



Country visits: interviewing health information system stakeholders

2 EUROPEAN PROJECTS - 2 AIMS - 1 METHODOLOGY





EUROPEAN PUBLIC HEALTH WEEK - MAY 20 2022

Agenda

- Introduction PHIRI & TEHDAS projects
- Methodology
- Preliminary results PHIRI
- Preliminary results TEHDAS
- General meeting: June 23
- Q&A





INTRODUCTION PHIRI & TEHDAS







Two European projects:



Population Health Information Research Infrastructure



Towards the European Health Data Space

Project coordinator: Sciensano The Finnish Innovation Fund Sitra

Project acronym: PHIRI TEHDAS

Start date: 1 November 2022 1 February 2021

Duration: 36 months 30 months

Participants: 30 European countries 25 European countries

(Co-)funding: €5 M, DG RTD, 100% €4.16 M, DG SANTE, 60%

Websites: www.phiri.eu www.tehdas.eu

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Two aims:



Population Health Information Research Infrastructure



Towards the European Health Data Space

Aim of the country visits:

Map the health information system that monitors the effects of COVID-19 on population health.

Start date: December 2021

Duration: 14 months

Map the state-of-play of the national health data management developments in relation to a future European Health Data Space (EHDS)

December 2021

12 months



One methodology:



Population Health Information Research Infrastructure



Towards the European Health Data Space

Methodology:

Semi-structured interviews with key stakeholders in the national health information system

Tool:

Adapted from WHO's support tool to strengthen health information systems

Covering:

Data sources, data quality and analysis, reporting, data governance and resources and training needs, dissemination and knowledge translation

Data sources, data quality, data infrastructure (storage, access and interoperability), data governance, resources and training needs, EHDS preparedness



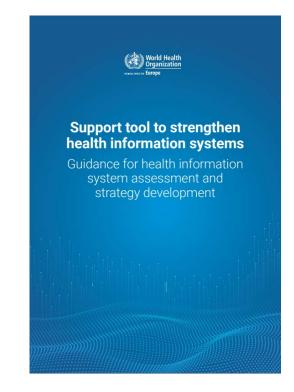


Tool and roles

Adaptation of the tool to accommodate the aim of the country visit

Defined Roles:

- Assessor: act as independent, professional assessors, create engagement and carry out the assessment (preparatory desk report, interviewing, summarising outcomes)
- Contact person(s): national liaison during the assessment, provide the assessors with relevant documentation, identify the stakeholders to be interviewed, planning the interviews
- Observer (only in PHIRI): provide support during the assessment based on previous experience with the assessment methodology and map potential overarching outcomes across the assessments





