

Quality Measure Essential Components Tiger Team

Kick-off Call

Jim Walker, Chair

April 3, 2012 - 11:30a-12:30p/Eastern

Tiger Team Membership

CHAIR

Jim Walker

Geisinger Health System

MEMBERS

Keith W. Boone

GE Healthcare

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Mayo Clinic

Jason Colquitt

Greenway Medical

Floyd Eisenberg

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Health Language, Inc.

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Veracity Solutions

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Kaiser Permanente

Gene Nelson

Dartmouth University

Federal Ex Officio

Aneel Advani, Indian Health Service

Staff

Jacob Reider, ONC

Jon White, AHRQ

Kevin Larsen, ONC

Kate Goodrich, CMS

Dana Womack, ONC Contractor

The Essential Components Tiger Team will focus on identifying essential components of high quality clinical quality measures.

Includes (but is not limited to) discussion of value sets, standard terminologies, and the technical & custodial requirements for creation, sharing and maintenance of these components.

The Recipe



The Recipe

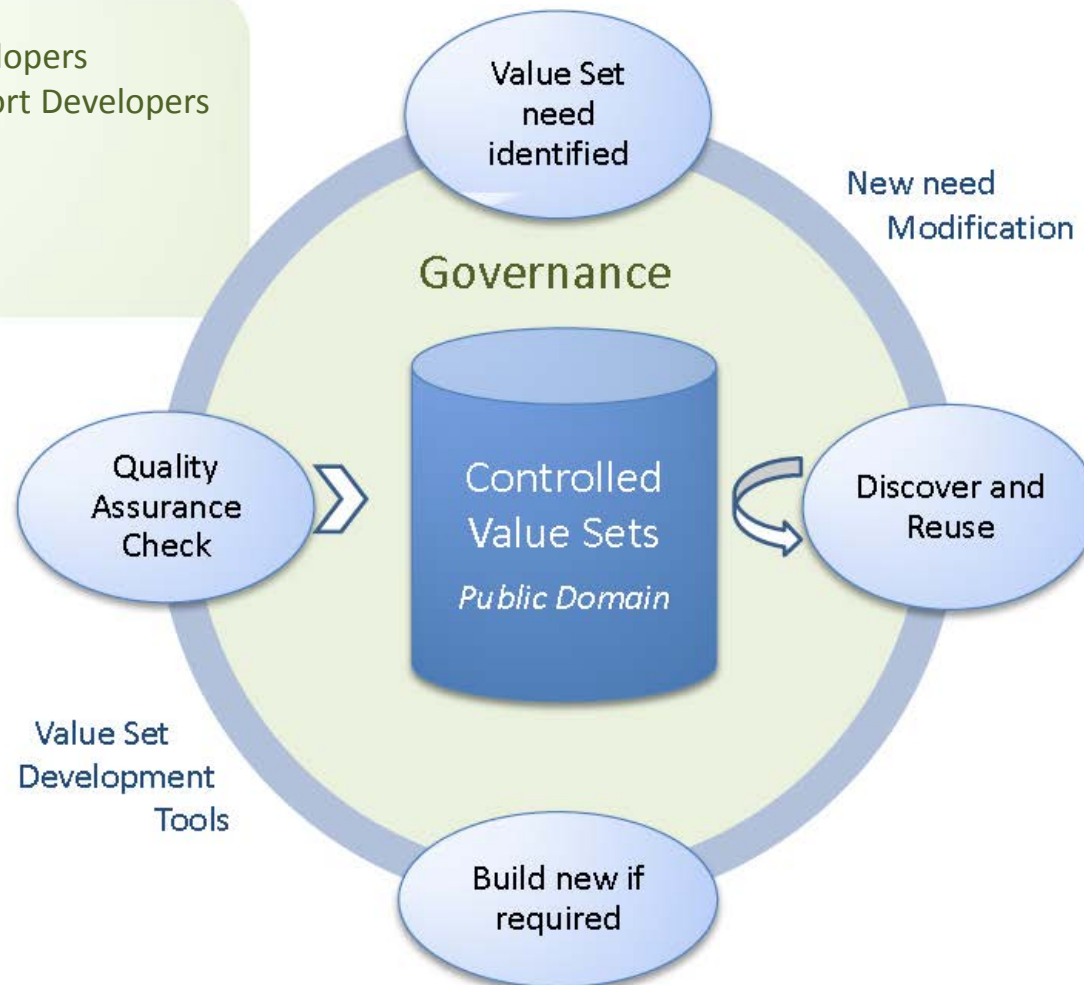


Vision: Value Set Creation

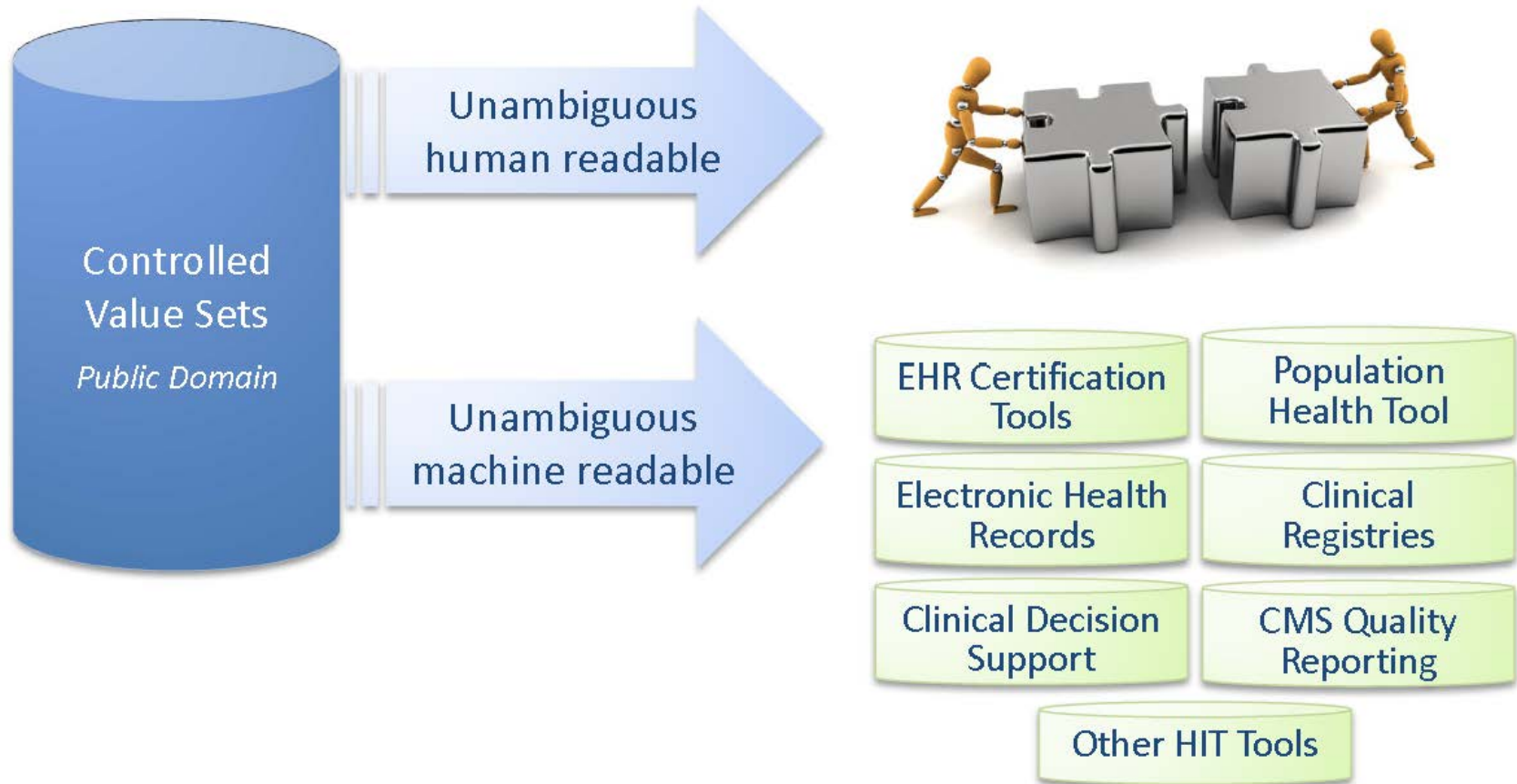
Speaker's Notes: Mechanisms for governance and quality assurance; Unambiguous communication and version control; Freely available for use as building blocks; Discoverability to support reuse; Authoritative source to support harmonization; Automated update notifications; Automated machine consumption

