

HMA-EMA Big Data workplan and update on DARWIN EU

SESSION 2: Update on Big Data SG and ENCePP SG





Today's presentation

1. Big data Steering group workplan
2. Key achievements in 2021 and future highlights for 2022
3. Deep dive on 'RWE' priority recommendations
 - DARWIN EU
 - Complementary activities
4. Future collaborations

"By delivering the vision of a regulatory system able to integrate Big Data into its assessment and decision making, we can support the development of innovated medicines, deliver life-saving treatments to patients more quickly and optimise the safe and effective use of medicines through measurement of a products performance on the market."

Big Data Task Force final report December 2019

Big Data: from recommendations to implementation



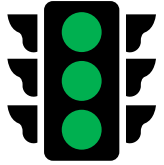
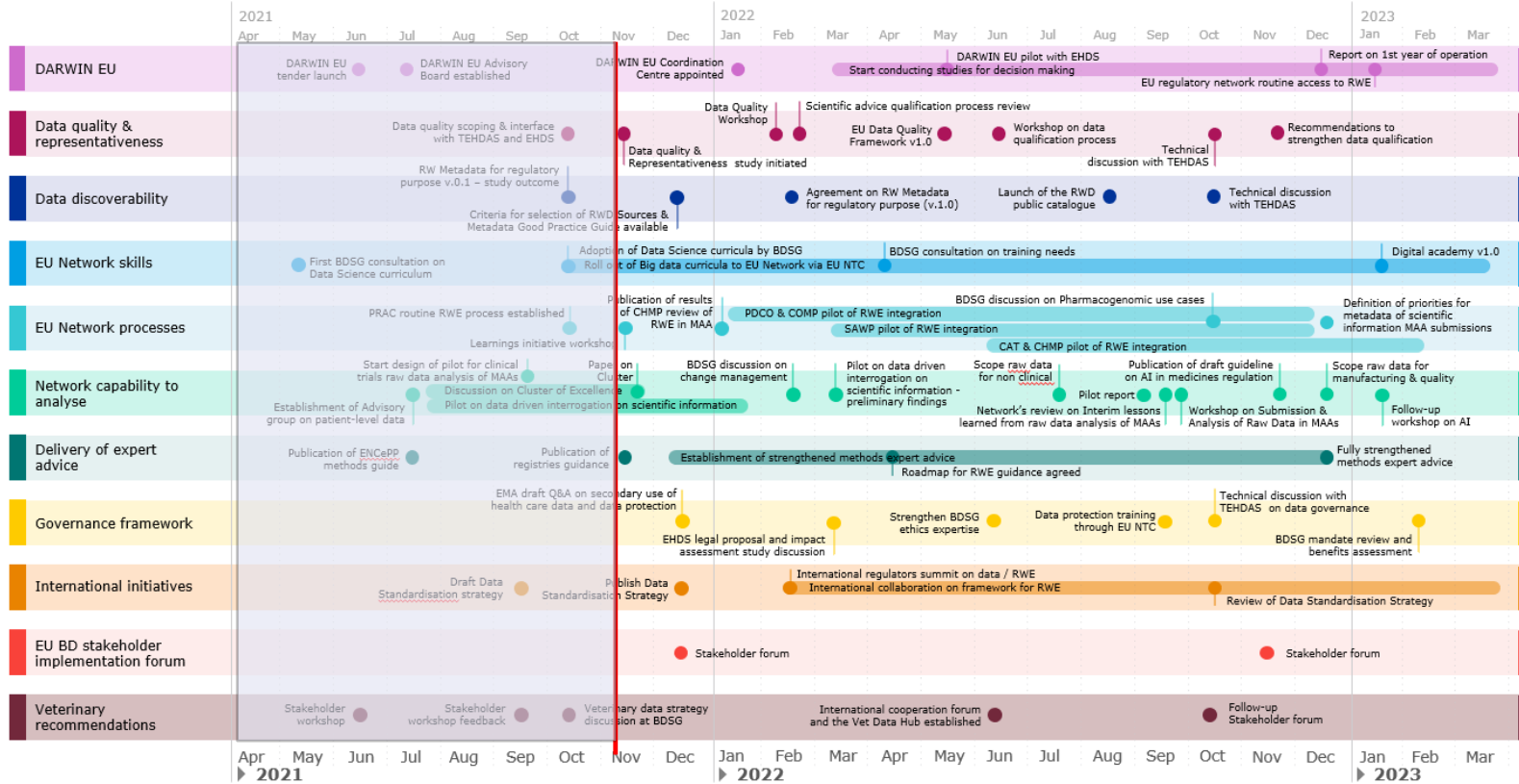
Big Data Steering Group: Recommendations



