

# Welcome

Epidemic modelling  
preparedness: the Pathogen  
Epidemiology Review Group and  
the Epireview R package



Tuesday 20<sup>th</sup> February 2024, 15:00 -16:00 CET

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# Meeting agenda

<b>Timetable for TWG Meeting: 20<sup>th</sup> February 2024 14:00 – 16:00 CET</b>	
<b>15:00 – 15:05</b>	<b>Welcome and introduction</b> – Patricia Ndumbi, WHO
<b>15:05 – 15:10</b>	<b>Update on community activities</b> – Patricia Ndumbi, WHO
<b>15:10 – 15:35</b>	<b>Presentation</b> – Anne Cori, ICL and Sangeeta Bathia, UKHSA
<b>15:35 – 15:55</b>	<b>Questions and discussions</b> – Moderated by Lisa Waddel, PHAC
<b>15:55 – 16:00</b>	<b>Closing remarks and next steps</b> – Patricia Ndumbi, WHO

# 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/UX expert*



Elisa Di Maggio  
*Public Health specialist*

# External core working group



Lisa Waddel  
*PHAC*



Adam Kucharski  
*LSHTM - Epiverse*



Carmen Tamayo Cuartero  
*LSHTM - Epiverse*



Joshua Lambert  
*LSHTM - Epiverse*

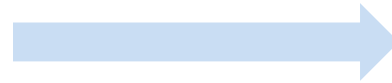


Anne Cori  
*Imperial College London*

# 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 and definition of parameters*

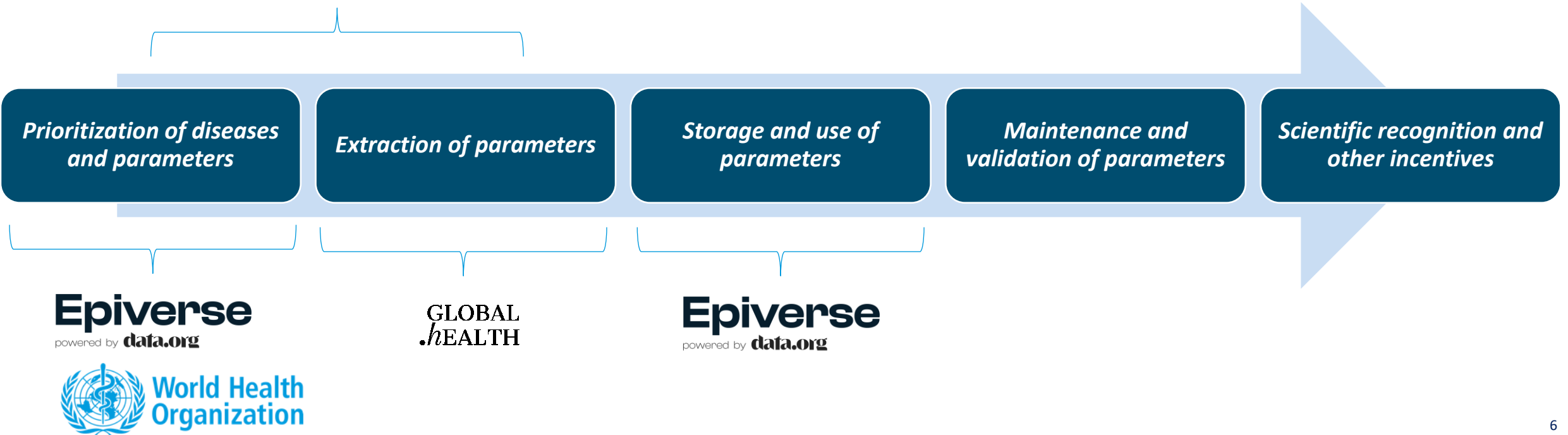
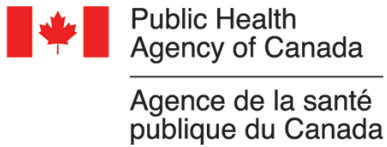
*2. Extraction of parameters*

