

# CDS Consortium Overview



# Overview

## Clinical Decision Support Consortium (CDSC)

- Base Year One and Two: March 2008 – June 2010
- Optional Year One: July 2010 – July 2011
- Optional Year Two: July 2011 – July 2012
- Optional Year Three: July 2012 – July 2013

## Participating Organizations:

- Started from 11 entities
- Currently includes 32 organizations
  - 8 healthcare institutions
  - 10 academic institutions
  - 14 vendors

AHRQ contract HHSA290200810010

<http://www.partners.org/cird/cdsc/>

# Clinical Decision Support Consortium



MAYO CLINIC



SIEMENS

MITRE



The University of Utah  
Health Sciences



OpenCDS



PHILIPS  
sense and simplicity



newMentor  
accenture



Main Line Health  
Well ahead.®

GEISINGER

VANDERBILT UNIVERSITY  
MEDICAL CENTER



INTERSYSTEMS

Truven Health™  
**MICROMEDEX® SOLUTIONS**  
The Industry Standard for Clinical Decision Support



Mount Sinai  
MEDICAL CENTER

# CDSC Goal and Significance

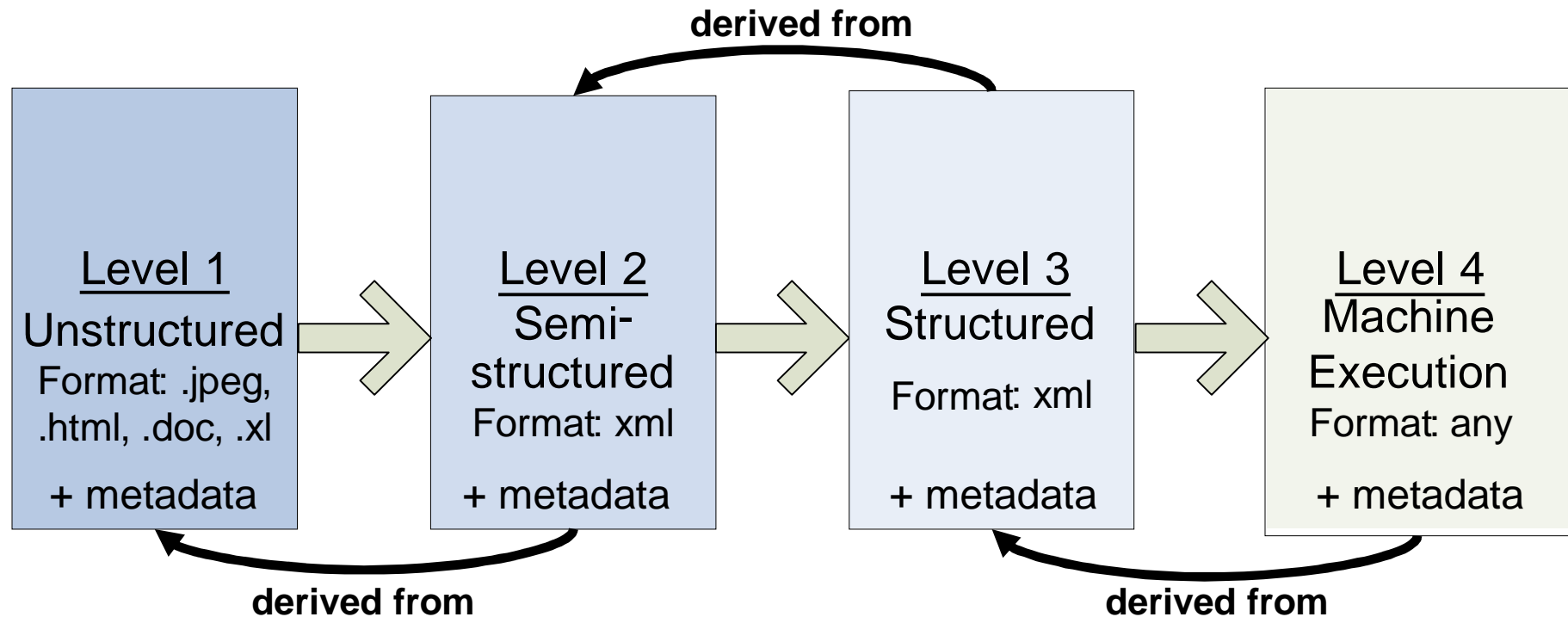
- **Goal:** To assess, define, demonstrate, and evaluate best practices for knowledge management and clinical decision support in healthcare information technology at scale – across multiple ambulatory care settings and EHR technology platforms.
- **Significance:** The CDS Consortium will carry out a variety of activities to improve knowledge about decision support, with the ultimate goal of supporting and enabling widespread sharing and adoption of clinical decision support.

