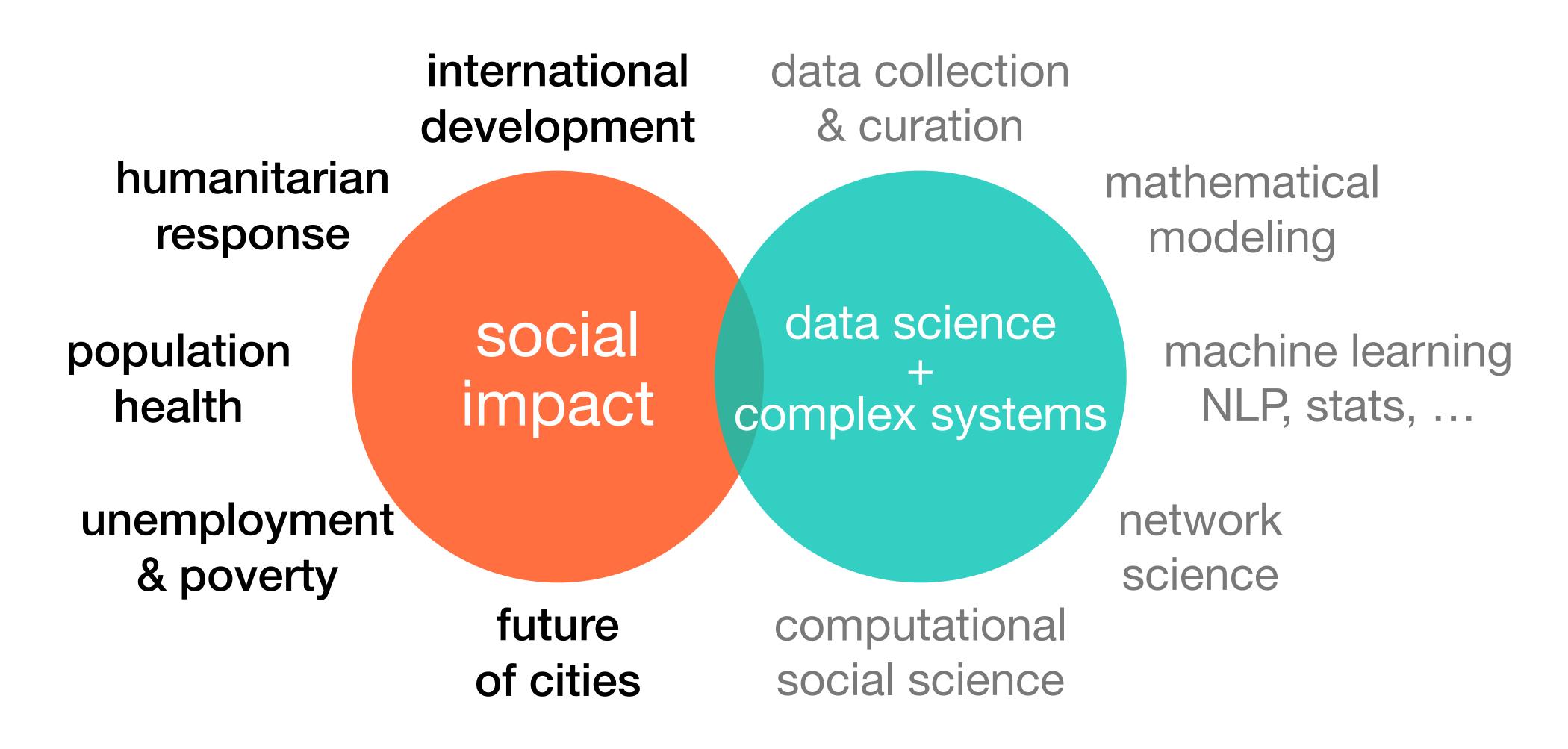
COMMUNITY ENGAGEMENT FOR PUBLIC HEALTH INTELLIGENCE

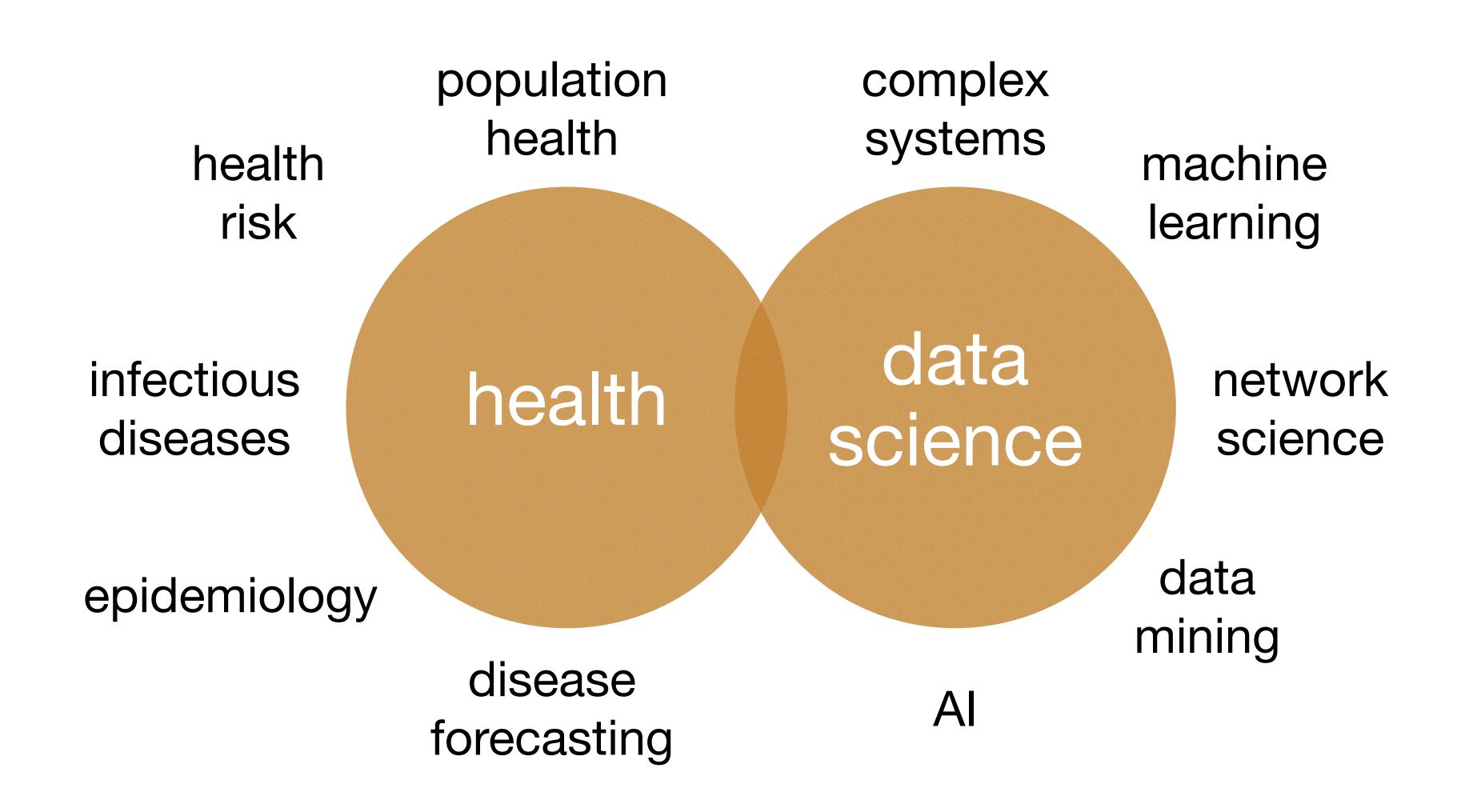
Daniela Paolotti
ISI Foundation, Turin, Italy
daniela.paolotti@isi.it



