WITH STANDARDS – UNLOCK THE POWER OF DATA



2022 CHINA INTERCHANGE 29-30 JULY | VIRTUAL EVENT



### State of the Consortium

David A. Evans President and CEO, CDISC 2022 Europe Interchange



### Meet the Speaker

Dave Evans

Title: President and CEO

**Organization: CDISC** 

Dave Evans is recognized industry-wide as a leading technology visionary for developing and implementing complex process and system solutions and as an expert in the areas of information standards, regulatory compliance and quality governance. He was the architect and developer of the first electronic drug submission to the FDA in 1985 and has been responsible for more than 100 electronic regulatory submissions and complex clinical data warehouse systems. He brings over 40 years' experience to CDISC, serving in various executive-level positions in software development, clinical research, regulatory and healthcare industries. Most recently, he was the Global Head of Quality Governance and Regulatory Compliance for Accenture Life Sciences. Prior to that, he was CIO of Octagon Research Solutions. He has also served on the CDISC Board and has chaired the CAC.

Dave received his MS in Biomedical Engineering from Drexel University and his BS in Biology from Ursinus College.

### State of the Consortium



### **CDISC Today**

- Staff of 40 Professionals with 40+ SME Contractors
- Volunteer Network of 1000+ Industry Experts
- 540+ Member Organizations
- Widely Adopted Clinical Research Data Standards
- Mature Standard Governance processes
- Healthy Financial Reserves
- Innovative Technology for Standards implementation
- Delivering on Innovative Industry Initiatives and Projects
- Positive Relationships
  - Members, Regulators, Partners, Academia, SDOs and Industry



### **Alliances and Collaborations**

#### **CFAST & Therapeutic Area Partnerships**

CDISC collaborates with many organizations to develop Therapeutic Area (TA) standards for multiple disease areas through the Coalition for Accelerating Standards and Therapies (CFAST) initiative, as well as other partnerships.



#### Standards Development Organizations (SDO) Collaborations

CDISC collaborates with other SDOs to develop standards that are synergistic to support a learning health system based upon high quality research.



CDISC and PhUSE partner to further the mission of each organization collectively, with CDISC focusing on the development of global, platformindependent data standards, and PhUSE focusing on the implementation and use of the CDISC standards. The two organizations work to combine efforts on key initiatives around end-to-end standards, TA standards, and semantics, strengthening an interdependent process.

**Regulatory Collaborations** 

CDISC works closely with regulators around the world to ensure that CDISC

standards will 1) streamline research from protocol/study design and trial

registration through analysis and reporting; 2) facilitate the eSubmission review

### CDISC – a look into this year

- Standards Initiatives from Regulatory Agencies
- Ongoing Therapeutic Area Projects
- Ongoing Activities and Projects on RWD/RWE & Data Sharing
- Standards Implementation for Registries and Academic Use
- New Industry Projects are on schedule for delivery
- Continue to build upon CDISC Library and Biomedical Concepts
- Continue to add content to eCRF Portal and QRS Library
- Collaboration with other SDOs on emerging Industry Initiatives
- Expansion into additional areas of Clinical Information Standards

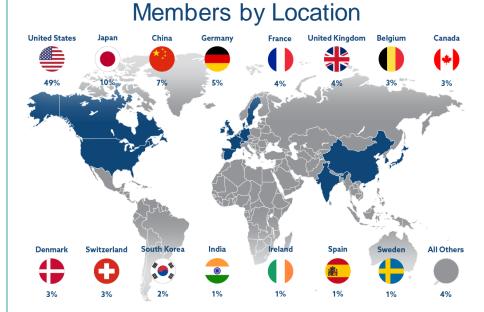


### **CDISC Members = Global Community**

### Members by Industry

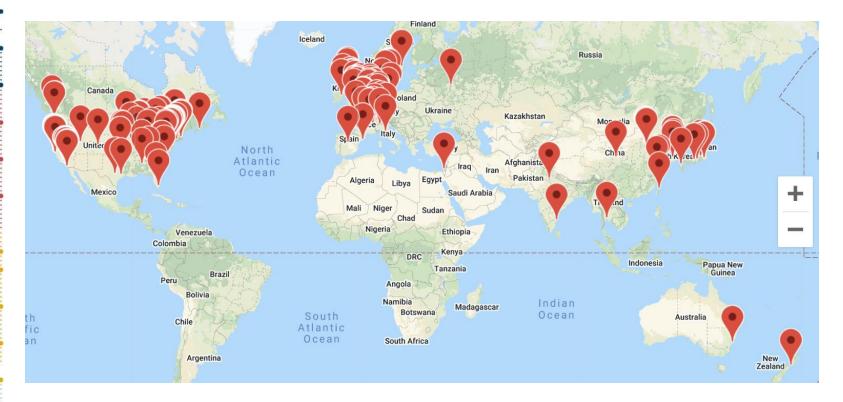


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#### 8/2/2022

### **CDISC Members Around the Globe**





## **CDISC Membership**



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### Membership Trend, 2000-2022 548 Members as of 30 June 2022



8 Gold; 3 Platinum



11

### **CDISC Events, 2022 - 2023**



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### **CDISC Events**, 2023





### **IN-PERSON US INTERCHANGE**

### 2022 US INTERCHANGE 26-27 OCTOBER | AUSTIN, TX



The 2022 CDISC US Interchange is an event consisting of workshops, training courses, and a two-day Main Conference. This event will provide an opportunity to share progress, implementation experiences, and strategic ideas on world wide data interchange standards for medical research.

