

# PHIRI

Population Health Information  
Research Infrastructure

# Scientific Stakeholder Meeting I

14/01/2021



# Aim of the meeting

- Learn from the expertise, methods or tools that already exist in your projects or organisations and build on it.
- Identify synergies and routes for exchange between your project/organisation.
  1. Would you like to be involved in PHIRI? (projects/organisations input to PHIRI)
  2. Which of your activities should we be involved in? (PHIRI input to projects/organisations)
- The aim is NOT to discuss technical details during this meeting but find areas we need to connect and which links need to be made with the relevant activities/WP lead.

# Agenda

Nr	14th January, 09:00-12:30 via Webex (online)	Speaker	Time
1	<p>Welcome</p> <p>Aim of the meeting and overview of PHIRI</p>	<p>Petronille Bogaert</p> <p><i>Sciensano, Belgium</i></p>	09:00
2	<p><b>Health Information portal for COVID-19</b></p> <p>Building a Health Information portal on health and health care data for COVID-19 to support structured information exchange between EU countries. The portal will offer a FAIR catalogue with overviews of COVID-19 population health data sources, studies and capacity building exercises in the framework of PHIRI and beyond.</p> <ul style="list-style-type: none"> <li>• CESSDA - Ivana Ilijasic Versic</li> <li>• ECDC - Howard Needham</li> <li>• EUPHA - Marie Guichardon</li> <li>• ASPHER - John Middleton</li> <li>• JRC - Clemens Wittwehr</li> </ul>	<p>Hanna Tolonen</p> <p><i>THL, Finland</i></p>	09:15
3	<p><b>Building a federated research infrastructure for a rapid policy response</b></p> <p>Creating and validating a federated research infrastructure that overcomes data reuse &amp; data sharing hindrances for rapid policy relevant research response to the evolving pandemic.</p> <ul style="list-style-type: none"> <li>• ECRIN - Sergei Gorianin</li> <li>• BBMRI - Petr Holub</li> <li>• EATRIS - Toni Andreu</li> <li>• EGI ACE - Gergely Sipos</li> </ul> <p><b>Research use cases measuring the impact of COVID-19 on population health</b></p> <p>Conducting research through use cases of immediate relevance for public health policies and management of the COVID-19 pandemic.</p> <ul style="list-style-type: none"> <li>• EUROSTAT - Ilze Burkevica</li> </ul>	<p>Enrique Bernal Delgado</p> <p><i>IACS, Spain</i></p> <p>Martin Thißen</p> <p><i>RKI, Germany</i></p>	10:15
BREAK			11:05

# Agenda

4	<p>Research methodologies to assess the impact of COVID-19</p> <p>Supporting European countries to understand the impact of COVID-19 on population wellbeing and health, morbidity and mortality using a multidisciplinary approach.</p> <ul style="list-style-type: none"><li>• CHAIN - Mirza Balaj</li><li>• SHARE - Karen Andersen-Ranberg</li><li>• EHTEL - Diane Whitehouse</li></ul>	<p>João Forjaz</p> <p><i>DGS/FUML, Portugal</i></p>	11:20
5	<p>Foresight: Modelling and Scenarios</p> <p>Gaining insights in possible future health impacts of the COVID-19 outbreak, by developing scenarios for MS and associated countries' national situation.</p> <ul style="list-style-type: none"><li>• <u>EpiPose</u> - Lander Willem</li></ul>	<p>Henk Hilderink &amp; Mariken <u>Tijhuis</u></p> <p><i>RIVM, <u>Netherlands</u></i></p>	12:00
6	Concluding Remarks	<p>Petronille Bogaert</p> <p><i>Sciensano, Belgium</i></p>	12:20
END			12:30

# Population Health Information Research Infrastructure (PHIRI) for COVID-19

# Overview

- Timeline: 1 November 2020 – 3 years
- Financing: European Commission Horizon 2020 – 5M€
- Coverage: 41 partners in 30 countries
  - 27 National Institute of Public Health or Research or Disease Control
  - 7 Universities
  - 7 Ministries of Health
- Structure: 9 workpackages and 3 transversal topics



Map of PHIRI Partners



# PHIRI for Covid-19

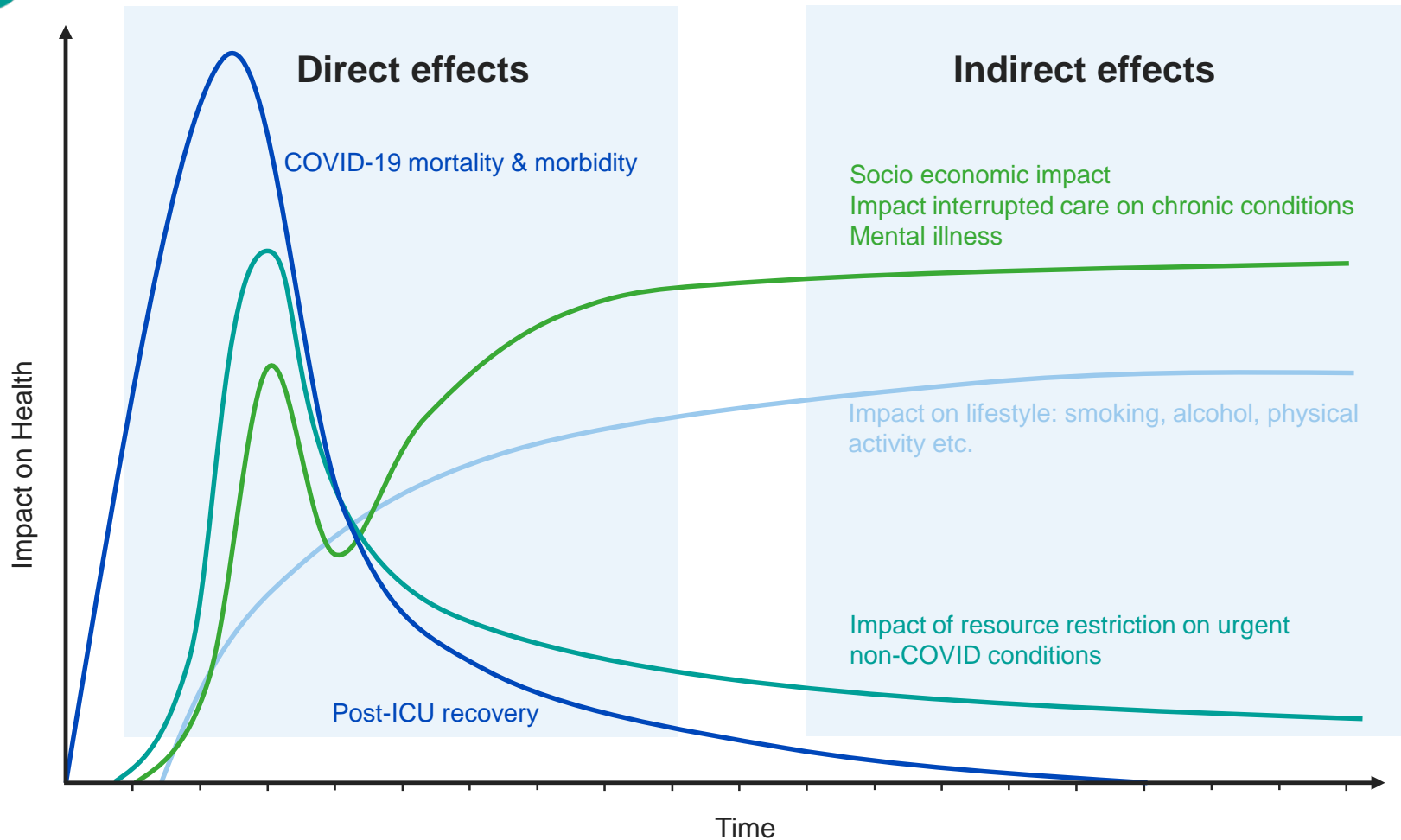
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Population Health Information Research Infrastructure (PHIRI) aims to:

