

# ICH M11: A Critical Enabler for Clinical Trial Transformation

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# Disclaimer and Acknowledgements

#### **Disclaimer**

The views expressed here are my personal views, and may not be understood or quoted as being made on behalf of the EMA or its scientific committees, or reflecting the position of the EMA

### **Acknowledgements**

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M11 EWG



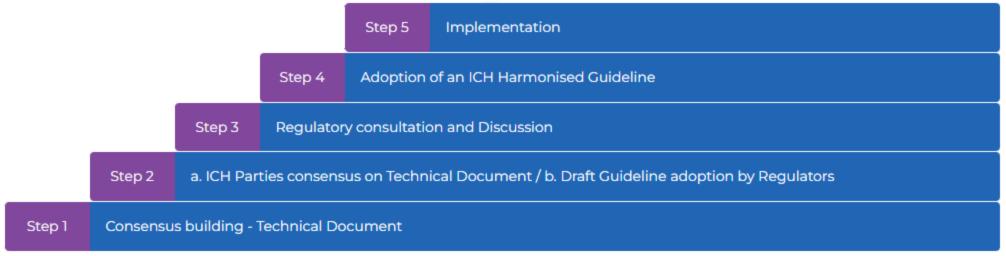
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## Formal ICH Procedure

- Nov 2018: Endorsement of concept paper & business plan by ICH management committee
- Sep 2022: Step 2b reached. Release for public consultation.
- Now: Step 3 ongoing. 2300 public comments were received in 2023 (400 related to statistics). Revision of documents in 2023/2024. Tech Specs currently open for public consultation.
- Finalisation of Step 3 expected for Autumn 2025 with step 4 adoption of the guideline
- Step 5 Implementation by the ICH regulators



Source: https://www.ich.org/page/formal-ich-procedure



# M11: what are the deliverables?

#### Guideline

Provides background, purpose, and scope as a guideline



#### **Template**

Provides written format for the Interventional Clinical Trial Protocol Template



### **Technical Specifications**

Provides technical representation aligned with the guideline and template



#### Guideline

- Explains the need, outlines development

### **Template**

- Specifies headers, common text, instructions, data fields, and terminologies.

#### **Technical Specification**

- open, nonproprietary standard to enable electronic exchange of clinical protocol information



# Why Clinical electronic Structured Harmonised Protocol (CeSHarP)?

#### **Protocols**

- Important document that describes the processes and procedures directing the conduct and analysis of a clinical study
- Format and core content of study protocols vary from sponsor to sponsor, making interpretation difficult for its users (Medical Writers, monitors, Study Sites, Regulators, ethicists...)
- Regulators receive protocols in many different formats
- In the EU, since 31 January 2022, a total of 11,081\* initial clinical trial applications, 14,210\* Substantial Modifications affecting 5,278 trials have been submitted

\*Status 31 March 2025

### **Problem**

- No internationally harmonized standard template for the format and content to support consistency across sponsors and exchange of protocol information.
- Lack of harmonisation contributes to inefficiencies
  and difficulties in reviewing and assessing clinical
  protocols by regulators, sponsors, ethical oversight
  bodies, investigators, and other stakeholders.



# Benefits of a structured, harmonized document

- Some advantages...
  - Efficient searching of information
  - Searchable content and metadata
  - Machine-readable
  - Content reuse
  - Makes information easily accessible for years to come



European Commission's new Datacentre in Luxembourg

### Regulators receiving documents...



Chemist Lee Geismer looking over an NDA in the 1960s. Source: <a href="https://www.fda.gov/about-fda/histories-fda-regulated-products/summary-nda-approvals-receipts-1938-present">https://www.fda.gov/about-fda/histories-fda-regulated-products/summary-nda-approvals-receipts-1938-present</a>



# BCH M11 - CSS Utrecht The ICH M11 initiative : an enabler

Reinforcing efficiency of planning, evaluation, conduct, and supervision of clinical trials with:

- Integration with the Single e-submission via the <u>Clinical Trial Information System (CTIS)</u>
- Coordinated assessment between Member States Concerned facilitating decision making
- Interoperability with other systems and processes
- High <u>transparency</u> of clinical trials information
- Consistency amongst ICH regulators once implemented