Key Stakeholders

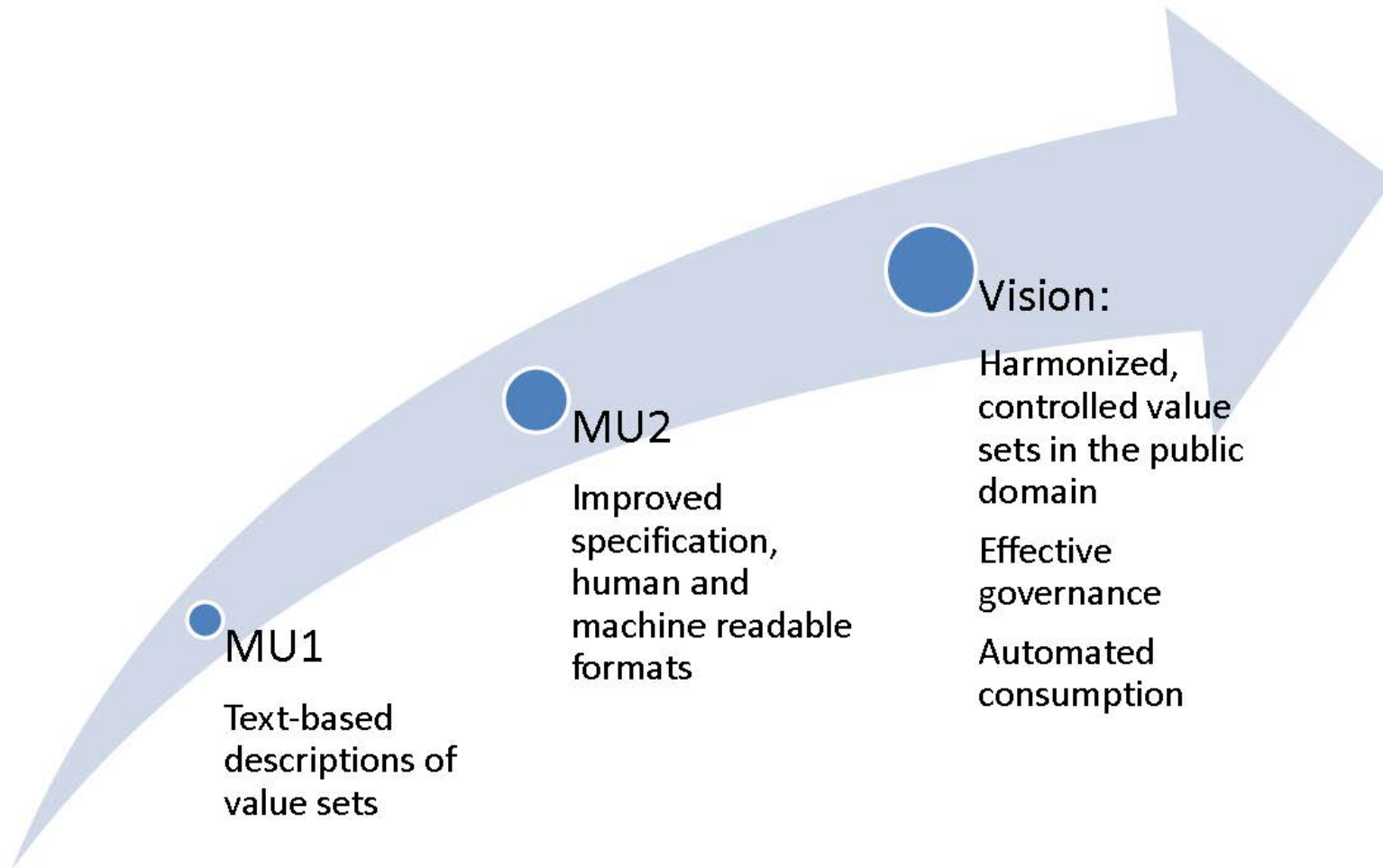
Quality Measure Developers
Clinical Decision Support Developers
Clinical Researchers
Provider Organizations
Health IT Vendors
Others



Vision: Value Set Distribution



Value Set Progression



- Value Set Evolution
 - Review value set challenges & opportunities
 - Identify / validate desired value set characteristics
- MU2 Value Set Readiness
 - Review current state of recommended MU2 value sets
 - Recommend value set activity to prepare for MU2

