

# BE-SURVID

## *Strengthening Surveillance of Infectious Diseases in Belgium*

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Epidemiology of Infectious Diseases

# Project description

## Project partners, internal

- Service of Epidemiology of Infectious Diseases (EID)
- Service of Healthdata.be (HD)
- Service of Health Services Research (HSR)

## Project partners, external

- Regional Health Authorities (DZ, AViQ, Vivalis, OstBelgien)
- Federal Health Authorities
- RIZIV-INAMI
- HaDEA, ECDC, WHO
- General Practitioners (GPs), National Reference Centres (NRCs) for human microbiology, Clinical Labs (CLs), and Hospitals (HOSP)

## Funding source

European Union (EU4Health Programme)

## Duration

01/01/2025 - 31/12/2029

## Budget

8,8M EUR (60% European contribution and 40% Member State contribution)

# Objectives



## **Digitalized Surveillance**

At GPs, CLs, and HOSP level by system to system data transfer and secondary use of electronic health records.



## **Integrated Surveillance**

By linkage of surveillance data with other relevant data sources (clinical/epidemiological metadata, Socio-demographic data, Health insurance data, vaccination, ...).



## **Signal Detection**

Develop automated signal detection system and modelling activities.



## **Data Governance Strategy**

Will be developed for Infectious Diseases Surveillance in Belgium while looking at the various GDPR elements like the Belgian Health Data Authority and European Health Data Space.

