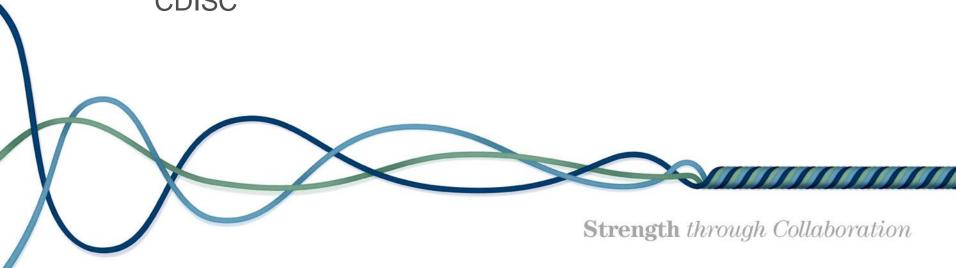
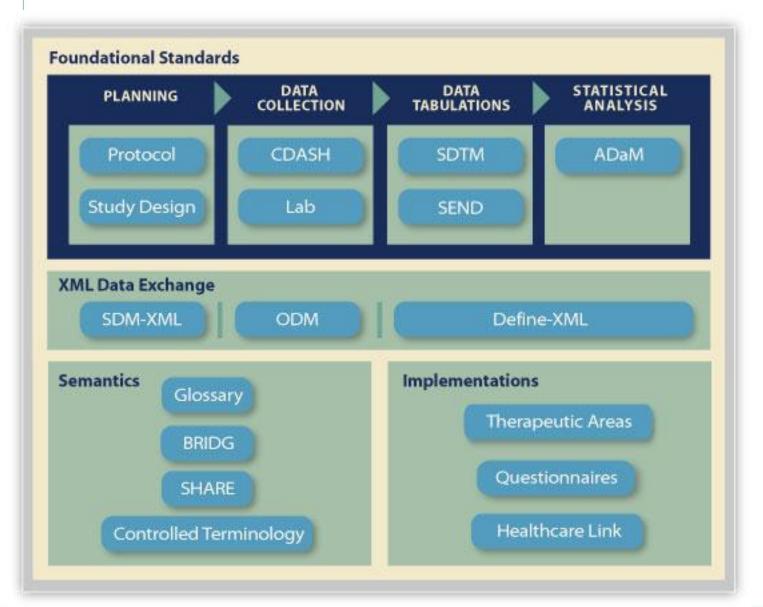
CDISC SHARE: A BRIDG-based Metadata Repository Environment

Wayne R. Kubick CDISC



The CDISC Standards Guide





BRIDG – Part of the SHARE Foundation

BRIDG Purpose:

A collaborative effort to produce a shared view of the dynamic and static semantics that collectively define a shared domain-of-interest.

- The semantic foundation for HL7/CDISC-based application and message development
- **Domain-of-interest/scope:** Protocol-driven research
 - A Unified Modeling Language (UML) Model of the data (using ISO 21090 datatypes), organization, resources, rules, and processes involved in the formal assessment of the utility, impact, or other pharmacological, physiological, or psychological effects of a drug, procedure, process, or device on a human, animal, or other biologic subject or substance plus all associated regulatory artifacts required for or derived from this effort.
- Stakeholders:





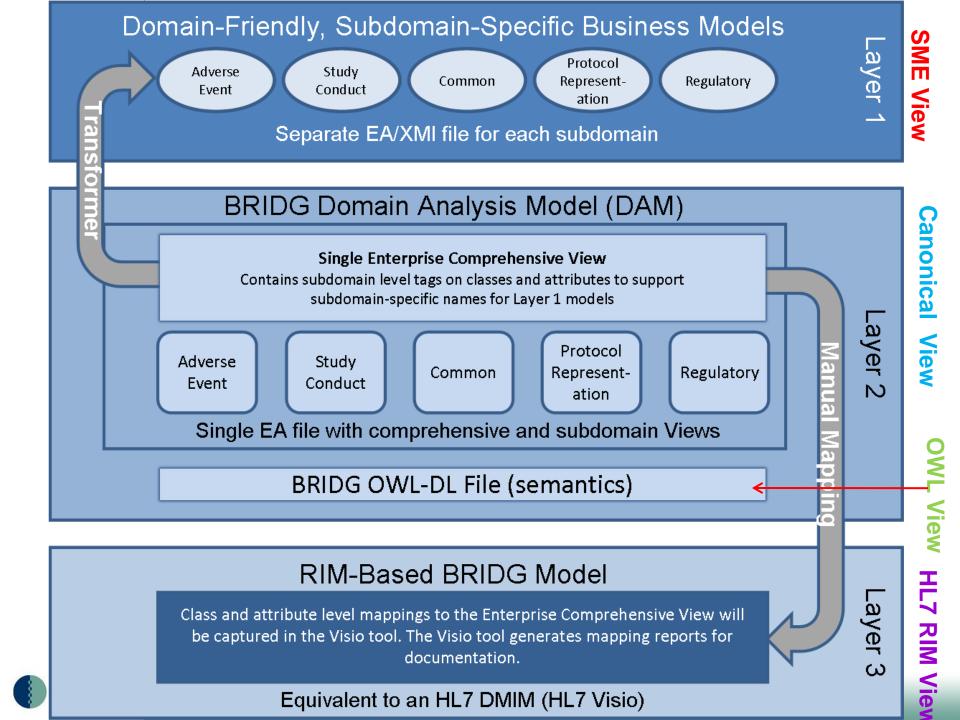




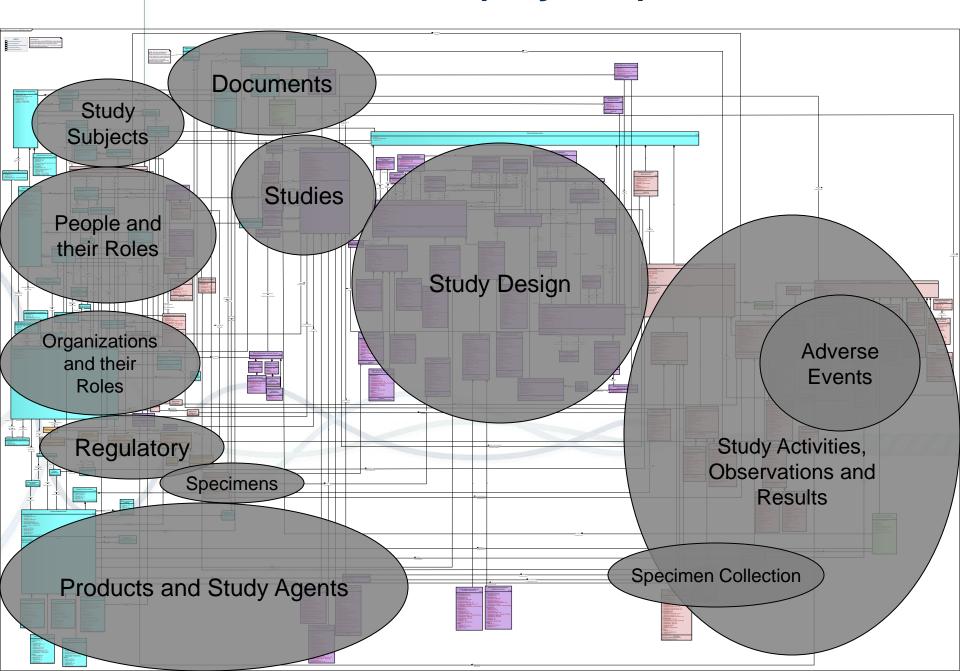
Governance Process:

Board of Directors prioritizes projects and committee consults with projects and harmonizes project models into main model with help of project analysts/SMEs





BRIDG Model Content (Layer 2)



CDISC SHARE VISION

A global, accessible electronic metadata library, which through advanced technology, enables precise and standardized data element definitions and richer metadata that can be used in applications and studies to improve biomedical research and its link with healthcare.

