

Real-World-Evidence for Regulatory Decision-making DARWIN EU®

Promises, Limitations and Challenges

European Regulatory perspectives ISPOR 2024





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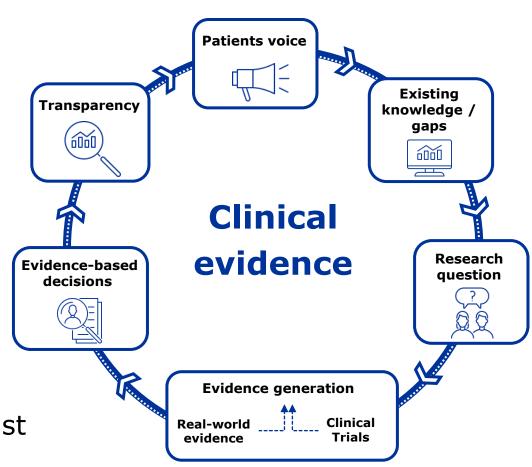
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EU Regulatory Perspective on "Clinical Evidence"

- Patient voice guides every step of the way
- Evidence generation is planned and guided by purpose, data, knowledge and expertise
- Research question drives evidence choice and embraces spectrum of data and methods
- Clinical trials remain core but are smarter, better and faster
- Real world evidence is enabled, and its value is established
- High transparency level underpins societal trust





3 main pathways to use RWD for generating RWE @EMA



EMA studies using in-house databases

 Primary and secondary care health records from France, Germany and UK



Studies procured through EMA FWCs

- Framework contract (FWC) since September 2021: services of 8 research organisations and academic institutions
- Access to wide network of data sources: 59 data sources from 21 EU countries
- Ability to leverage external scientific expertise



DARWIN EU®

- Coordination Centre launched February 2022
- Onboarded 20 data partners during the first 2 years
- 20+ studies finalised
- Additional 10 data partners are foreseen to be added each year for 2024 and 2025



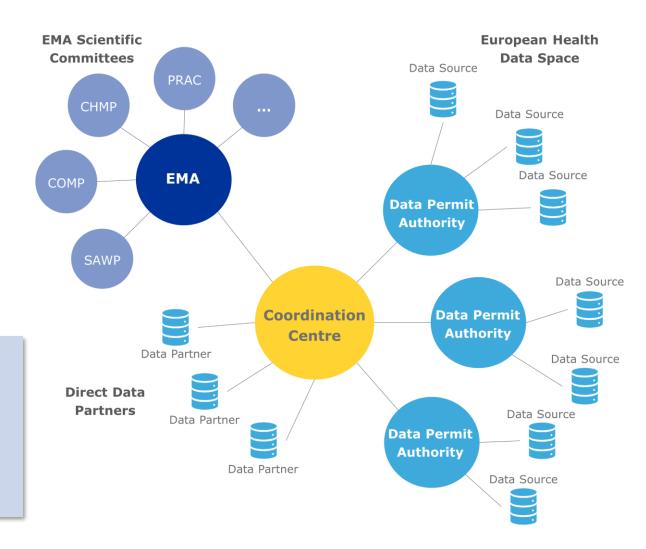
Data Analysis and Real-World Interrogation Network

DARWIN EU®

Federated network of data, expertise and services that supports better decision-making throughout the product lifecycle by generating valid and reliable evidence from real-world healthcare data

FEDERATED NETWORK PRINCIPLES

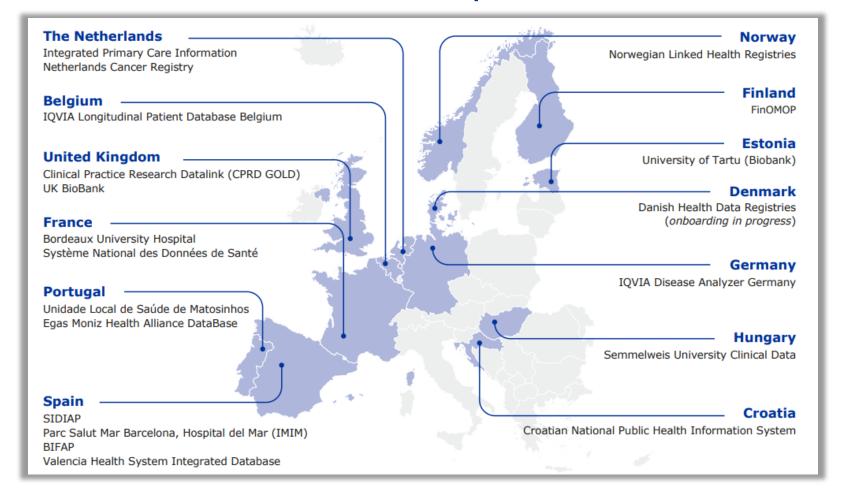
- Data stays local
- Use of Common Data Model (OMOP) to perform studies in a timely manner and increase consistency of results





Data Partners

Access to data from ~130 million patients in 2024





How RWE can support regulatory decision-making?