Identify, access, assess and reuse for research population health and non-health data in Member States and across Member States that can underpin public health policy decisions relevant to Covid-19

In close interaction with key stakeholders in the health information landscape, in particular with ECDC, EUROSTAT, JRC, OECD, and WHO

# (In)direct impact of COVID-19 on population health



www.phiri.eu



PHIRI

Research use cases  
Research methodologies

Health information Portal  
Federated Research Infrastructure

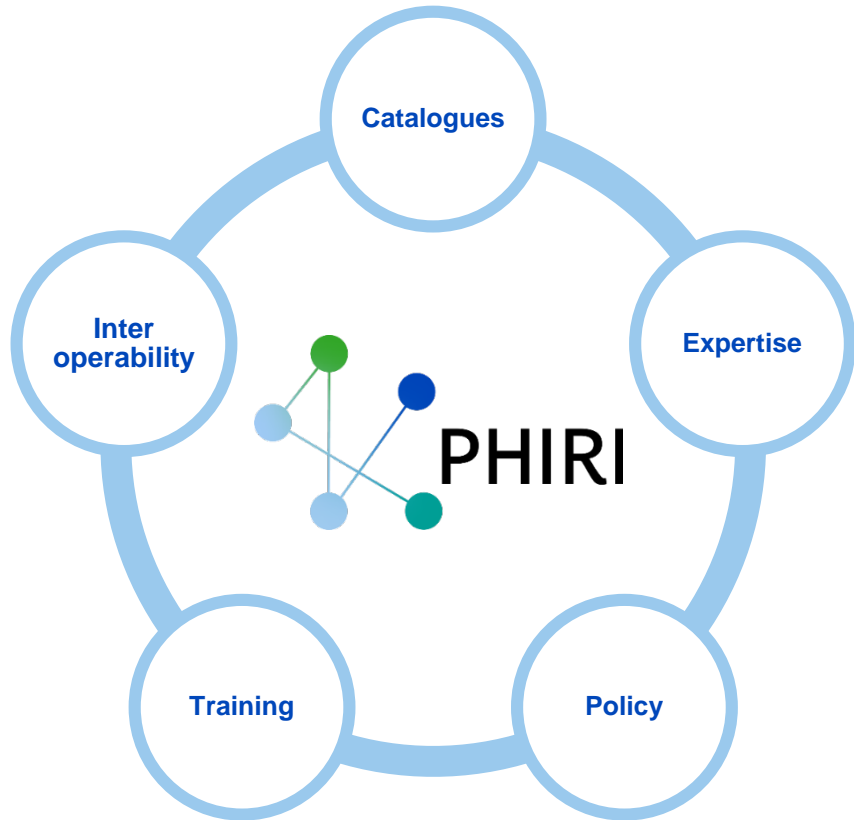
Rapid Exchange Forum  
Outreach & Engagement