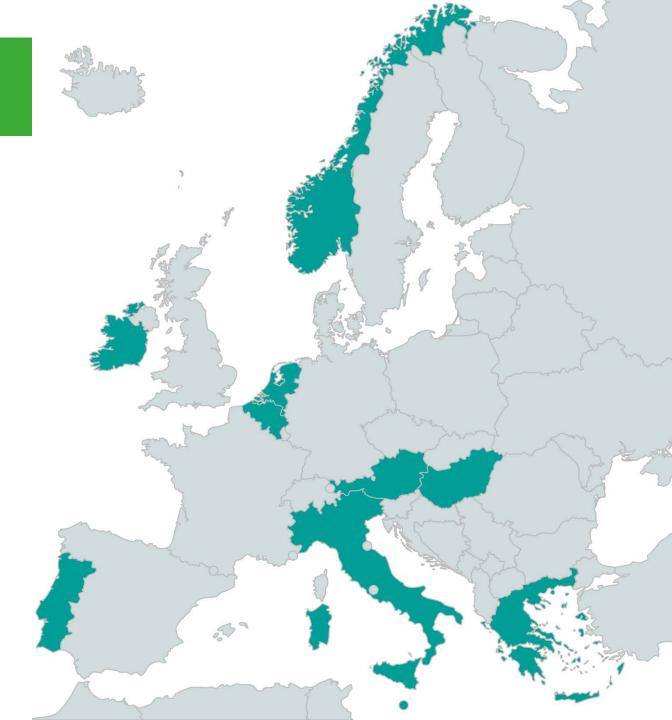


The PHIRI country visits



Assessments scheduled
Q4 2021 – Q1 2023





The TEHDAS country visits

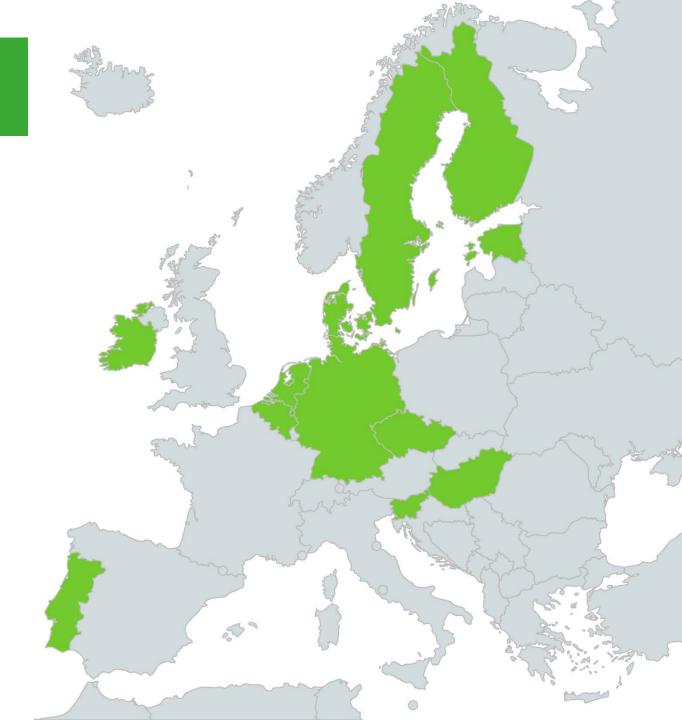


Towards European Health Data Space

12

Assessments scheduled Q4 2021 – Q4 2022





METHODOLOGY



1. Preparatory desk review

- Preparatory report
- Stakeholders selection

2. Country visit

 Semi structuredinterviews using the adapted assessment tool

3. Debriefing meetings

- Multistakeholder meeting
- General meeting

4. Reporting

- One-pager
- Report





1. Preparatory desk review

- To gain initial insight into the country's health information system (HIS) and data management processes
- To identify initial knowledge gaps in the country
 - → **PHIRI**: focus on COVID-19 data flows and changes during the pandemic
 - → TEHDAS: focus on the sharing of data for secondary use & preparedness for the EHDS





1. Preparatory desk review

- To identify the main stakeholders with country contact person
 - National Public Health Institute
 - Ministry of Health and/or Research
 - Statistical Office
 - Health insurance company
 - IT or eHealth infrastructures
 - Data permit authority or similar
 - Universities
 - Hospital groups





2. Country visit

- Semi-structured interviews with key stakeholders
 - Virtual or face-to-face
 - Guided by assessment tool
 - Complement with debriefing sessions among assessors





3. Debriefing meetings

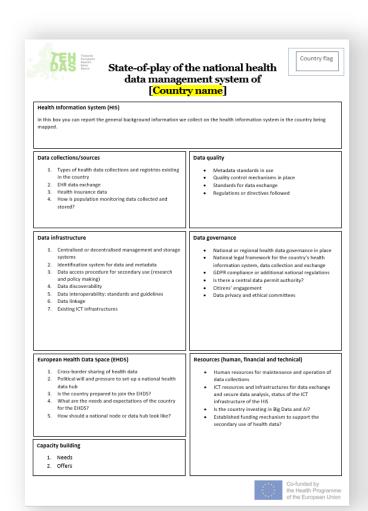
- A stakeholders meeting is organised shortly after
 - → Bring national stakeholders together and conclude the country visit
 - → Deliver initial findings of the county visit
 - → Discuss potential feedback and comments
- A general mid-term meeting is organised to publicly present the main findings of the first countries assessed

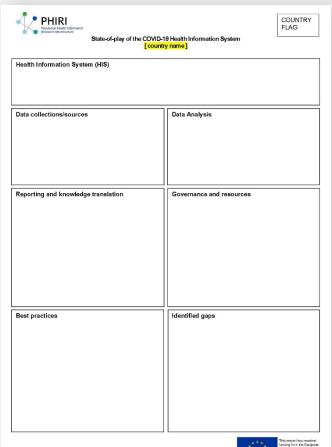




4. Reporting

- The results are summarised into a detailed *report* and a *one pager* per country
- The reports are sent to the participating stakeholders for feedback and comments









