

Best practice of implementation of Joint Actions and project: HEALTHY GATEWAYS, STAMINA and other



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The list of the projects (history....) (1)



2006-2008

2008-2011

2013-2016

2018-2021

The list of the project..... (2)









OTHER...

EU HEALTHY GATEWAYS JA: General objectives





Support cooperation and coordination between EU MS

Improve capacities at PoE

Prevent and combat cross-border health threats coming from the transport sector



Contribute to a high level of public health protection in the European Union

Consortium of partners







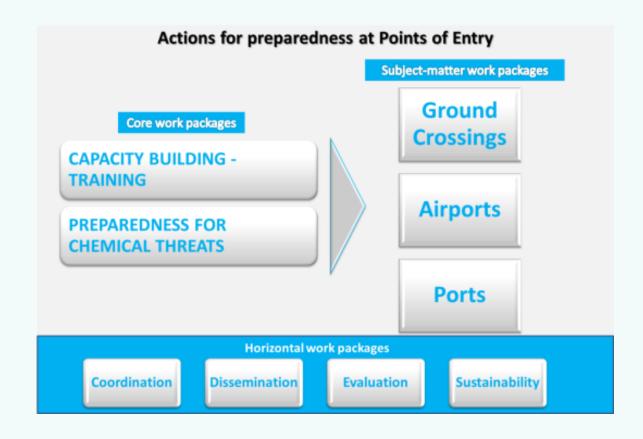
➤ Duration: 4 years (2018 → 2022)

> Partnership: 28 European countries + Taiwan CDC



Joint Action consortium

1st General Assembly Meeting (Hamburg, June 2019)



Ground crossings specific activities







STATE OF THE ART REPORT

- Scoping literature review on public health events related to ground crossings
- Survey results on preparedness and response to biological and chemical threats
- Identification of best practices implemented at ground crossings in Europe
- Transport connections between European Union and East and South-East Asia in aspect of vector introduction risk
- List of PoE with external borders of EU over 100 identified
- Legal grounds for responding to serious cross-border public health threats (land borders) in EU countries

Model Memorandums of Understanding (MoUs):

- 1. Coordination on public health events of mutual interest between EU and non-EU countries
- 2. Rules of cooperation among the different competent authorities at ground crossings at local level

Air transport specific activities





- Draft tool for contingency plan development/assessment at airports
- Online catalogue of best practices on core capacities implementation
- Report on legal framework of countries regarding contact tracing for air transport
- Model MoU for rules of cooperation among the different competent authorities in airports
- SOPs for vector surveillance and control at airports



Maritime transport specific activities





- Online catalogue of best practices on core capacities implementation
- Tool for contingency plan development and assessment at ports
- SOPs for vector surveillance and control at ports

Model MoU for rules of cooperation among the different competent authorities

in ports



- Guidelines for inter-country communication & information flow in outbreak investigation and public health event management
 - Multi-sectorial table top exercise at European level for ports
- European scheme for inspections of passenger ships

Cross-cutting activities





EU POENET

- Web-based network of European points of entry
- Includes bibliography tool, discussion forums, network of professionals, training resources catalogue

Risk profile tool

- Assess risk profile for points of entry and determine top/simulation which have the highest risk
- Web-based, covering infectious diseases

Chemical activities

- Training materials and webinars available
- Guidance and assessment tool for chemical preparedness at points of entry

Table exercises at national and local level

- Guidance for countries to conduct exercises (focused on points of entry)
- Guidance and scenario summaries to test local public health emergency contingency plans at ports, airports, ground crossings

Training activities

https://www.healthygateways.eu/Novel-coronavirus#Training



Self-paced training courses and materials:

Preparedness and response to public health events at airports (EU HEALTHY GATEWAYS 2019)

Preparedness and response to public health events at ports (EU HEALTHY GATEWAYS 2019)

Evidence-based best practices on entry/exit screening for infectious diseases in humans (DG SANTE 2019)

Two EU level training of the trainers' courses and one workshop conducted Preparedness and response to public health events at:

- Ports (Greece, 2019)
- Airports (Serbia, 2019)
- Grounds crossing (Lithuania, 2021)
- Participation of non-EU countries funded by WHO EURO and WHO EMRO

COVID-19 interim advice

(14 documents, select translations in 4 national languages)





