

Establishment of a Global Repository of Epidemiological Parameters



WHO Project Team



Julia Fitzner
Collaboratory Team lead



Patricia Ndumbi Epidemiologist Project Lead



Finlay Campbell *Modelling expert*



Miroslav Levar System architect



Paul Prabasaj Modelling expert



Mia Zivkovic *Business Analyst*



John Fass *UI/UIX expert*



Elisa Di Maggio *Public Health specialist*



Chloe Rice Epidemiologist

External core working group



Lisa Waddel *PHAC*



Adam Kucharski *LSHTM - Epiverse*



Carmen Tamayo Cuartero LSHTM - Epiverse



Joshua Lambert LSHTM - Epiverse



Anne Cori Imperial College London

Problem Statement and proposed approach

Problem Statement

There is currently no global repository of epidemiological parameters that the global modelling community can access, use, and contribute to.

Future State

A global repository of epidemiological parameters that is publicly accessible by modellers, epidemiologist, subject matter experts and decision makers to inform public health response.

Proposed approach (5 workstreams)

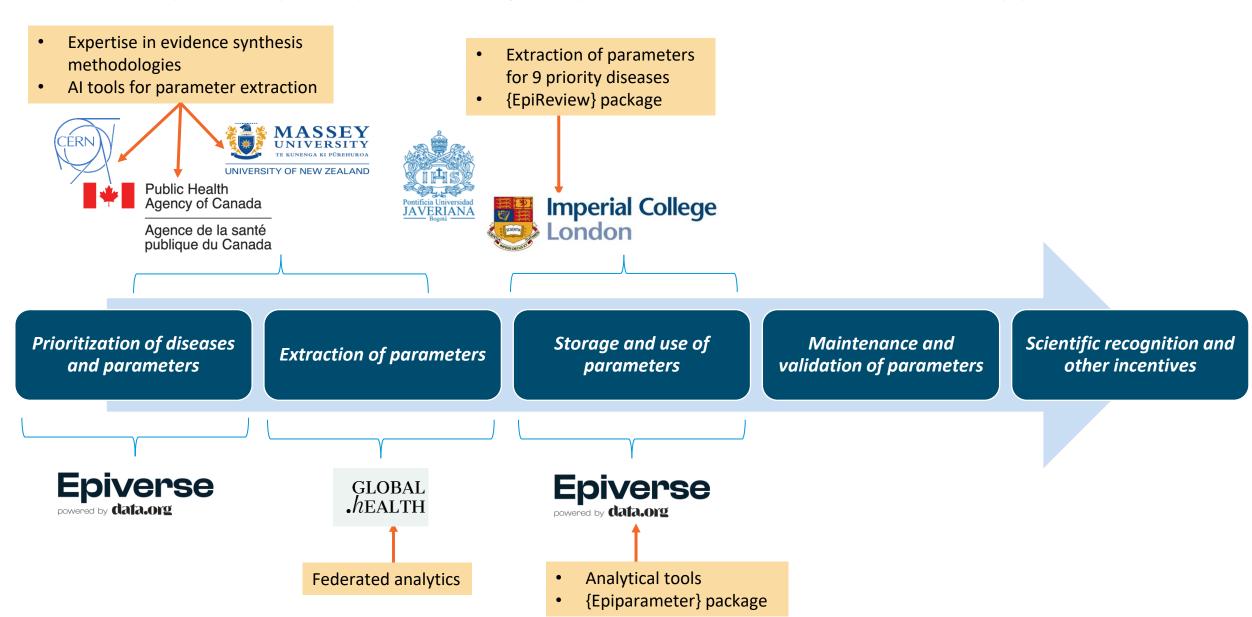
1. Prioritization of parameters

2. Extraction of parameters

- 3. Storage and use of parameters
- 4. Maintenance and validation of parameters
- 5. Scientific recognition and other incentives

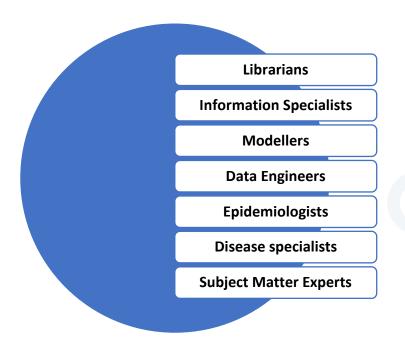


Global repository of epidemiological parameters – Collaborative approach



The Epiparameter Community

Multidisciplinary and Multisectoral Global Community

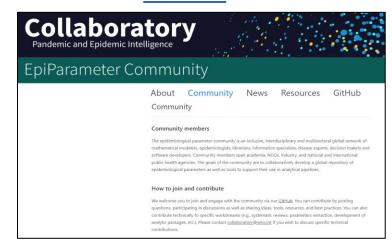


Global
Regional
Local



Epiparameter Community Building

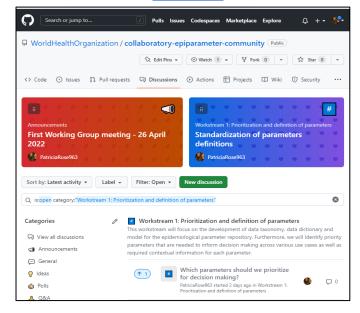
Website



TWG virtual meetings



<u>GitHub</u>



Outbreak analytics Hackathon



Workshop reports

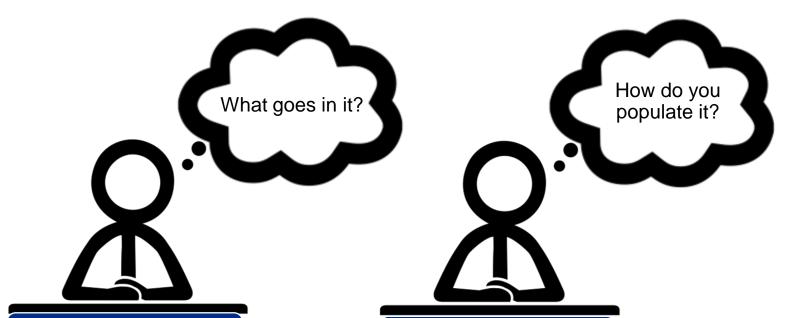


Community Surveys





This week's workshop objectives

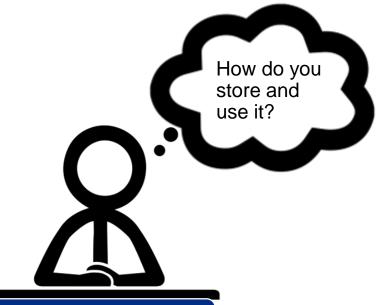


Day 1. Prioritization of parameters

To develop and test public health use cases which will inform the GREP database schema

Day 2. Extraction of parameters

To identify main challenges and explore solutions related to parameters extraction



Day 3. Storage and use of parameters

To enhance and develop solutions for parameters storage and use

Workshop output

- 1. Technical meeting report with summary of progress made during the workshop (Day 1-3)
- 1. "Blueprint" of GREP database schema incorporating participants input (Day 1)
- 1. Publication Guidelines on parameters reporting (Day 2)
- 1. List of package development tasks or features request related to parameters store or use (Day 3)