Added value for the assessed country

- An opportunity to bring together stakeholders
- An overview of the main stakeholders of national HIS, their roles, and data management processes
- Pinpoint capacity building and training needs, and raise expertise by participating in the assessment of a different country as an assessor
- PHIRI: Identify strengths and weaknesses of the different data flows monitoring the wider effects of COVID-19, and draft recommendations
- TEHDAS: Provide an insight into the current state of the national HIS to potentially join the EHDS, and the awareness thereof among stakeholder



PRELIMINARY RESULTS PHIRI





Preliminary results PHIRI

Best practices

- Strong vaccination information system implemented before the COVID-19 crisis hit
- Strong and rapid technological surveillance system set-up
- Pivotal role of telemedicine during COVID-19
- Data dashboards and regular reports (publicly) available
- Ad hoc health surveying during COVID-19 or add-on modules specific to COVID
- Strong formal and informal communication between different stakeholders; building a trust relationship with the public
- Development of Robotic Process Automation to align COVID-19 data across information systems and process laboratory records, notifications and contacttracing data
- Creation of COVID-19 databases for secondary use of data





Preliminary results PHIRI

Concerns

- Elements of the COVID-19 surveillance system operating based on national state-of-emergency or other emergency decrees
- Slow integration of newly developed systems for surveillance of COVID-19 in the existing surveillance system
- Challenges with human resources
- Lack of single unique person identifier in the health system
- Lack of data from the private healthcare sector
- Weak data collection at the community level (heterogeneous systems)





Preliminary results PHIRI

Lessons learnt

- Difficulty of linking data when a unique person identifier is not collected
- Relevance of preparing for appropriate legislation for collection, processing, sharing and reuse of health data
- Significance of having infodemic management in an overarching strategy for health information system
- Need of including health information system elements in the pandemic preparedness strategy
- Need for more harmonised data systems across the different hospitals and community to exchange data
- Relevance of paying attention to security threats





PRELIMINARY RESULTS TEHDAS





Best practices

- Citizen empowerment and control over their data
- National level data guardian to act as a representative of the citizens (ombudsman)
- Strong investment in infrastructure for primary use, which can be used for secondary use
- Dedicated support services for researchers and data users (e.g., data access, analysis, data support centres)
- Initiatives allowing interaction and collaboration between legal officers
- Allowing access to health data for secondary use on the basis of public interest
- Involvement of healthcare professionals to improve data quality and interoperability (e.g., in deploying standards)
- Improving data literacy (e.g., training to healthcare providers on using IT technology)
- Involvement in international co-operations (e.g. B1MG, TEHDAS, BBMRI, ELIXIR)





Concerns & needs

- Dependence on paper-based records
- Inconsistent use of single unique personal identifier for linking data
- Data gaps from the private healthcare sector
- Practices limiting foreign users access to data
- Inconsistent use of international standards and high amount of unstructured data
- Unclear/inconsistent interpretation of GDPR
- Legal, organisational and semantic interoperability across Europe
- Financial resources, trainings and sharing of best practices at EU level
- EU and local level incentives to enable digitalisation
- Consideration of diversity and local sensitivities
- Skilled human resources (e.g., data stewards, data analysts, cyber-security experts, legal officers)



Concerns





Expectations of the European Health Data Space (EHDS)

- Ensure and communicate equal benefit for all countries
- Focus on cybersecurity, trust and citizens' empowerment
- Enable cross-border research and international comparisons on certain parameters
- Establish a European Health Data Academy
- Improve transparency in access processes and decisions
- Establish a European level platform for legal officers to share best practices (e.g., through workshops)
- Develop a manual providing overview of national health data management systems in EU countries
- EHDS must be relevant for citizens and health service providers, demonstrating clear and tangible benefits





Preparedness for the EHDS

- Political will to join the EHDS (6 / 6 countries visited)
- National contact point established (1 / 6)
- Digitalisation (5 / 6)
- Common metadata catalogue (3 ongoing / 6)
- •Usage of a unique personal identifier for health (5 / 6)
- •Remote secure processing environments (3 / 6)
- Semantic interoperability (1 / 6)
- •Give equal access for national and foreign researchers (5 / 6)





GENERAL MEETING: JUNE 23 (10:00-12:00 CET)

"Mapping Health Information Systems for COVID-19 and a future EHDS"











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