POINTS OF ENTRY

- Public health measures at points of entry (27/01/2020)
- Exit and entry screening at points of entry (06/02/2020)
- WHO, WHERE, HOW: Overview of personal protective equipment for staff at points of entry and crew on conveyances (27/02/2020)
- Reducing droplet transmission of COVID-19 on board conveyances by using face masks (09/04/2020)
- General guidance for restarting transportation activities to serve tourism after lifting restrictive measures in response to the COVID-19 pandemic (15/05/2020)

GROUND CROSSINGS

- Preparedness and response to cases of COVID-19 (buses and bus stations) (04/03/2020)
- Preparedness and response to cases of COVID-19 (trains and rail stations) (04/03/2020)

AVIATION

- Aircraft operators for preparedness and response to the outbreak of 2019-nCoV acute respiratory disease (27/01/2020)
- Considerations for implementing a common strategy for testing of travellers for SARS-CoV-2 at international airports in EU MS (13/10/2020)

MARITIME

- •Ship operators for preparedness and response to the outbreak of COVID-19 (27/01/2020)
- Health authorities and ship operators suspending sailings and for long-term docking during COVID-19 pandemic (18/03/2020)
- Suggested procedures for cleaning and disinfection of ships during the COVID-19 pandemic (06/04/2020)
- Preparedness and response to cases of COVID-19 on board ferries after lifting restrictive measures in response to COVID-19 (24/06/2020)
- •Restarting cruise ship operations after lifting restrictive measures in response to COVID-19 (30/06/2020)

EU Digital Passenger Locator Form (dPLF)







European Union Passenger Locator Form

- Activity being implemented by the EU HEALTHY GATEWAYS joint action in coordination with DG SANTE, DG MOVE and support from EASA for developing a web-based application for the European Digital Passenger Locator Form (dPLF)
- Covers all transport modes
 - Air transport
 - Ground crossings (bus, train car)
 - Maritime transport (cruise, ferry)

Working group and input from:

EU HEALTHY GATEWAYS consortium and legal advisors

European Centre for Disease Control and Prevention (ECDC)

European Aviation Safety Agency (EASA)

European Union Agency for Railways (ERA)

European Maritime Safety Agency (EMSA)

World Health Organization (HQ/EURO)

Transport industry (CLIA, IATA, UIC)

18-20th May, 2022 Spain, Alicante Organizer: Ministry of Health, Spain Practice language: Spanish Aim of the exercise: To assess the ability of stakeholders to respond promptly to public health threats at entry points in accordance with international health rules. To evaluate communication between the various authorities involved in the management of communicable diseases. Establish and strengthen interinstitutional cooperation. Assess the compatibility of the action plans of the different authorities.

STAMINA at a glance



37 Partners

30 Months

16 Different countries

12 Trial-Demonstrations

10 Technical Solution Providers

9 First Responders

8 National Planners

Total cost

€11.020.801,25





STAMINA Objectives [1/2]



- Perform and extensive gap analysis in existing preparedness and response plans and relevant legacy systems on a national and EU level
- Study human behaviours that allow outbreaks to spread and define guidelines on public trust monitoring and correct implementation of risk communication principles
- Support data interoperability of national and regional systems with the STAMINA decision-support toolset to provide improved decision making with a very high user acceptance
- Familiarise local authorities with EU and STAMINA-developed tools, providing EU with better, timelier, data, by performing targeted demonstration activities.
- Enable outbreak evolution forecast taking into account all factors accelerating pandemics

STAMINA Objectives [2/2]



- Provide new diagnostic capabilities through the exploitation of bioinformatics and low-cost highly accurate point-of-care testing (POCT) devices to diagnose diseases earlier than before
- Organize preparedness and response simulation exercises that include extensive Training and Field Demonstrations
- Refine the strategic and operational Cross-Organisational Guidelines for preparedness and response to improve coordination at all levels (nationally and internationally)
- Propose and validate a standardised scheme for interoperability (information exchange)
 and personnel management procedures of different actors for preparing for and responding
 to crisis
- Establish new strong partnerships between the Member States as a result of the project

Multiple Solutions against the Pandemic



STAMINA data

Historical Datasets
Open Datasets
Web and Social Media
Previous Lessons Learned
Experts Opinions





STAMINA predictive models

PALMS (Health and cost benefit)

AIR (Antimicrobial Resistance)

BIMS (climate models in predicting the spatio-temporal evolution of a disease)

