

# Exploring HL7® FHIR® to Reduce Burden for Quality Measurement

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Prepared

**MITRE**

SOLVING PROBLEMS  
FOR A SAFER WORLD

**In 2018, MITRE delivered an electronic clinical quality measure (eCQM) strategy report to CMS with recommendations on increasing value and reducing burden of quality reporting.**

# eCQM Strategy Project Findings

- **Quality Reporting Data Architecture (QRDA) format has matured, and vendors are now generally able to validate documents**
- **Implementers request more detailed data mapping guidance to ensure that interfaces and data input fields capture quality data**
- **QRDA relies on the Quality Data Model (QDM), which is only used for quality reporting**
- **Clinicians find data collection obtrusive to their workflow and care of the patient**
- **Submitters request real-time feedback on quality data submissions to increase value of quality reporting**

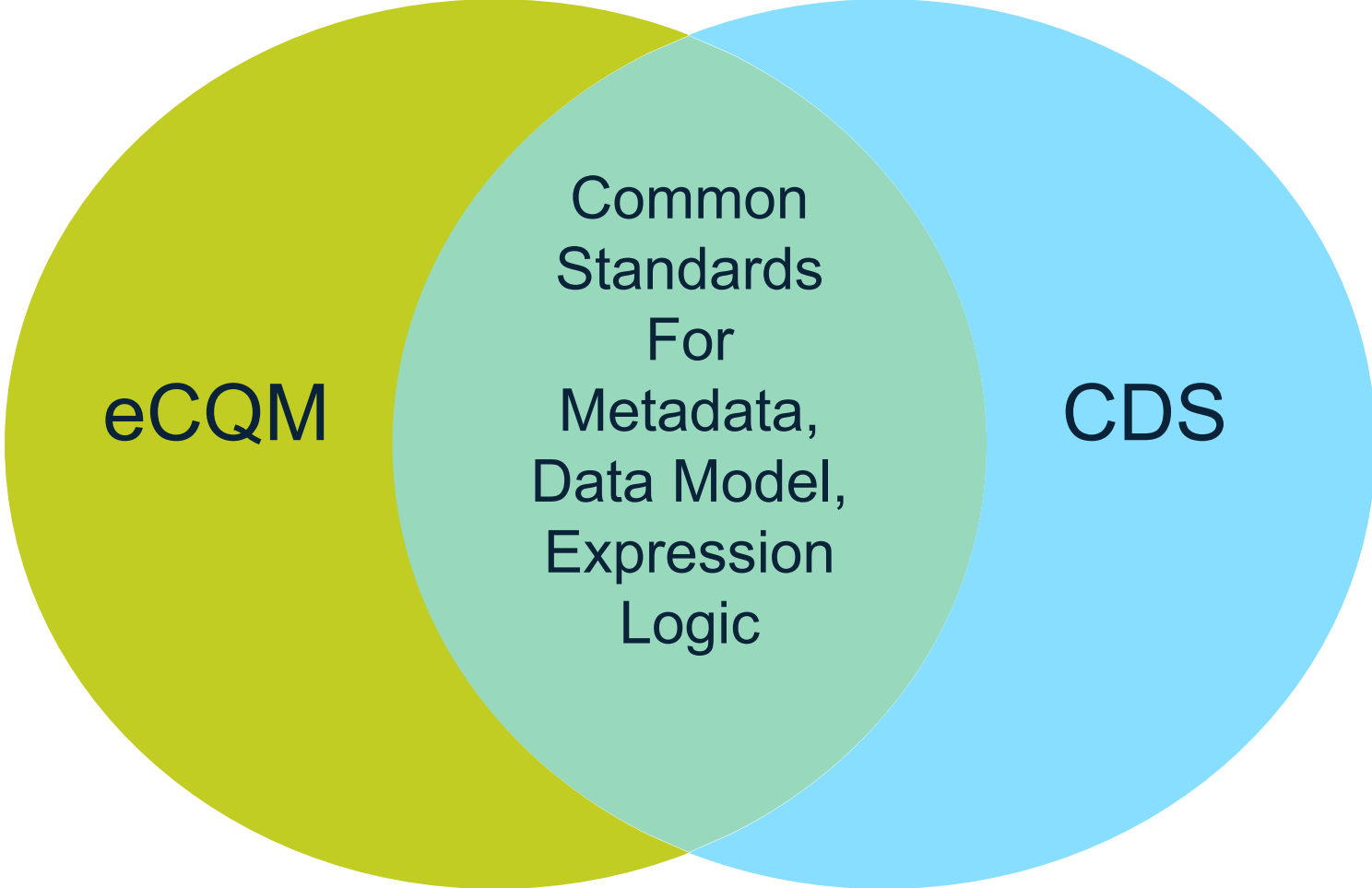
# Benefits of FHIR

1. **Simplify Data Mapping**
2. **Improve Alignment with Clinical Practice**
3. **Streamline Reporting**
4. **Promote Interoperability**