# Methods

## Overview WPs

**WP1:** Coordination, Communication, and Dissemination

**WP2:** Digitalised surveillance

**WP3:** Integrated surveillance

**WP4:** Signal Detection & Modelling

**WP5:** Data Governance

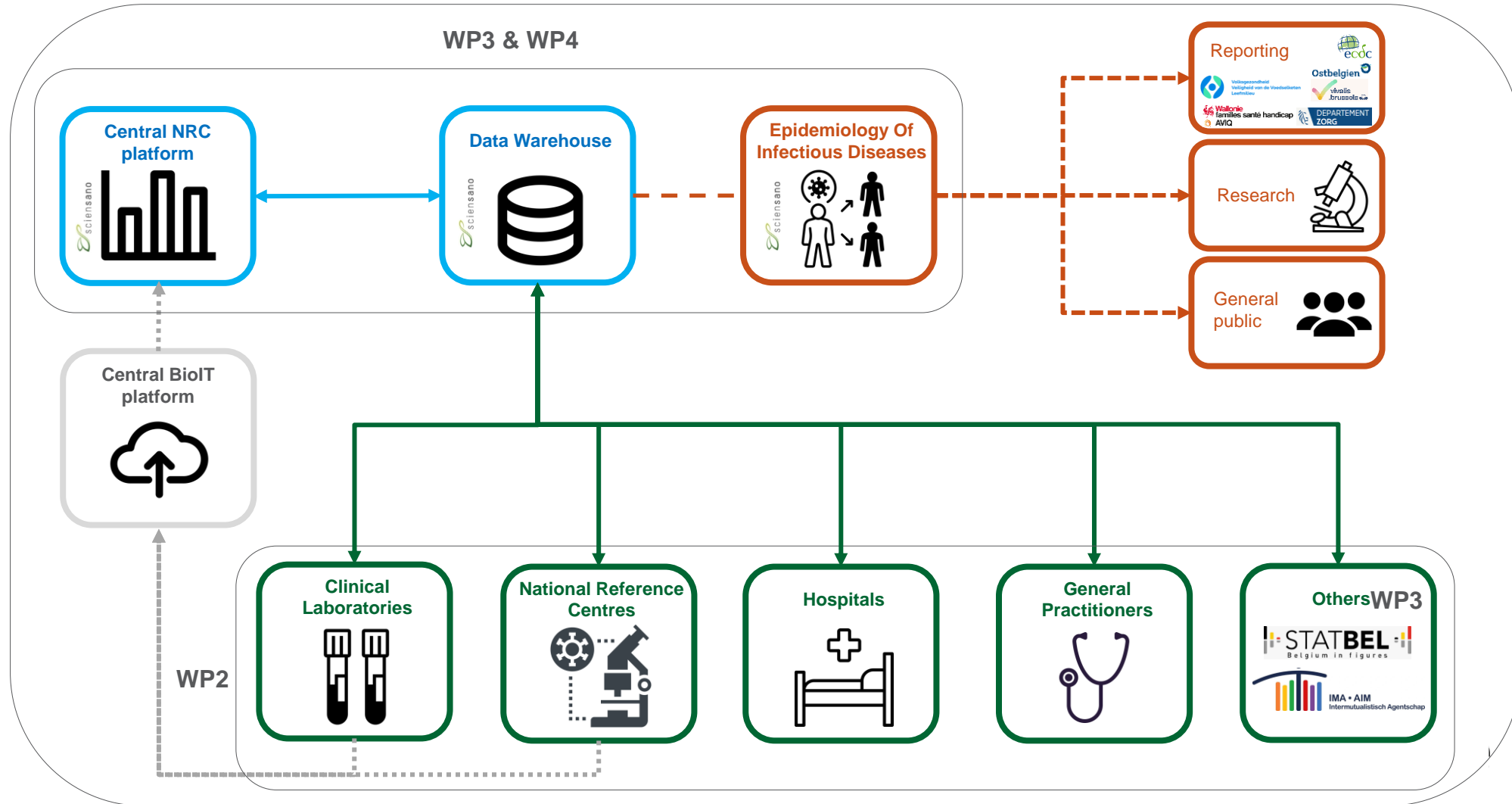
**WP6:** Sustainability and Evaluation

## Legend

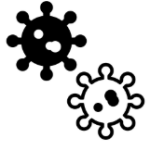
- Data reporting
- Data processors
- Data providers
- Out of scope



WP1, WP5 & WP6



# Challenges



Health Crises impacting priorities

*e.g. COVID-19*



Limited participation from Data Providers

*e.g. GPs, CLs, NRCs*



Lack of Legal Framework for Data Linkage



Sustainability challenges

*e.g. Long-term/structural funding needed*



Loss of Key Personnel



Inefficient Data Transfer

*e.g. GDPR, National Regulations*



Compliance & Security Risks



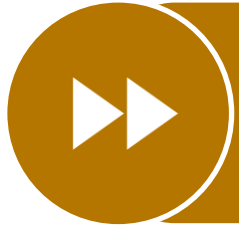
Limited Data Availability for Modeling

# Outcomes & Impact

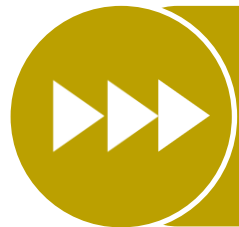
*These improved surveillance systems will contribute to the **early detection, investigation, and communication of cross-border threats** arising from infectious diseases with a **timely and effective** coordinated response. The modelling activities will also lead to a **better understanding** of the impact of infectious diseases and contribute to improving the EU-wide surveillance of communicable diseases.*



**Short-term**  
Implementation of electronic data collections at GP, CL and HOSP level to improve surveillance, enhancing integration of relevant data sources, building towards sustainable surveillance, taking up the technical and legal challenges



**Mid-term**  
Newly developed electronic data collections and linkage build towards sustainable integrated surveillance infrastructure, identify innovative strategies to improve surveillance



**Long-term**  
Implementation of a robust surveillance system integrating different sources of electronic health data and digital registers, significant improvement of Belgian public health preparedness