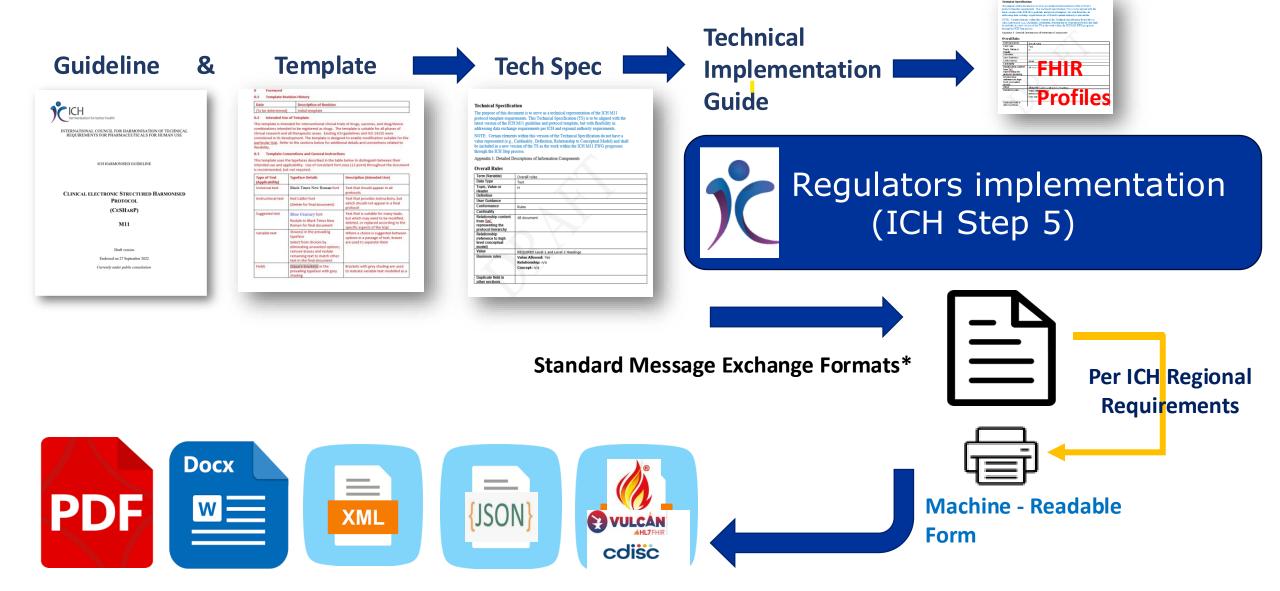




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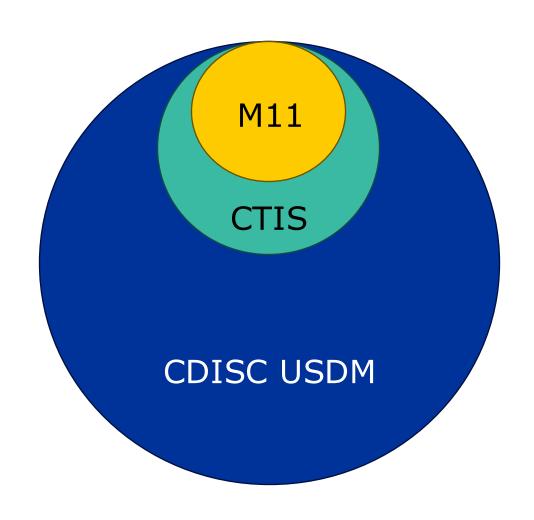
**Controlled Terminology** 

# M11 Template can be exchanged using many formats



<sup>\*</sup> Technical Implementation Guides may be needed for various use cases

# Link Between M11, CTIS Data and USDM\*



- Areas to be aligned
  - Data elements
  - Definitions
  - Code lists
- EU CTIS has data requirements in addition to M11
- CDISC USDM accommodates the M11 elements and their semantics and create an ICH M11 model specific view
- In the future structured study results



<sup>\*</sup>Unified Study Definition Model (USDM), is a Class diagram that functions as the Study Definitions Logical Data Model (LDM).

#### **Clinical Trial Protocols**

The structured data defined by ICH M11 provides key metadata and helps start the process of standardizing data format



### **Clinical Trial Raw data**

Individual Patient Data (IPD)/raw data are collected from sites.

IPD enable detailed analysis.

### data collection & Analysis

### Study

Reporting

### **Summary Results (SR)**

### **Aggregate data:**

Summary results data combine individual data points into an overall summary

### **Clinical Study Report (CSR)**

ICH HARMONISED TRIPARTITE GUIDELINE

STRUCTURE AND CONTENT OF CLINICAL STUDY REPORTS

63

Current Step 4 version dated 30 November 1995 M11 to enhance data submission with ICH standardisation

**CTA** submission



**SR** submission



**CSR** submission

**CTIS Submissions** 



# Take-home messages

- M11 will provide a new structure for protocols (truly electronic and in terms of content)
- Standardisation is essential for structuring and for visualisation
- Efficiency gains through harmonization

### **Next steps:**

- ICH Sign-off Step 3 and step 4 in Q4 2025 with regulatory implementation in step 5
- Supporting modernisation effort for sponsors with planning data exchange mechanism to CTIS
- Structure of summary results for clinical trials







# Thank you

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