FLEE (Movement of people and goods)

GLEAM (Simulation of various infectious diseases on global scale)

FACS (Flu and Coronavirus Simulator with geospatial data, epidemiological data, disease parameters, demographics)

CHARM (Dynamic reconfiguration of hospital wards for **bed capacity planning** during pandemic outbreaks)

STAMINA solutions

Early Warning System (EWS)

Crisis Management Tool (CMT)

Real-time Web and Social Media Analytics (RWSMA)

Preparedness Pandemic Training tool (PPT)

Common Operational Picture (COP) platform

Detection tools and Smart wearable devices for health monitoring





First responders



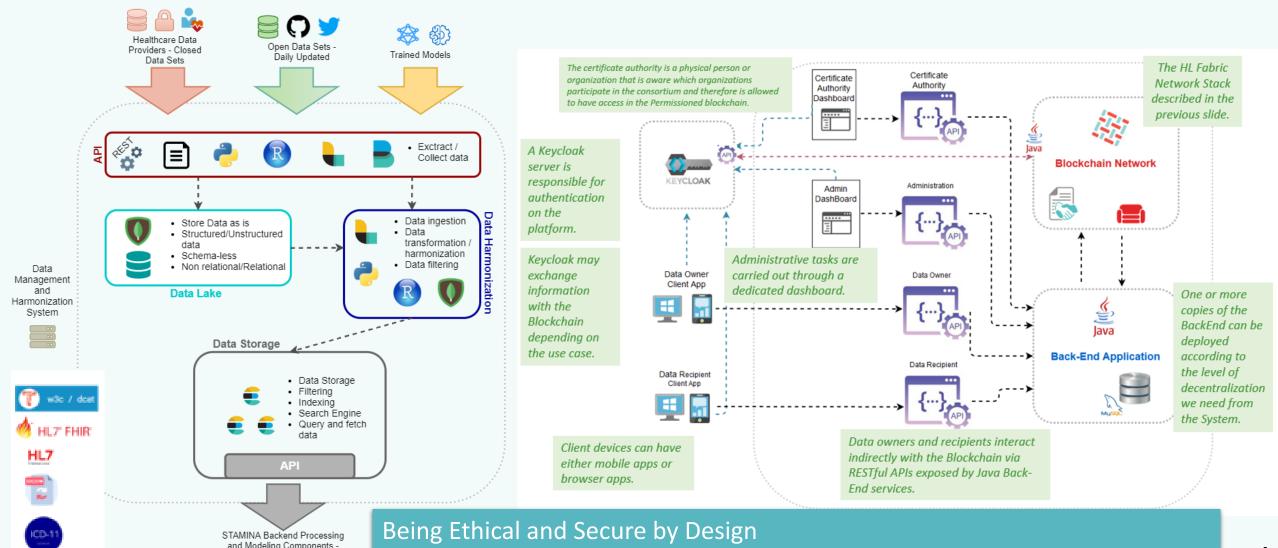


National planners

Inventory of best practices and guidelines to improve preparedness and response

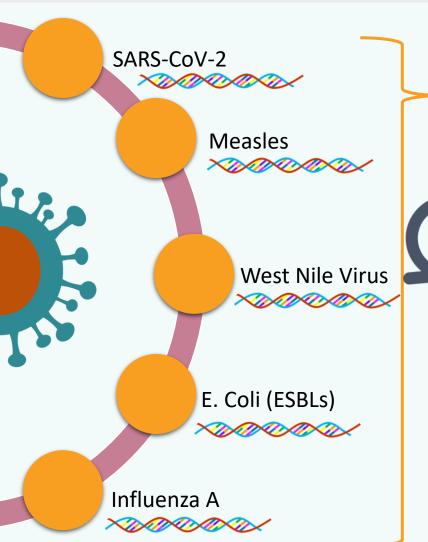
Harmonized and Secure data management according to standards

