



**Overview of the project Metadata for data discoverability and study replicability in observational studies (MINERVA) (EMA/2017/09/PE/16)**



Technical workshop on real-world metadata for regulatory purposes  
Virtual meeting, April 12, 2021

**Presented by Dr. Susana Perez-Gutthann**  
RTI Health Solutions



# Agenda

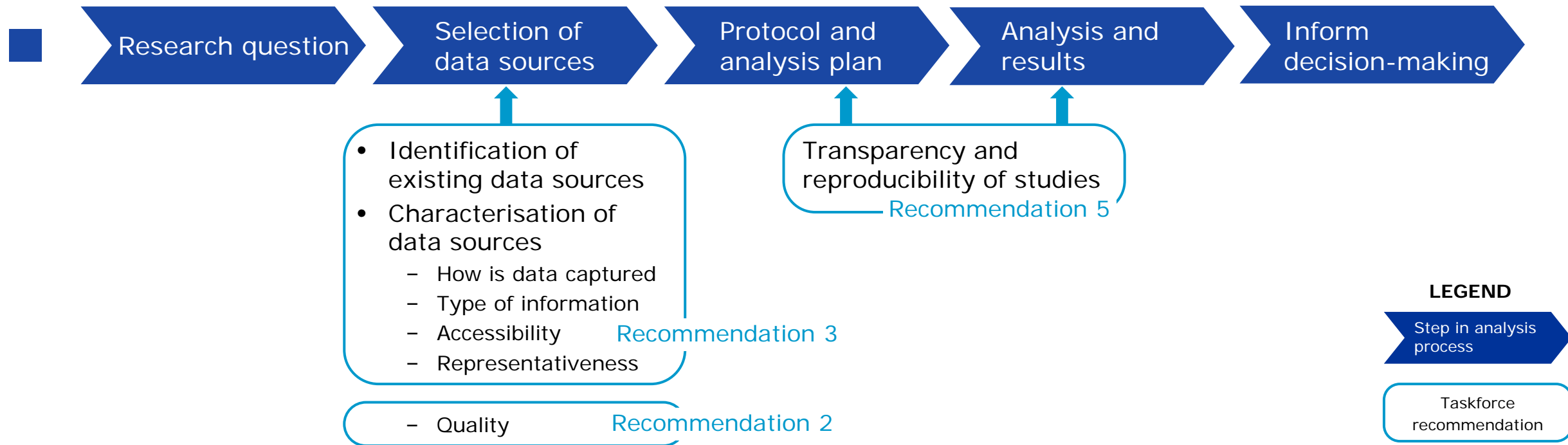
**1** Background: EMA call and project objectives