Main Conference | 26-27 October

Renaissance Austin Hotel, 9721 Arboretum Boulevard, Austin, TX





### Journal of the Society of Clinical Data Management CDISC Focused Special Edition



Journal of the Society for Clinical Data Management

- 24 abstracts received
- FDA, PMDA, DMA represented
- Rolling publication
- Supplement publication: Q4 2022





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### What is the next stage on the CDISC Journey?

CDISC has always been an evolving transformational standards organization for information used in clinical research and regulatory submission.

### **CDISC Data Standards Lifecycle**





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### **CDISC Data Standards Lifecycle**



### Implementation requires:

- Standards expertise
- Standards conformance and verification
- Standards machinery and processes



### What is the next stage on the CDISC Journey?

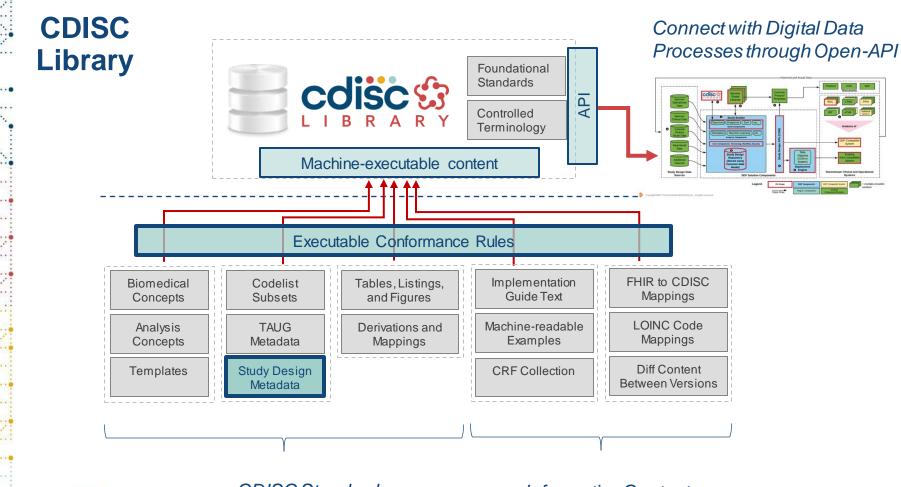
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### **CDISC Data Standards Lifecycle**

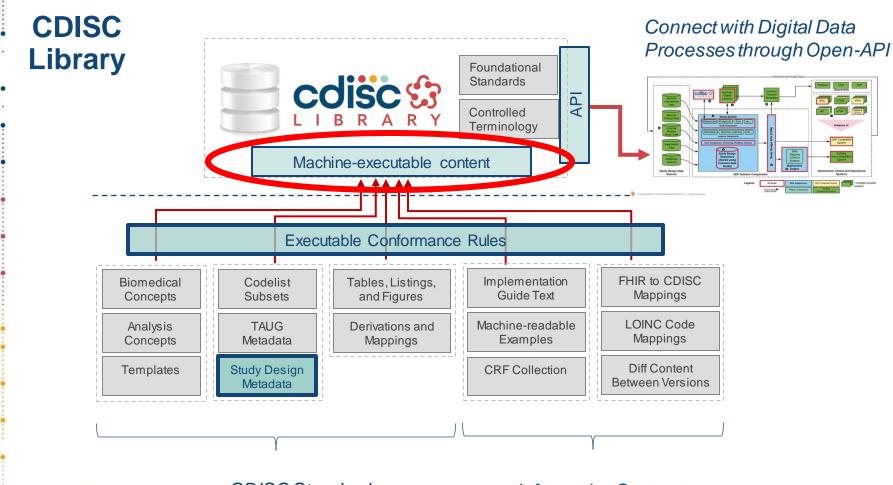
### Automation requires:

- Standard Machine-executable content for Useability
- Standard Technology Interfaces for Integration for Accessibility
- Standard Verification and Conformance Rules for Integrity
- Standard Trial Design Specifications for Total Automation of the Digital Data Flow