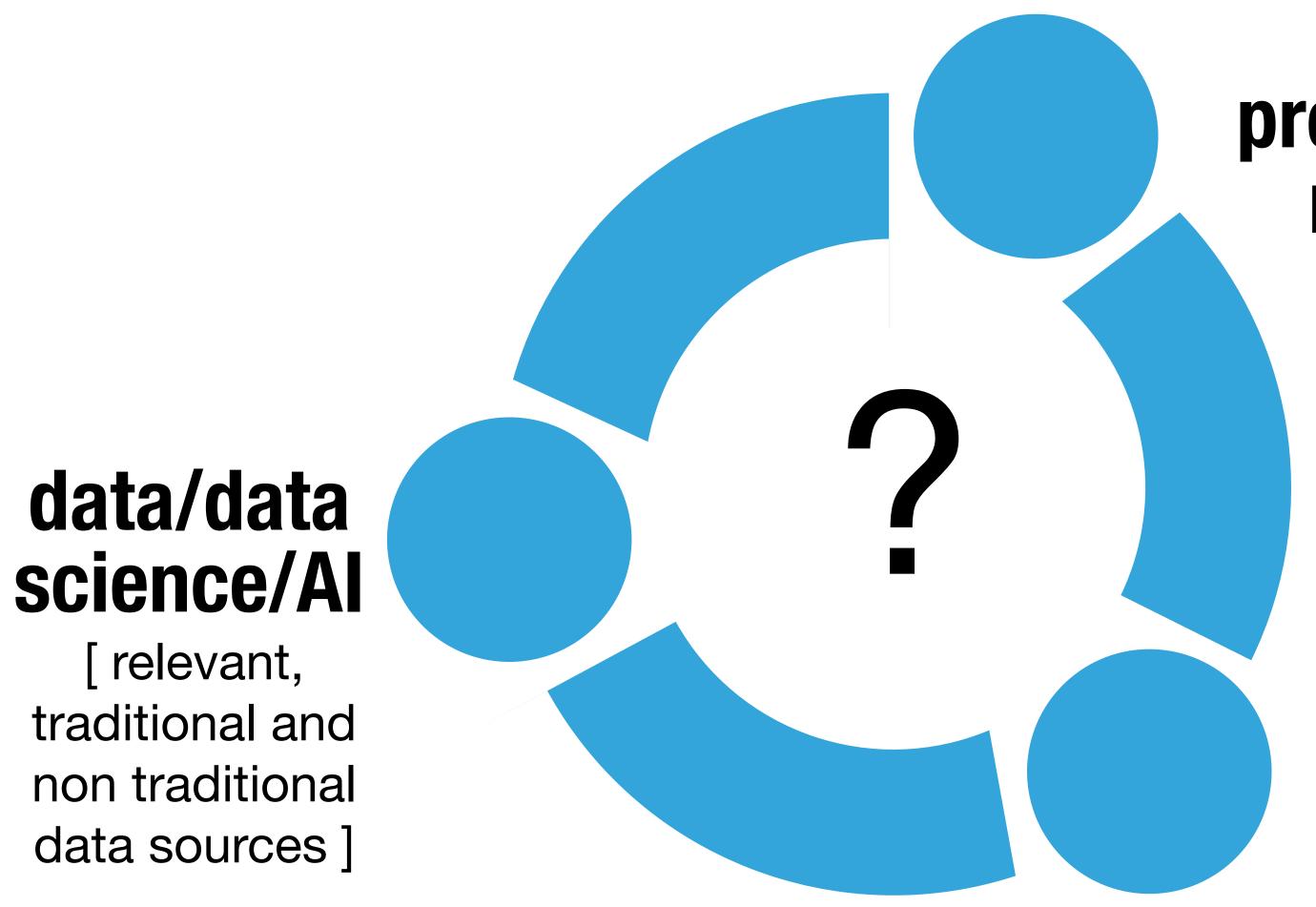
AI ANDDATA SCIENCE FOR SOCIAL IMPACT



AI AND DATA SCIENCE FOR PUBLIC HEALTH



CHALLENGE: COLLABORATION FOR SOCIAL IMPACT



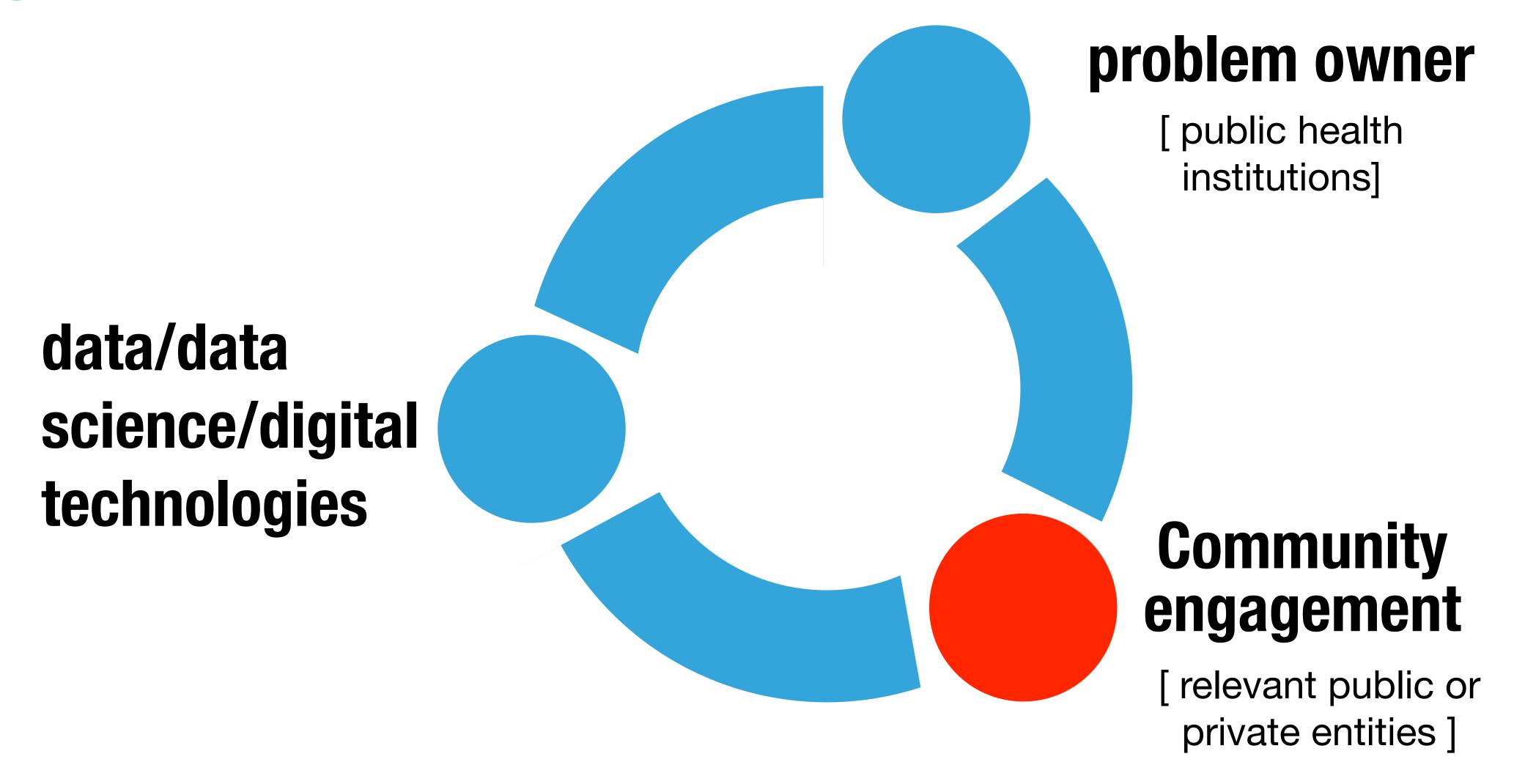
problem owner

global/national agencies, government, nonprofits, municipalities, ...]