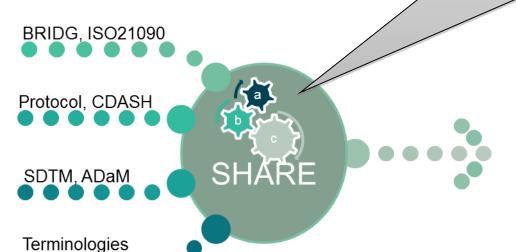
http://www.cdisc.org/cdisc-share

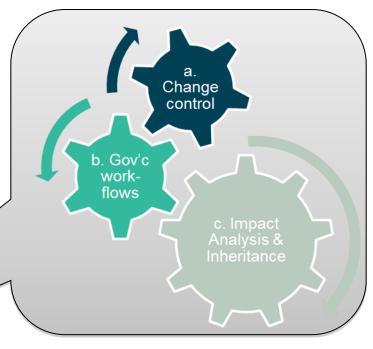






- Single, trusted, authoritative source for CDISC data standards
- Concepts, metadata, collections, relationships, value sets across the full spectrum of CDISC content
- Links research to healthcare concepts to support interoperability
- Aligned with NCI Semantic Systems





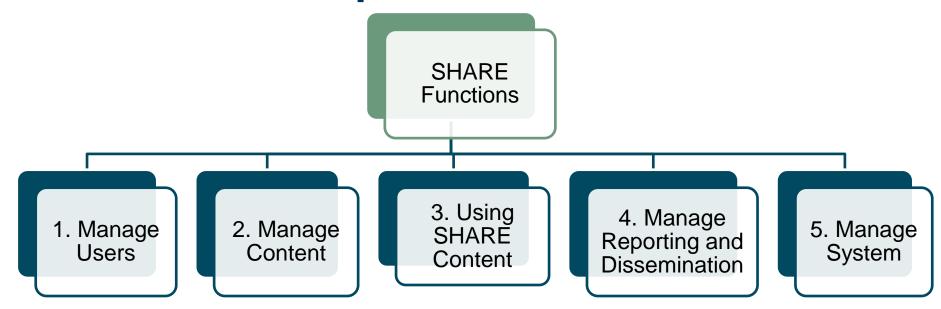
Facilitates Data Exchange

- Access to data standards
- Source to target mapping & traceability
- Transformation logic



Graphics adapted from Source by Sue Dubman, Sanofi-Aventis

SHARE Top-Level Functions



- Manage User Roles
- Manage User Profiles
- Manage Password
- Manage User Dashboard

- Manage Work Items
- Manage Standard Objects
- Manage Audit Trail

- Search and Browse
- Import
- Export
- Print

- Send
 Notifications to users re object changes
- Manage listserv

- Manage SHARE MDR Framework Components
- Monitor User Activity
- Maintain Metrics
- Manage System Availability



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CDISC SHARE Library Contents

- Metadata (including BRIDG, SDTM and CDASH)
 - Trial Design Metadata
 - Definitions
 - Datatypes (ISO 21090)
- Links to controlled terminology (CT) dictionaries via the NCIt (which links to CDISC CT, SNOMED, ICD9, ICD10, UMLS, etc.)
- Implementation instructions
- Links to analysis concepts.



SHARE MDR Framework

Other External Resources (e.g. value Sets)

Versioned Standards

Operational Collections

Research Concepts

Integrated BRIDG / ISO 21090
Templates

BRIDG

ISO 21090 data types A Versioned Standard is comprised of a set of Operational Collections and associated variables and rules for a specific use case (e.g., SDTM, CDASH)

An Operational Collection is a grouping of Research Concepts. There may be additional rules between objects within the Operational Collection. An Operational Collection may be analogous with a SDTM Domain, a CRF, an ADaM data set, or a similar level of operational structure.