People

- Usable, useful value set development tools needed
- Difficult to discover and reuse value sets

Process

- Local interpretation of value set descriptions is required
- Consistent quality assurance check does not exist
- Duplicate and near-duplicate value sets exist

Technology

- Inconsistent content and format
- Need automated consumption rather than hard coding of value sets in HIT applications

Valid

- Valid codes, matching descriptors, associated with correct vocabulary
- Accurate code-based representations of well defined concepts

Unambiguous

- Consistent documentation
- Version controlled
- Accommodate proxy codes / inferred diagnoses

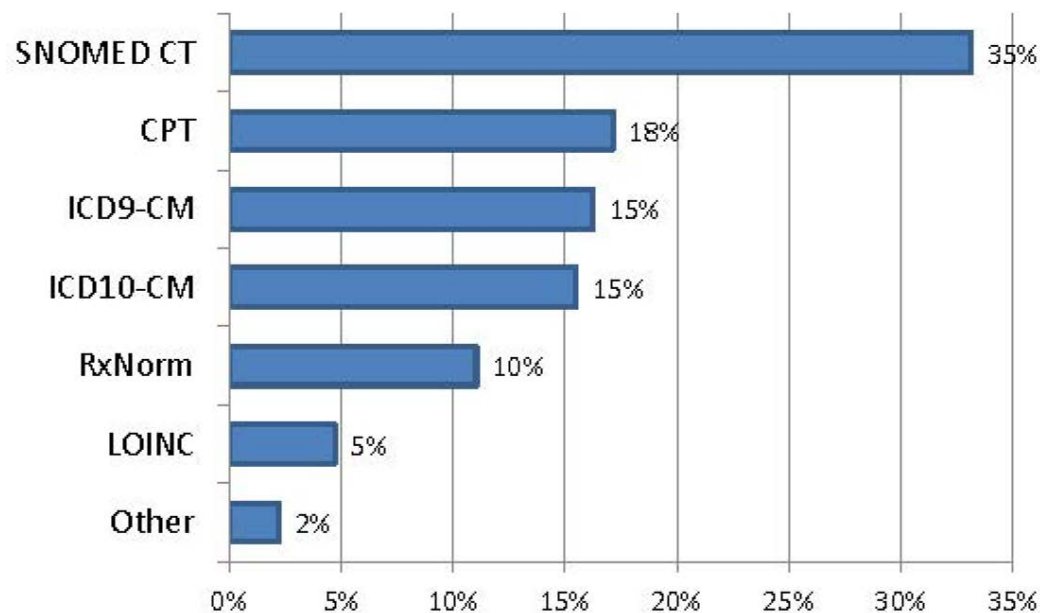
Harmonized

- Support discovery and reuse
- Facilitate standardization in measurement

Human & Machine readable

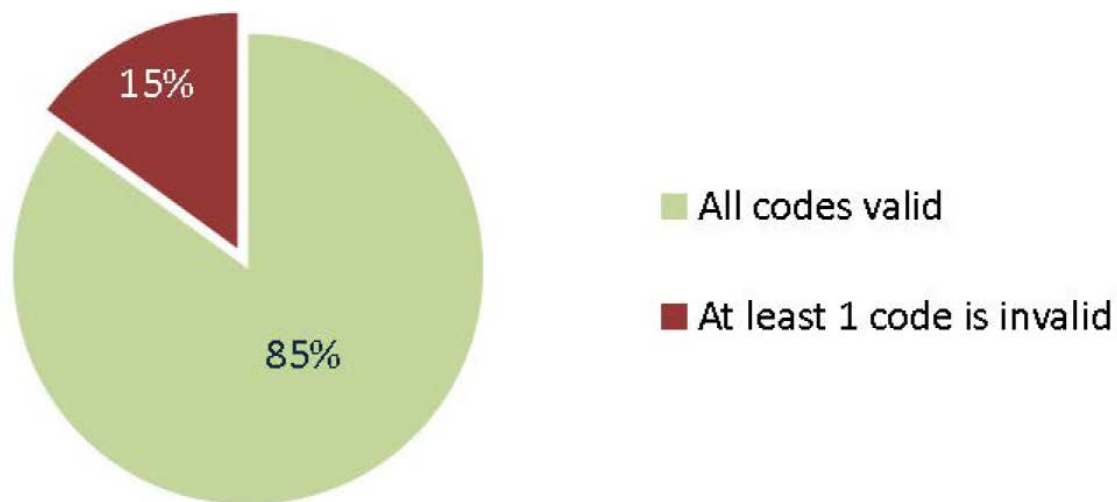
- Formats for consideration: Spreadsheet, database, XML, web service

