



Project Charter: Modeling Tools for Healthcare

Prepared jointly by:

Veterans Health Administration (VHA)

IBM Corporation



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Project Mission

- Promote interoperability and shared artifacts between related healthcare standards and standards organizations, including HITSP, HL7, X12 and NCPDP
- Enable healthcare SDOs and implementers to develop localized specifications derived from information and behavioral models
- Deliver a common modeling framework and tools that support seamless integration of design, publication, and runtime artifact creation

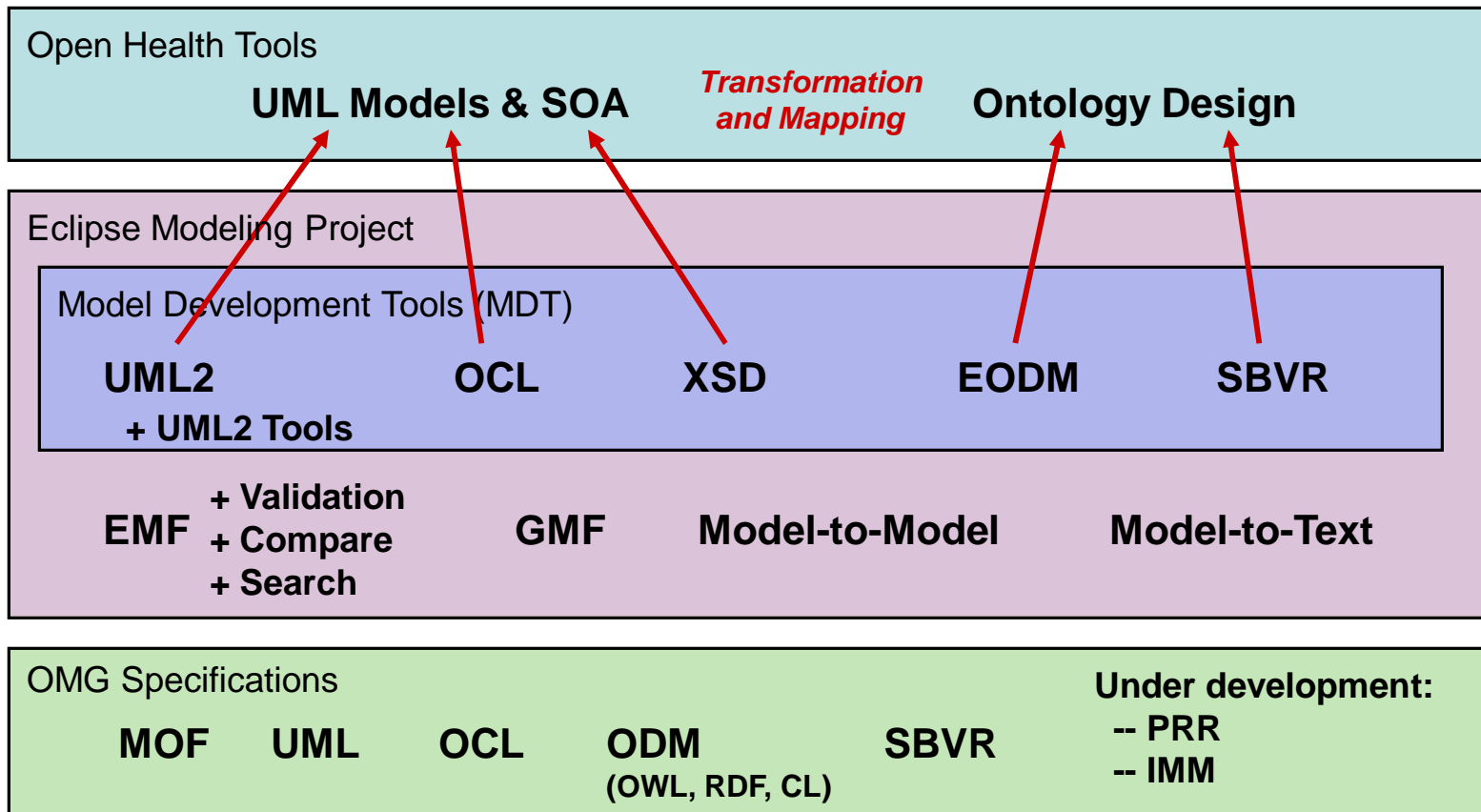


Project Mission (continued)

- Use modeling languages based on adopted industry standards, especially those from the OMG, including:
 - w Unified Modeling Language (UML)
 - w Ontology Definition Metamodel (ODM) that includes RDF and OWL
 - w Semantics of Business Vocabulary and Business Rules (SBVR)
- Maintain a close working relationship with the Eclipse Model Development Tools (MDT) project
 - w Use open source implementations of metamodels for adopted modeling languages
 - w Deliver *modeling extensions and tooling extensions* for healthcare applications



Built on Eclipse and OMG Standards





Project Scope and Contributions

- Two major groups of users
 - w Standards development organizations (SDOs)
 - w Organizations that use or implement the standards produced by the SDOs
- Contributions
 - w **Domain Models** – Enable the creation and distribution of semantic models representing standardized healthcare data definitions
 - w **Behavioral Models** – Enable the creation and distribution of behavioral models representing standardized healthcare message interactions, process flows, and service interfaces
 - w **Model Validation** – Validate the semantic content of healthcare models. Validation technologies may include the following:
 - § Eclipse EMF validation framework used to develop and execute validation constraints
 - § Reasoning engines, such as OWL Description Logics, to validate model consistency
 - § Other validation technologies as appropriate for each modeling language
 - w **Code Generation** – Enable transformation of the healthcare models to platform-specific representations used to generate implementation artifacts
 - w **Service Oriented Architecture** – Enable definition of SOA services and generation of SOA implementation artifacts



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Project Plan

- Phase 1

- w Contribute and release UML tools developed by VHA

- § See project plan for detailed plan items

- § Milestone 1 -- 30 June 2008

- § Future milestones coordinated with OHT plans

- Phase 2

- w Semantic model design tools

- § Milestones and deliverables TBD by community