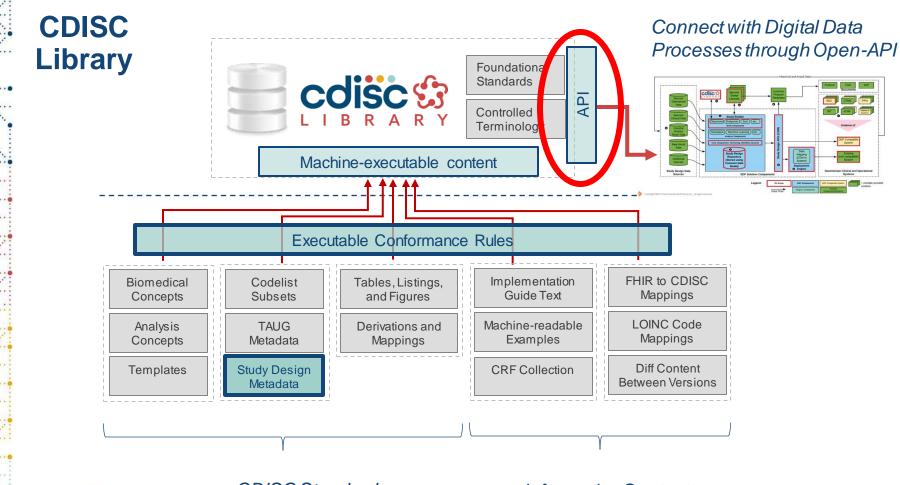




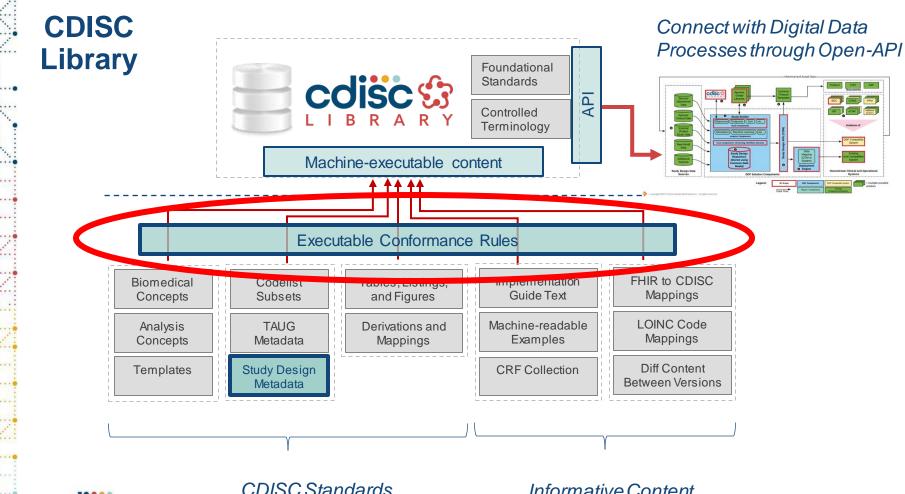
**CDISC** Standards



**CDISC** Standards

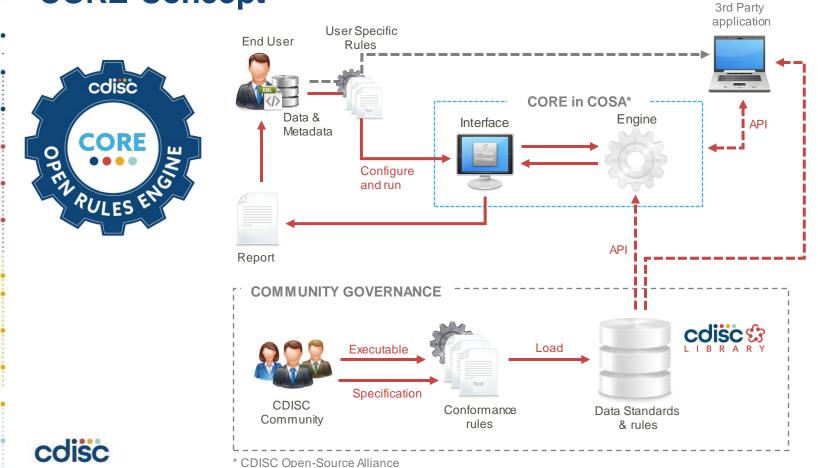


**CDISC** Standards



CDISC Standards

### **CORE Concept**



# Why is CDISC doing CORE?

- Ensure each standard has a set of unambiguous, executable Conformance Rules
- Ensure consistency across Conformance Rule
  implementations
- Expedite the availability of executable Conformance Rules for new Foundational Standards
- Create executable Conformance Rules vetted by the CDISC standards development teams
- Develop an open-source engine that serves as a Reference Implementation
- Publish the Rules in the CDISC Library and the engine under the CDISC Open Source Alliance (COSA)