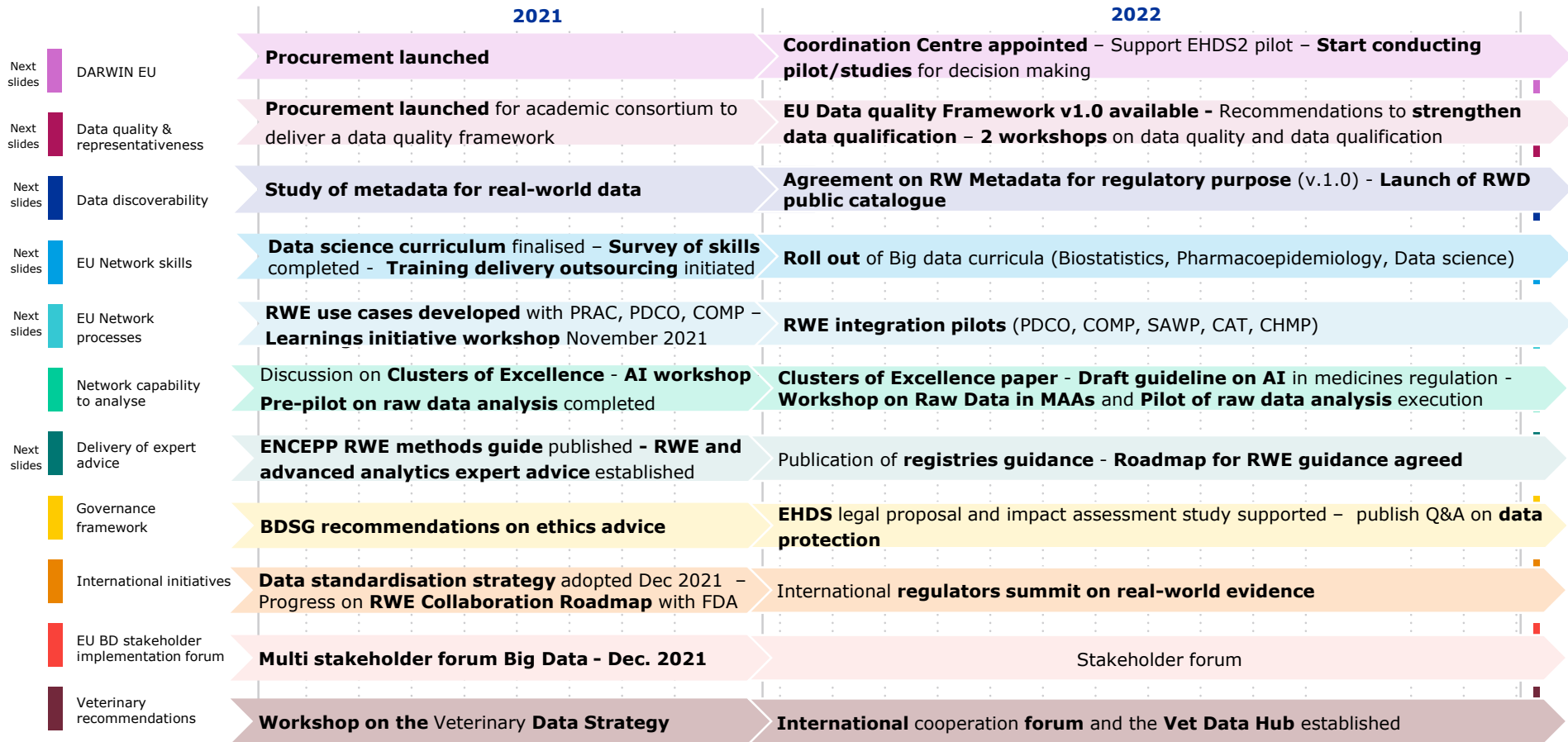
EUROPEAN MEDICINES AGENCY



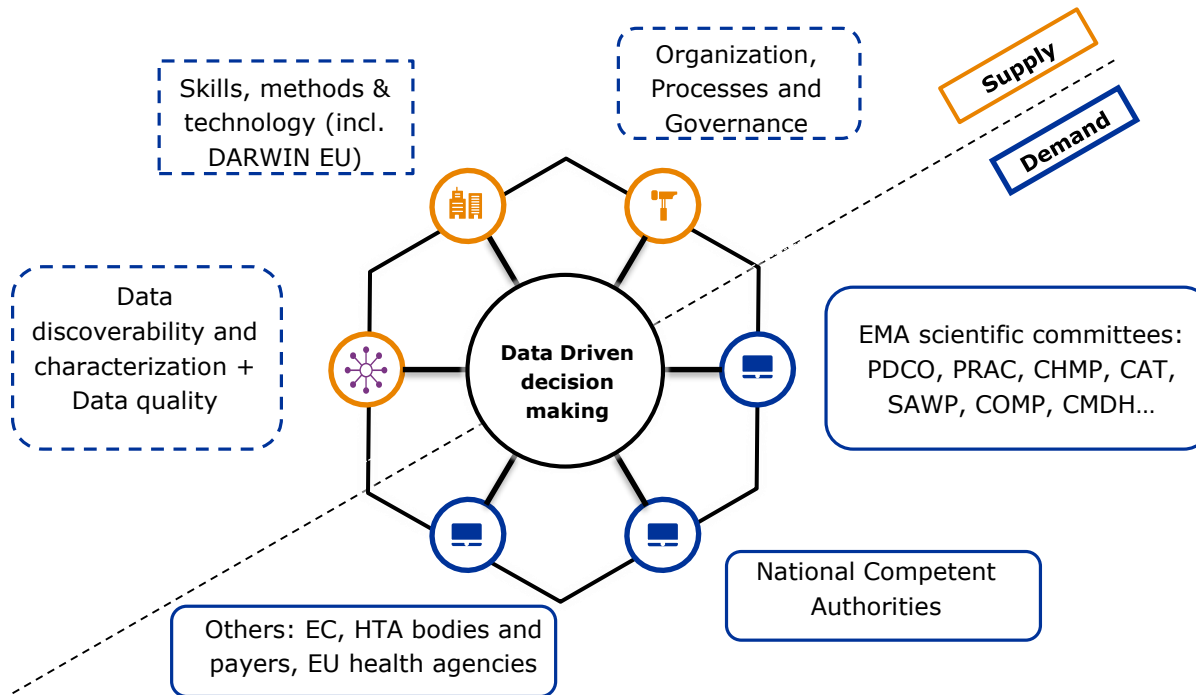
HMA-EMA Joint Big Data Steering Group work plan



On track



Deep dive on 'RWE' priority recommendations



Vision to enable the generation and use of RWE in decision-making

Coming in 2022: DARWIN EU®

DARWIN EU is a federated network of data, expertise and services

EU Medicines Regulatory Network

- **EMA** - provides leadership, setting standards, contracting studies, **overseeing**
- **European Medicines Regulatory Network** - including EMA scientific committees and working parties, national competent authorities (NCAs) and the European Commission: **request studies** via EMA