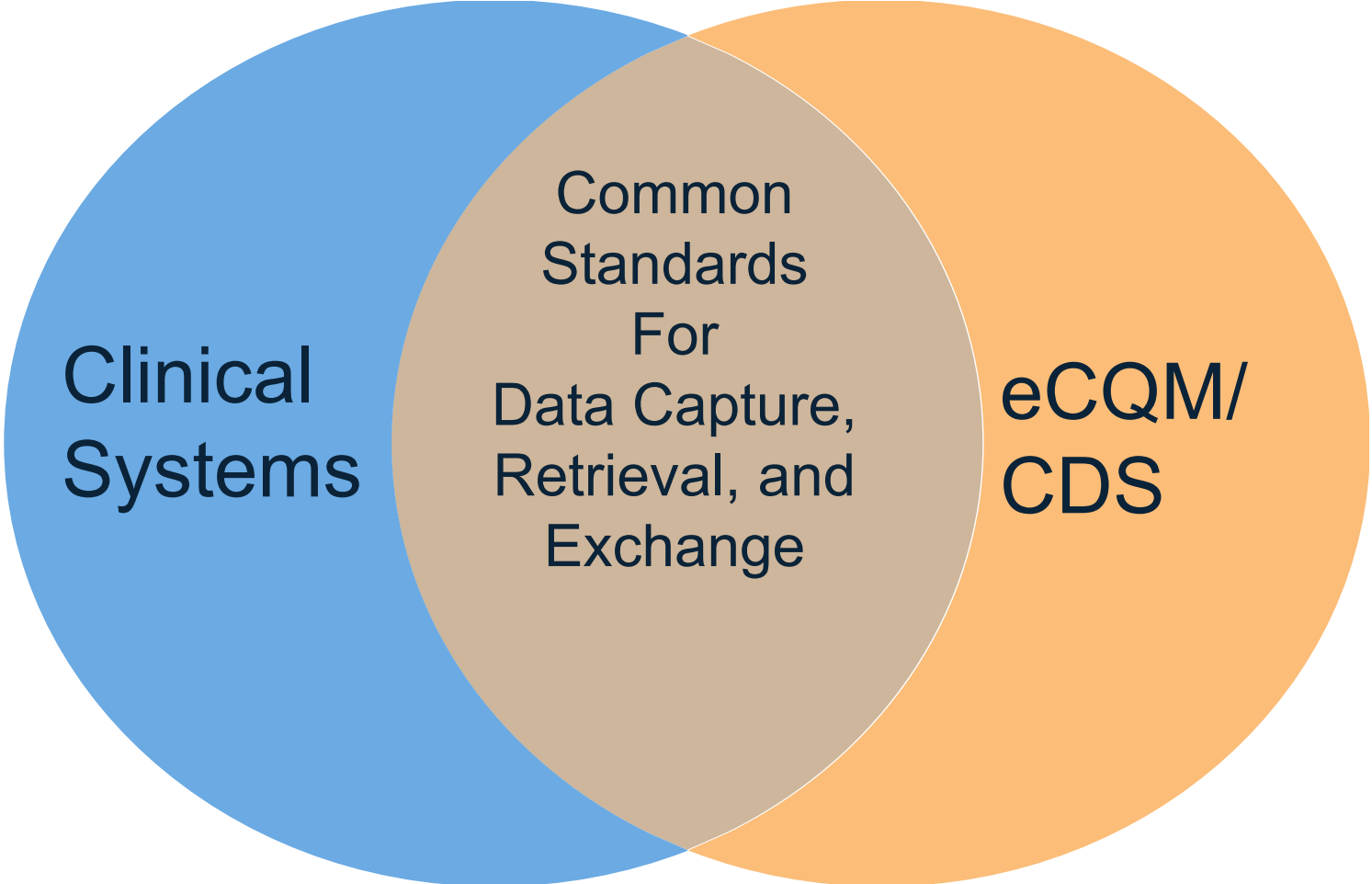
# Simplify Data Mapping

- **QI-Core provides a comprehensive list of resources (clinical data) to allow eCQMs and Clinical Decision Support (CDS) to express criteria for clinical care examples and use cases**
- **Aligns with US Core where possible (e.g. Encounters)**
- **Includes mappings from QDM to enable transition of existing quality measures**
- **Adds additional constraints and extensions commonly used in quality measurement**