"Community" [relevant public or engagement

private entities 1

@ ISI FOUNDATION - 2 CASE STUDIES





data/data
science/digital
technologies

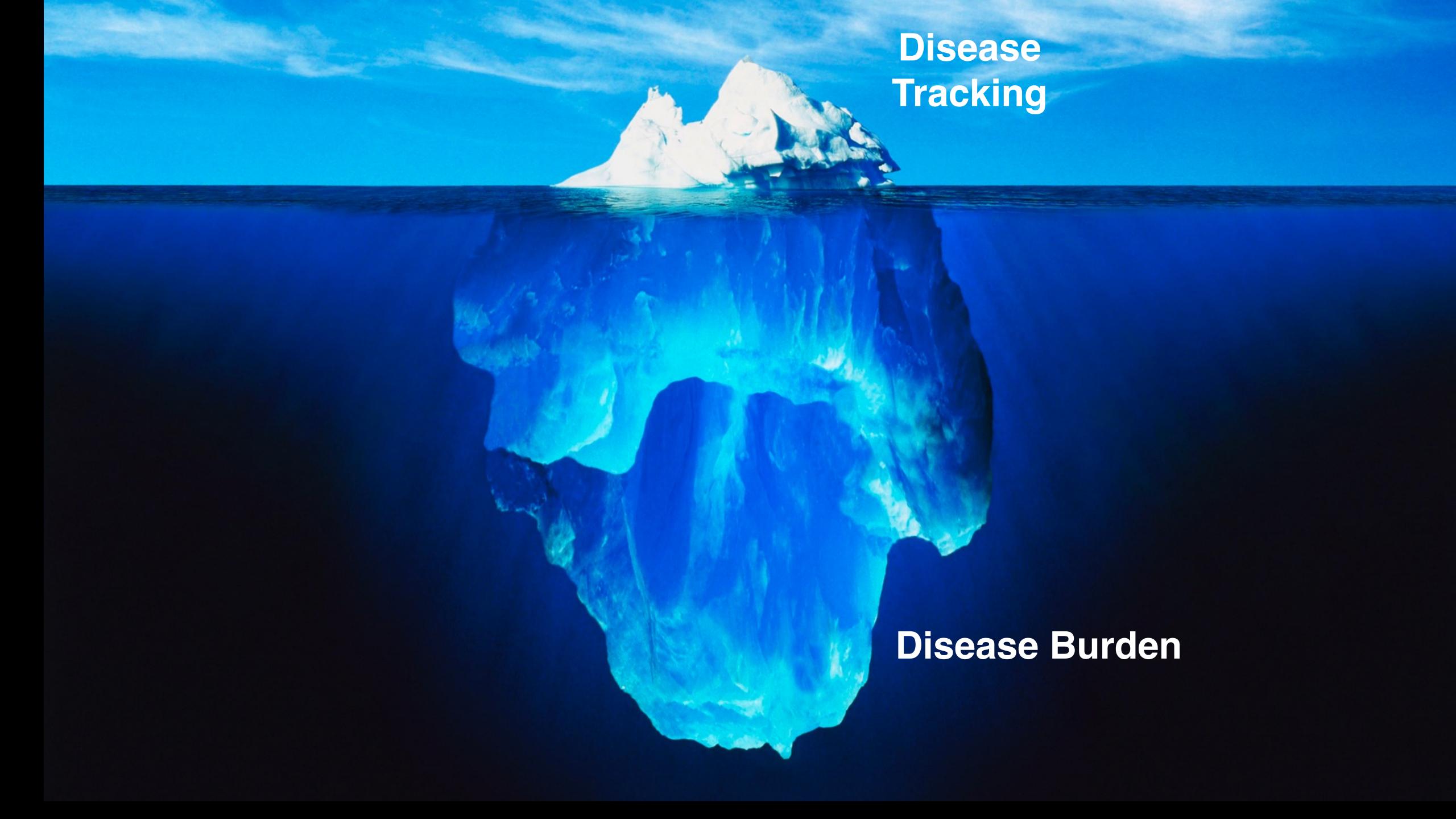
[digital surveys - web-based technology]

problem owner

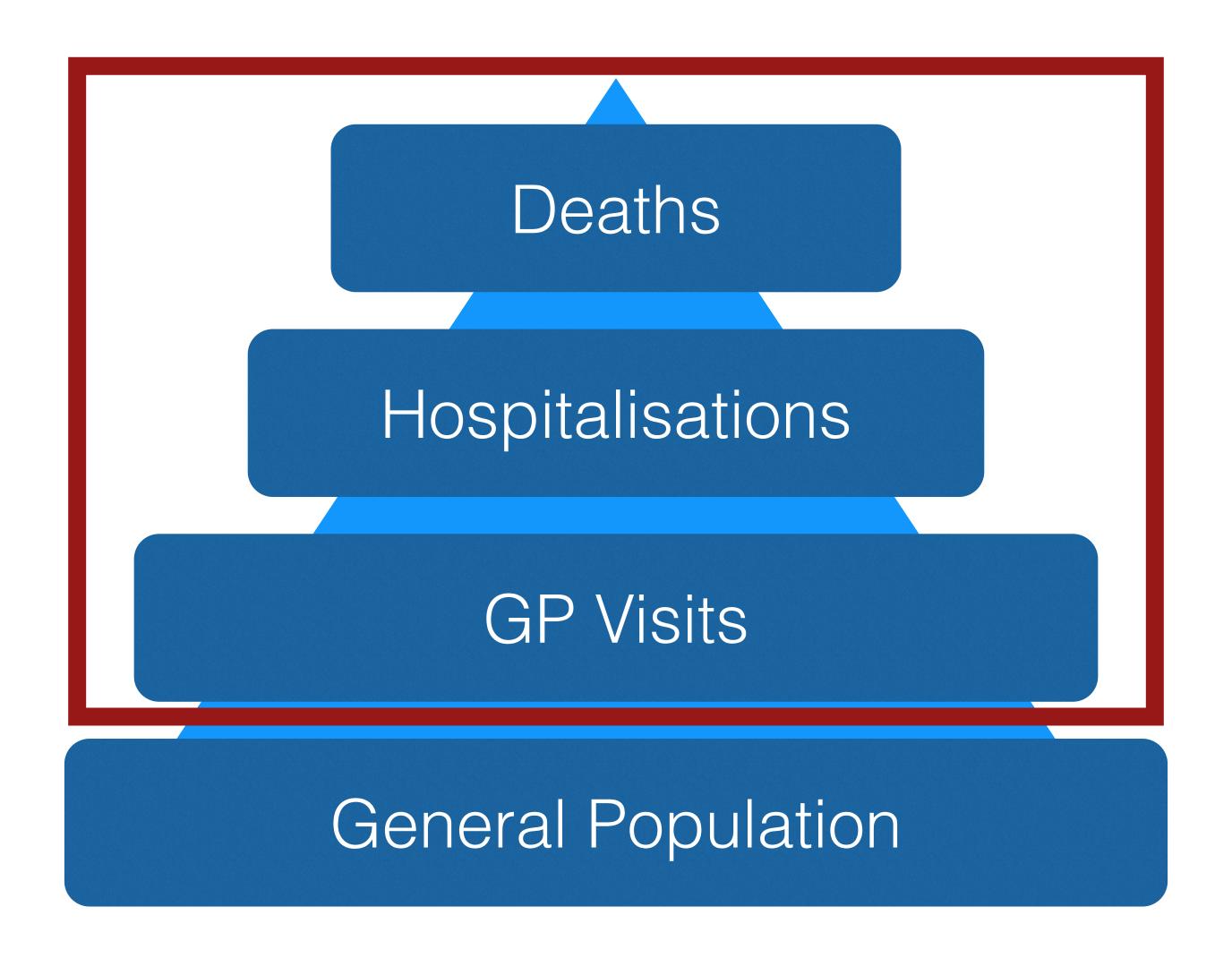
[national public health institutions]