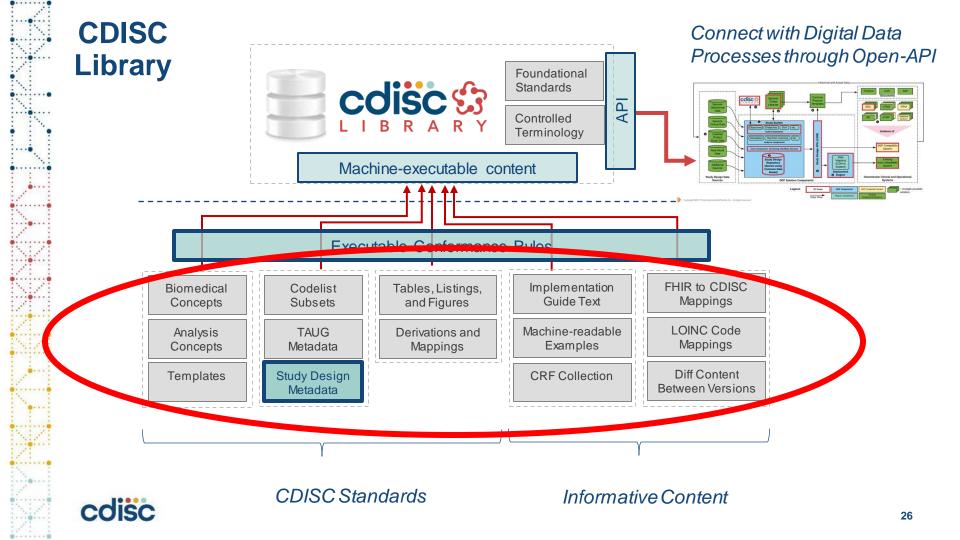


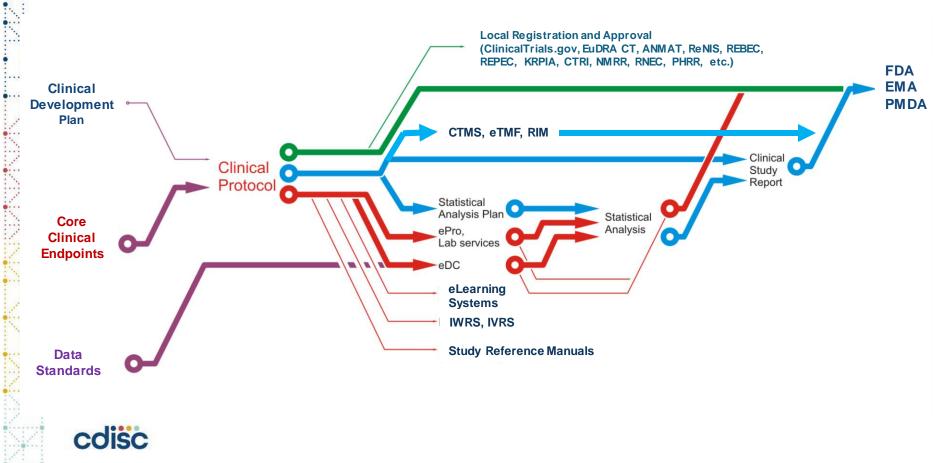
https://www.cdisc.org/core

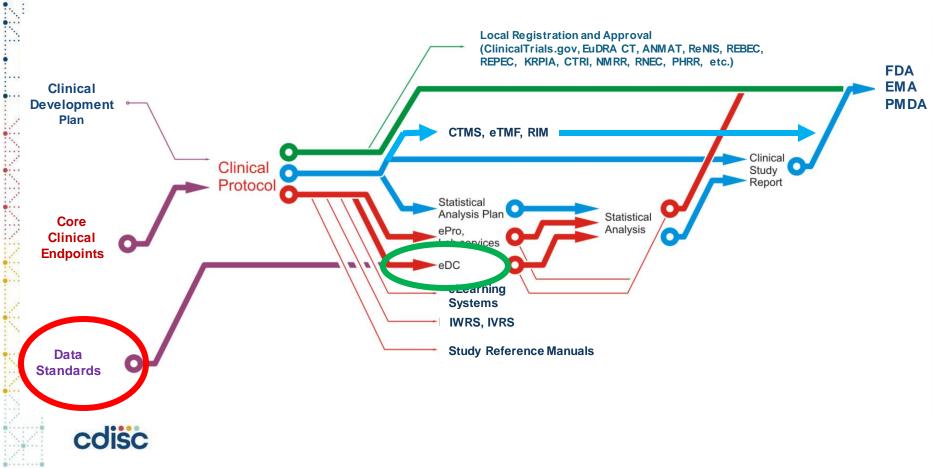


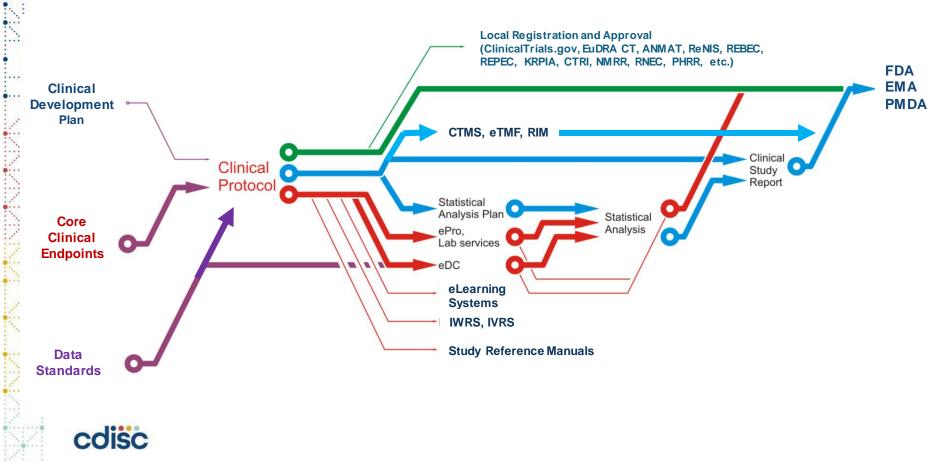
https://cosa.cdisc.org/