Vocabularies Used in Value Sets*



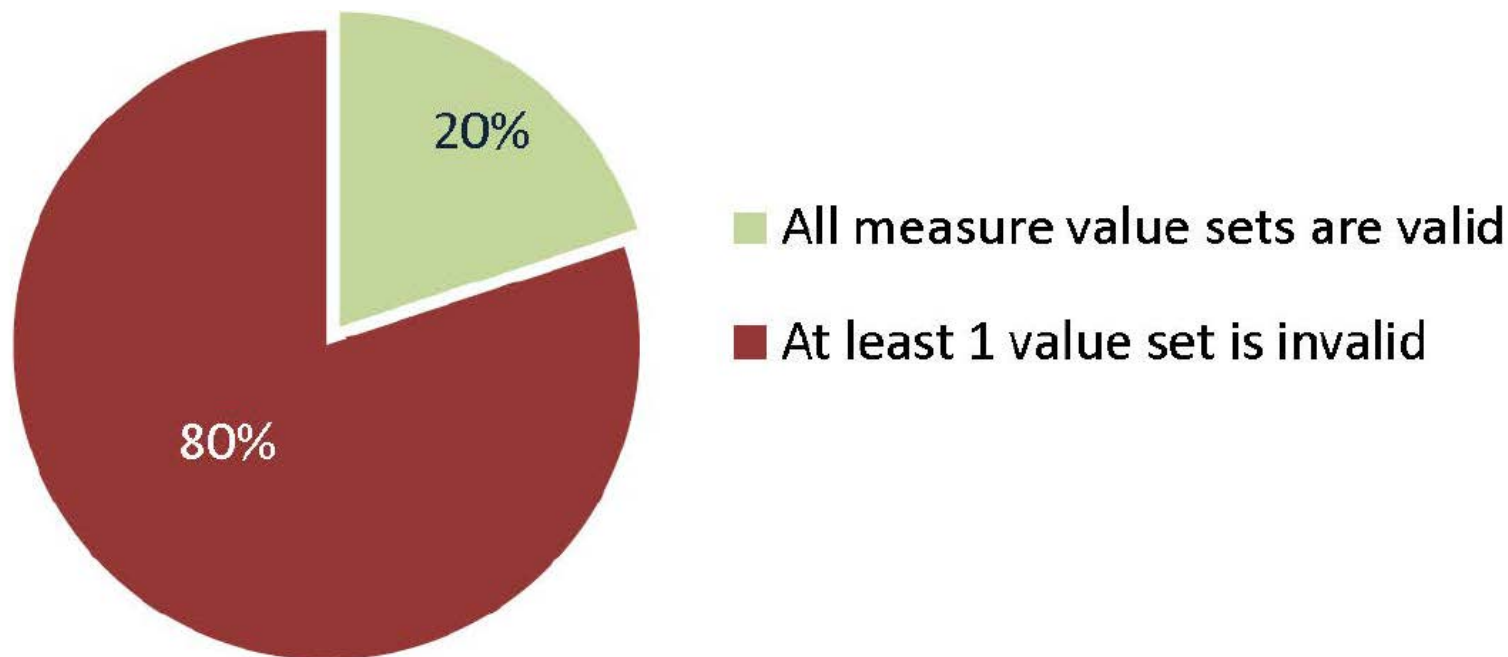
* NLM analysis of 850 value sets recommended for inclusion in MU2

Value Sets* affected by Invalid Vocabulary Codes



* NLM analysis of 850 value sets recommended for inclusion in MU2

Quality Measures* affected by Invalid Value Sets



* NLM analysis of 70 quality measures recommended for inclusion in MU2

Pairwise Comparison of Value Sets*

Duplicates

- *20 pairs of value sets contain exactly the same codes*

Near-Duplicates

- *Other pairs of value sets exhibit a high degree of similarity and would benefit from review.*

