tools for LMICs

16:00 Katherine Littler, *Global Health ethics and governance, WHO Geneva, Switzerland*

Building ethical digital public health tools for public health emergencies: addressing governance challenges

16:30 **Panel discussion:** *variation by country, setting and pathogen – opportunities and challenges. How to build trust and create trustworthy digital tools?* (Njenga Kariuki, Katherine Littler, Jason Bay, Justus Benzler)

17:00 *End*

19:00 - 21:30 Dinner at Oxford University Museum of Natural History, Parks Road, OX1 3PW



Wednesday 23rd September

Session 8: *The potential of data, and the challenges of collecting and sharing it*

Chair: Christl Donnelly

9:00 Simon Cauchemez *Institut Pasteur, France*

Characterizing transmission from digital household studies

9:20 Navjot Kalra *Director of CEPI Digital*

Intelligence for Value: People, Process and Technology for Crisis-Ready Intelligence Sharing

9:40 James Wilson *philosophy, ethics and public health policy, University College London, UK*

Public health ethics, policy, and digital public health tools: how much, and what kinds of data should be collected? Exploring the trade-offs between maximising population health, ensuring equity, respecting individual privacy, and maintaining trust.

10:00 **Panel discussion:** *trade-offs in data collection and utility, safe data sharing, and the role of AI for digital public health tools (Simon Cauchemez, Navjot Kalra, James Wilson)*

10:30 *Break*

Session 9: *Behavioural and social considerations, and ways to measure impacts*

Chair: Melinda Mills

11:00 Ben Cowling *(online) Epidemiology and Public Health, Hong Kong University, Hong Kong*

Behavioral responses to public health measures, pandemic fatigue, and risk compensation

11:20 Helen Ward *Public Health, Imperial College London, UK*

The use of digital public health tools and remote testing in pandemic preparedness: lessons from the REACT study

11:40 **Ciro Cattuto** *ISI Foundation, Italy*

Measuring human social networks with wearable devices: lessons from SocioPatterns and the road ahead

12:00 **Panel discussion:** *how can behavioural and social considerations be dynamically captured and embedded in pandemic response? (Ben Cowling, Helen Ward, **Ciro Cattuto**)*

12:30 *Lunch*



Session 10: *What next?*

13:30 What next?

Chair: Michelle Kendall

Discussion, round-up and plan towards writing a community-led Blueprint for Digital Pandemic Preparedness. Should there be future annual workshops?

15:00 *End*