The Coordination Centre

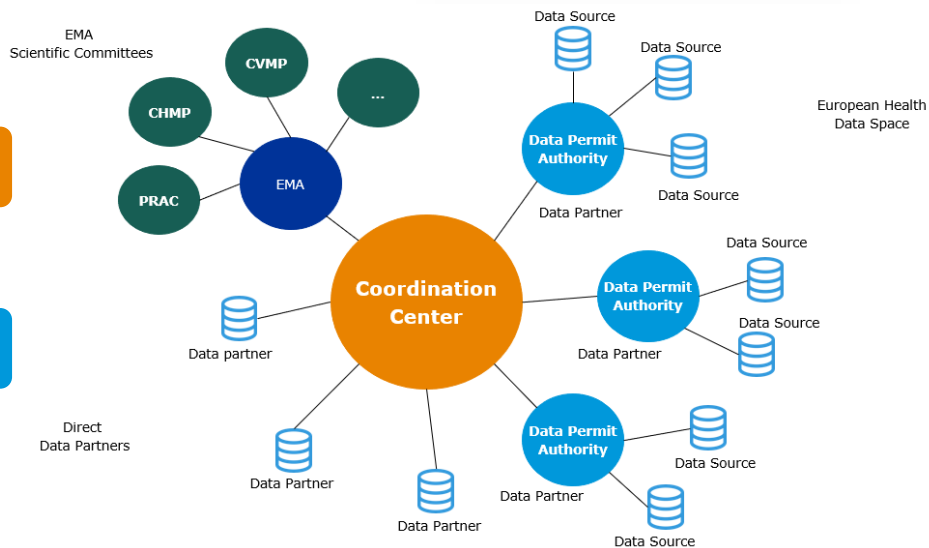
- **Establishes** and **maintains the network** (including onboard/maintain data sources), manage the **execution of scientific studies**

Data Partners, incl. Data Permit Authorities

- **Partners** who have access to data, or who may request analyses in a data source and provide results to the Coordination Centre
- This includes **Data Permit Authorities** (DPAs), already existing or to be created as part for the European Health Data Space (EHDS)

Status:

- Coordination centre appointment expected early 2022
- First pilot/studies from 2022





Complementary activities – Methodologies and capabilities

- **Refine methodologies** for the use of RWE:
 - Call published for the [Horizon Europe](#) Cluster 1 Health, submission from Oct. 21 to Apr 22 (HORIZON-HLTH-2022-TOOL-11-02: New methods for the effective use of real-world data and/or synthetic data in regulatory decision-making and/or in health technology assessment)
 - [Evaluation of the impact](#) of RWE in the decision-making process and to promote the provision of [recommendations for best practice](#)
- **Big Data learning initiative** workshop 30 November 2021:
 - track and learn from relevant Big Data applications through the product life-cycle and feed learnings to reflection papers and guidance.
- Developing [training](#) Data Science, Pharmacoepidemiology and Biostatistics
 - Curriculum agreed in 2021 and delivery and roll-out planned for 2022
- Creation of a [Methodology Working Party](#) with dedicated expertise in RWE