Foresight: Modeling & Scenarios

Stakeholder involvement  
Capacity building  
Policy linkage

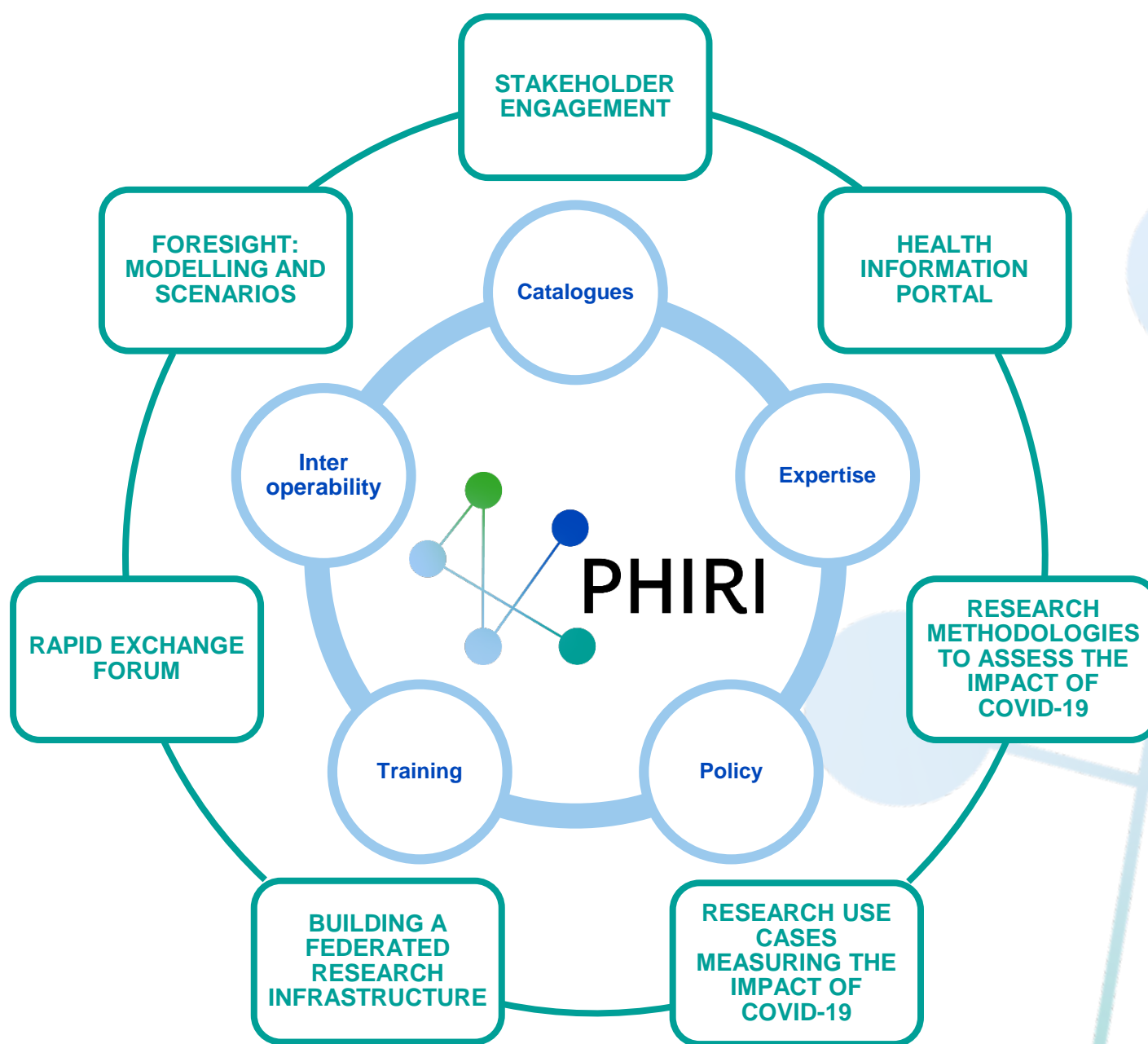


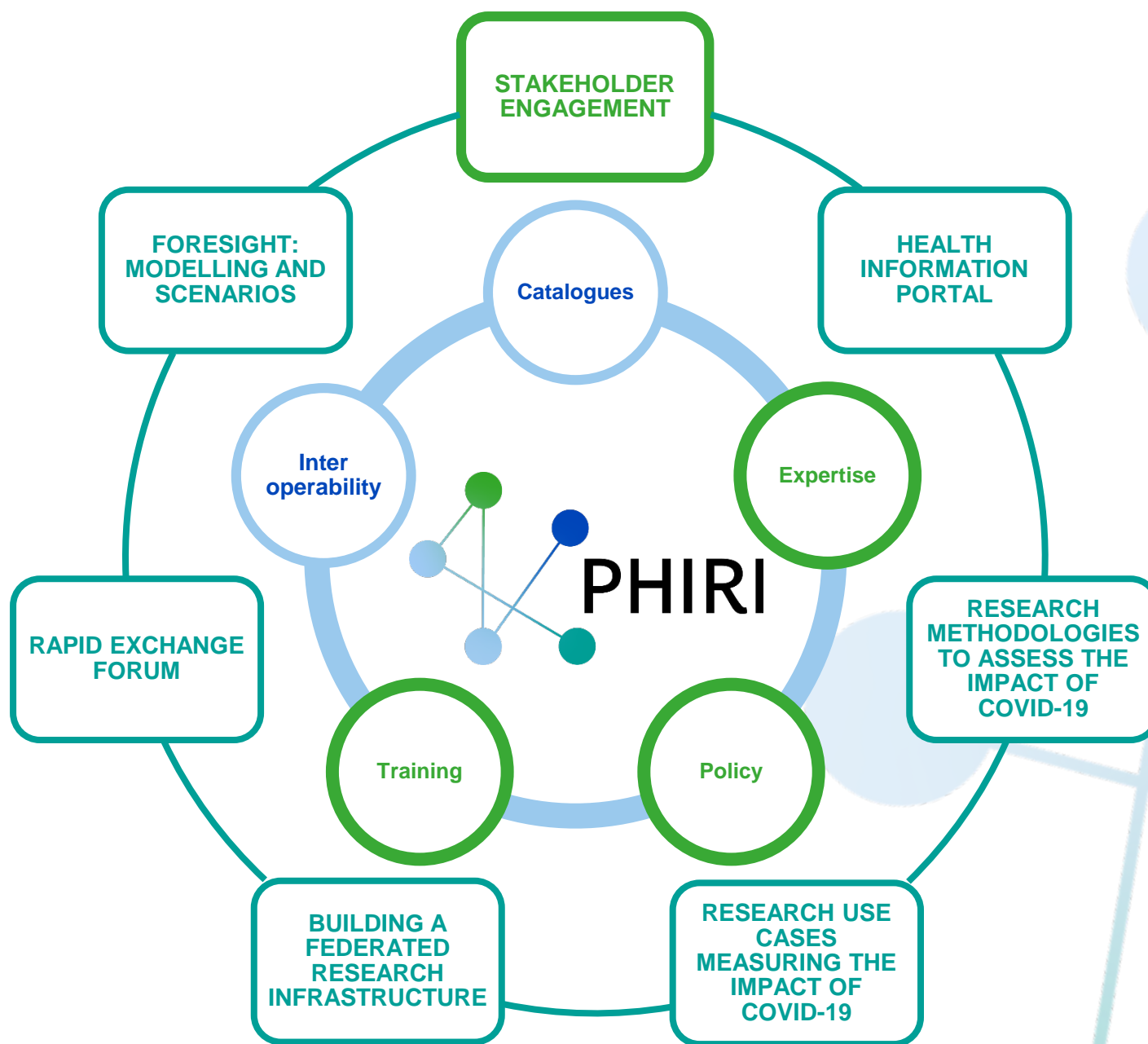
# PHIRI for COVID-19



## Objectives:

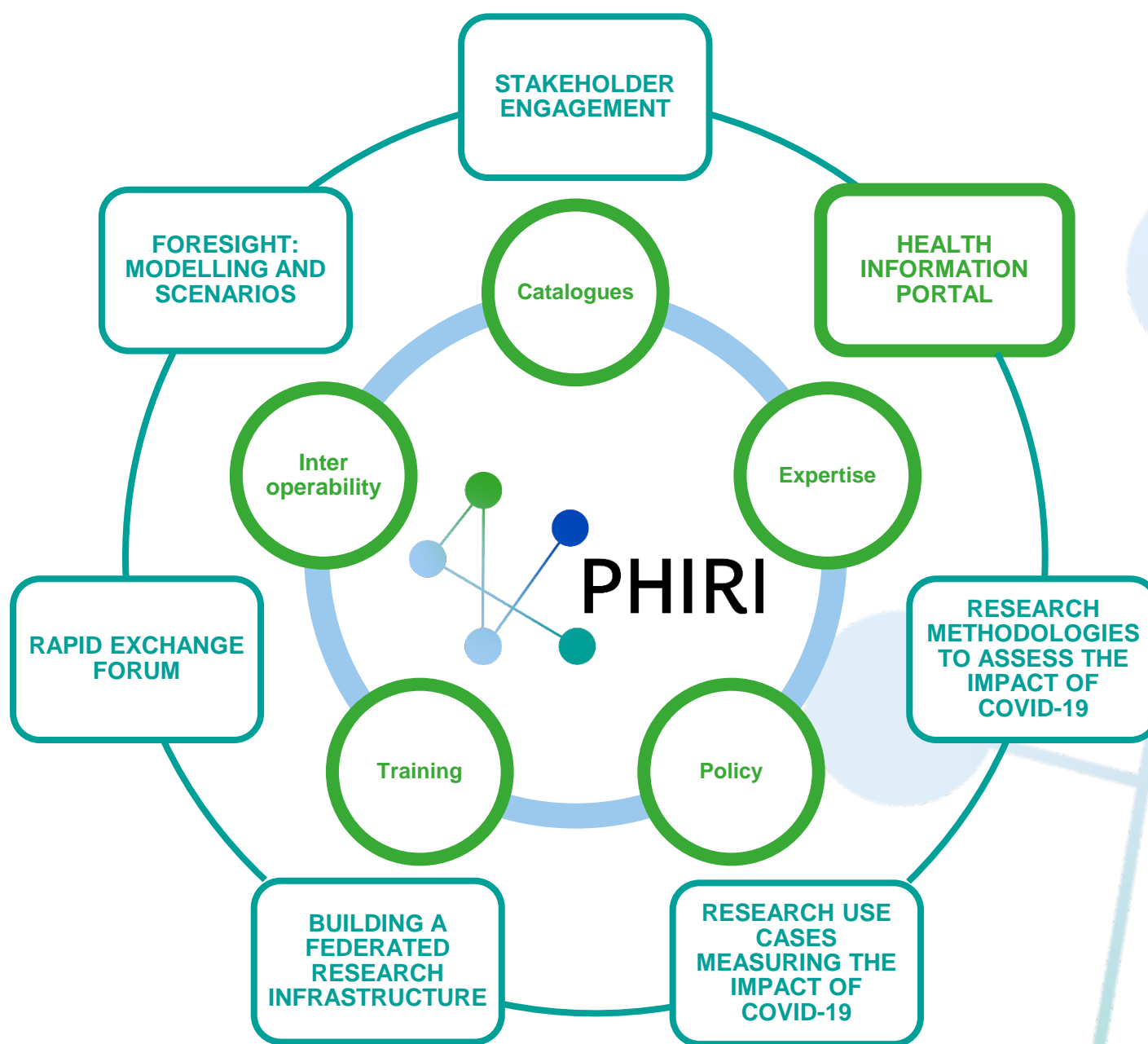
1. To provide a **Health Information portal** for COVID-19 with FAIR catalogues on health and healthcare data for structured information exchange across European countries. To link different data sources and to use Pan-European data in a GDPR compliant, federated way.
2. To provide structured exchange between countries on COVID-19 **best practices and expertise**. It allows researchers to provide relevant and evidence based information ready for use in research, and decision-making processes.
3. To promote **interoperability** and tackle health information inequalities. PHIRI supports researchers and public health bodies to research queries related to COVID-19 and provides **capacity building** for management of COVID-19 relevant population health and healthcare data.





