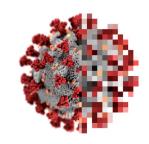
## A brief introduction to Epiverse and {epiparameter}



Adam Kucharski

WHO Hub May 2024











"Do you know whether anyone out there has a comprehensive dataset of key epidemiological quantities for each infectious agent? If something like this exists, it would save us hours or days of

Recent message from collaborator

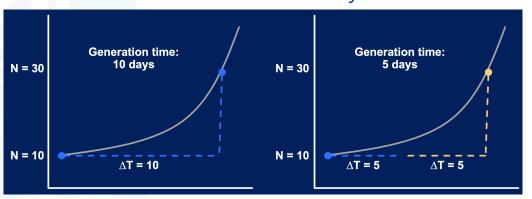
trawling through literature."

# What could the final size of an epidemic be?



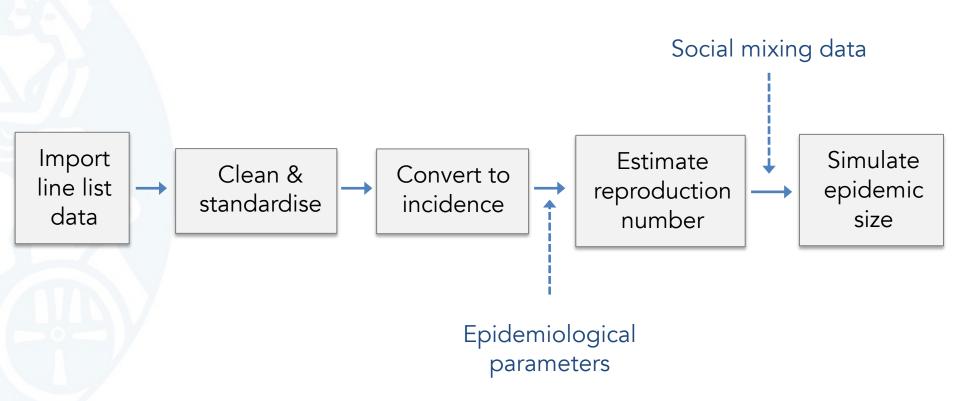
## What could the final size of an epidemic be?

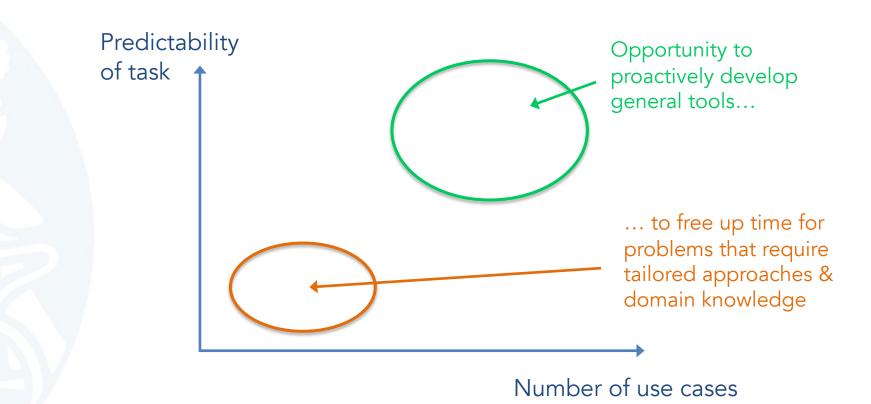
#### Recall from Day 1:





## What could the final size of an epidemic be?





#### **PERSPECTIVE**

The COVID-19 response illustrates that traditional academic reward structures and metrics do not reflect crucial contributions to modern science

Adam J. Kucharskin\*, Sebastian Funko, Rosalind M. Eggon

### The **Epiverse** initiative

Aim: help change how analytics are used in the global infectious disease response, moving from inflexible analytical tools and ad-hoc collaboration to integrated, generalisable and scalable community-driven software.





- New tool development
- Contributions to existing tools
- Integration across ecosystem





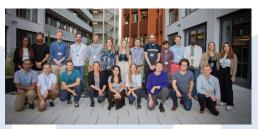
### The **Epiverse** initiative

Aim: help change how analytics are used in the global infectious disease response, moving from inflexible analytical tools and ad-hoc collaboration to integrated, generalisable and scalable community-driven software.





