



The EU Framework Programme for Research and Innovation

HORIZON 2020

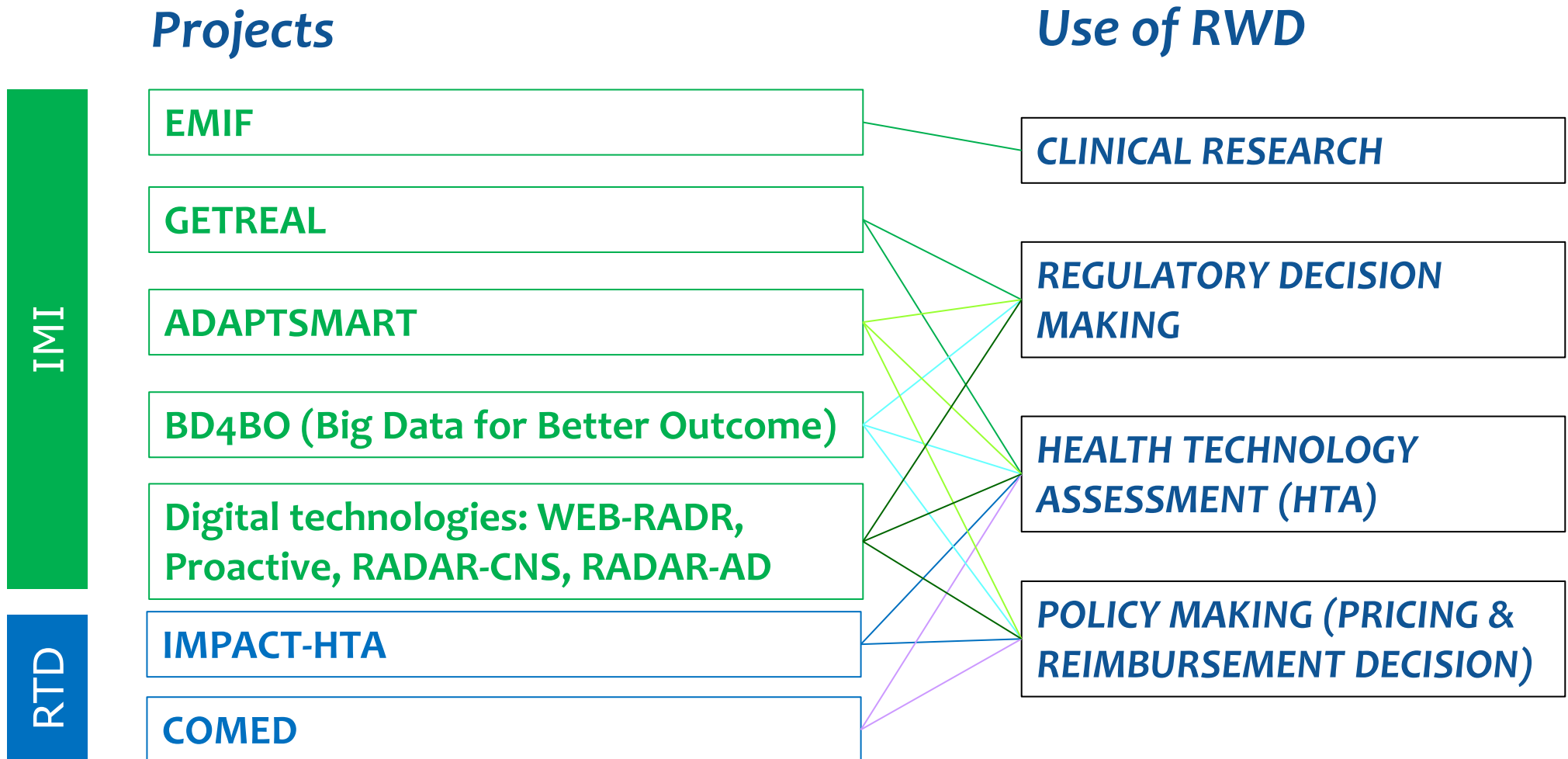
RTD – IMI projects



STAMP meeting
8 June 2018

*Research and
Innovation*

Overview of research projects: different use of RWD



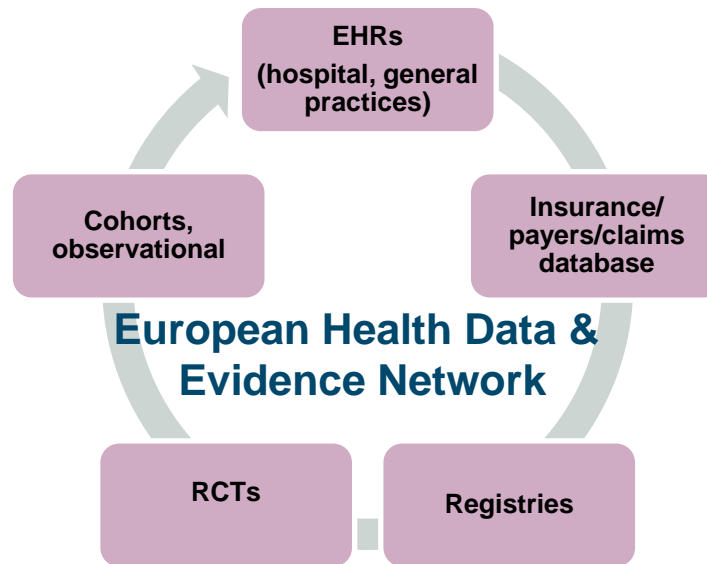
The Innovative Medicines Initiative Driving research in real-world data