# Knowledge translation



## Inform

*Keep stakeholders up-to-date with regular updates*



## Engage

*Foster active participation and feedback from all parties*



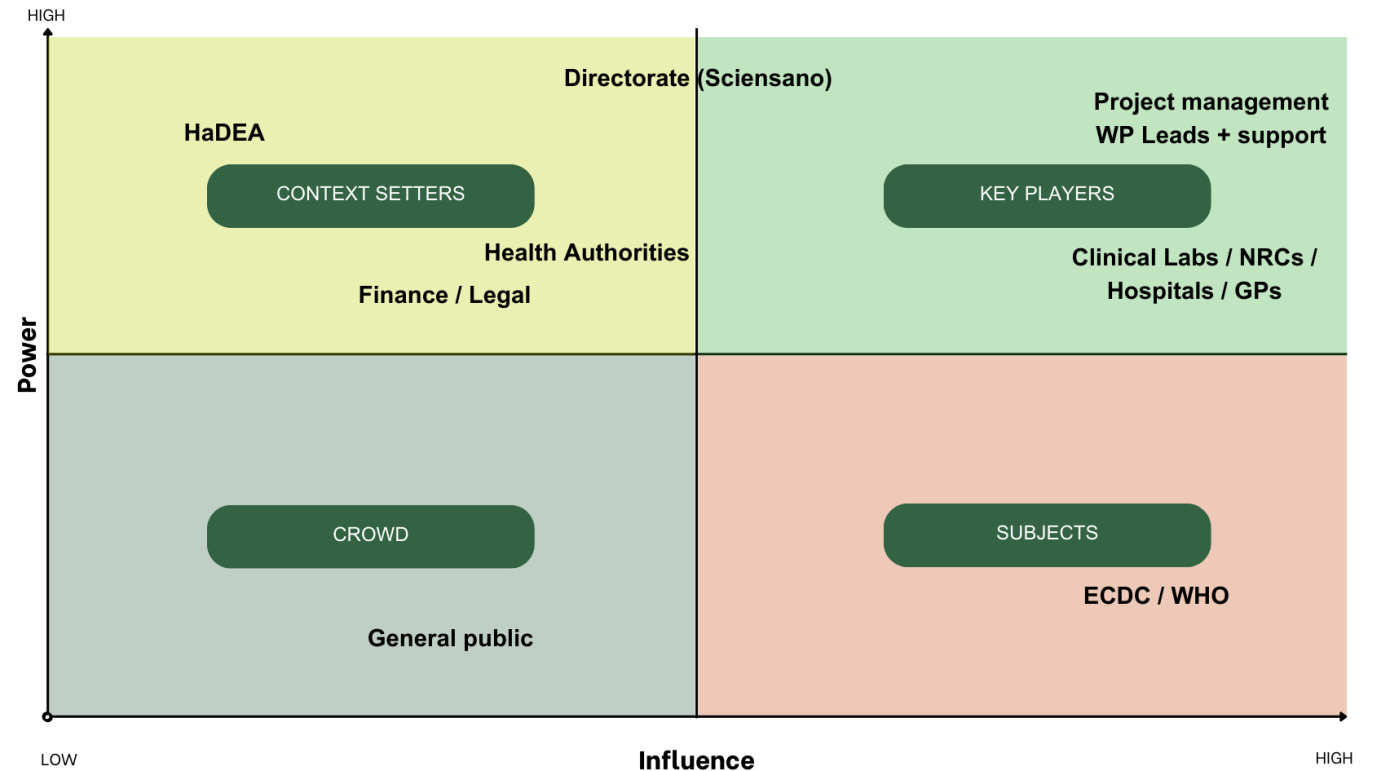
## Promote

*Raise awareness and showcase project outcomes*



## Collaborate

*Facilitate clear and transparent communication across partners*



*The digitalization of infectious disease surveillance is not just a technological advancement but a transformative opportunity to improve public health outcomes, respond faster to emerging threats.*

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**In collaboration with Sciensano services:**

Epidemiology of Infectious Diseases, Healthdata.be, Health Service Research



Scan for more information

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