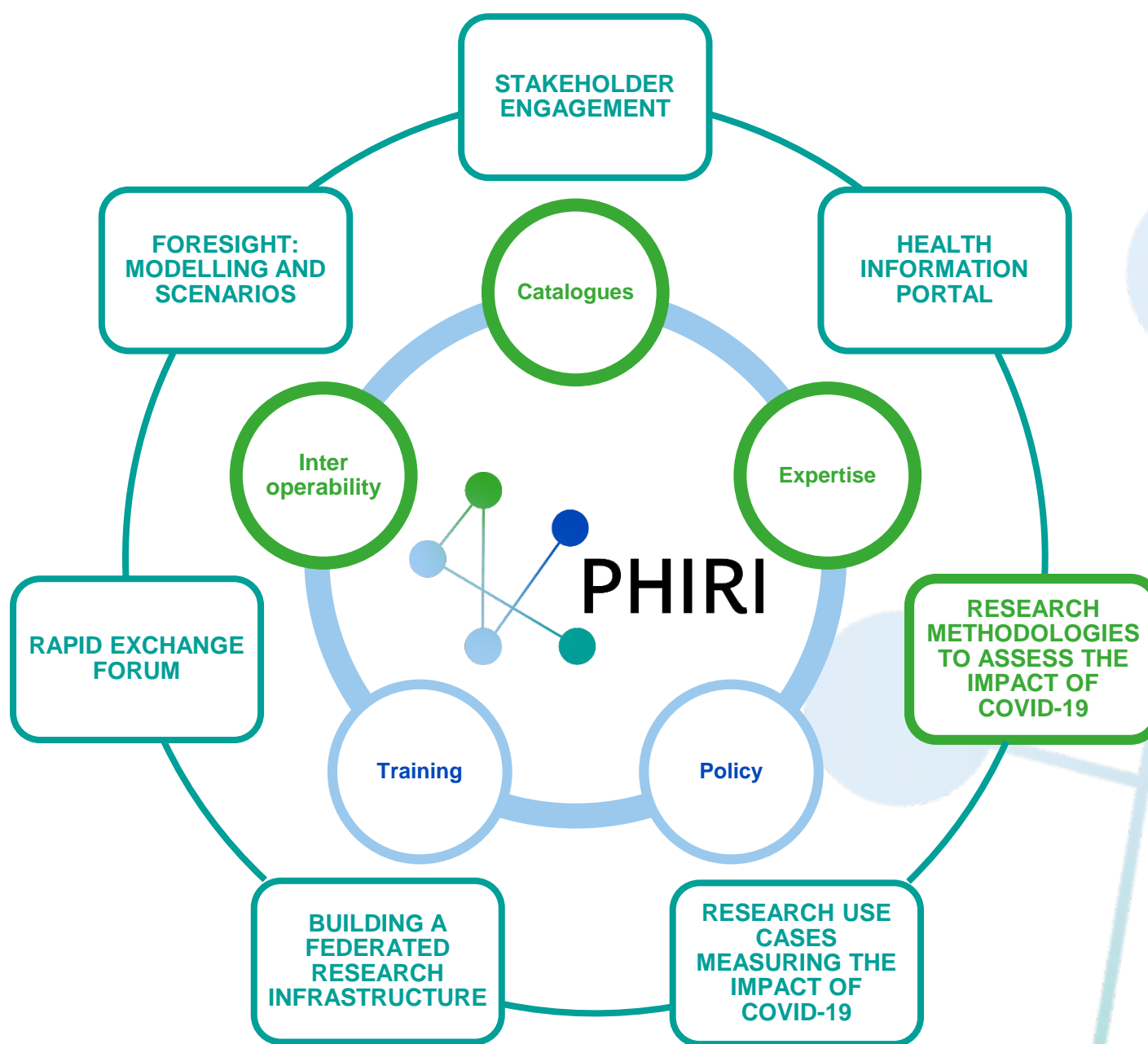
# Engage and involve

- Addressing the COVID-19 infodemic (training, FAQ section, key messages)
- Country visits to map state of play on monitoring the wider effects of COVID-19
- Stakeholder meetings: 3 main meetings and short ones every two months
  - Overview of relevant COVID-19 activities



# Health Information Portal

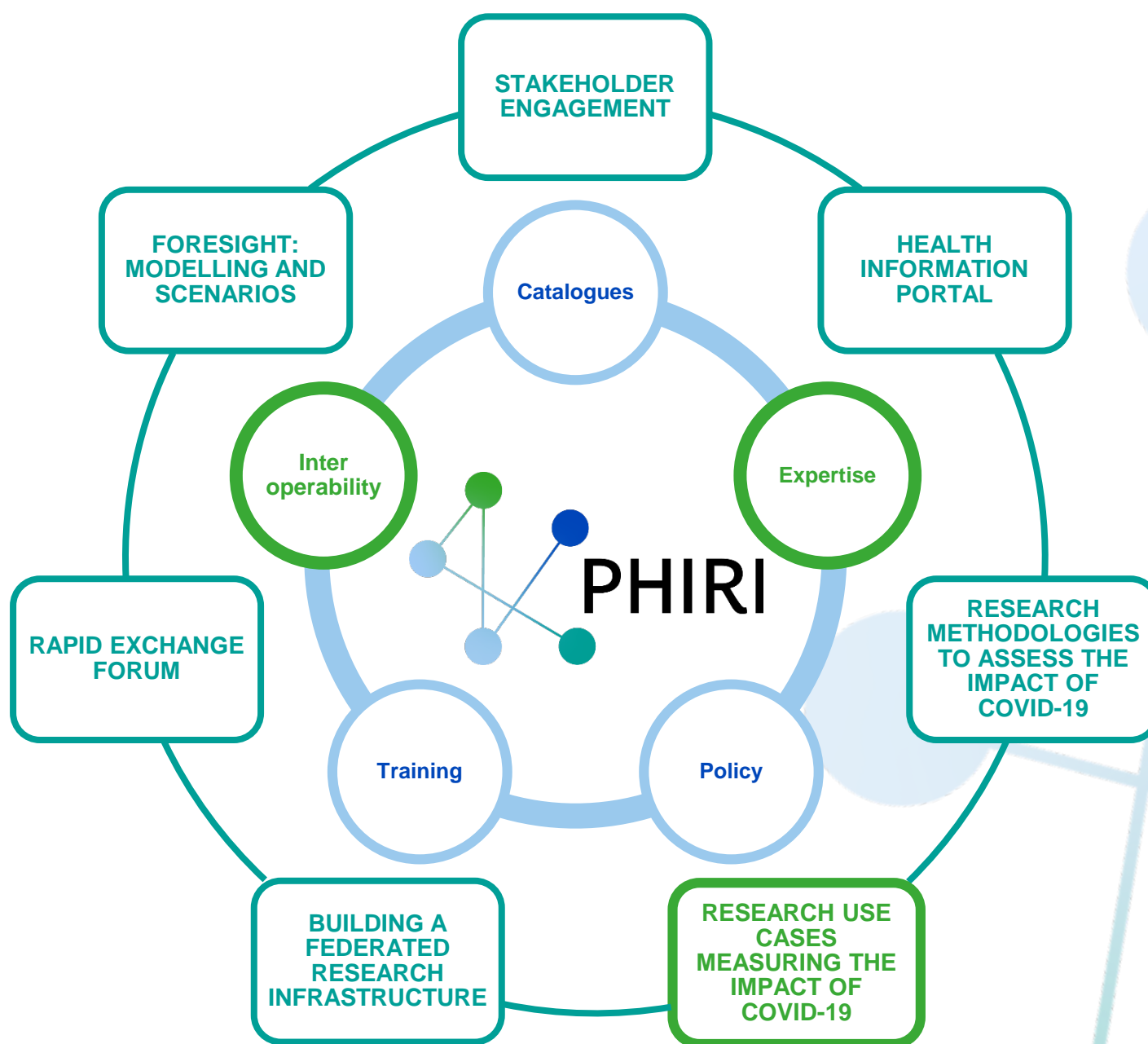
- Health information portal
  - Catalogue of population health data sources in countries
  - Catalogue of COVID-19 population health studies
  - Catalogue of COVID-19 international guidelines, initiatives and projects
  - Catalogue of COVID-19 training material and courses
  - Practices on COVID-19 ethical and legal aspects
- Strengthening National Nodes