**2** Consortium, data sources, and countries

**3** Tasks and timelines

**4** Workshop focus

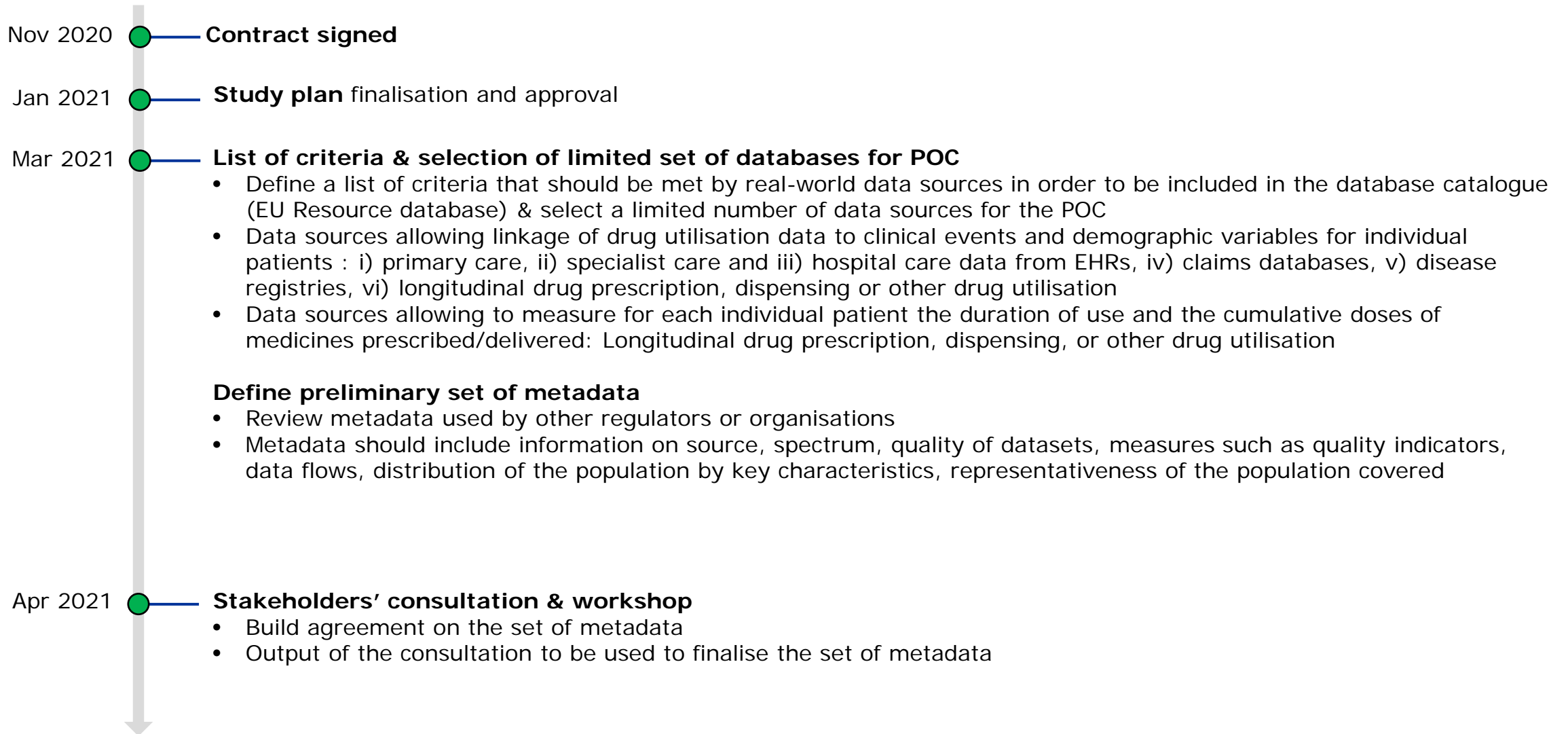
# Generating and assessing Real World Evidence to inform regulatory decision-making