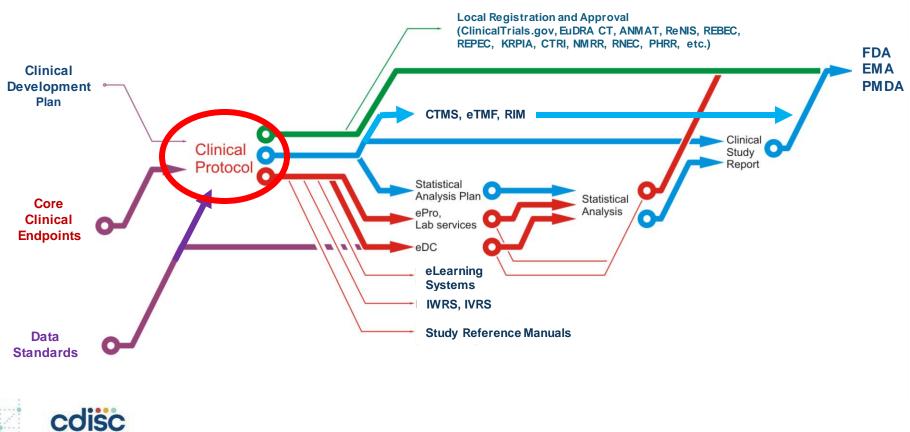






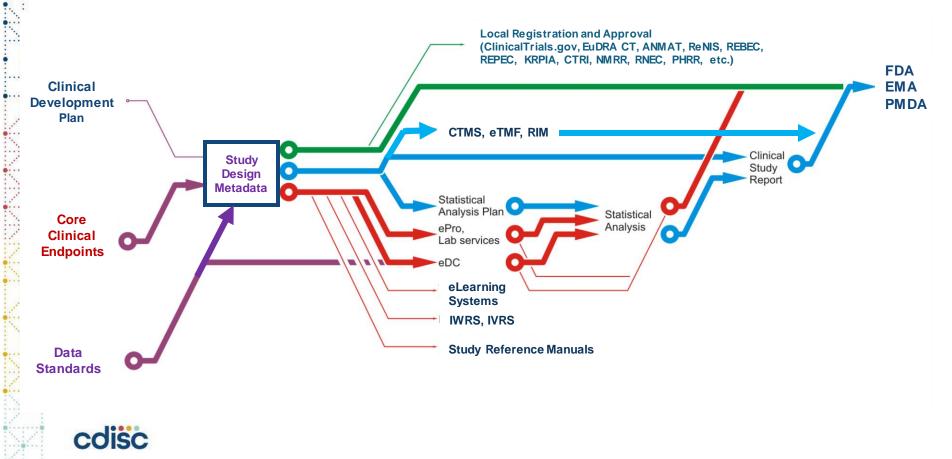






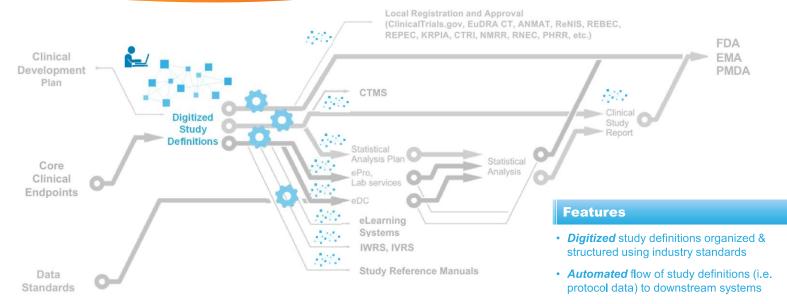
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#### **Future Vision for DDF**