# Methodologies to assess impact of COVID-19

- Indicators and methodologies used to assess the wider impact of COVID-19
- Explore determinants of the severity of long-term health outcomes of SARS-CoV-2
- Efficacy of digital tools for contact tracing
- Innovative tools for COVID-19 health monitoring

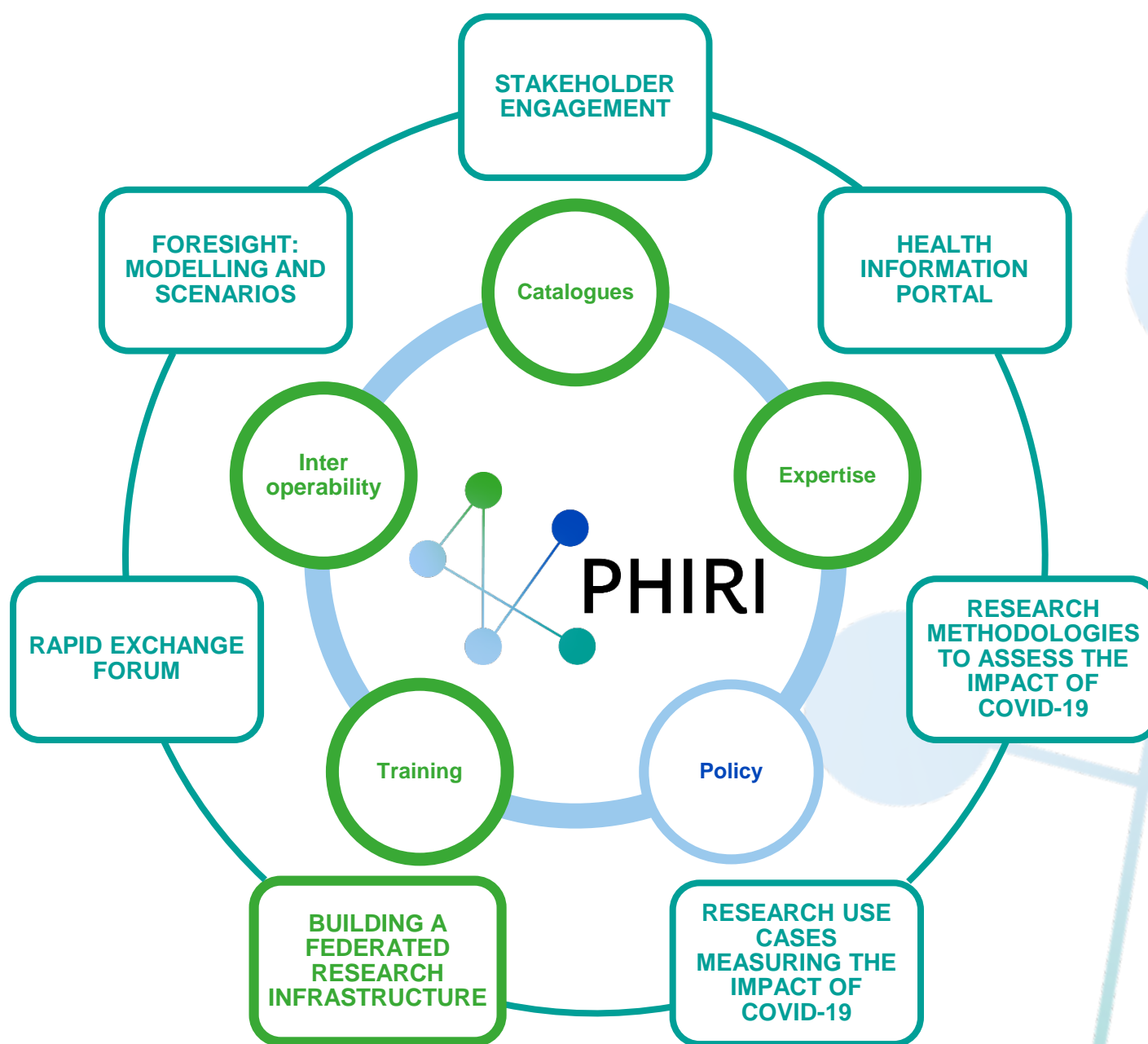




# Four use cases

The use cases will demonstrate how a broad variety of secondary data (e.g. administrative and survey data) can be pooled and/or reused in a distributed way across Europe to produce actionable insights.

1. Direct and indirect determinants of COVID-19 infection and outcomes in vulnerable population groups with reference to inequalities
2. COVID-19 related delayed care in breast cancer patients
3. the impact of COVID-19 on perinatal health and perinatal health inequalities
4. COVID-19 related changes in population mental health