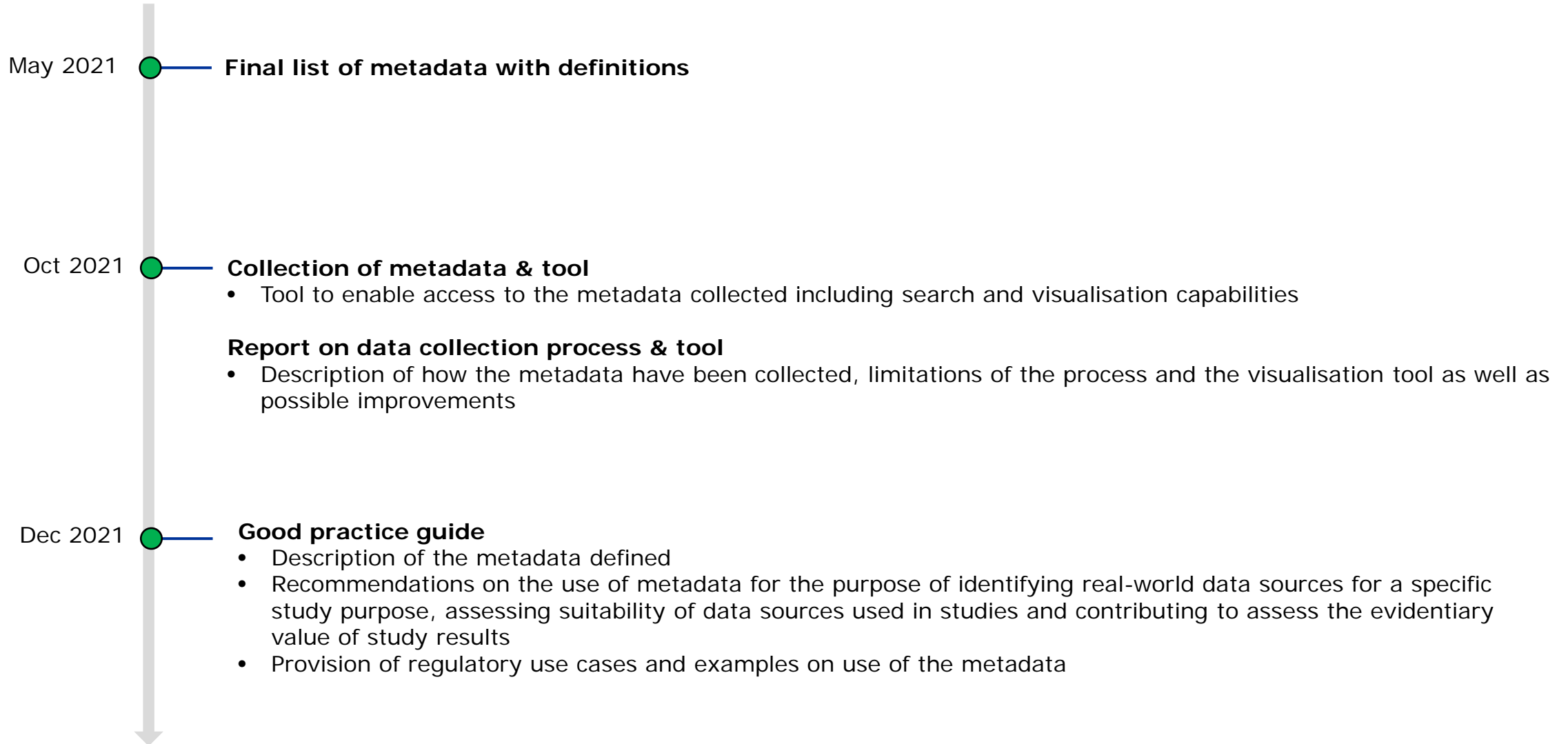
# EMA call project objectives

1. To define a list of criteria to identify relevant real-world data sources from which the data sources to be included in this study will be selected
2. To identify a list of minimum 10 data sources to use in the study
3. To **define a set of metadata** that should be collected from real-world data sources
4. To conduct an **in-depth stakeholders' consultation** on the metadata identified
5. To **define a process** to collect the set of metadata for the data sources included in the study
6. To collect the defined set of metadata for data sources included in the study
7. To develop or **provide a tool** enabling access to the metadata collected (e.g., through a dynamic dashboard)
8. To draft a **good practice guide** with the description of the metadata defined and recommendations on the use of metadata for the purpose of identifying real-world data sources for a specific study purpose

