

CDISC[®]

Setting the Global Standard for Medical Research



CDISC SHARE: Shared Health And Research Electronic Library

CLINICAL DATA INTERCHANGE STANDARDS CONSORTIUM

CDISC French User Group February 2010

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Foreword

- These slides are a combination of
 - Slides extracted from CSHARE webinar of October 2010
 - Material developed by the TAC sub-committee (referring to CMDR as the precursor of CSHARE)



WHAT is it CDISC SHARE?

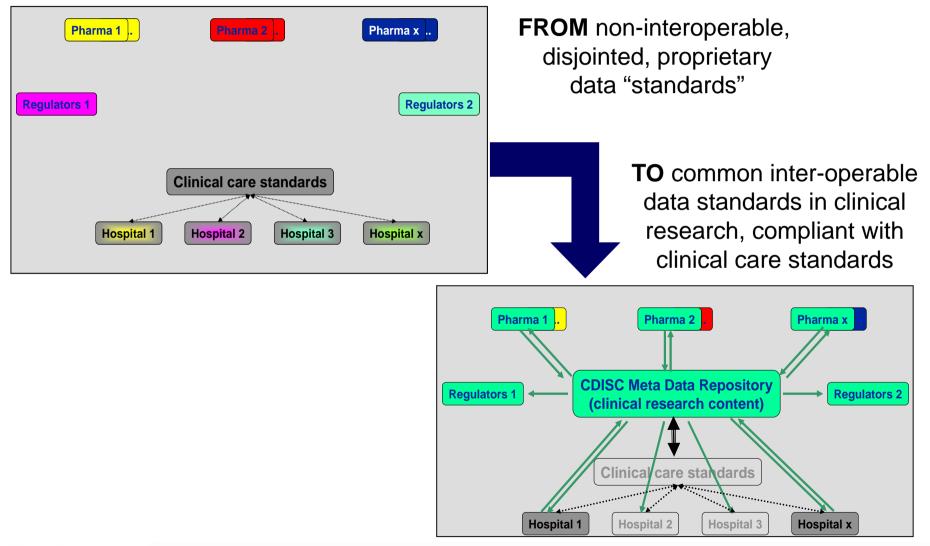
A global, accessible electronic library, which through advanced technology, enables precise and standardised data element definitions that can be used compared in different heterogeneous applications and studies to improve biomedical research and its link with healthcare

> Note: Text in black is the official definition. Red marks indicate personal modification



WHAT is it CDISC SHARE?

From disjointed "standards" to semantic interoperability





WHY CDISC SHARE?

- To develop a 'reference' or target set of standards without duplication of existing standards
- To augment the CDISC content standards with efficacy-related domains in an electronic, accessible format
- To ensure that terminology for research standards is consistent with that needed for other purposes (e.g. quality reporting, public health, safety monitoring)
- To ensure that these standards strengthen the link between clinical care and research such that research results can inform healthcare more quickly



What is the Potential Value?

- Enables semantic interoperability and integration within clinical reserach
 - improved data consistency and quality => facilitate aggregation of data and comparisons
 - Within organizations AND across research studies (e.g. comparative effectiveness), research and/or healthcare organizations, regulators, vendors and other partners.
- Improve speed of data standard development through electronic and collaborative infrastructure :
 - improve the speed in developing standards and definitions
 - improve the governance surrounding the definitions
 - provide 24/7 access to the definitions
- Reduction in costs
 - To maintain individual dictionaries within each organization;
 - To share the same dictionary across different organization through downloads of reference dictionary