* NLM analysis of 800 value sets recommended for inclusion in MU2

Need better support tools

- Formatting issues – e.g. trailing zeros trimmed
- Truncated terms

Lack of an update model

- Stale codes related to terminology evolution

Operator Error

- Vocabulary system inconsistent with code
- Code name inconsistent with code number
- Typos

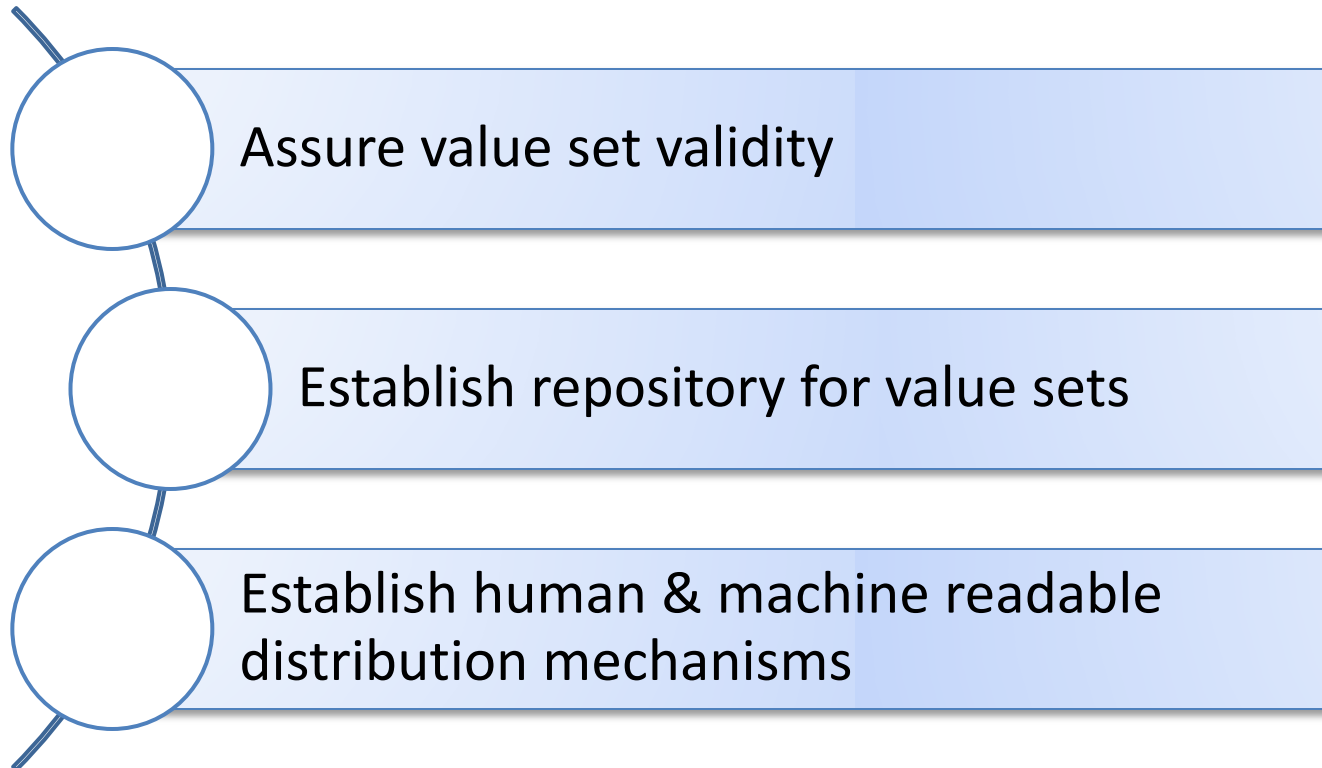
IP/Licensing

- Incomplete information (CPT code names missing)

Activity to support MU2

Speaker's Notes:

ASSURE VALIDITY OF MU2 QUALITY MEASURE VALUE SETS - Validity check to ensure that : Code exists, Code matches Vocabulary name and version, Code matches code descriptor/name; Assume semantic accuracy ; Entity charged with validity checking will create tools to support value set quality assurance
ESTABLISH REPOSITORY FOR MU2 VALUE SETS - Entity charged with validity checking will develop a value set repository, based on the IHE Shared Value Set profile
DISTRIBUTE IN HUMAN AND MACHINE CONSUMABLE FORMATS - Web page publication; Downloadable database, spreadsheets, XML; Web service



Discussion