1. Knowledge Management Life Cycle		
2. Knowledge Specification	3. Knowledge Portal and Repository	4. CDS Public Services and Content
5. Evaluation Process for each CDS Assessment and Research Area		
6. Dissemination Process for each Assessment and Research Area		

# Guidelines To Implement

- Diabetes Mellitus
  - 2007 Diabetes Management Standards of Care from the Clinical Practice Recommendations of the American Diabetes Association.
- Coronary Artery Disease
  - American College of Cardiology's guideline on Antiplatelet Therapy Prescribed for Patients with Coronary Artery Disease
  - U.S. Preventive Services Task Force recommendation on Aspirin for the Primary Prevention of Cardiovascular Events
- Hypertension
  - U.S. Preventive Services Task Force recommendations on Screening for High Blood Pressure
- Immunization
- Others

# Four-Layer Knowledge Model





# CDSC KM Portal

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http://stage-cdsportal.partners.org/CDSCSearch.aspx

Search W M + S Sidewiki Bookmarks Check Translate >>

**CDS** Knowledge Management Portal **AHRQ**

Home About the Portal About the Consortium FAQ Glossary Terms of Use Contact Us

**Search Term :**

**Specification Level:**

All Levels  
Level 1 - Unstructured  
Level 2 - Semi-Structured

**Contributing Entity:**

All Contributing Entities  
GE Healthcare  
Kaiser Permanente Northwest

**Content Type:**

Alert  
All Content Types  
Definition/Dictionaries

**Clinical Domain:**

Aerospace Medicine  
All Clinical Domain  
Allergy and Immunology  
Anesthesiology  
Audiology

**Intended Recipient Role:**

All Roles  
Nurse  
Patient

**Clinical Information System:**

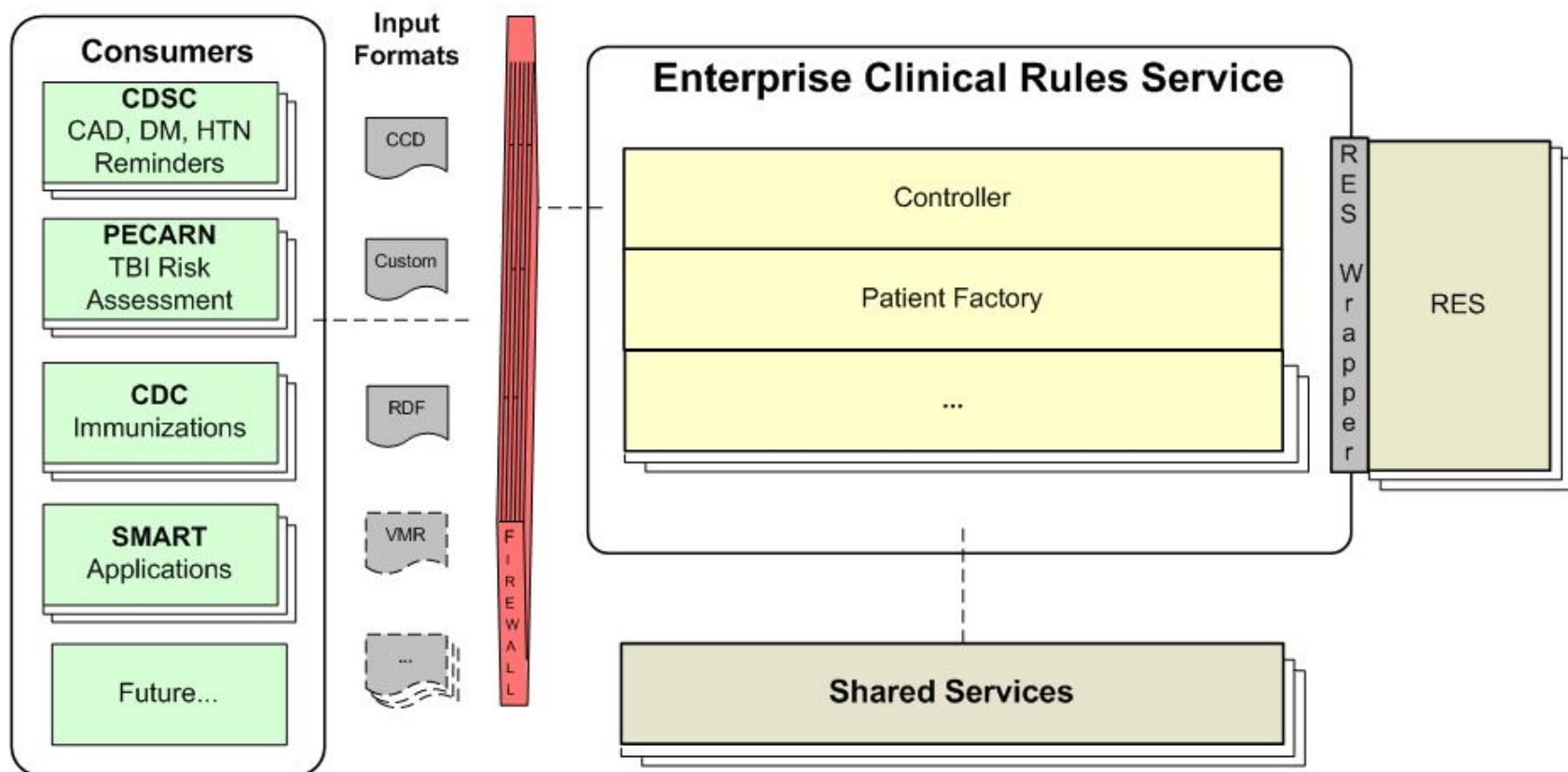
All Clinical Info Systems  
GE  
Meditech