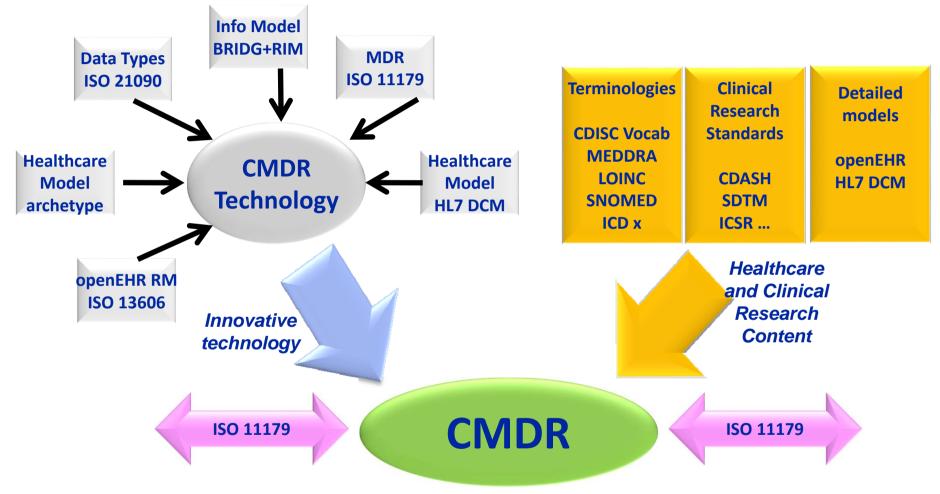


Description:

- SHARE is intended to be
 - a healthcare-biomedical research enriched data dictionary
 - Common information model (initially BRIDG)
 - Strong data typing (ISO 21090 Abstract data types)
 - Common terminologies/value sets (CDISC, HL7, SNOMED, ICD, etc.)
 - Processes supporting exchange of information
 - built on the four pillars of Computable Semantic Interoperability (CSI)
 - which enables data reuse and exchanges that can be interpreted between systems
- Provides a target for mapping legacy/retrospective data and enables "the" target (reference) for new data



Description: *bringing several existing technical standards into one common "semantic" IT platform*



CMDR is an enriched data dictionary, built on innovative technology and filled with content combining healthcare and clinical research standards to deliver semantic interoperability between healthcare and clinical research



History

- December 2007: First proposal to the BoD
- April 2008: Description of CDE repository requirements to BoD TAC sub-committee; approval to further explore
- April 2008 December 2008: TAC Sub-committee
 - Several face to face meetings and TC
 - Definition of use cases to consolidate understanding on what we wanted/needed

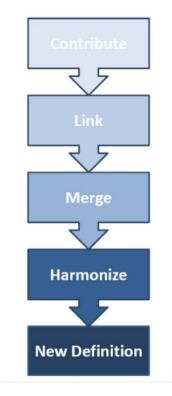
(http://asserowiki.com/index.php?title=User_requirements)

 December 2008 – April 2009: Meetings with FDA, HL7, Academia, Explored possibility to participate to FP7 and IMI calls,...



History

- April 2009 October 2009: Inception Phase
 - Goals.
 - Primary: Determine whether definitions taken from multiple sources can be merged into a single version agreed to by all parties and can this be done within a timeframe that makes business sense
 - Primary: Determine whether high-quality definitions can be created and ontologies can help in ensuring such and avoid duplicate definitions being created
 - Secondary: Provide any relevant lessons to subsequent development
 - Deliverable: Evaluate feasibility; determine future path
 - Scope & Vision Document
 - Stakeholder Assessment
 - Business Requirements
 - Governance Process and Workflow
 - Business Models
 - Technology and tools (Mayo/NCI LexGrid) with comparable content (Oncology) from 5 sources (Mayo, MD Anderson, GSK, Genzyme, Lilly)