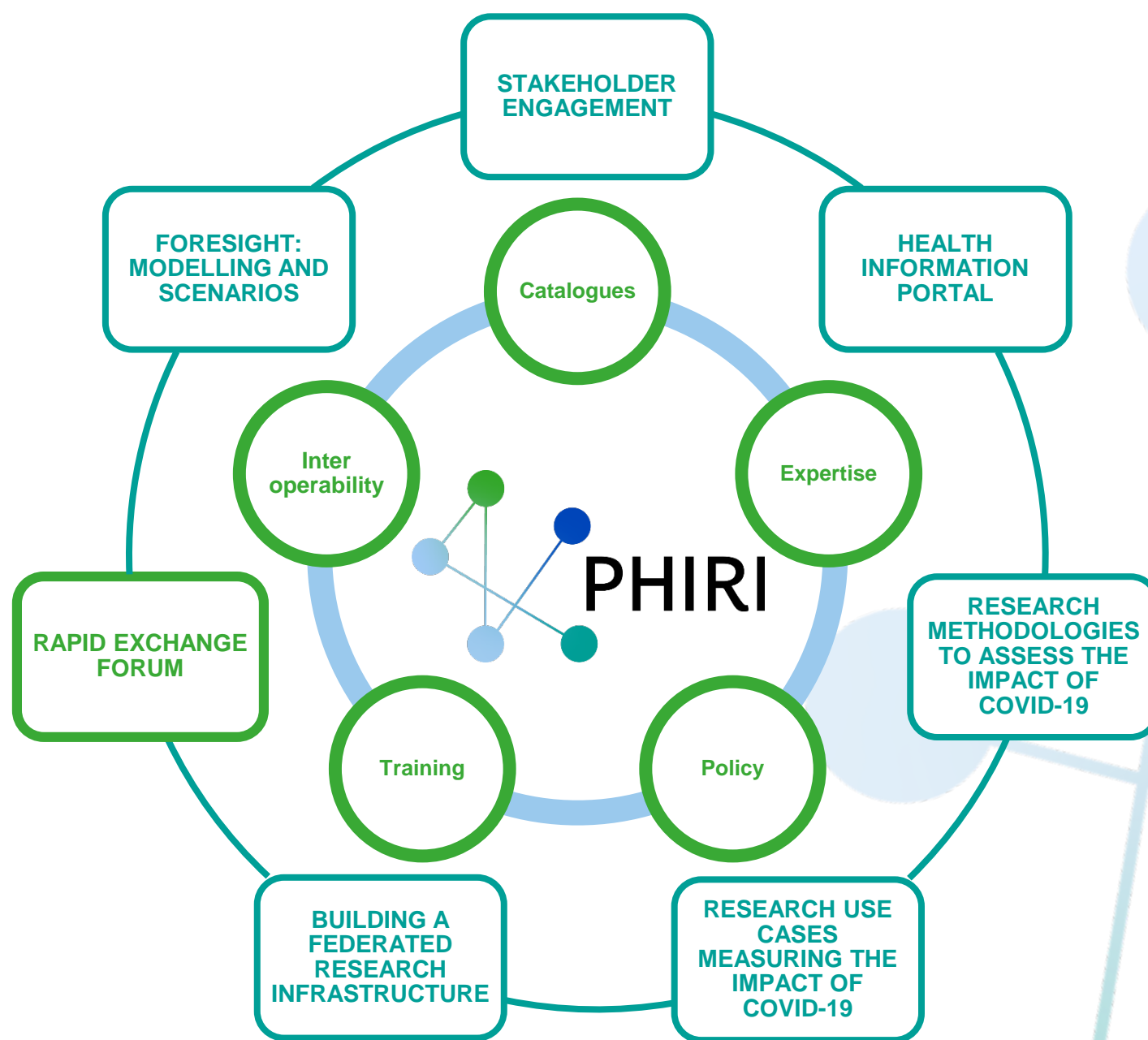


# Federated research infrastructure

Showing the potential of the infrastructure for a rapid cycle analysis using a demonstration pilot case

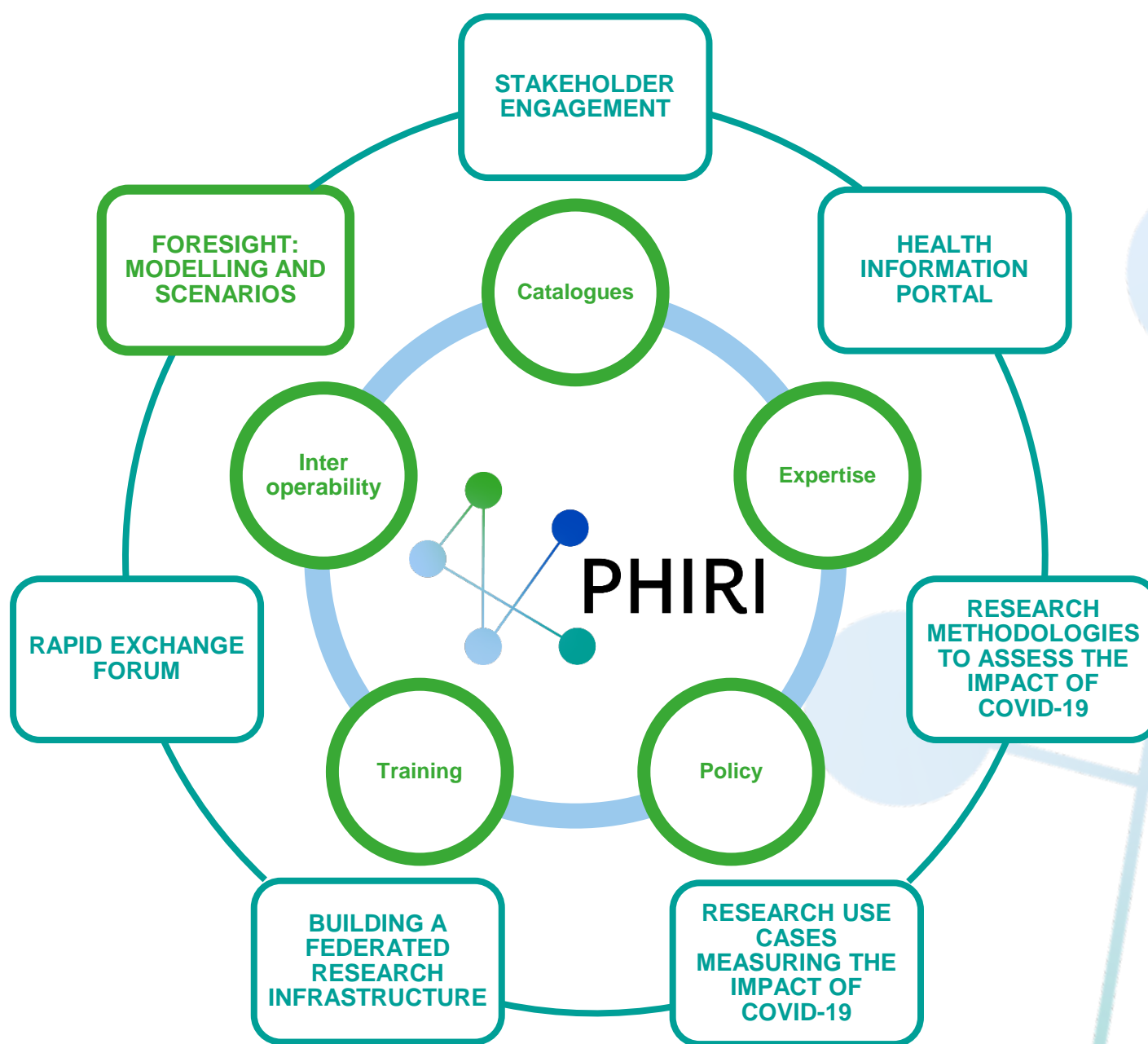
Pilot, developing an advanced version of the federated research infrastructure, including:

- a) The development of a common data model for a COVID-19 rapid response
- b) The design and deployment of the required data extraction, transformation and loading (ETL) processes and
- c) The implementation of the distributed analytical solutions, in particular the FAIR implementation of intermediate processes and final research outputs. This advanced version will mainly build on WP6 use cases



# Rapid exchange forum

1. To provide rapid response to research and policy questions that are raised in countries
2. To promptly disseminate internationally agreed guidelines, standards, reports and initiatives
3. To exchange (best) practices among countries regarding COVID-19
4. To provide a link with policy: the shifting landscape of evidence for policy



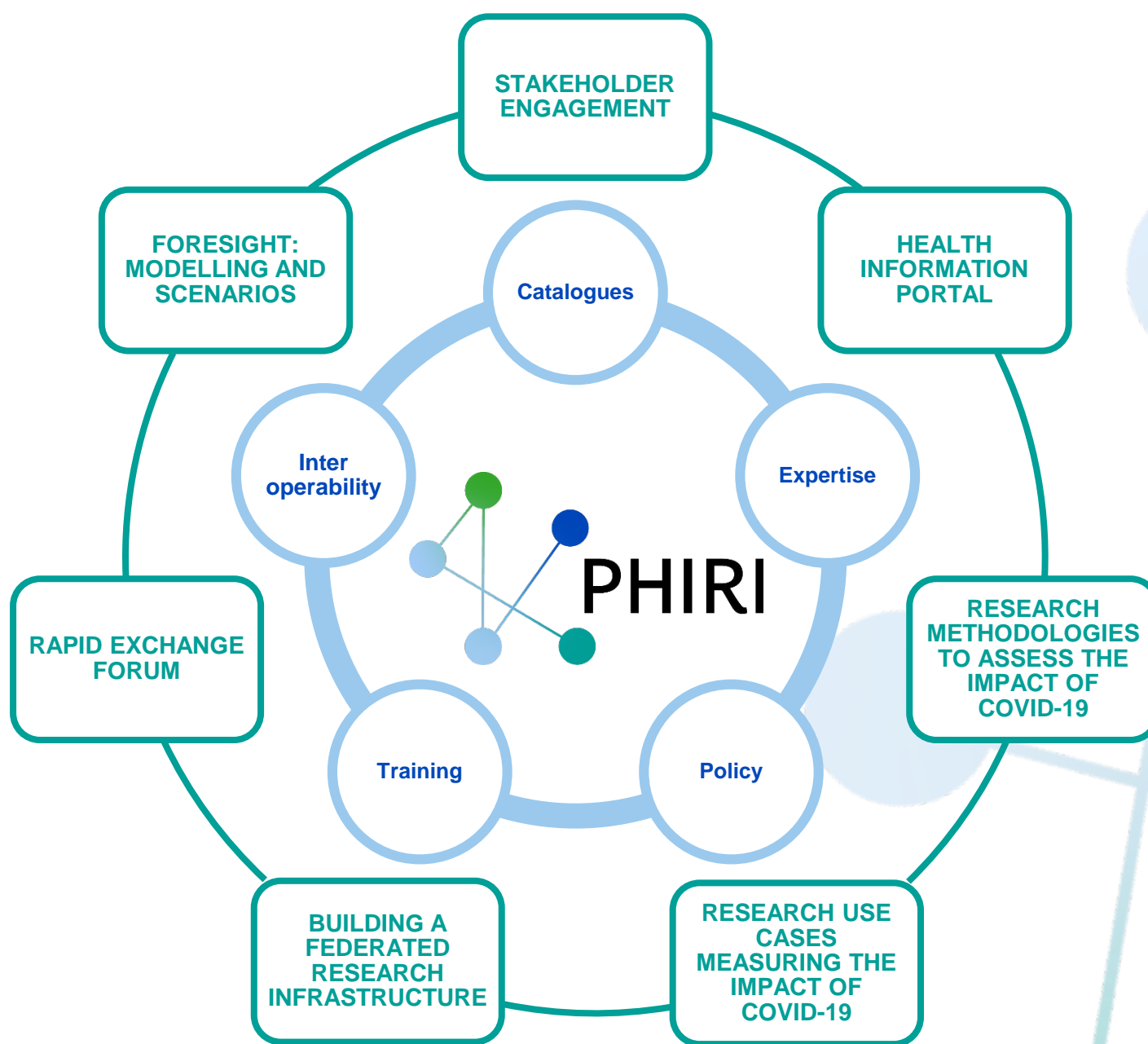
# Foresight: Modelling and Scenario

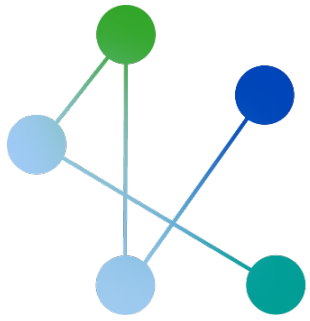
The overall aim of this work package is to gain insights in possible future health impacts of the coronavirus outbreak, by developing scenarios for MS and associated countries' national situation and draw lessons for the EU.

The objectives are:

1. To get an overview of how European countries have been using foresight, modelling and preparedness regarding COVID-19 (mainly indirect effects)
2. To develop and provide foresight capacity (levelling the knowledge needed for performing foresight, reducing information inequalities, strengthening European data uniformity)
3. To support evidence-informed policy decisions, by exploring direct and indirect effects of COVID-19 on population health, on short and long-term, using scenarios and a broad conceptual model of health and care








# PHIRI

Population Health Information  
Research Infrastructure

## Thank you!

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