# 1-year metadata study timeline



# 1-year metadata study timeline



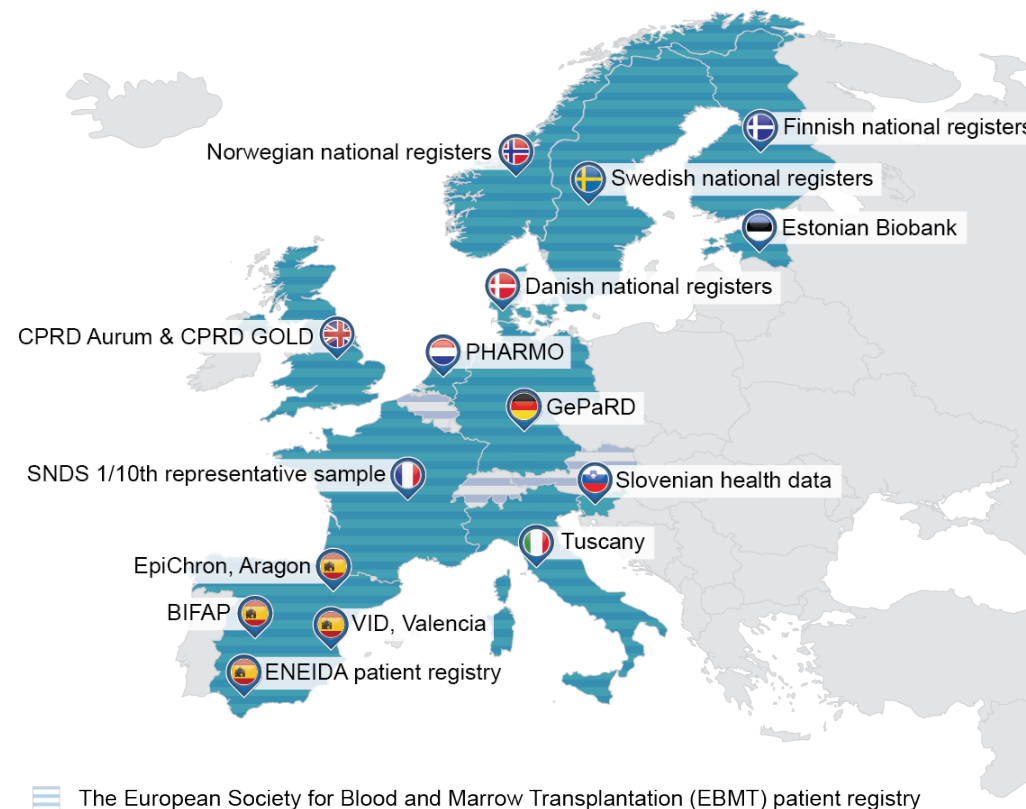
## Focus of the project

- Definition of the set of metadata and engagement with stakeholders to reach broad agreement
- Good practice guide (description of the metadata defined and recommendations on the use of metadata)
- The visualisation tool will act more as a proof of concept on how the data can be used and visualised

# MINERVA consortium, data sources, and countries



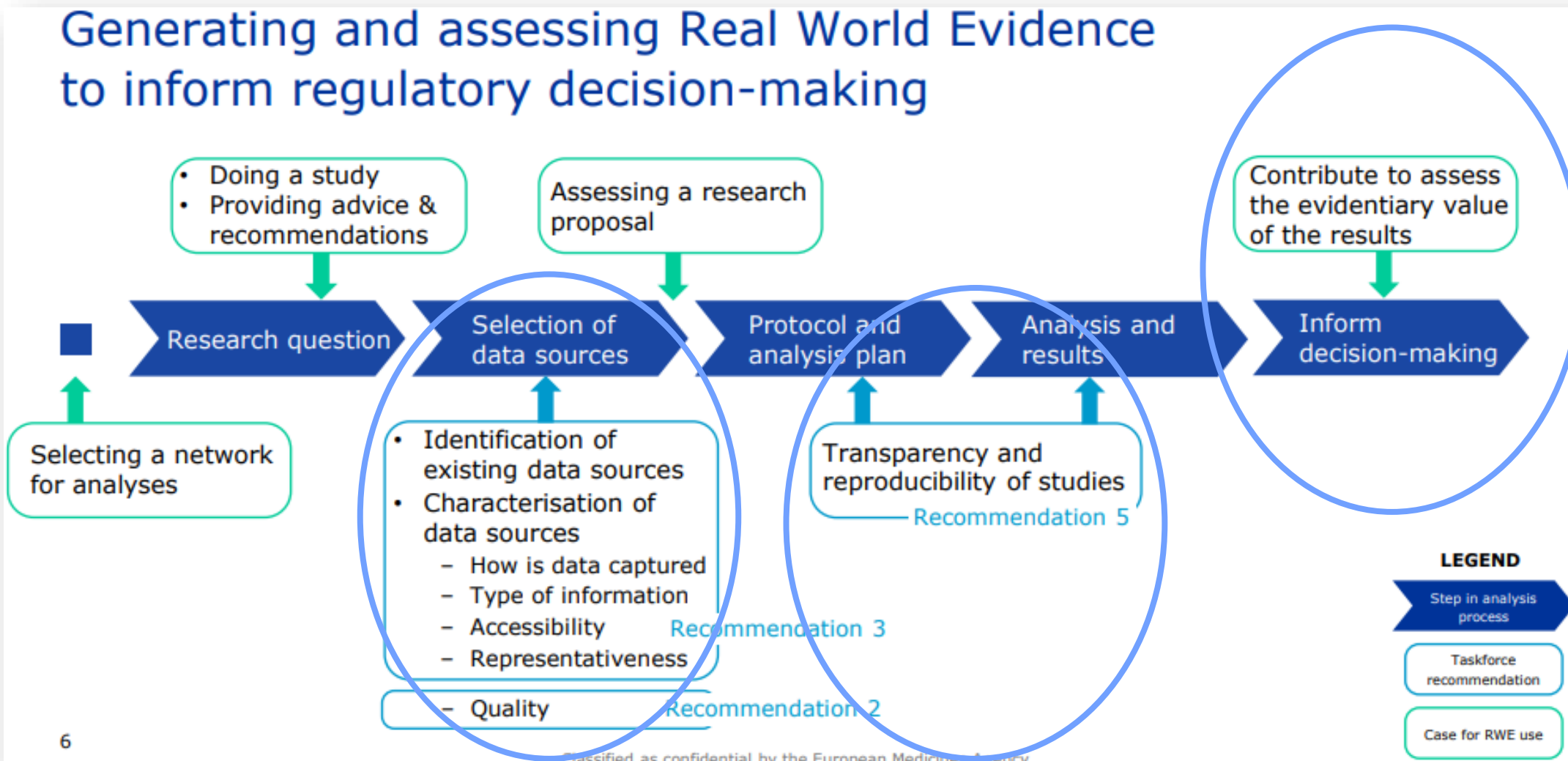
- 15 population databases and patient registries in 12 countries
- 18 research centers in 12 countries