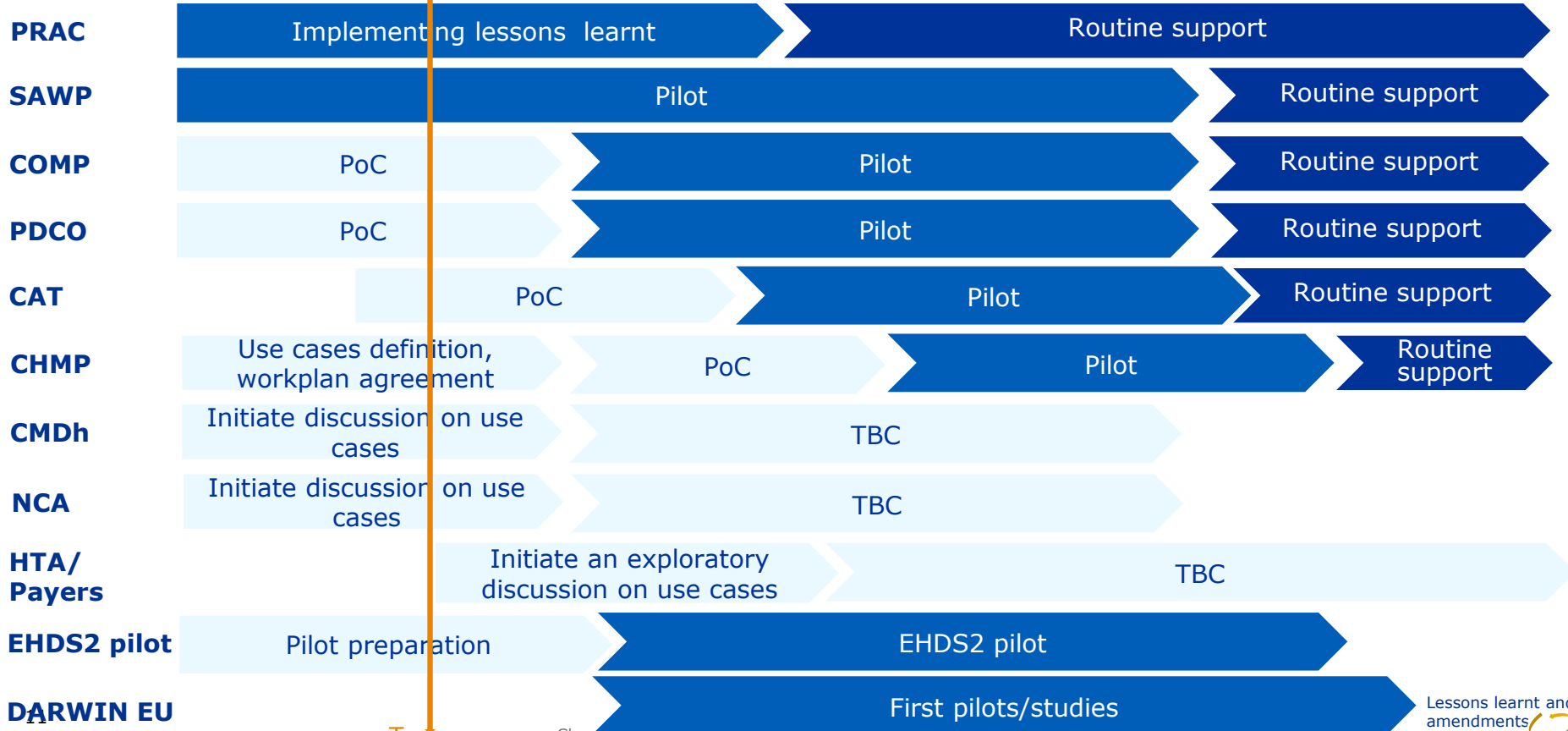
Complementary activities – Transparency, data quality and pilots

- Increase access to the adequate data sources and expertise
- Increase data quality
 - 1st version of EU Data Quality Framework for big data used in the regulatory decision-making process is expected in 2022.
- Refine use cases and create processes together with committees
 - Pilots with committees have progressed to prepare for the future operating model with DARWIN EU and generation of RWE: see next slide

Oct 2021 - Jan 2022

Feb - Dec 2022

From 2023



Today

Classified as public by the European Medicines Agency

Lessons learnt and amendments

DARWIN EU	ENCePP consulted on key aspects of data, methods and governance
Data quality & representativeness	ENCePP to be consulted on EU data quality framework (e.g. workshops participation, survey...)
Data discoverability	ENCePP to be consulted on metadata and catalogue of studies (e.g. workshops participation, survey...)
EU Network skills	possible outreach to ENCePP and academia on Big data curriculum
EU Network processes	ENCePP to be informed on RWE pilots/studies
Network capability to analyse	ENCePP to be informed pilot on raw data analysis
Delivery of expert advice	ENCePP to be informed/consulted on Registries guidance and Roadmap for RWE guidance
Governance framework	Q&A on data protection will be shared with ENCePP
International initiatives	ENCePP possible opportunities on roadmap on international collaboration on RWE
EU BD stakeholder implementation forum	ENCePP is invited to each Multi stakeholder forum Big Data
Veterinary recommendations	

Conclusion

- Progress on implementation of the Big Data recommendations continued in 2021 and plans for 2022 will enable to provide stakeholders with tangible deliverables.
- Implementation will require strong engagement and collaboration with stakeholders in 2022.

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Big Data Task Force final report December 2019

Thank you

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