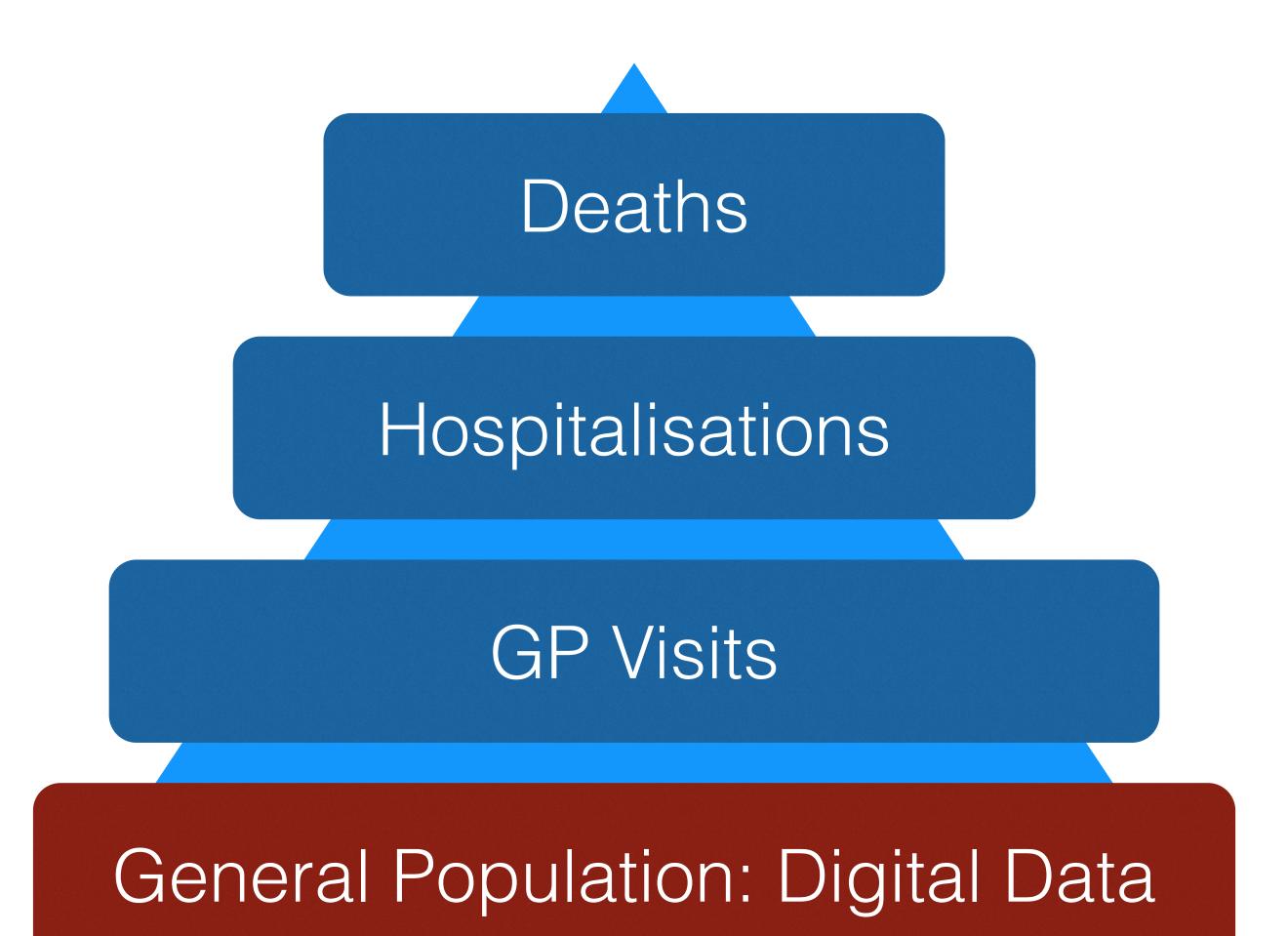
community engagement

[general population]