Digitized, Automated & Dynamic



• **Dynamic readiness** enabled by faster cycle times & quality data from a single source

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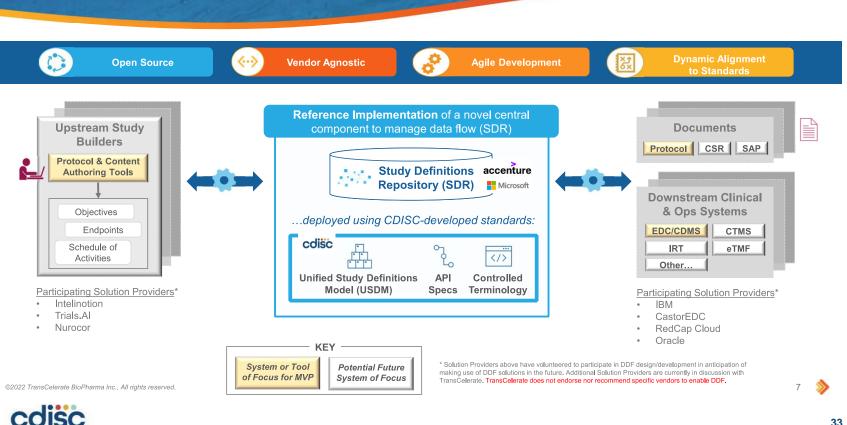
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#### **Minimum Viable Product (MVP) Development Complete**

April 2022 Release

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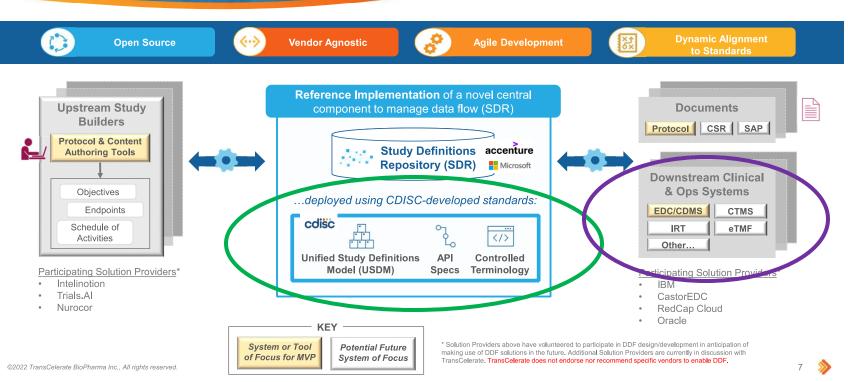
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April 2022 Release

