

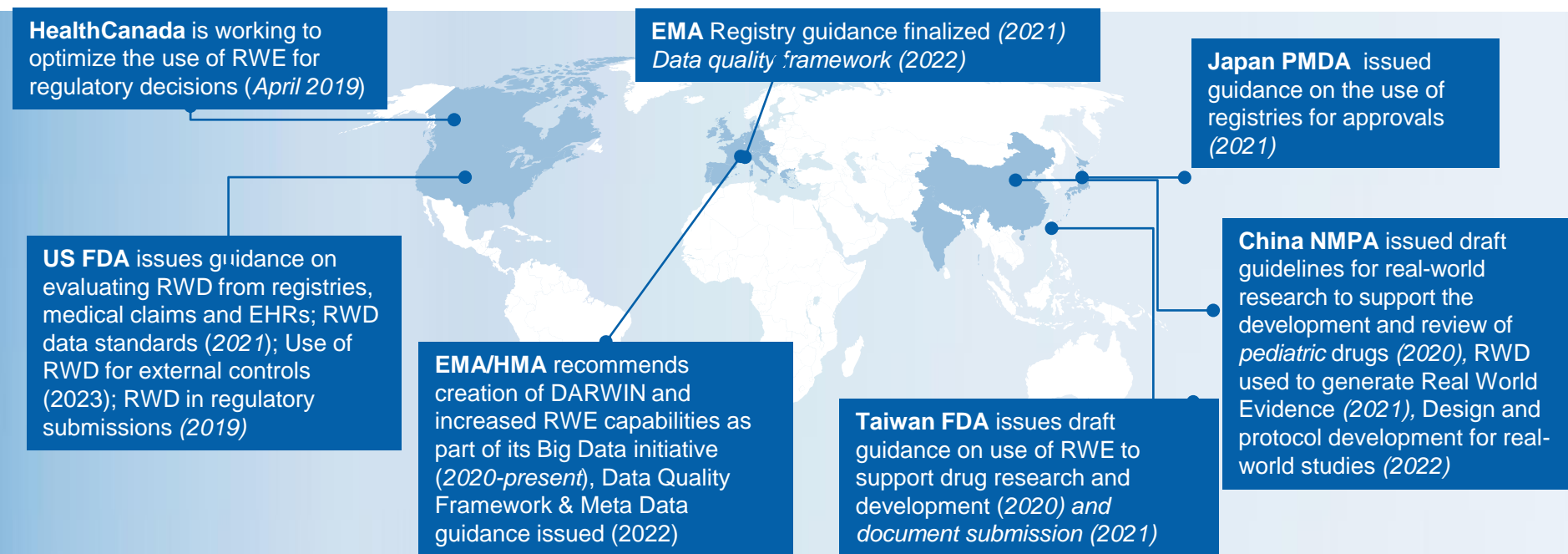
GDD Regulatory & Development  
Policy

# RWD for regulatory decisions

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# RWD/E guidance & frameworks

Health authorities have issued frameworks and guidance on the use of RWD/E for medical product development and regulatory decision making



# Expanded possibilities for RWD/E

The use of RWE for regulatory decisions is not new, but interest in potential opportunities to expand its use beyond safety is being driven by:



Greater availability of electronic healthcare information



Capability to analyze large volumes of data



Ability to link patient data across sources and care settings



Appreciation of the limitations of traditional trials

# Definitions\* of RWD and RWE

**Real World Data (RWD)** are data relating to patient health status and/or the delivery of health care routinely collected from a variety of sources

electronic health records (EHRs)

medical claims data

product and disease registries

patient-generated data, including in-home settings

data gathered from other sources, such as mobile devices, that can inform on health status

**Real World Evidence (RWE)** is the clinical evidence regarding the usage and potential benefits or risks of a medical product derived from analysis of RWD

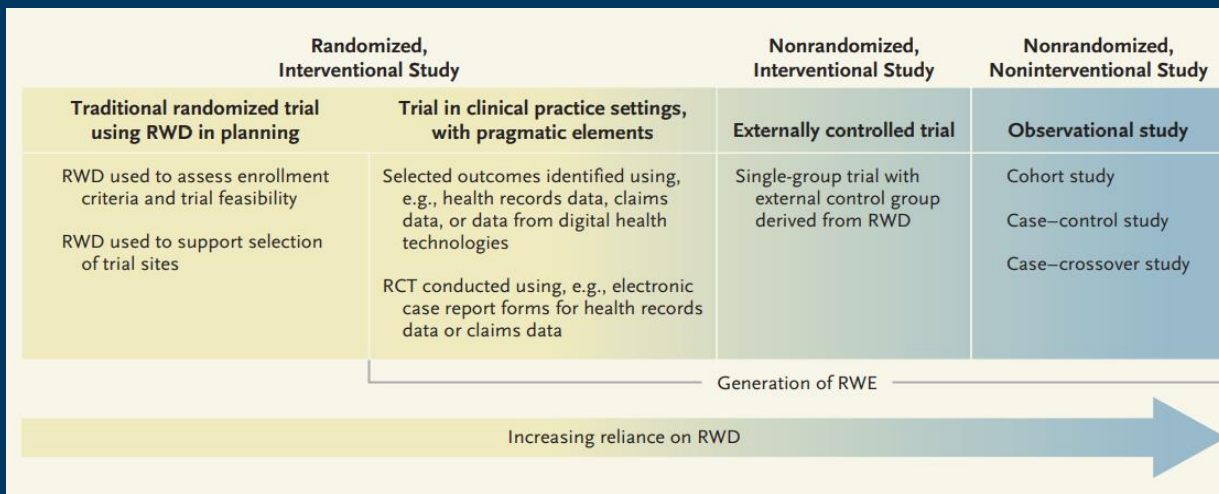
Generated using different study designs, including but not limited to randomized trials (e.g., large simple trials, pragmatic trials), externally controlled trials, and observational studies