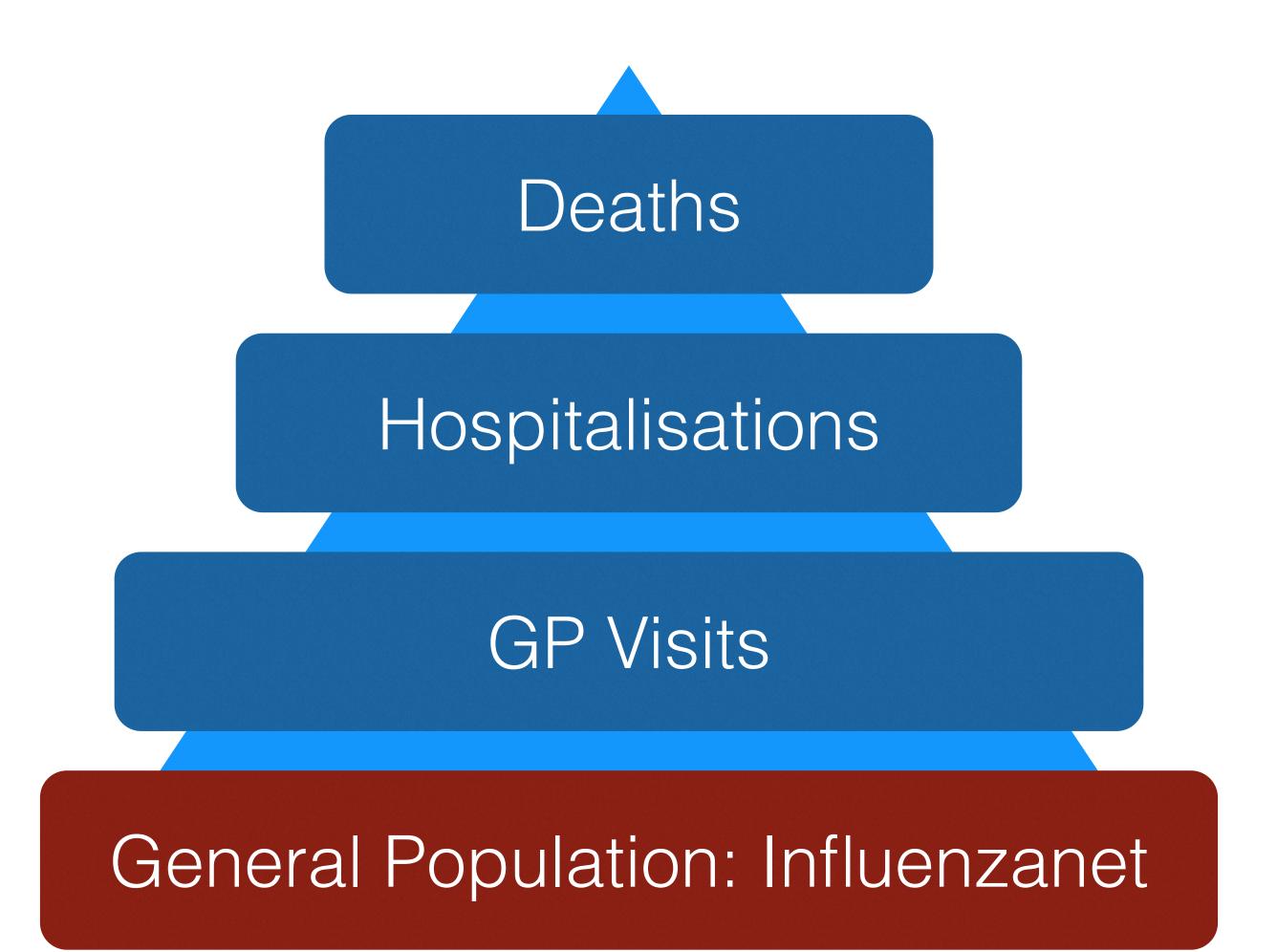


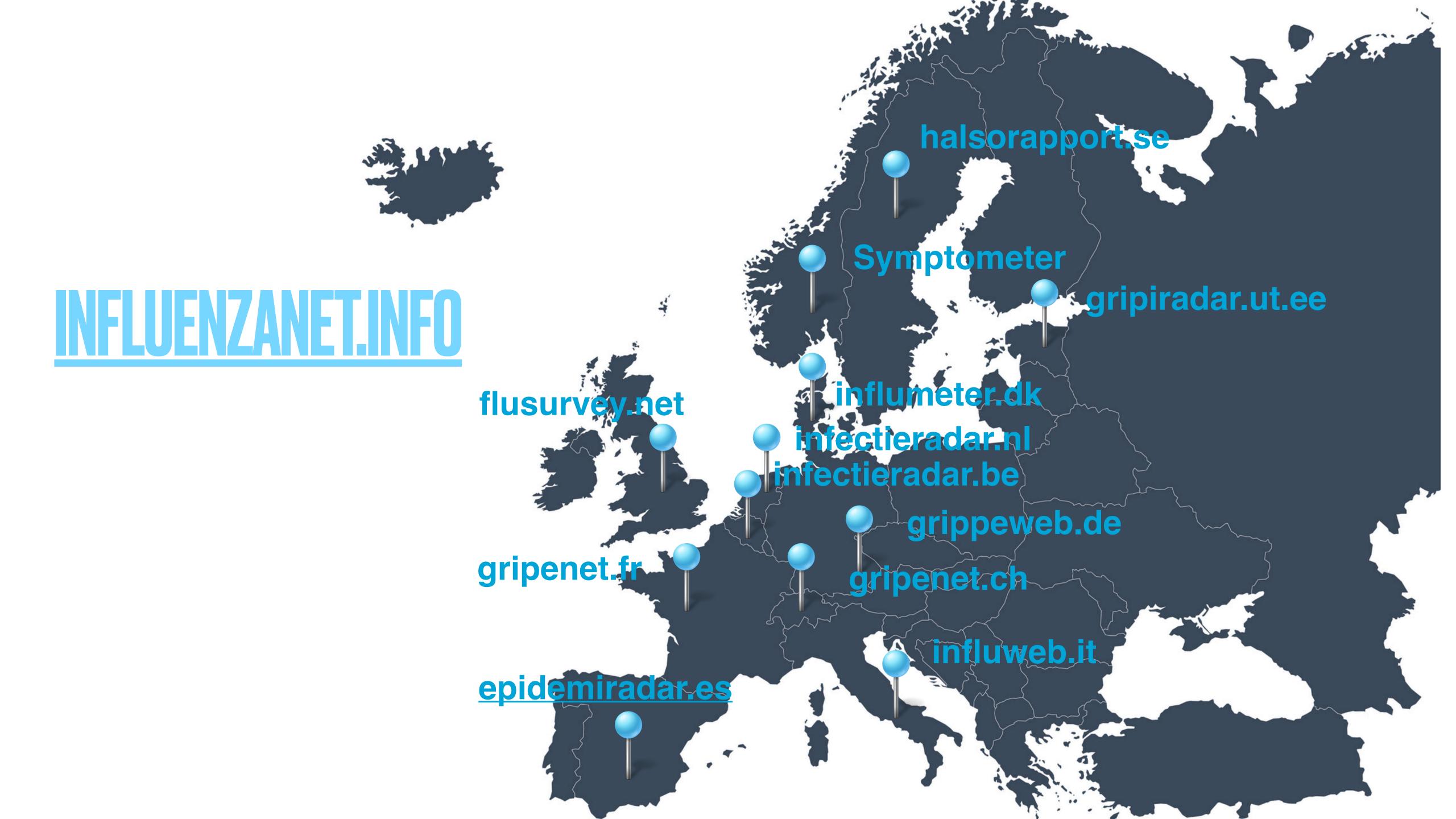
Public Health Surveillance



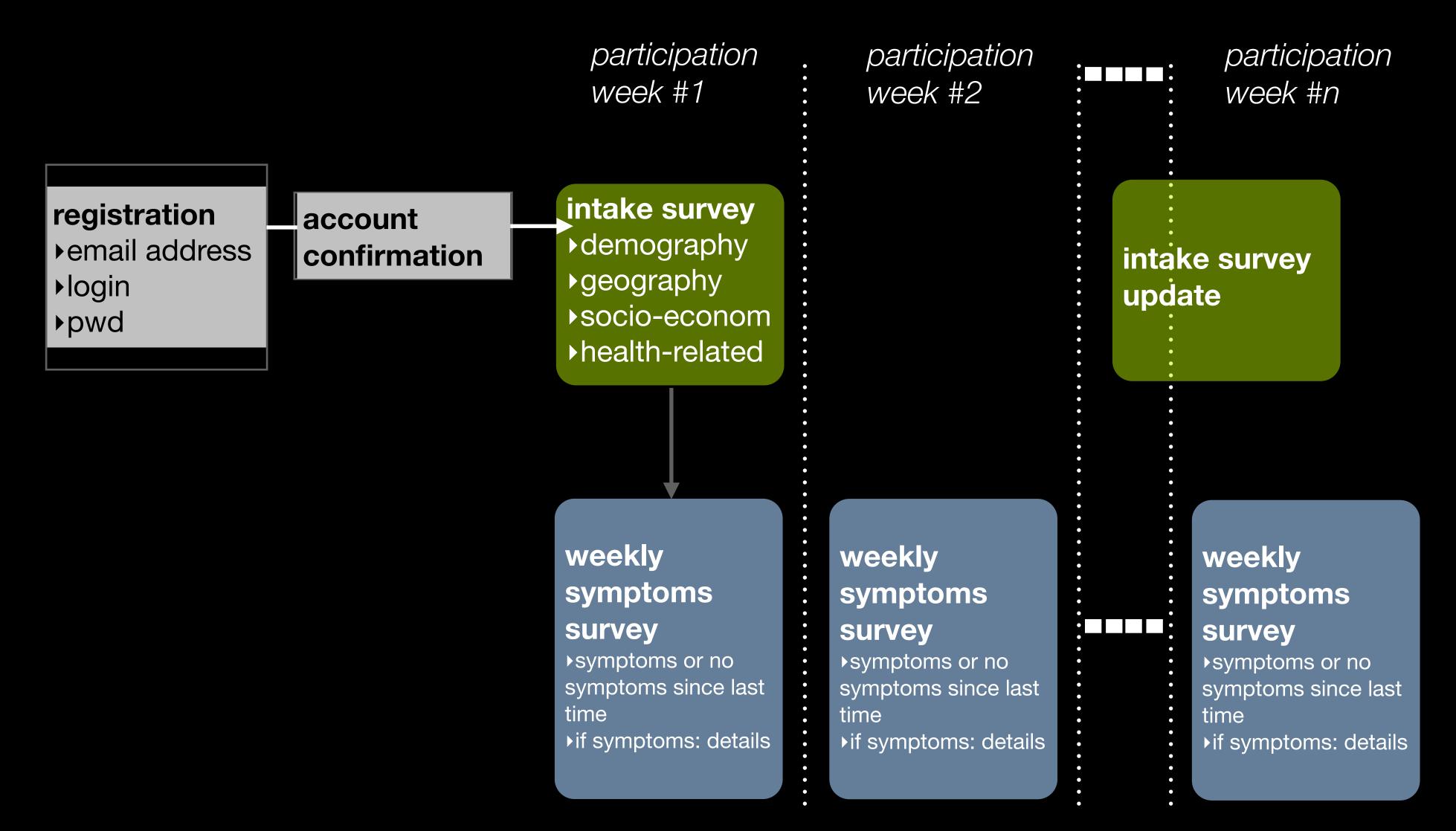








INFLUENZANET study design



uniform data collection across countries

study design: key questions

- weekly individual symptoms (or lack thereof)
- vaccine coverage
- mealthcare seeking
- drugs uptake (including antibiotics)
- perceived severity
- duration of the symptoms
- absenteeism
- Behavioural information (contacts, NPIs adoption)