# Regulatory use cases

## Generating and assessing Real World Evidence to inform regulatory decision-making



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Classified as confidential by the European Medicines Agency

# Data sources selection criteria

1. Data sources collecting health data routinely
  - Electronic healthcare databases, claims databases, disease registries, or genomics data sets covering defined populations at a local or national level in countries in Europe. Other types of data sources will not be excluded.
2. Data sources collecting patient-level data collected in a data source through a single data bank or through linkages of multiple data banks, specifically data on medicinal products utilisation and demographic variables including at least one of the following settings:
  - Primary care: data from primary care/general practice
  - Specialist care: data from outpatient hospital clinics or specialised outpatient centres
  - Hospital care: data from inpatient hospital settings, which may or may not include emergency care data
3. Data sources collecting detailed patient-level measures of medicinal product use.
  - Timing of prescription/dispensing/administration/delivery of medicinal drugs are the critical elements
  - Allow estimation of duration of use and the cumulative doses. Capture of use of biologics, medical devices and other medical products is of value

## Data sources selection criteria (cont.)

4. Data sources with continuous and consistent data capture
  - Absence of systematic or prolonged temporal gaps in data collection
5. Data sources where structured data is collected
  - Data sources that have not converted to an existing CDM will be eligible for inclusion in the proof-of-concept catalogue.
  - Data sources that have converted to an existing CDM will be described to facilitate inclusion in the proof-of-concept catalogue
6. Data sources with procedures in place to comply with applicable patient data privacy and confidentiality rules, allowing use of data for public health research

# Workshop focus: preliminary metadata definition, collection process, and proof of concept tool

Report shared with participating organizations

- Description and definition of preliminary list of metadata that should be collected from real-world data sources
  - Publicly available information
  - Structured interviews with organisations
- Proposed options for the **process** to collect the metadata and to update them
- Proposed **catalogue proof of concept tool** to use for accessing, searching, and visualising the metadata collected

# Thank you!

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**For any questions on this presentation, please contact:** [Malgorzata.Durka-Grabowska@ema.europa.eu](mailto:Malgorzata.Durka-Grabowska@ema.europa.eu)

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