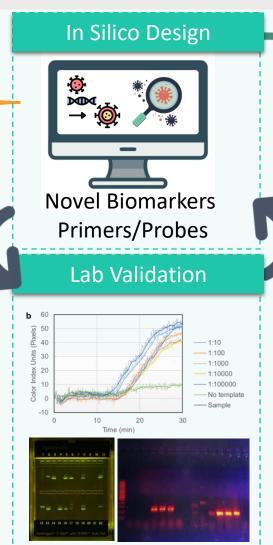


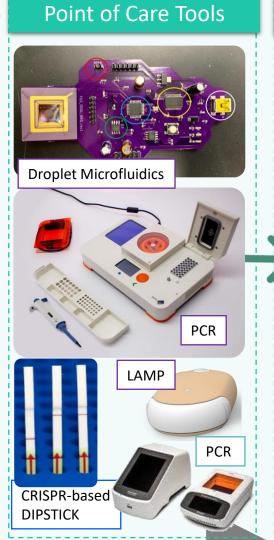


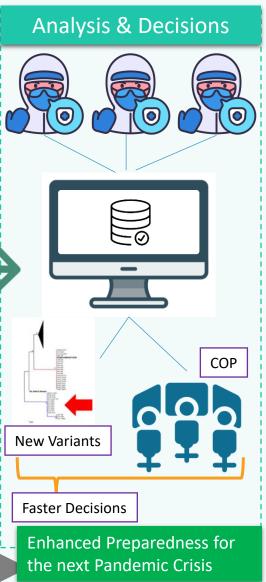
Fast - Cheap - Accurate & Portable Detection











Protecting our ...Heroes!





Input from SmarKo:

- Vital Data
- **Heart Rate**
- Sp02
- Skin Temperature
- ECG (1 channel)
- Oxygen saturation

etc.

Other

Geo-location

Air pressure

Motion (Accelerometer)

Motion (Gyroscope)

Motion (Magnetometer)

Motion (StepCount)

Environment (Temperature, Air-pressure etc)

Data Collector module integrated in a mobile device **Early Warning** Alerts

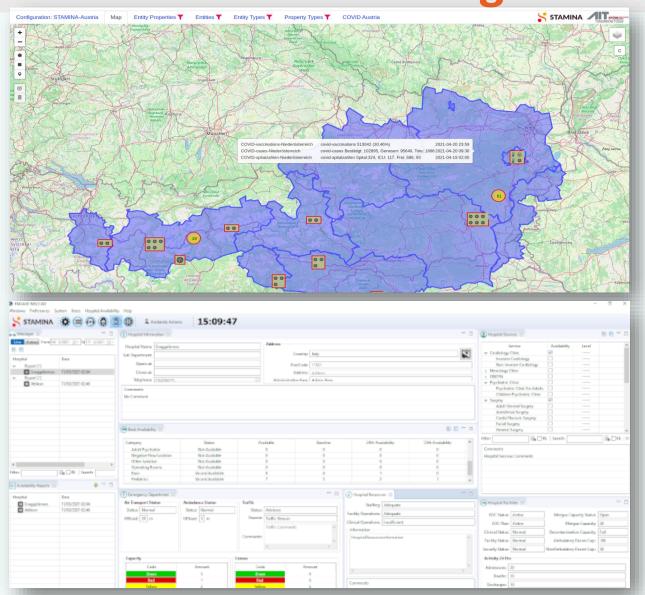
COP

Web application (interface of T6.3)

> Decisions for further diagnostic testing and precautionary measures (e.g. stay at home)

Bringing Common Operational Picture into the Healthcare setting









STAMINA The STAMINA Methodology (STADEM)