C. Guerrisi et al,

Participatory

Syndromic

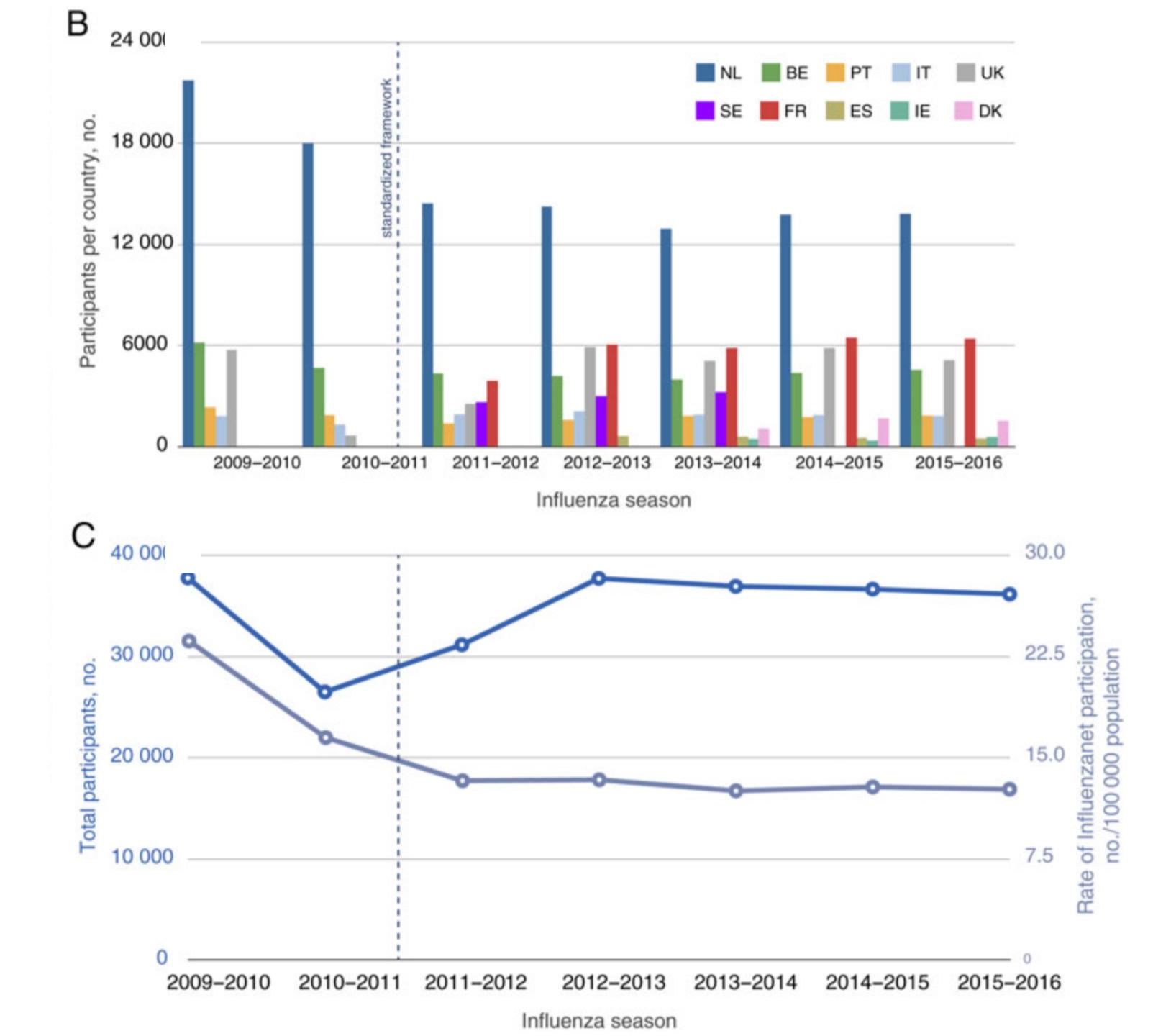
Surveillance of

Influenza in Europe

Journal of Infectious

Diseases (2016) 214

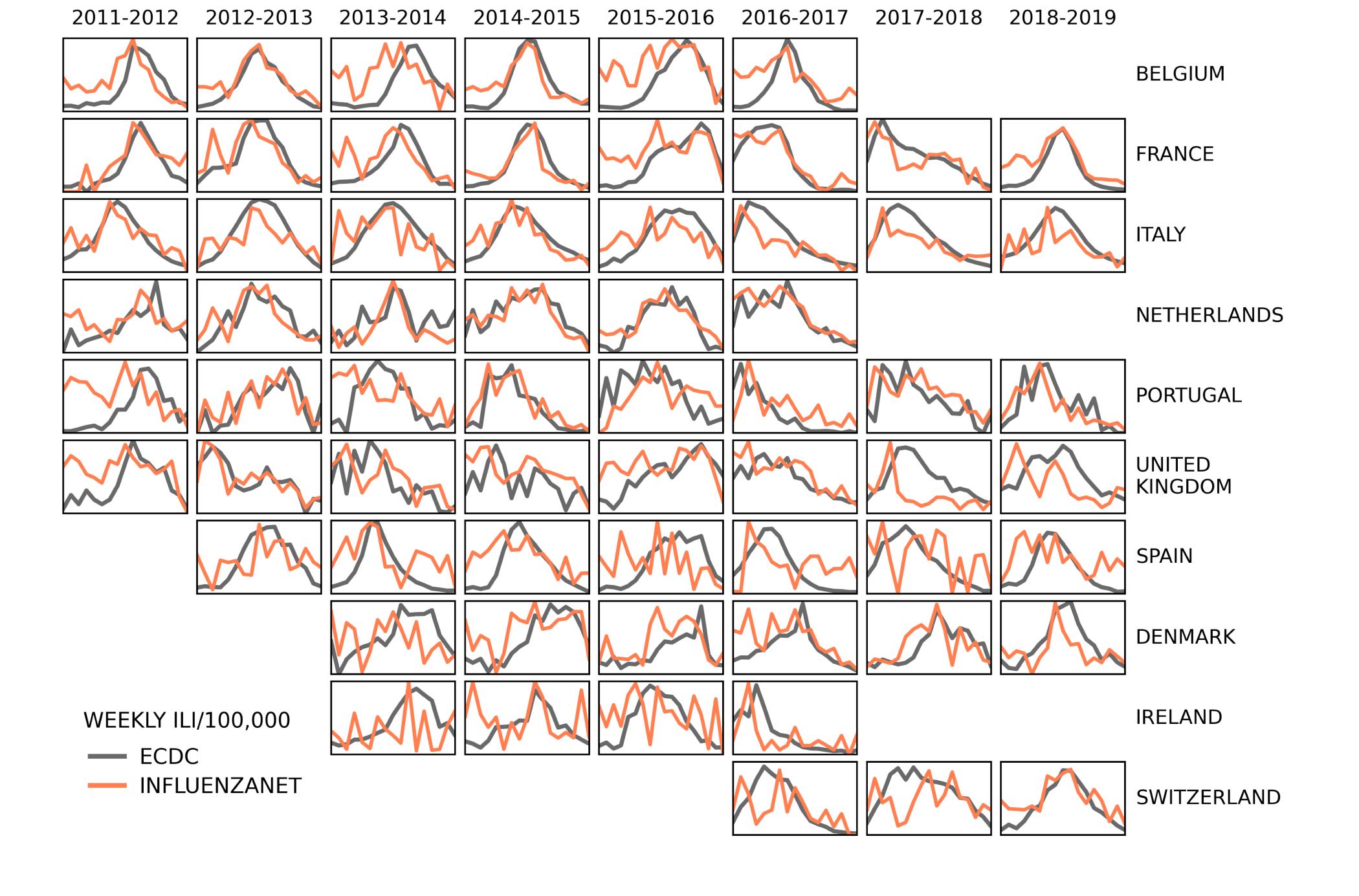
(suppl 4): S386
S392.



INFLUENZANET.INFO

influweb.it - ISI Foundation grippenet.fr - INSERM, France flusurvey.net - UK Health Security Agency halsorapport.se - Public Health Agency of Sweden influmeter.dk - Staten Serum Institute, Denmark grippenet.ch - University of Bern, Switzerland infectieradar.nl - RIVM, The Netherlands <u>infectieradar.be</u> - UHasselt, Belgium grippeweb.de - Robert Koch Institute, Germany gripiradar.ut.ee - University of Tartu, Estonia epidemiradar.es - IFISC, Baleari University, Spain





influenzanet.info



The project

Explore data

About data

Our team

News

Publications

INFLUENZANET IS

a Europe-wide community of volunteers for tracking flu and COVID-19

View the project

INFLUENZANET IS

a syndromic surveillance platform and centralized database

Explore the data

ON GOING RESEARCH ACTIVITIES

- ➤ Influenza and COVID-19 population-based surveillance
- ➤ Contact matrices (multi-country: Italy, the Netherlands, Belgium)
- ➤ Healthcare seeking behaviour (multi-country: Italy, France, UK, the Netherlands, Belgium, Switzerland)
- ➤ Dengue awareness (multi-country: Italy, France)
- ➤ Influenza Vaccine uptake before and after the COVID-19 pandemic (Italy)