# Improve Alignment with Clinical Practice



# Improve Alignment with Clinical Practice



# Streamline Reporting

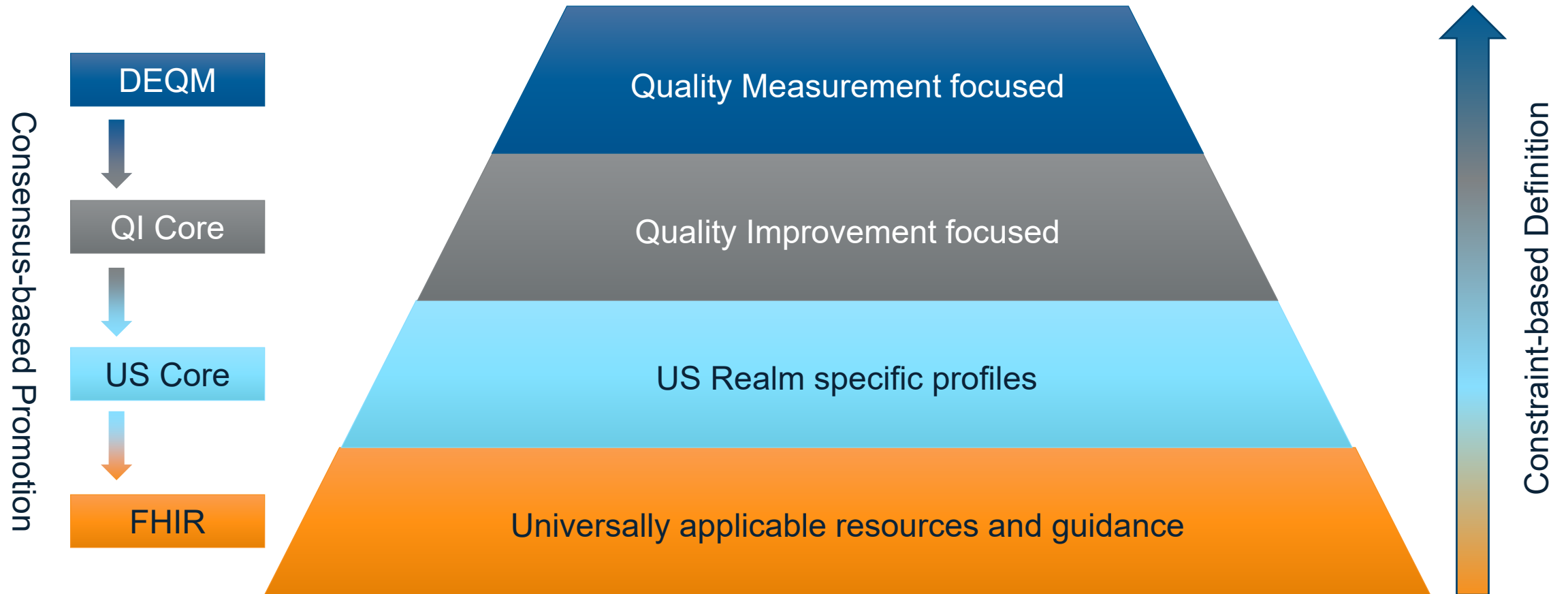
## Data Exchange for Quality Measures (DEQM)

- Developed by the Da Vinci Project
- Defines FHIR operations to exchange clinical quality data

<u>Operation</u>	<u>Description</u>
<b>\$evaluate-measure</b>	Calculation results for a single measure as a MeasureReport
<b>\$data-requirements</b>	List of data of interest for the quality measure as a Library
<b>\$submit-data</b>	Submit a MeasureReport resource
<b>\$collect-data</b>	Collect data of interest for measure contained in FHIR server as a MeasureReport



# Promote Interoperability



# Current Activities

- **Quality Reporting Pilots**
- **Measure Development & Testing**
- **Standards Refinement**
- **Connectathons**

**Please join the DEQM use case team or Clinical Quality Information (CQI) working groups to learn more and participate.**

- **DEQM – Thursdays 3:00-4:00pm ET**
- **CQI – Fridays 1:00-3:00pm ET**

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