**Patient Population:**

Adolescent  
Adult  
All Patient Population

**Date From:**   **Date To:**

# ECRS Architecture





# CDSC Key Milestones/Accomplishments

- Conducted a broad and deep ethnographic study of CDS.
- Developed a practical four-layered knowledge representation and Knowledge Authoring Tool
- Developed and launched a web-based Knowledge Management Portal
- Constructed and tested a web-based CDS service, and integrated it into electronic health records from Partners HealthCare, the Regenstrief Institute, NextGen, and Epic.
- Devised an innovative measurement model for CDS
- Built a robust clinical content governance and editorial process
- Developed a framework of legal agreements to support knowledge sharing and CDS services
- Authored recommendations regarding clinical decision support to a variety of audiences
- <http://www.partners.org/cird/cdsc/>

# Acknowledgements

**Principal Investigator:** Blackford Middleton, MD, MPH, MSc (3/2008 – 2/2013)

Adam Wright, PhD (2/2013 – 7/2013)

**CDSC Team Leads:**

**Research Management Team:** Lana Tsurikova, MSc, MA

**KMLA/Recommendations Teams:** Dean F. Sittig, PhD

**Knowledge Translation and Specification Team:** Aziz Boxwala, PhD

**KM Portal Team:** Tonya Hongsermeier, MD, MBA

**CDS Services Team:** Howard Goldberg, MD

**CDS Demonstrations Team:** Adam Wright, PhD

**CDS Dashboards Team:** Jonathan Einbinder, MD

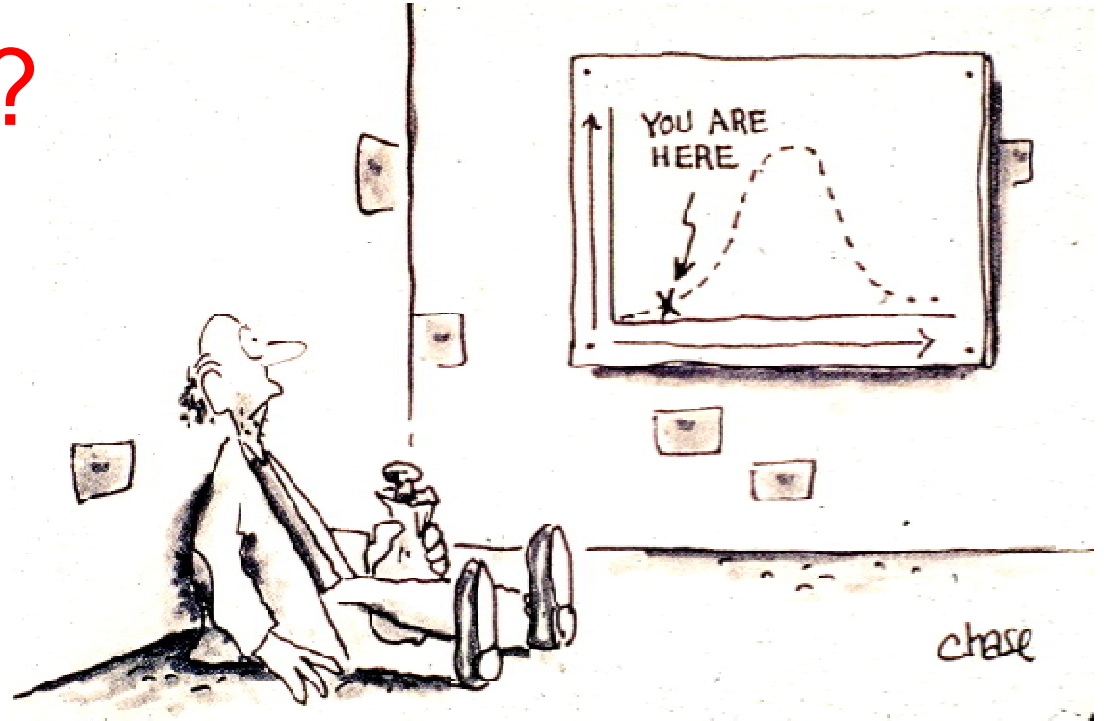
**CDS Evaluation Team:** David Bates, MD, MSc

**Content Governance Committee:** Saverio Maviglia, MD, MSc

# Where are we?

*“I conclude that though the individual physician is not perfectible, the system of care is, and that the computer will play a major part in the perfection of future care systems.”*

*Clem McDonald, MD NEJM 1976*



**Lana Tsurikova, MSc, MA**

[rtsurikova@partners.org](mailto:rtsurikova@partners.org)

[www.partners.org/cird/cdsc](http://www.partners.org/cird/cdsc)