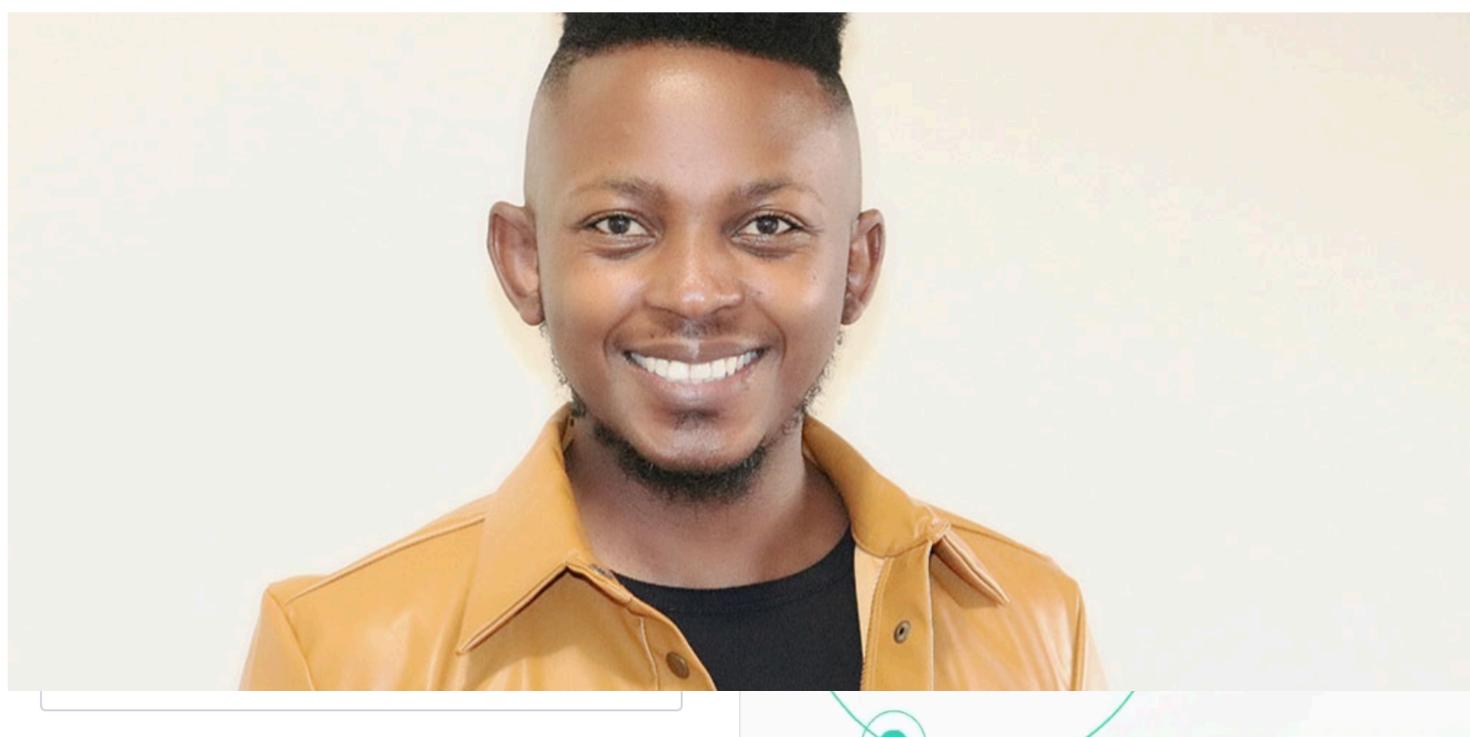


CoughWatch: Meet the South African researchers tracking COVID-19

Mvuyo Makhasi is leading a team tracking the pandemic via a novel digital platform - CoughWatchSA.

23 May 2022 • 6 min read • by Linda Geddes

Republish this article





@ RESPICAST/RESPICOMPASS

data/data
science/digital
technologies

[ERVISS data, contacts data, vaccine uptake - web-based technology]

problem owner

[European Center for Disease Control]

Community engagement

[modeling community]



https://respicast.ecdc.europa.eu/



Evaluations

Background

Community

🧢 🥨 Join in



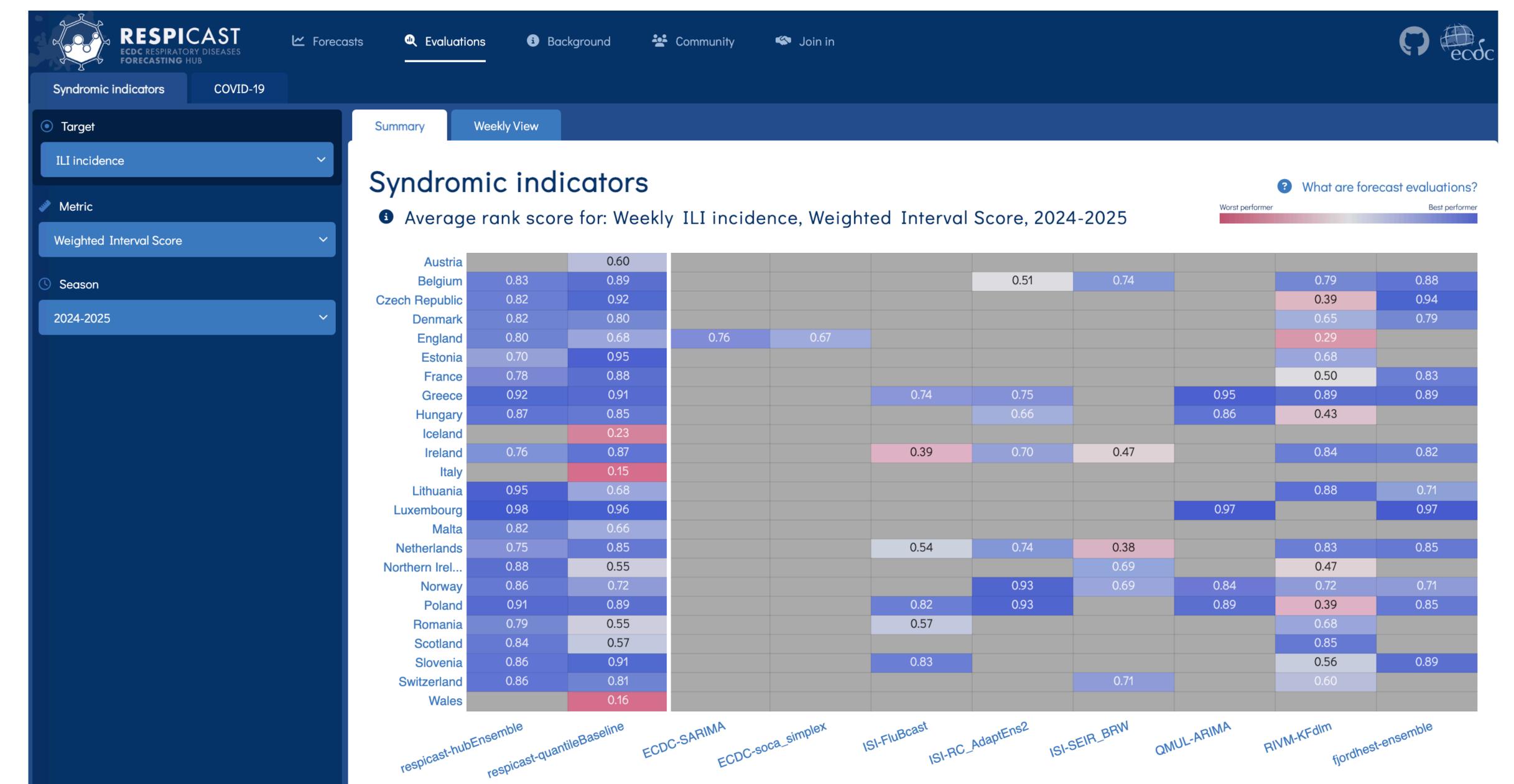


RespiCast is a platform dedicated to hosting and sharing forecasts for respiratory disease surveillance indicators. This initiative is funded and led by the European Centre for Disease Prevention and Control (ECDC). RespiCast generates ensemble forecasts through international modelling collaboration. We acknowledge the ISI Foundation and the London School of Hygiene & Tropical Medicine, whose technical expertise has been essential for the execution of this project.

For further insights into respiratory virus surveillance data visit the ERVISS website

View forecasts







Evaluations

Background

Community







Join in

How to submit your forecasts

To submit your forecasts to RespiCast please follow the guidelines outlined in the GitHub repositories for each surveillance indicator.