Basic elements that are the foundation for the content described in the SHARE repository. A Research Concept defines one or more related pieces of clinical data, which is developed using an Integrated BRIDG / ISO 21090 Template.

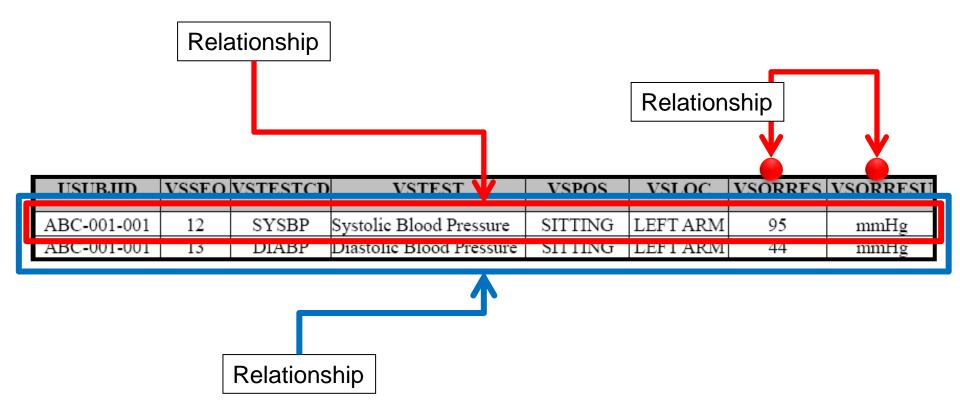
Integrated BRIDG / ISO 21090 Templates use BRIDG classes and relationships to fashion small re-usable patterns that are commonly needed in clinical research

BRIDG is the foundation model for SHARE that provides classes, attributes and associations use to creates core building blocks.



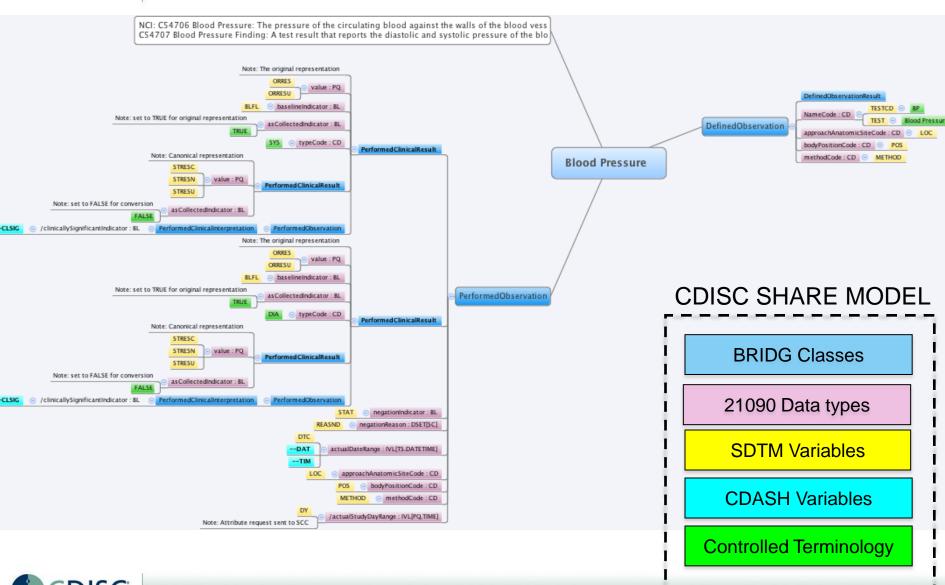
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SHARE - Describes the Links between the Metadata