1

Understand the clinical context

Disease epidemiology

Clinical management

Drug utilisation

2

Support the planning and validity

Design and feasibility of studies

Representativeness and validity of completed studies

3

Investigate associations and impact

(Comparative)
Effectiveness and safety
studies

Impact of regulatory actions



Reports on RWE experience



Published in June 2023

Period covered:
Sep 2021 to Feb 2023



Published in July 2024

Period covered: Feb 2023 to Feb 2024



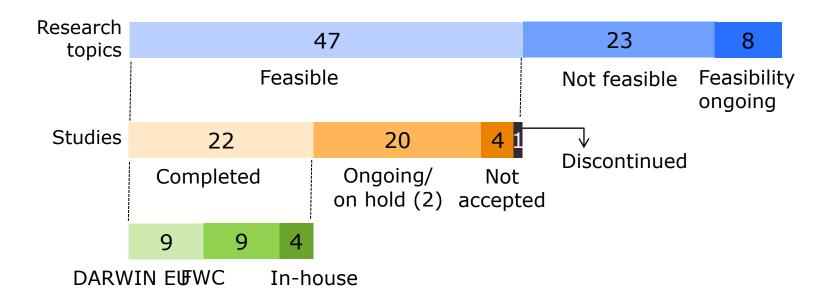
Focus on 2nd report



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DARWIN EU

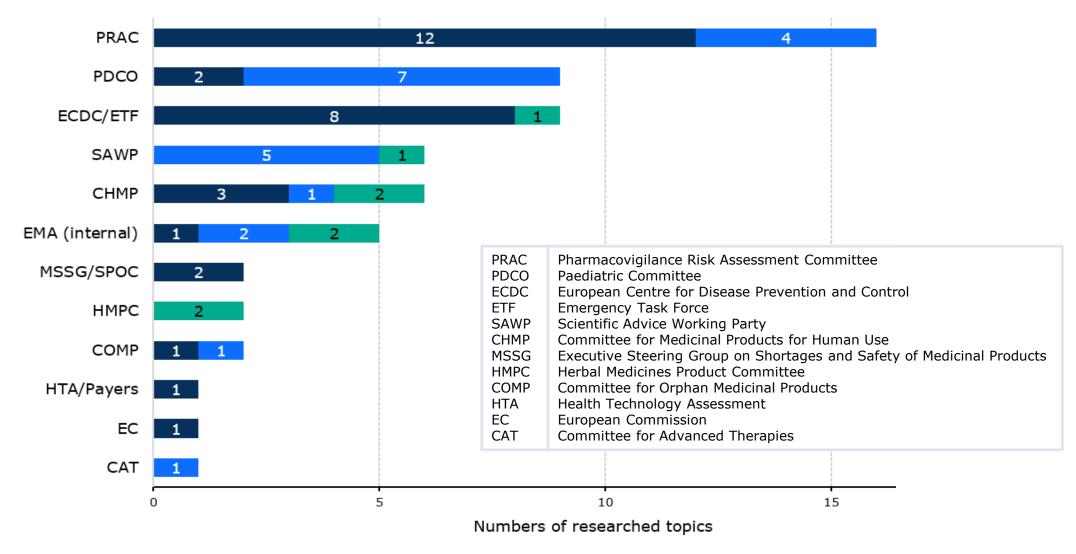
16
In-house

6 FWC +18
Prior research topics



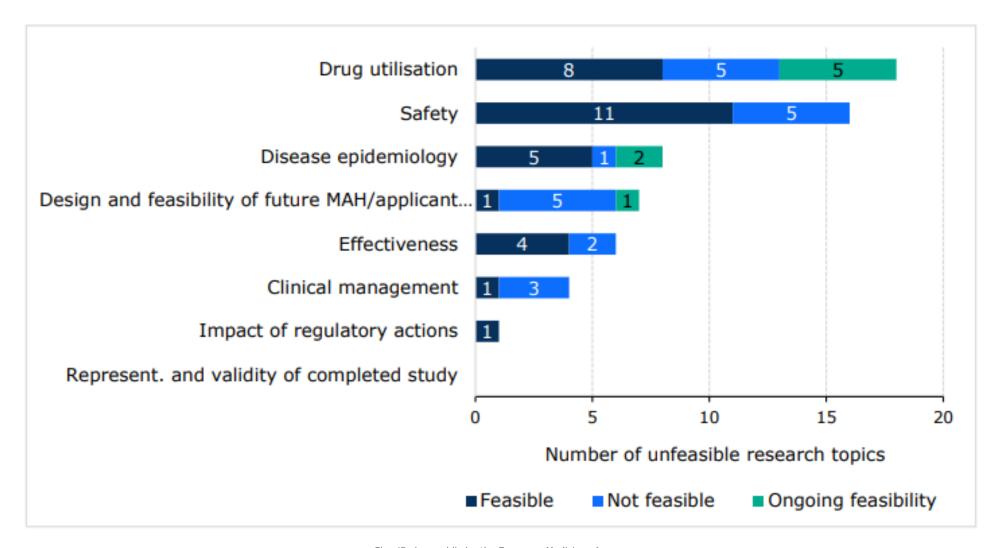


Study topics by 'requester' from Feb '23 to Feb '24



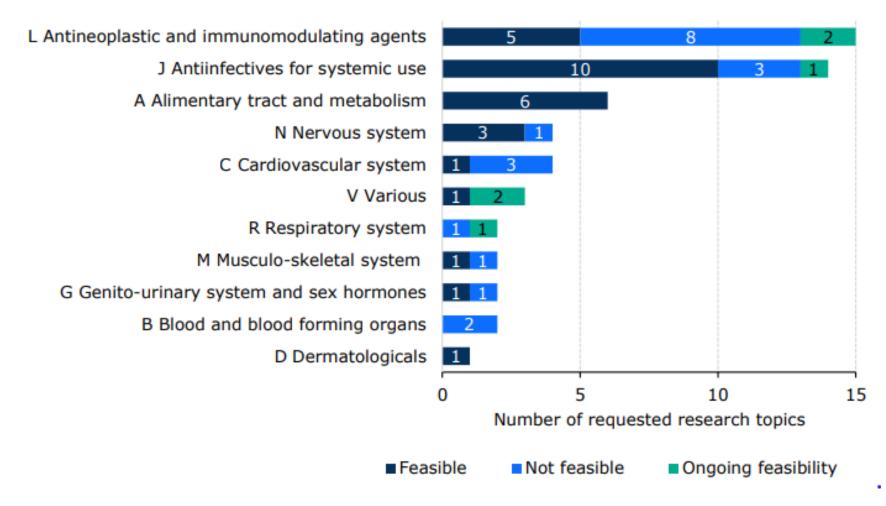