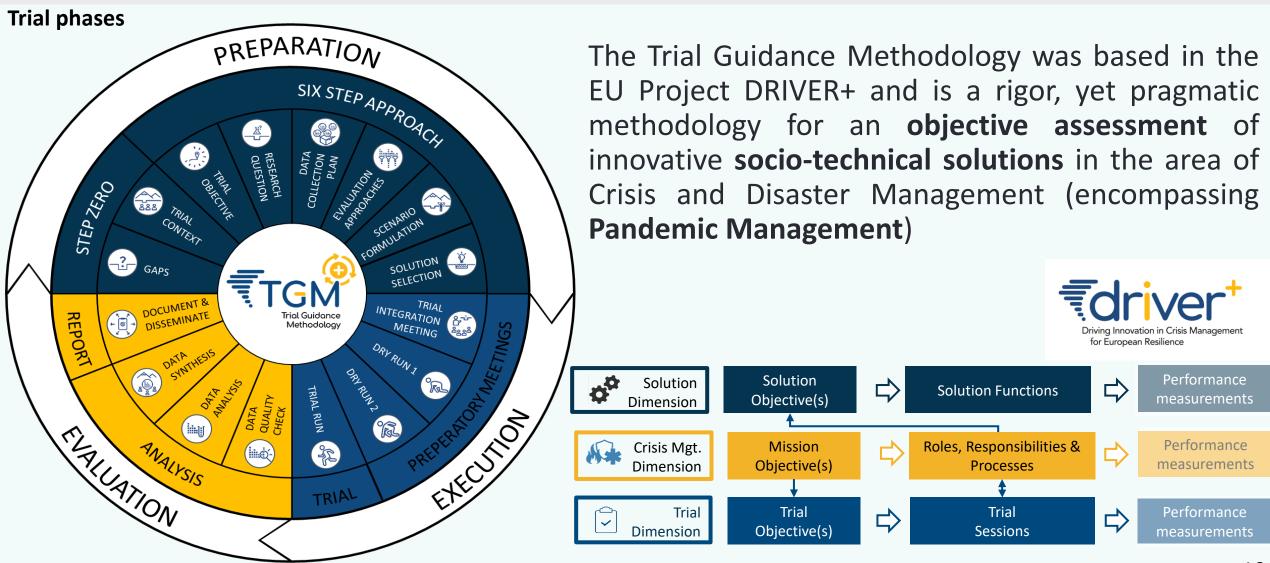
The STADEM Methodology



- Development of the taxonomy of pandemic functions based on:
 - Trial descriptions of trial owners
 - End user requirements (establish a relation between gaps and pandemic functions)
- Development of the STADEM methodology based on the Trial Guidance Methodology from DRIVER+
- Preparation, Execution, and Evaluation of the STAMINA trials
 - Application of STADEM
 - In addition, use cases are used as support for the trial preparation



STADEM/The Trial Guidance Methodology STAMINA



STADEM/The Trial Guidance Methodology STAMINA



Solution dimension:

- the influence that a solution (its use, functionalities etc.) has on the trial
- the added-value a solution brings to CM functions
- practitioner assessment of the solution

Crisis management dimension:

- the influence the crisis management (roles, responsibilities, etc.) has on the trial
- the impact that a solution has on the performance of the CM organization

Trial dimension:

- the influence the trial organization (logistics, availability of key staff, hardware, software, etc.) has on the trial
- the changes that the trial organization brings to the success of the trial

Sustainability



Agreement with London Brunel university for the development of FACS tool.

What is FACS?

- Modelling tool for simulating the spread of influenza and COVID-19 (coronavirus infection) in a local region (now measles is added)
- Includes various aspects of disease spread
 - The movement of the population
 - Age-dependent vulnerability, immunities and mortality of the population
 - Pattern of disease spread according to time-varying immunity
- Answers questions related to decision making (what if scenario)
 - Restriction policy
 - Vaccination strategies



UNITED4Surveillance Gaps identified by the pandemic

EU's preparedness and responses to the COVID-19 pandemic were sub-optimal

Health security framework

Stronger EU cross border health threaths

Stronger ECDC

New emergency framework (EMA)







UNITED4Surveillance at glance

36 months

25 EU countries

41 partners:

- public health
- clinical (mikrobiology)
- epidemiology
- data science

Total cost: 8 749 521,59 €



Coordinator
National Institute for Public
Health and Environment







UNITED4Surveillance objectives

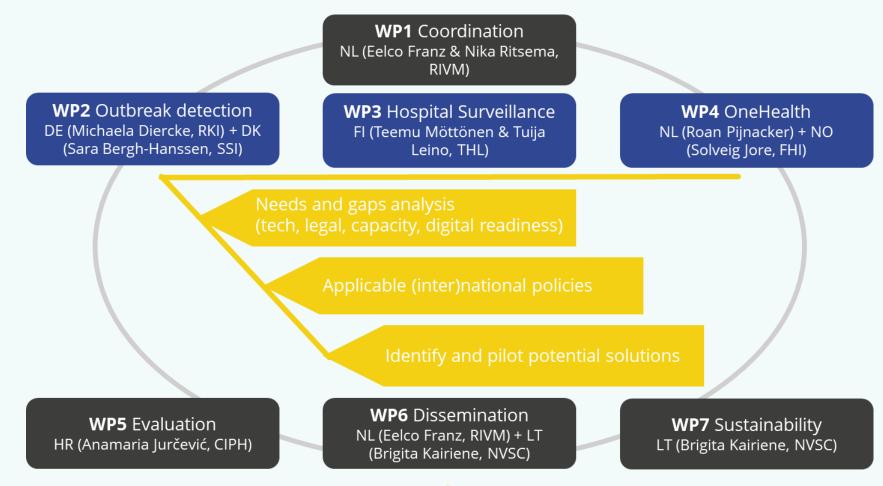
The goal of **UNITED4Surveillance** is to assist member states and the EU in the deployment of digitalized, integrated surveillance systems, operating both at national and European levels, to ensure better detection of early warning signs and more accurate risk assessment and coordinated response among the member states to any future crossborder health threat.







