

5.3 DARWIN EU®

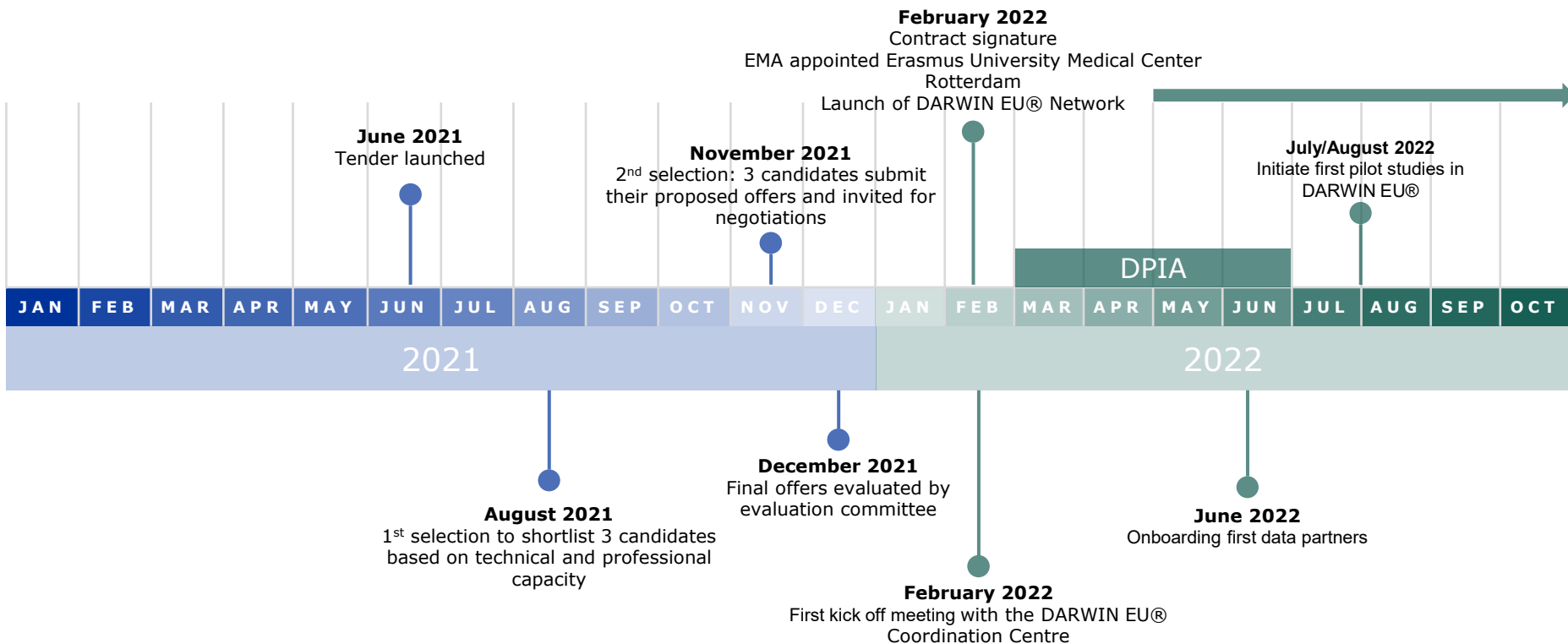
PCWP/HCPWP joint meeting

Presented by Andrej Segec, Aldo Maggioni, and Elizabeth Vroom on 2 June 2022
European Medicines Agency