Type of research topic by use case and feasibility status





Research topics by Anatomical Therapeutic Chemical (ATC) classification





Recommendations for enabling the use of RWE



Access to data sources

Wider access to more diverse and complementary data sources.



Accelerate

Strategies to further accelerate RWE generation.



Collaboration

Close collaboration with decision-makers and other stakeholders.



Capacity and capability

Develop educational and knowledge management sharing tools.

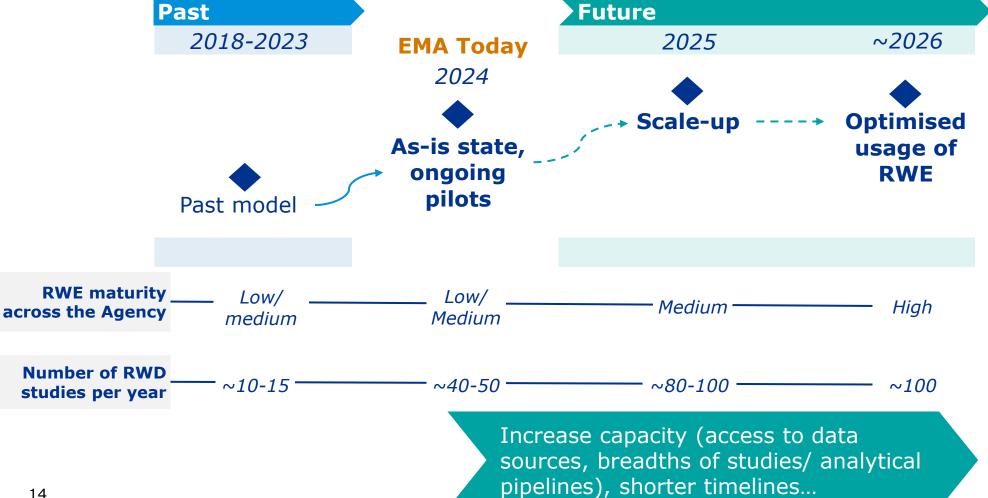


Regulatory context

Anticipate RWE needs of decision-makers by identifying research questions earlier.



In summary...



Our vision

By 2025 enable use & establish value of RWE





Thank you!

Further information

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