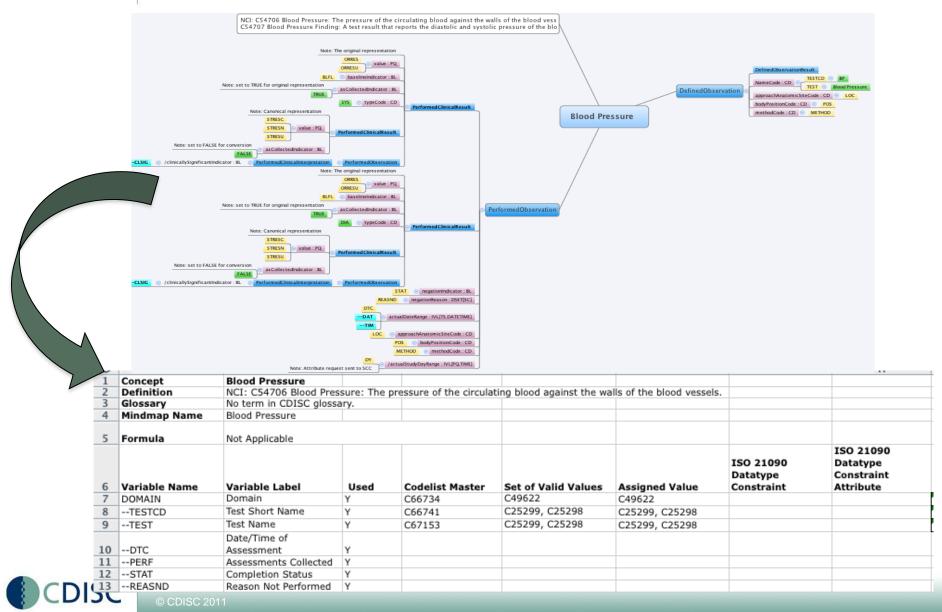




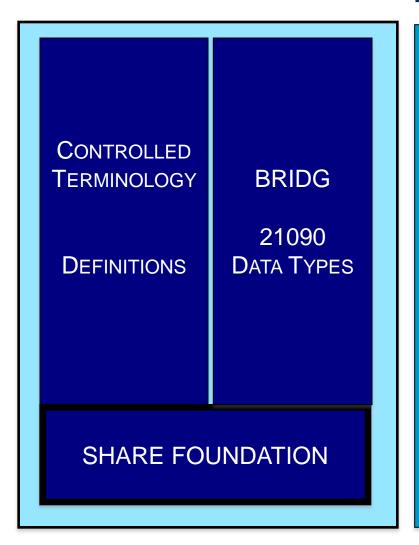
The CDISC SHARE MODEL



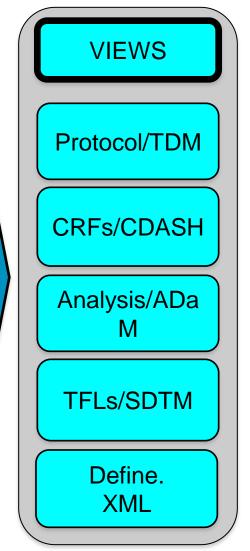
Content Mapping



SHARE Concept-Based View



SHARE CONCEPTS (E.G. BLOOD PRESSURE)



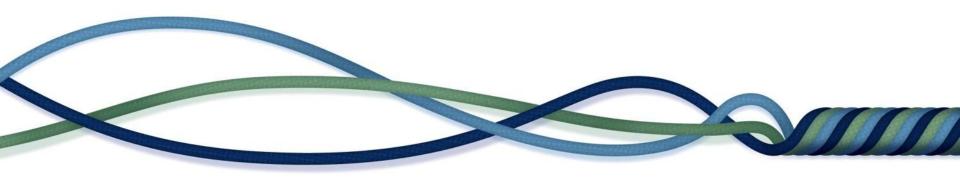
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SHARE Status Update

- RFI issued in August 24 responses; 10 short-listed
 - Software vendors, academics, system integrators
- Draft RFP due to be released in December targeting a decision by Q1 2013
- Updated business requirements will soon be posted on CDISC website
- Currently exploring additional partnership and funding options.
- Goal is to have a release 1 prototype environment in initial use by end of 2013.



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Strength through collaboration.

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