- New tool development
- Contributions to existing tools
- Integration across ecosystem





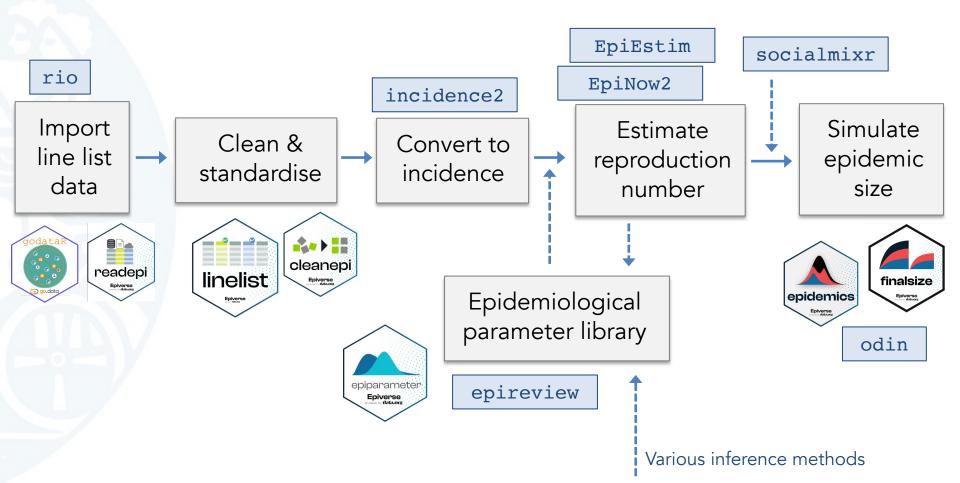
## The **Epiverse** initiative

Aim: help change how analytics are used in the global infectious disease response, moving from inflexible analytical tools and ad-hoc collaboration to integrated, generalisable and scalable community-driven software.

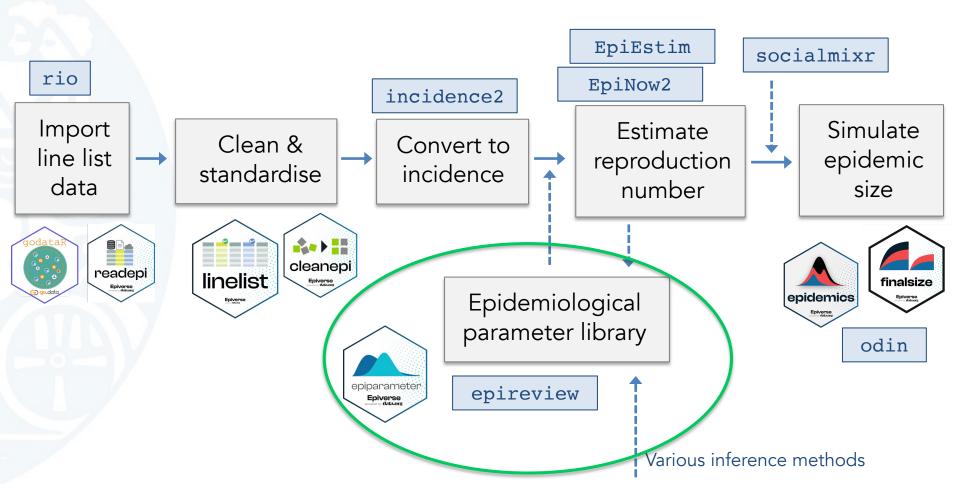


Early stage Middle stage Later stage

### Example task: simulate final size of an epidemic



#### Example task: simulate final size of an epidemic



### Training resources and courses: coming 2<sup>nd</sup> half of 2024

#### e-Epi training kit en Español

El e-Epi-training kit es una estrategia para el aprendizaje en línea que permite un aprendizaje progresivo y flexible. Este kit incluye el curso virtual en ciencia de datos en salud pública y modelamiento de enfermedades infecciosas, el cual está dirigido a América Latina y el Caribe y cuenta con un enfoque de género. Leer más detalles sobre la estrategia en línea.

Tutoriales en Español					
Tutorial	Sitio	Repositorio	Agenda para instructoras/es	Fase de desarrollo	
Análisis de Brotes y Modelamiento en Salud Pública		0	<b>i</b> □	pre alpha	

low-to guides in English				
Material	Site	Repository	Instructor schedule	Development stage
How-to guides for Outbreak Analytics with R		0		pre alpha

Tutorials in English				
Tutorial	Site	Repository	Instructor Schedule	Development stage
Reading and cleaning data for outbreak analytics with R		0	ŕ□	pre alpha
Real-time analysis and forecasting for outbreak analytics with R		0	ή¤	pre alpha
Scenario modelling for outbreak analytics with R		0	ή¤	pre alpha

Research Software Curriculum					
The focus of these workshops is on be This uses command line utilities and c reproducibility, and sustainability of yo	omplem	entary R pack	•		
Tutorial	Site	Repository	Instructor schedule	Development stage	
Version Control with Git in Rstudio		0	<b>i</b> Đ	alpha	
Improve your code for Epidemic		0	ή <sup>©</sup>	pre alpha	

#### WHO collaboratory community to generate standardized library