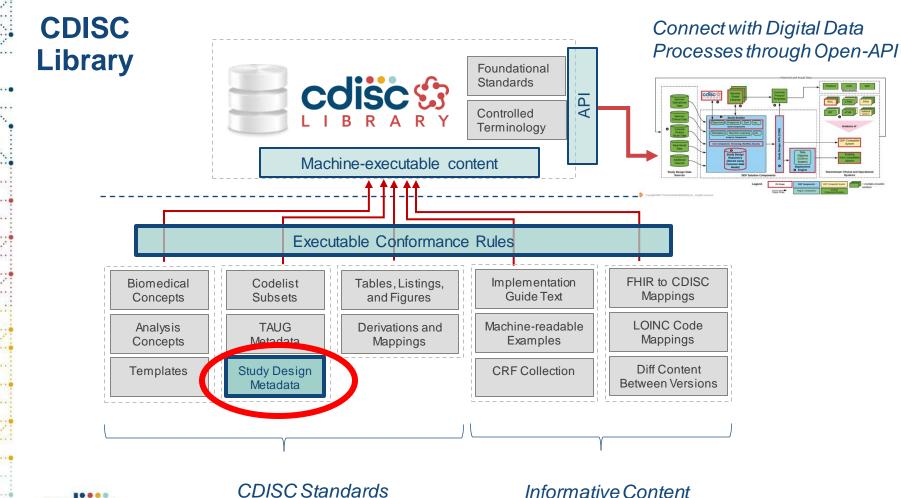
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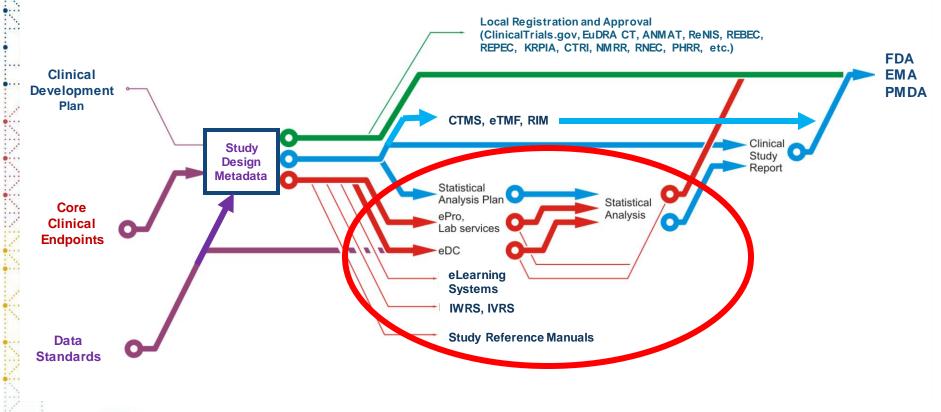
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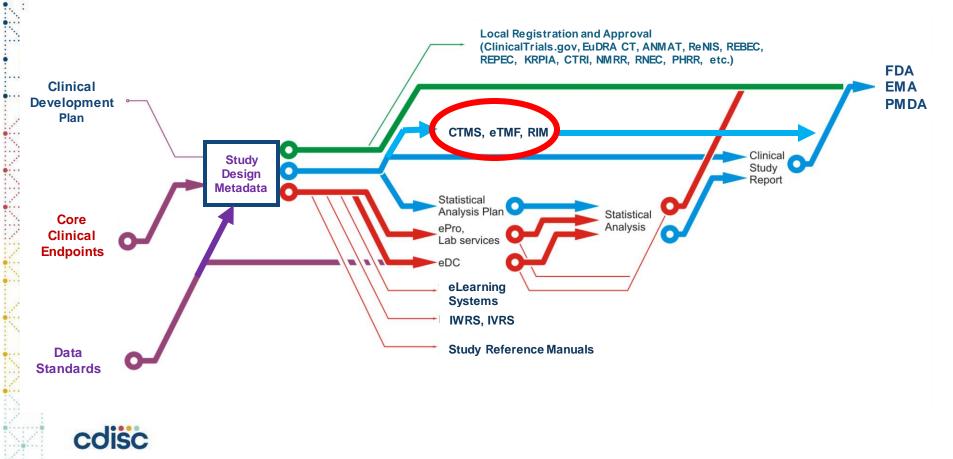
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## **The Clinical Trial Information Flow**



## What is a Trial Master File?

The sponsor and the investigator shall keep a clinical **trial master file**. The clinical trial master file shall at all times contain the **essential documents** relating to that clinical trial which allow verification of the conduct of a clinical trial and the quality of the data generated [...]. It shall be readily available, and directly accessible upon request, to the Member States. [EU Regulation 536/2014]

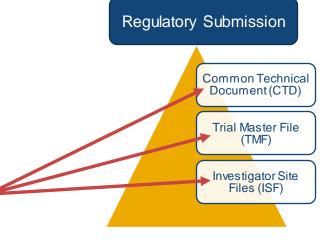
"The minimum list of essential documents that has been developed....." [ICH GCP Section 8.2 – 8.4]

Essential Documents examples:

- CV
- 1572
- Protocol
- IRB approval
- IRB approved Informed Consent
- IRB correspondence
- Lab normal ranges
- Investigational Product tracking
- Etc.







## **Purpose of the TMF Reference Model**

#### Standard Contents

 Industry opinion on what is kept in a TMF

#### Standard Structure

 To support paper and electronic systems

## Standard Naming

 Based on ICH E6 R2 Sect. 8 & industryaccepted terminology

### Standard Metadata

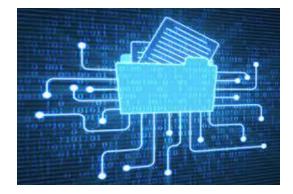
 Recommended minimum metadata at system and artifact level



Website => tmfrefmodel.com

# Benefits Gained by Implementation of eTMF RM Standards

- Standardizes company content and structure and limits company customization
  - We all follow the same regulatory requirements
  - Inspectors are the same across companies
  - Company-specific requirements are often driven by tradition, legacy or personal opinion
- Simplifies engagement of CROs and other third parties
- Simplifies consolidation of disparate documents into a single TMF structure (in real time, at defined trial events and/or at study end)







## **Development of the TMF Reference Model**

2009 to 2010	Multiple releases including Regulator feedback, Investigator Site Files, Devices, Process based metadata. Workgroups established Separated from DIA	2014 to 2021	<b>COISC</b> The Future as a Standard!
Initial meeting in 2009 with first version being released in 2010	2011 to 2013	Formalization with a Steering Committee. <b>Release of the</b> <b>Exchange Mechanism</b> <b>Specification</b> and Version 3	2022 onwards