Nathalie Seigneuret
STAMP meeting 08.06.2018

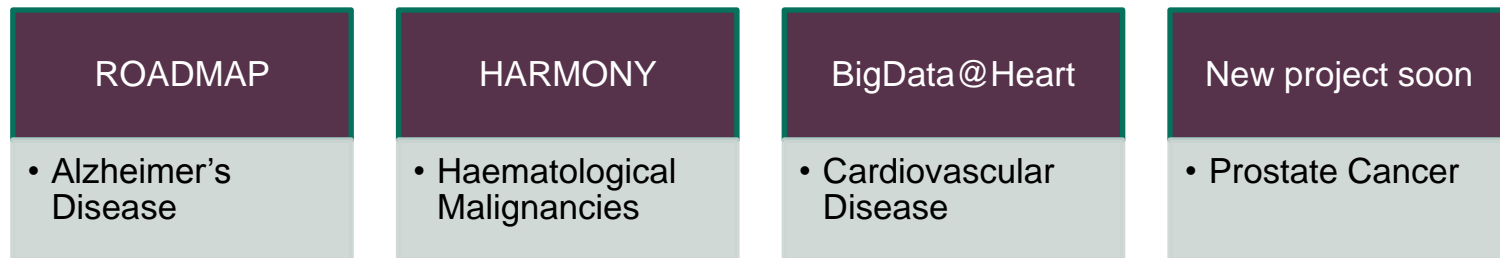
An integrated approach closer to real life practice: real world data / big data



Sustained through www.insiteplatform.com



Big Data for Better Outcomes



Facilitating Outcomes-focussed Healthcare Systems



EMIF - Key Achievements

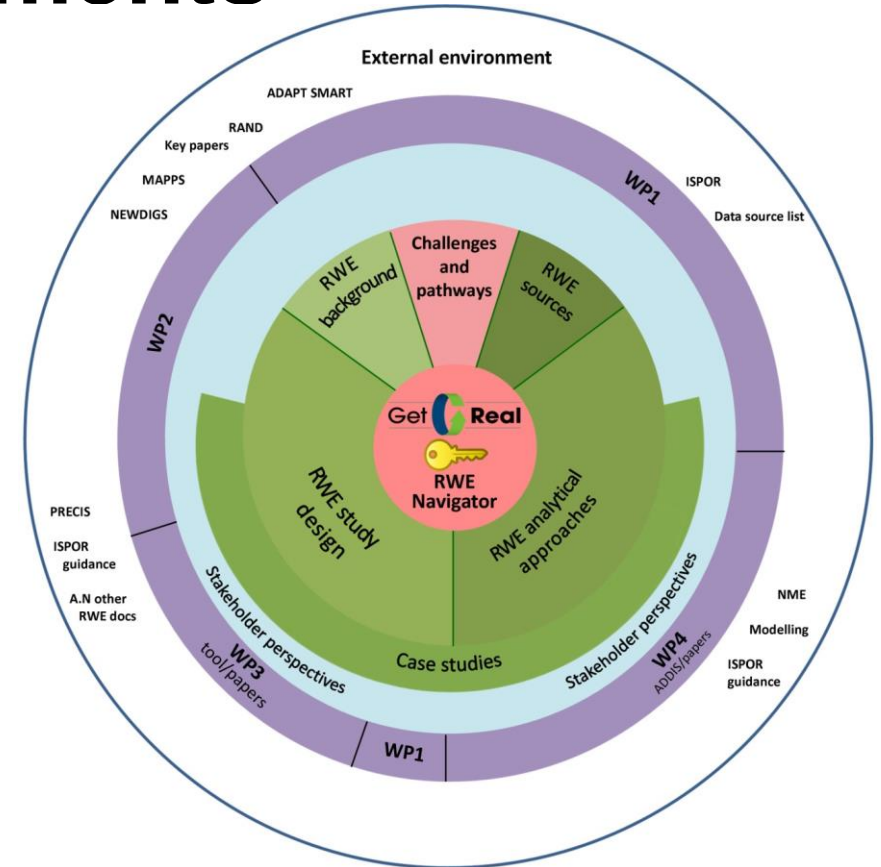
- 25 million patients harmonised to OMOP CDM
- Data catalogue of data sources (governed access)
<https://emif-catalogue.eu/>



- Biomarker studies in AD & Metabolism

GETREAL - Key achievements

- **RWE Navigator:** interactive tool to walk a broad range of stakeholders through defining evidence gaps and study approach and design option <https://rwe-navigator.eu>