# Generating RWE

**RWD studies exist on a continuum**

**A variety of study types may generate fit-for-purpose RWE**

## Reliance on RWD in representative types of study design<sup>1</sup>



RCT, randomized, controlled trial.

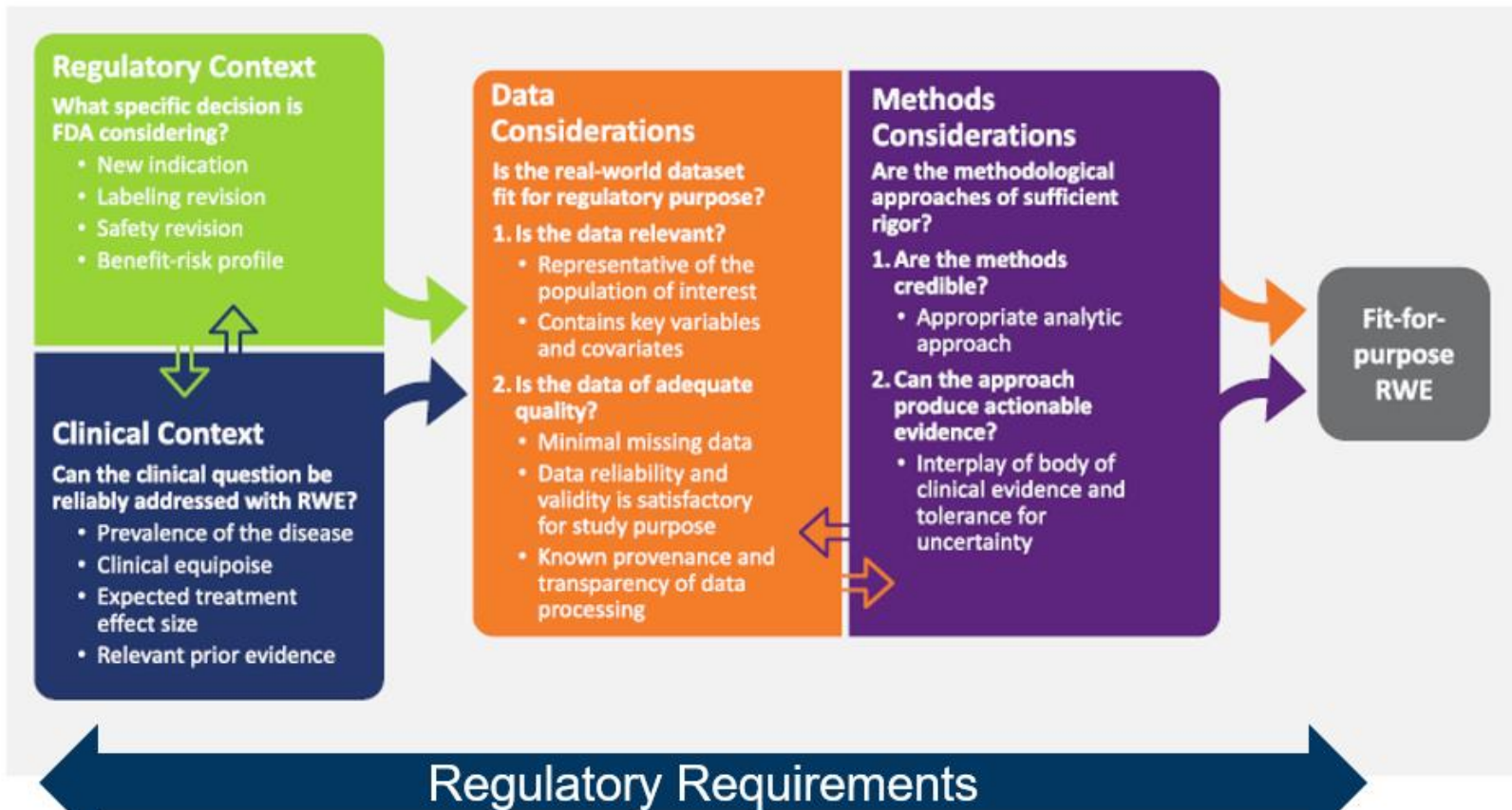
1. Concato J and Corrigan-Curay J. *N Engl J Med* 2022;386:1680–2.