**IMPLEMENTATION** 

**AVAILABLE** 





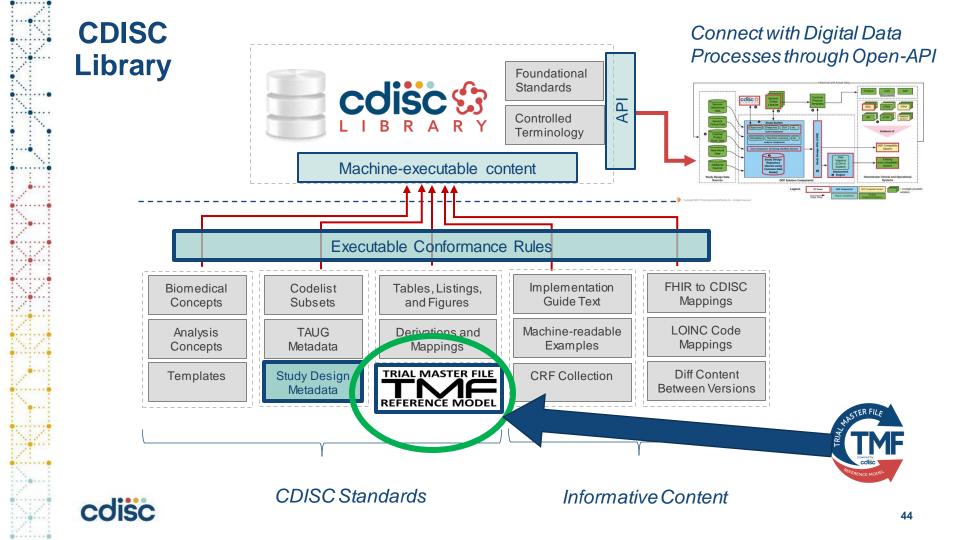
DOCUMENTS

## **Benefits for the Clinical Research Community**

- Expansion of scope of clinical information standards to trial design, trial administration, clinical operations, regulatory documentation
- CDISC serves as the hub for cross-industry standards initiatives and the TMF RM will be part of that direction
- Strategically, there is a natural progression to the development and governance of standards, so why reinvent the wheel when so much work has already been done
- Evolution organizationally to embrace governance of clinical research information standards, not just the clinical data from where it originated.
- Broadening the harmonization of clinical research information standardization.







#### We welcome the TMF RM Community to the CDISC Consortium of Clinical Research Standards

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WELCOME

MASTER FILA

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RENCE MOD

## 2020 AND BEYOND



## Data Modernization and Governance

#### Areas of Focus

§ Data Management and Governance Maturity Assessment and Gap Analysis

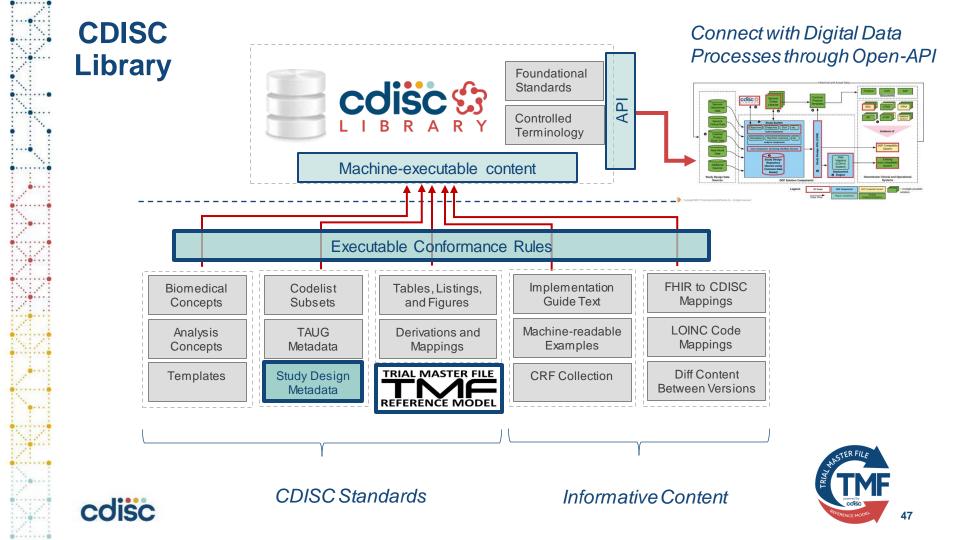
Establish a baseline, conduct a gap analysis and generate documentation that outlines a schedule for implementation of data governance policies and procedures for all CTP data systems and processes

#### § Data Management Framework Implementation

Develop a recommended roadmap for the modernization of our existing data architecture in accordance with recommended Data Management and Data Governance policies and procedures. This roadmap will delineate strategic priorities and outline a recommended approach to attain a desired Data Management Framework as dictated by the Data Management needs of CTP

§ Data Governance Framework Implementation

Implement the Data Governance Framework in accordance with the outcomes from the data management framework implementation plan.





## Dave Evans – President & CEO, CDISC devans@cdisc.org