UNITED4Surveillance structure

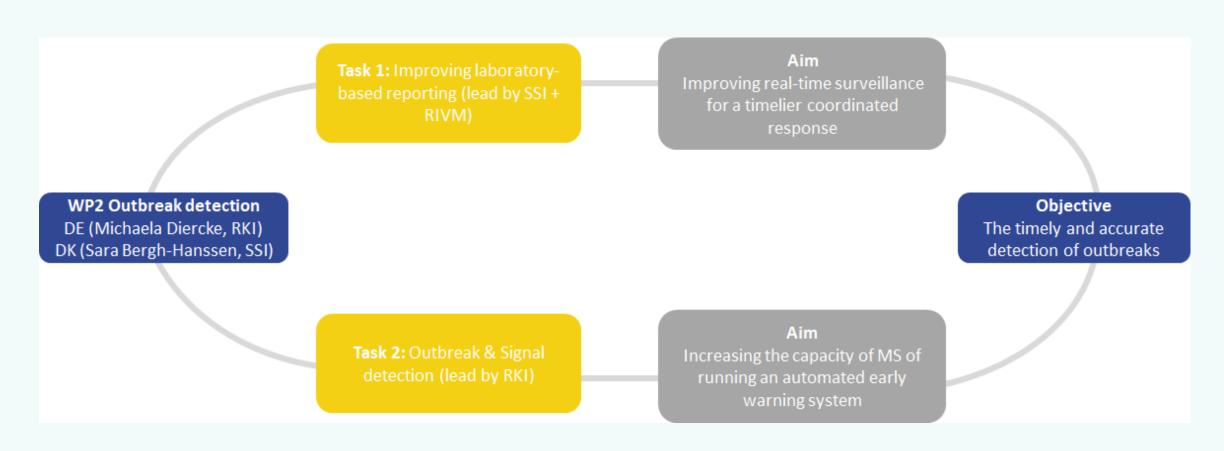








Work package 2: Outbreak detection







Task 1 "Improving Laboratory-Based Reporting"

Objective: Improving real-time surveillance for a timelier coordinated response

Background: The SARS-CoV-2 pandemic has highlighted that timely sharing of laboratory test results is crucial for an informed response during an unfolding epidemic. Many countries experienced challenges and delays in sharing of test results - a specific challenge is the sharing of genetic data, due to its complexity.

Subtask 1: Needs and gap analysis with regards to lab-based reporting & relation to national policies

Subtask 2: Data standards/Development of logical data model for genotyping/subtyping





Task 2 – Outbreak & Signal Detection

Aim: Development and deployment of tools for the timely and accurate detection of outbreak in surveillance data

Increase the capacity of MS running an automated early warning system

Background: Early detection of infectious disease outbreaks can help reduce the further spread and reduce harmful consequences.

Automated tools can help manage and foster analysis across different datasets especially when human resources are scarce.

Subtask 1: Review of outbreak detection activities

Subtask 2: Benchmarking of outbreak detection methods

Subtask 3: Tool development

Subtask 4: Piloting





Work package 3: Hospital Surveillance

The aim of WP3 is to build a foundation for timely, comparable, and representative surveillance of severe infections leading to hospitalization.

Task 1: Establish or improve sentinel-based electronic surveillance of serious infectious diseases or syndromes from hospitals in participating Member States.

Task 2: Integrate clinical information on hospitalized patients with microbiological data (typing and microbial resistance), in Member States using nation-wide register-based public health surveillance





Work package 4: One Health

Aim: National capacity building of One Health surveillance systems with integration of data/signals from the human, animal and environmental domains to enhance detection of (re)emerging pathogens with zoonotic potential, source identification of outbreaks and research into interventions.

Three tasks over three disease groups