# Considerations for regulatory decisions

## Important considerations when using RWD/E for regulatory purposes

- 1 Are the **RWD** “fit for use” in regulatory decision-making?
- 2 Can the study design and methods used to generate **RWE** provide adequate and interpretable scientific evidence to support a specific regulatory decision?
- 3 Does the approach used in a particular case meet applicable regulatory requirements, including:
  - Requirements for study monitoring
  - Pre-specification of protocols/SAPs
  - Established standards for data submission

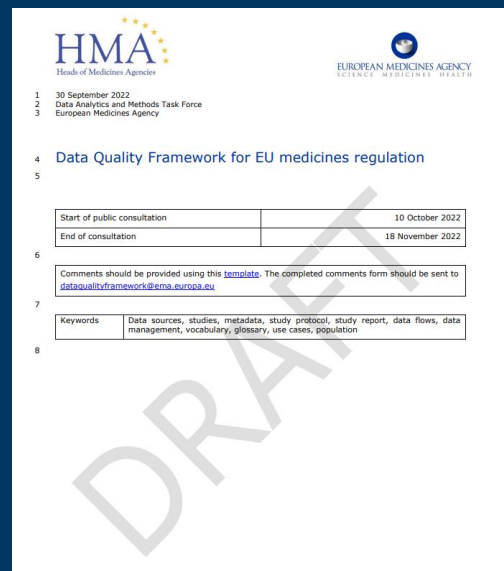
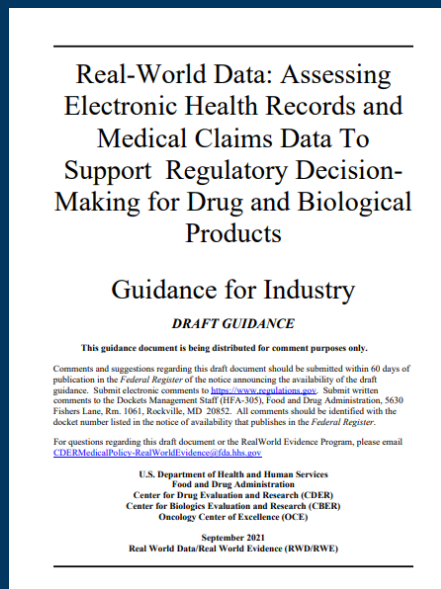
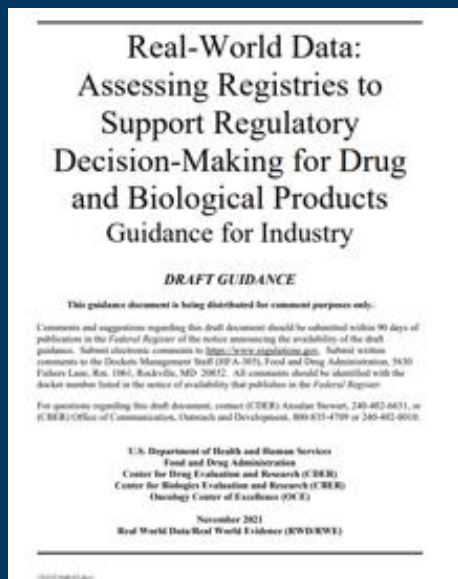
# Framework for “decision grade” RWE





# Regulatory guidance: where are we now?

Several draft regulatory guidance documents on RWD quality exists, with more to come



[data-quality-framework-eu-medicines-regulation\\_en.pdf \(europa.eu\)](#)

[Use of Electronic Health Record Data in Clinical Investigations Guidance for Industry \(fda.gov\)](#)

[Real-World Data: Assessing Registries to Support Regulatory Decision-Making for Drug and Biological Products](#)



# ICMRA's collaboration pledge on RWD/E

International Coalition of Medicines Regulatory Authorities (ICMRA) pledged to work towards alignment on four key areas related to regulatory uses of RWD:

- **Harmonization of RWD and RWE terminologies**
  - Common definitions for RWD/E
- **Convergence on RWD and RWE guidance and best practices**
  - **Common quality principles**; protocol templates; alignment on suitable use cases for RWD/E in regulatory decision making
- **Readiness**
  - Collaboration on RWD studies to address public health
- **Transparency**
  - Systematic registration of RWD studies in public registries



*Implementation will happen through collaboration via ICH, meetings between interested regulators and standard setting bodies*

# Applying RWD regulatory frameworks

During the workshop, keep the regulatory purpose and frameworks in mind



Basel Epidemiology Seminar

**Real-World Data Quality –  
Assessing data quality and demonstrating  
fitness-for-purpose**

BBS/BES Seminar  
Wednesday 15<sup>th</sup> March, 2023 from 14:30-17:00 CET  
Virtual meeting



- What does data quality mean?
- How can we assess and demonstrate that RWD is fit-for-purpose?
- Are there areas of regulatory uncertainty need to be addressed?
- What practical tools are needed in the future?



# Questions



**Thank you**