- Syndromic indicators ILI and ARI
- COVID-19 indicators

If you have any questions, please refer to the FAQs in the above links or contact us at european.modelling.hub@ecdc.europa.eu. For updates, including upcoming meetings and new research, all are welcome to join the European Forecast Hub mailing list. Please include your name and a brief sentence about your interest in the Hub (so that we can exclude bots).

Research & Development Teams

RespiCast is funded and led by the European Centre for Disease Prevention and Control (ECDC). This project is possible thanks to the technical contributions of the ISI Foundation and the London School of Hygiene & Tropical Medicine.







EUROPEAN HUB FOR RESPIRATORY DISEASE SCENARIO MODELLING



Executive Summary

Insights

Background



- 🦇 Join in

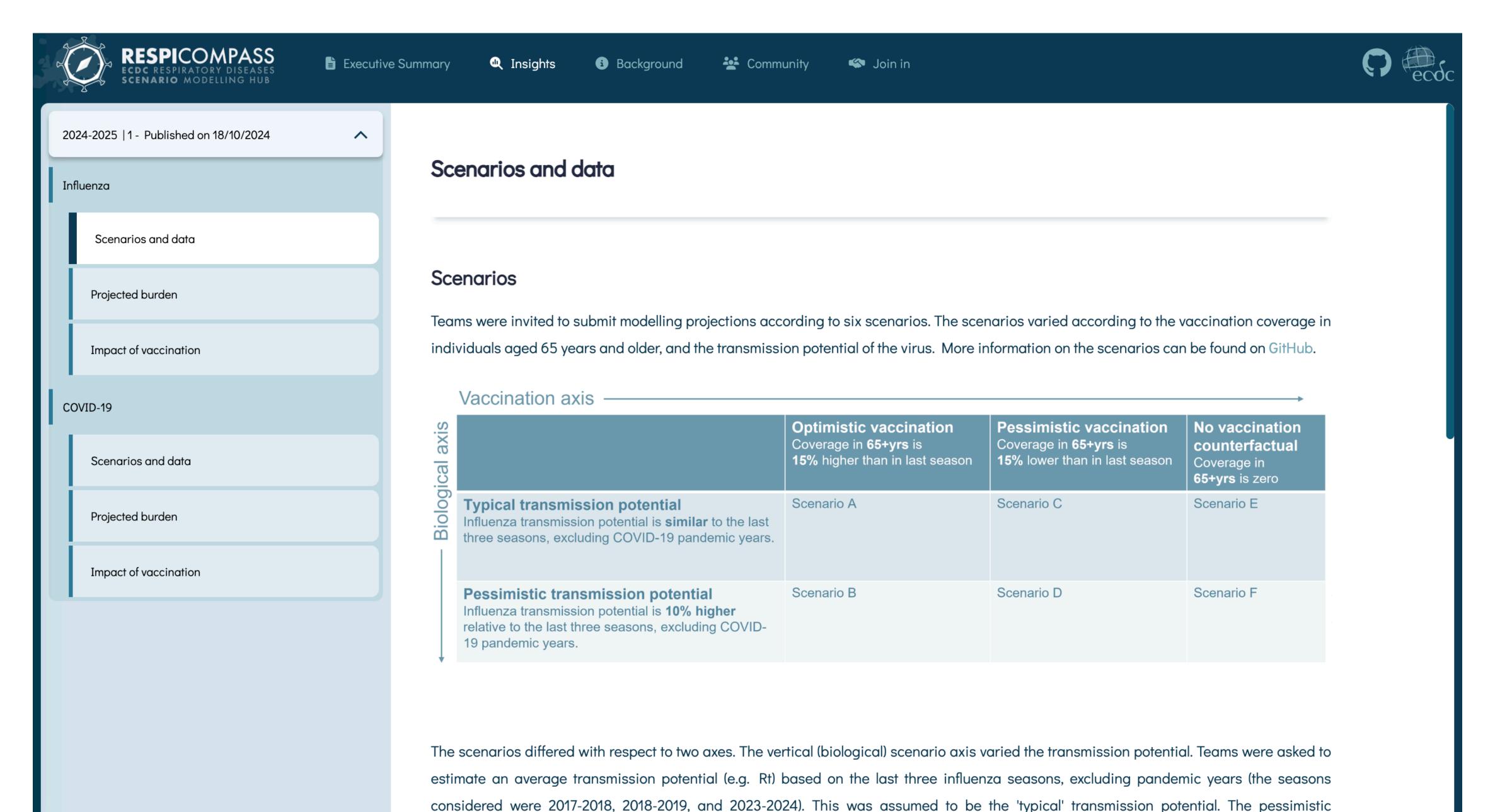




RespiCompass is a platform dedicated to hosting and sharing scenario modelling results for respiratory pathogens. This initiative is funded and led by the European Centre for Disease Prevention and Control (ECDC). RespiCompass develops and applies multi-model analyses through international modelling collaboration.

Explore the Executive Summary

EUROPEAN HUB FOR RESPIRATORY DISEASE SCENARIO MODELLING



EUROPEAN HUB FOR RESPIRATORY DISEASE SCENARIO MODELLING



Executive Summary

Background







Join in

For updates, including upcoming scenario rounds, meetings and new research, please join the European Scenario Hub mailing list. Please include your name and a brief sentence about your interest in the Hub (so that we can exclude bots).

Research & Development Teams

RespiCompass is funded and led by the European Centre for Disease Prevention and Control (ECDC). This project is possible thanks to the technical contributions of the EU-SMIND consortium (ISI foundation, Hasselt University, University of Antwerp, Safinea Ltd., Helmholtz Centre for Infection Research and the London School of Hygiene & Tropical Medicine).









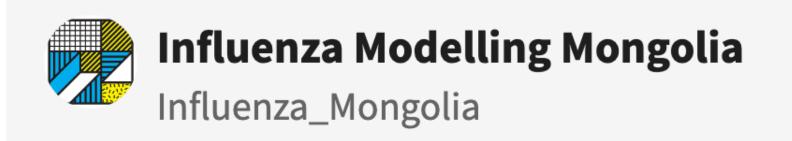
















This group will bring together collaborators on the Mongolian Influenza data and the analysis of it.

Influenza_Mongolia ▶

Members (12)

Activity

Permissions

Posts

Topics

Mentions



Follow-up Workshop on Epidemiological Data Pipelines [9th Dec. 2024 - doodle link for

■ Epidemiological Pipelines

finlaycampbell

This is something we're really interested in at the Hub, so I'd recommend anybody working in this space to attend!



Virtual consultation: Preparing for containment and mitigation of pandemic H5N1 influenza, Uses of statistical and mathematical modelling on 14 Nov 2024 @ 13:00 (CET)

■ 🗎 Influenza H5N1 Modelling

Julia_Fitzner

Influenza H5 pathogens have been included in the list of priority pathogens by the WHO R&D Blueprint. To coordinate efforts for containment and mitigation of H5N1, and especially to evaluate the efficacy of vaccines and therapeutics, a mathematical modelling group has been created in the R&D Bluepri...

Nov 27

NOV Z

Nov 11

CHALLENGES AND OPPORTUNITIES

- how do these collaborations impact society?
- how can we guide these developments?

- "last mile" to decisions and policies?
- access to relevant data sources?
- cross-sector partnerships?
- how to make this systematic, sustainable, responsible?
- how to communicate to the general public?











INFLUENZANET.INFO

Daniela Paolotti (IT)

Vittoria Colizza (FR)

Chinelo Obi (UK)

Annasara Carnahan (SE)

Charlotte Kjelsø (DK)

Christian Althaus (CH)

Albert Jan van Hoek (NL)

Niel Hens, Lisa Hermans (BE)

Udo Bucholz (RKI)



RESPICAST/RESPICOMPASS

Nicolò Gozzi, Corrado Gioannini, Stefania Fiandrino, Ivan Vismara, Paolo Milano, Luca Rossi (ISI)

Sebastian Funk (LSHMT)

Helen Johnson (SAFINEA)

Niel Hens (University of Hasselt)

Nicola Perra (Queen Mary University)

Rene Niehus, Rok Grah, Jose Canevari, Eva Bons

THANKYOU! QUESTIONS?

DANIELA.PAOLOTTI @ ISI.IT