*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

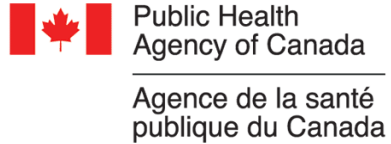


# Global repository of epidemiological parameters – Collaborative approach

- Expertise in evidence synthesis methodologies
- AI tools for parameter extraction



- Extraction of parameters for 9 priority diseases
- {EpiReview} package



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London**

*Prioritization of diseases  
and parameters*

*Extraction of parameters*

*Storage and use of  
parameters*

*Maintenance and  
validation of parameters*

*Scientific recognition and  
other incentives*

**Epiverse**  
powered by **data.org**



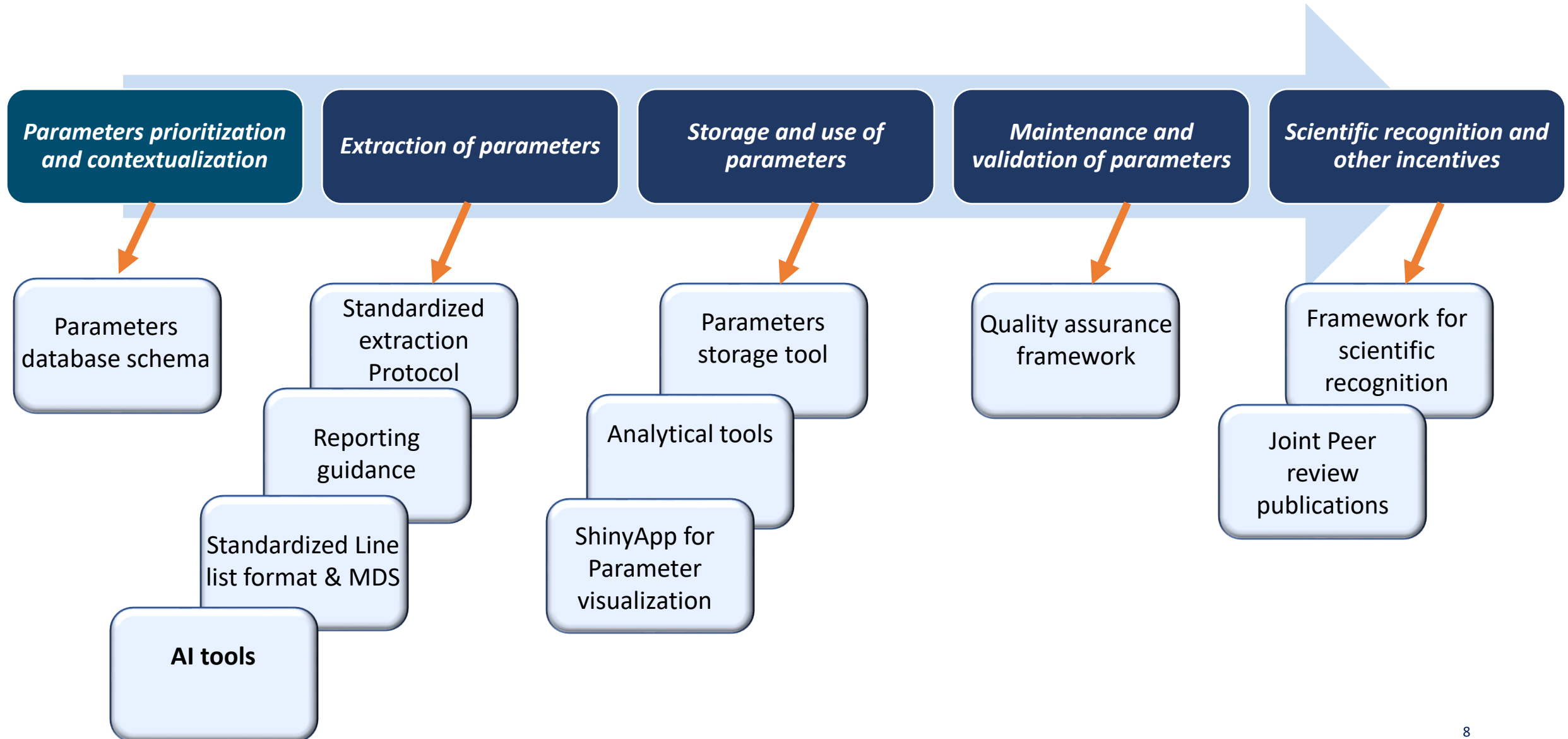
GLOBAL  
*h*HEALTH

Federated analytics

**Epiverse**  
powered by **data.org**

- Analytical tools
- {Epiparameter} package

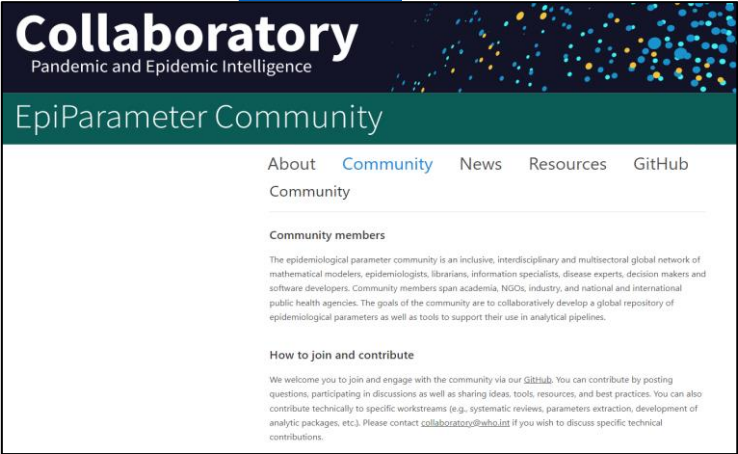
# Key project outputs



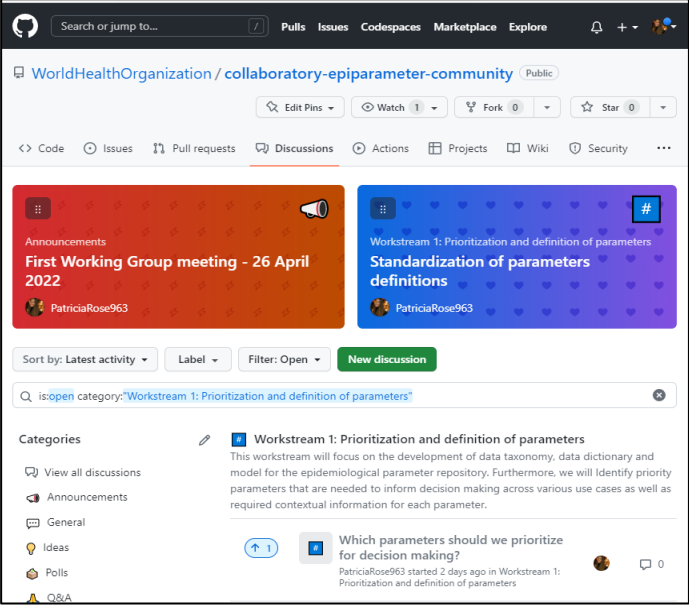


# How to Join and Contribute to the WHO Epi parameter community

## Website



## GitHub



## TWG meeting reports



## TWG virtual meetings



## Outbreak analytics Hackathon



# Epidemic modelling preparedness: the Pathogen Epidemiology Review Group and the Epireview R package

Presented by:

- Anne Cori, Imperial College London
- Sangeeta Bathia, UK Health Security Agency (UKHSA)