- **Toolbox:** Practical decision-making framework of tools to identify drivers of effectiveness + to get more insight into the statistical aspects for trials design
 - Practical tools to anticipate the risk for an efficacy-effectiveness gap
 - modelling techniques for designing an enriched trial before launch
 - statistical tools to analyse a pragmatic trial

GETREAL - Key achievements

- **PragMagic decision support tool** to help stakeholders to design better pragmatic trials www.pragmagic.eu
- **Synthesis and modelling approaches** to generate RWE, based on randomised and observational data (IPD meta-analysis, Network meta-analysis, mathematical modelling to predict RWE)
- Further development of **ADDIS** an advanced user-friendly software to support adoption of state-of-the art methods and tools in health care policy decision making <https://addis.drugis.org>
- **Real-World Evidence in Medicines Development course** using *Elevate* e-learning platform (new planned in September-October)
- **Publication of [GetReal policy recommendations on RWE](#)**



Further exploitation of the results in upcoming project: GetReal Initiative

ADAPTSMART - Key Achievements



[Home](#) [More about MAPPs](#) [Participants](#) [AdaptSmart Legacy](#)



BD4BO - Programme Goal



- **Massive amounts** of diverse healthcare data currently exist:
 - inpatient and outpatient hospital data, prescription data, claims information and patient-reported data, sociodemographic data, clinical trial data, 'omic measurements etc..
- Currently, no wide scale exploitation of these data
- Exploit the opportunities offered by **large data sets** from variable sources could lead to many **powerful insights**: increase **medical innovation** and deliver **better quality healthcare** system
- Support the evolution towards **outcomes-focused** and **sustainable healthcare systems** through engagement of key stakeholders

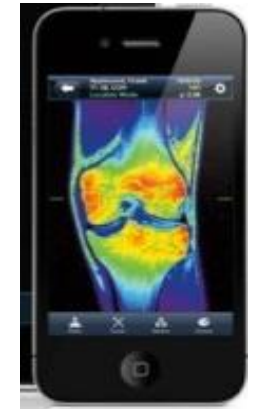
BD4BO: European Health Data Network

Objectives

- Harmonise data on approximately 100 million people to the OMOP common data model.
- Facilitate federated analytics on the data through standardised analytical tools
- Develop a number of use cases to demonstrate the value of the network
 - Regulatory, HTA decision making
 - Optimising care pathways
 - Continuous monitoring of effectiveness, safety
- Expected to start Q42018/Q12019

New data sources: Digital technologies

- Wearables, smart watches, smart phones are a rich source of continuous patient-derived data
- Social media can provide direct patient insights
- Growing focus on developing digital endpoints
- **WEB-RADR:** Mobile ADR Reporting Apps & Social media monitoring
- **Proactive** – hybrid PRO tools qualified by EMA for monitoring physical activity
- **RADAR-CNS** – can data from consumer-grade wearables (eg FitBit) be used to monitor disease relapse/progression (depression, MS, epilepsy)
- **RADAR-AD** - smartphone, wearable and/or fixed home based sensors used to assess identified functional domain in Alzheimer's patients. Launch: Q4 2018.





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**HTA research projects
on the use of real-
world data**



Leslie Pibouleau

European Commission
DG Research & Innovation
Unit E3 Public Health

*Research and
Innovation*

HTA research projects on the use of RWD

- ✓ **On-going projects (2018-2020)**
 - ✓ IMPACT-HTA (LSE)
 - ✓ COMED dedicated to medical devices (University of Bocconi)
- ✓ **New 2018 call: Topic on HTA research to support evidence-based healthcare**
 - ✓ Methodological work should address current concerns and uncertainties around the quality and suitability of RWD (e.g. from disease-specific registries and routine healthcare databases) for **relative effectiveness assessment** in HTA.
 - ✓ Budget: 10 million €
 - ✓ Evaluation procedure: 22 May 2018 → 21 June 2018

Guidance on the analysis of non-randomised studies

Impact-HTA (WP6)

- ✓ **Objective:** to assess the **relative performances of available methods to adjust for confounding biases** (e.g. regression, propensity scores, instrumental variables)
- ✓ **Identify pairs of randomised and non-randomised studies** investigating the same research question (population/ intervention/comparator & outcomes) → Non-randomised studies will include cases using single arm trial for the new intervention and external data for the comparator
- ✓ **Compare estimated effect sizes obtained using different methods** to identify which methods lead to the less-biased estimates
- ✓ Develop **recommendations showing the different options** for the analysis of non-randomised studies and, for each option, the residual risk of bias
- ✓ 3 workshops will be organised with key stakeholders **including regulators** to ensure the relevance & applicability of the outputs

Guidance on implementation of outcome-based managed entry agreements for orphan medicinal products (OMP) IMPACT-HTA (WP10)

- ✓ *More likely to be required due to shortcomings in the available data at the time of product launch*
- ✓ *Review the use of outcome-based MEA & identify specific issues for OMP*
- ✓ **Guidance on implementation:** *criteria & conditions including the form of collaborative approach among stakeholders, operational & legal requirements, **data sources & data requirements***



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**Thank you for your
attention!**

