



# PHIRI

Population Health Information  
Research Infrastructure

## Research methodologies to assess the impact of COVID-19

M. João Forjaz



[www.phiri.eu](http://www.phiri.eu)



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101018317

# Objective 1

## AIM:

- Study the indicators and methodologies used to assess covid-19 impact
- To describe a roadmap on indicators, methodologies and data pathways used to assess the impact of Covid-19 across Europe.

## METHODS:

### Literature review on main:

- Methodologies pathways
- Data pathways
- Indicators

# Objective 2

AIM: To explore the determinants of the severity AND long-term health outcomes of SARS-COV2 infection

- **Main goal:** To assess the impact of morbidities and frailty as well as the role of socio-economical determinants on the severity and long-term health outcomes of SARS-COV2 infection

METHODS: to rely on systematic literature reviews and meta-analyses when possible

- **Part I: Biomedical determinants (morbidities and frailty)**
- **Part II: Socio-economical determinants**
  - of short term severity (Mortality/Hospitalization/ Intensive care)
  - and long-term health outcomes of SARS-COV2: Survival / Functioning (social, physical, psycho)/ Perceived health-Quality of life
- **Studies and sources:**
  - *RCT*
  - *Prospective cohort studies*
  - *Retrospective cohort studies*
  - *Case-control studies*
  - *Cross-sectional studies*

## Objetivo 3

- **AIM:** to identify digital tools for contact tracing of COVID-19 patients and summarizing the available evidence regarding the effectiveness and impact of these tools in the European context
- **METHODS:**
  - a) A survey to collect information on innovative methods, state-of-the-art algorithms and contact tracing tools used to monitor health issues related to COVID-19 in Europe, as well as who is using them.
  - b) Literature review to summarized the effectiveness and impact of tracking COVID-19 patients and its pros and cons.

# Objective 4

- Capacity building exercise on covid-19 impact assessment
- Workshop on disease burden

# Questions for stakeholders

- In your opinion, what are the most important research methods to measure the impact of COVID-19?
- Who are the main stakeholders interested in your data, who would you like to reach?
- Priorities: analyses to be done, methods to be used with your data?
- Main barriers/challenges for the use of your data?
- What are the unmet needs in terms of data dissemination or data analysis?
- What are the main recommendations in terms of research methods for COVID-19?