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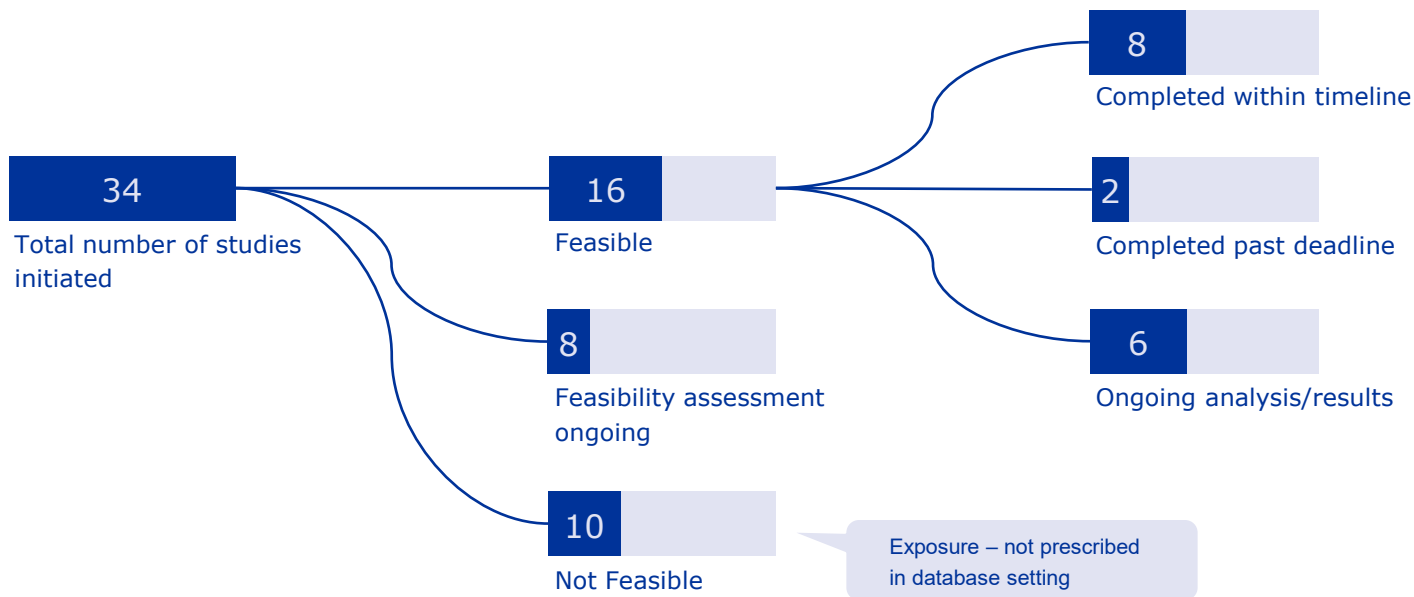
DARWIN EU® timeline



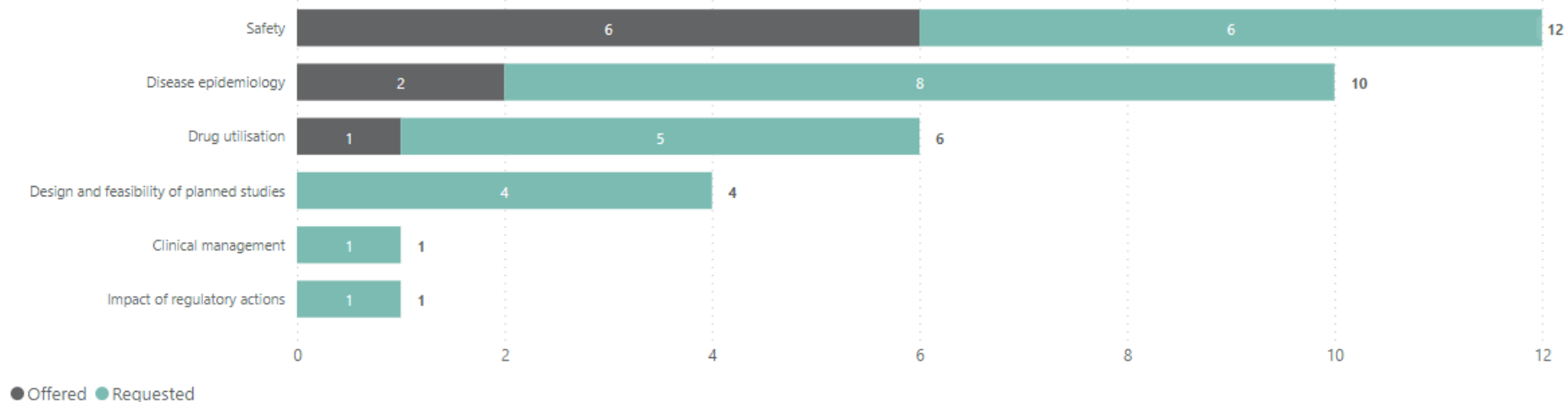
Looking at 2022 | Integration of RWE



Ongoing and finalised studies | October '21 – May '22



Ongoing and finalised studies | October '21 – May '22



CHMP Pilot

Objectives

- Inform of the RWE initiatives at EMA
- Practical aspects of the RWE pilots with CHMP

Timeline

- CHMP pilot outline to be circulated by EMA for comments (2 week consultation)
- Pilot to be initiated in June/July 2022 and to run for 12-18 months with a mid-pilot evaluation report

Possible use cases

- Supporting the planning and validity of applicant studies
- Understanding clinical context
- Investigating associations and impact

Criteria for prioritisation

At least 10 new data partners per year from Year 1 to Year 4

Continuous data collection with at least yearly update and ideal lag time between data capture and data availability of 6 months or less

Health outcomes and medicines prescribed identifiable and linked to individual patients

Well-defined underlying population with entry and exit dates; data sources in which patients can be registered with different identifiers to be clearly identified

Care setting appropriate for research questions and not adequately represented by other databases (e.g. primary and specialist care, inpatient hospital care, data source measuring indication, dose and duration)

Geographical spread: covers EU country not adequately represented by other data sources

Proven track record for collaborative studies

Conversion into common data model with appropriate validation/testing

Adequate and transparent governance allowing peer-review of quality management processes

Adequate infrastructure allowing secure transfer of results.