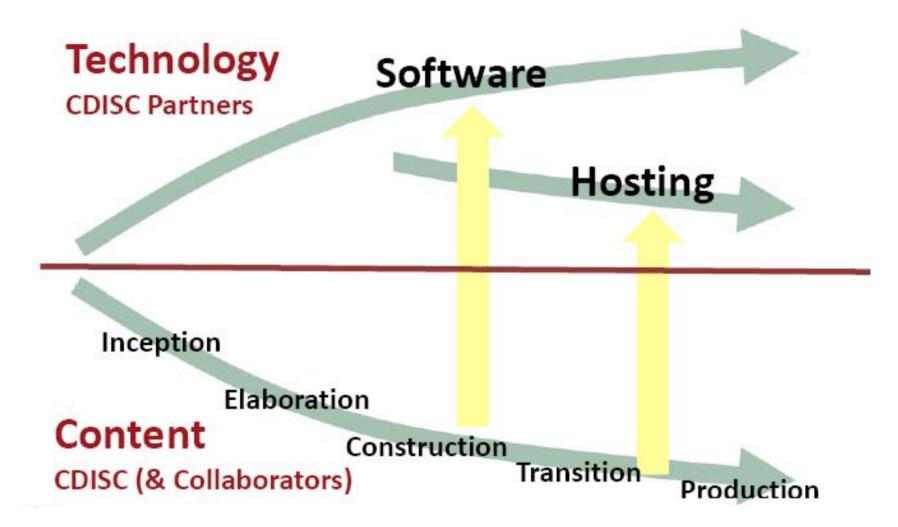




The wiki is available at: http://informatics.mayo.edu/cshare/index.php/Main_Page

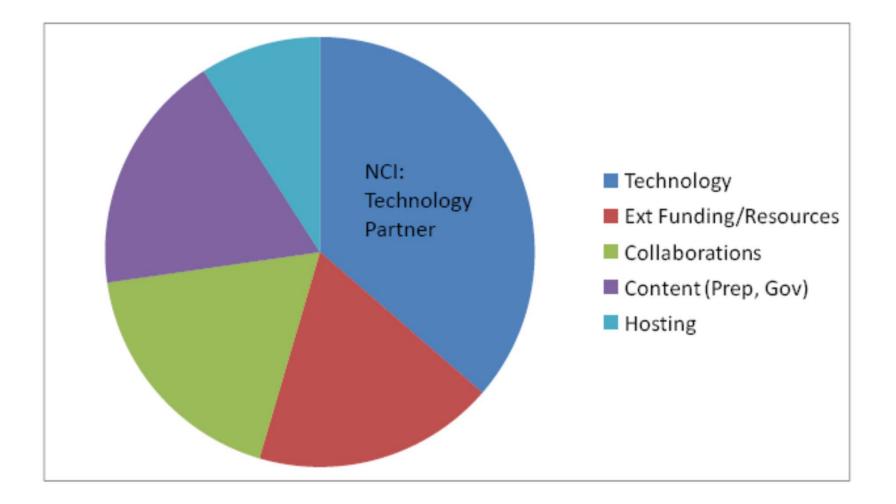
Username: cshare Password: xTu\$\$9

CDISC Role in SHARE: focus on content



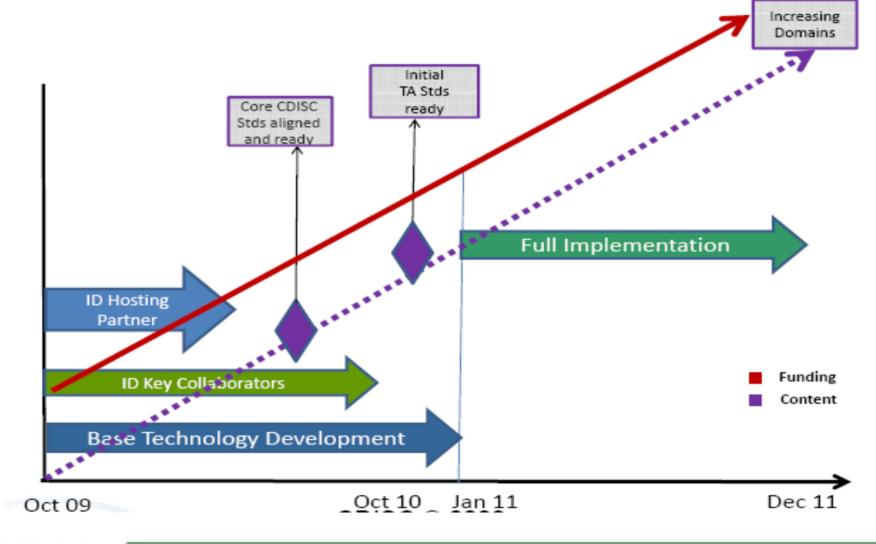


Focus Areas: SHARE Implementation





Projected Timeline





Closing remarks

- What is different about SHARE vs. other repositories?
 - Create a 'reference standard' vs. catalog or focused repository , to enable data aggregation and scientific comparisons that are impossible with proprietary standards
 - Leverages advanced technologies
- Why should CDISC lead the SHARE project?
 - CDISC is a global standards development organization with track record of collaboration and open, free standards.
 - CDISC will partner with other organizations on SHARE to ensure that it enables a better link between clinical care, research and other areas that benefit from high quality, accessible clinical data to benefit patient care while protecting patient privacy.





Strength through collaboration.

As a catalyst for productive collaboration, CDISC brings together individuals spanning the healthcare continuum to develop global, open, consensus-based medical research data standards.