Primary Criteria

Supported by DARWIN EU
Advisory Board

Criteria for prioritisation

At least 10 new data partners per year from Year 1 to Year 4

Non-EU data source, if it may significantly contribute to research questions raised by EMA Committees

Database which provides linkage and continuous follow up between primary and secondary care

Database with mother/child linkage

Information on dispensed medicines

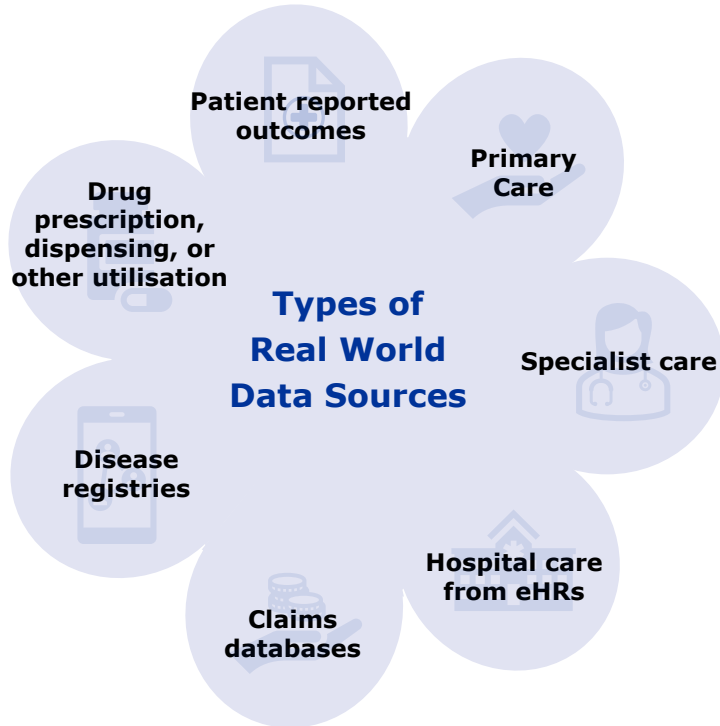
Large sample size (i.e. number of active patients)

Databases not converted or partially converted into OMOP data model with potential for significant contribution to research questions raised by EMA Committees

Secondary Criteria

*Supported by DARWIN EU
Advisory Board*

Onboarding of data partners and first studies



- Initially 10 partners to be onboarded
- First pilot studies in 2022 for a number of use cases across the medicinal product lifecycle
- By 2025, > 100 studies per year will be conducted

Data Protection Impact Assessment & Data Use Agreement

DP by design

Federated model:
data stays local

Robust DP safeguards

In accordance with Article 39 of Regulation (EU) 2018/1725, EMA is performing a Data Protection Impact Assessment (DPIA) prior to the initiation of the processing activities → expected for June 2022

- A **preliminary DPIA** was conducted in 2021 in preparation of the procurement of the DARWIN EU® Coordination Center (CC) services

Aim is to assess all personal data processing activities to be performed by CC to

- Describe the nature, scope, context and purposes of the personal data processing;
- Assess the necessity and proportionality of the personal data processing;
- Identify and assess risks to individuals & any additional measures to mitigate those risks.

Review data use agreement (DUA) template with data partners which will set out data protection roles and responsibilities

Next steps for DARWIN EU®

- ▶ Finalising DPIA (June 2022)
- ▶ Completing Milestone 1 (T0+3M) – reviewing and accepting deliverables
- ▶ Agreement on data use agreement template, study templates
- ▶ Selection of Y1 data partners and onboarding
- ▶ Start of first pilot studies, realising first benefits for the network and stakeholders
- ▶ Future data partner calls anticipated

More Information

[Data Analysis and Real World Interrogation Network \(DARWIN EU\) | European Medicines Agency \(europa.eu\)](#)



DARWIN EU® webinar [recording](#)



Coordination Centre website – coming soon in 2022!



For regular updates on DARWIN EU® Subscribe to the [Big Data Highlights](#) newsletter by sending an email to: bigdata@ema.europa.eu



Any questions?

Further information

[Data Analysis and Real World Interrogation Network \(DARWIN EU\) | European Medicines Agency \(europa.eu\)](#)

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