

# Achieving Meaningful Use Quality Measures

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# My Definition of Meaningful Use

Processes and workflow that facilitate improved quality and increased efficiency

# Standards Harmonization Roadmap

## AHIC Priorities and Use Case Roadmap

2006	2007 Use Cases		2008 Use Cases		2009 Use Case
<b>Consumer Empowerment</b> <ul style="list-style-type: none"> <li>• Registration</li> <li>• Medication History</li> </ul>		<b>Consumer Access to Clinical Information</b> <ul style="list-style-type: none"> <li>• Access to Clinical Data</li> <li>• Provider Permissions</li> <li>• PHR Transfer</li> </ul>	<b>Remote Monitoring</b> <ul style="list-style-type: none"> <li>• Remote Monitoring of Vital Signs and Labs (Glucose)</li> </ul>	<b>Patient – Provider Secure Messaging</b> <ul style="list-style-type: none"> <li>• Structured email</li> <li>• Reminders</li> </ul>	<b>Newborn Screening</b>
<b>EHR (Lab)</b> <ul style="list-style-type: none"> <li>• Laboratory Result Reporting</li> </ul>	<b>Emergency Responder EHR</b> <ul style="list-style-type: none"> <li>• On-Site Care</li> <li>• Emergency Care</li> <li>• Definitive Care</li> <li>• Provider Authentication and Authorization</li> </ul>	<b>Medication Management</b> <ul style="list-style-type: none"> <li>• Medication Reconciliation</li> <li>• Ambulatory Prescriptions</li> <li>• Contra-indications</li> </ul>	<b>Consultations and Transfers of Care</b> <ul style="list-style-type: none"> <li>• Referrals</li> <li>• Problem Lists</li> <li>• Transfer of Care</li> </ul>	<b>Personalized Healthcare</b> <ul style="list-style-type: none"> <li>• Laboratory Genetic / Genomic Data</li> <li>• Family Medical History</li> </ul>	<b>2009 Use Case Ext/Gaps</b>
<b>Biosurveillance</b> <ul style="list-style-type: none"> <li>• Visit</li> <li>• Utilization</li> <li>• Clinical Data</li> <li>• Lab and Radiology</li> </ul>		<b>Quality</b> <ul style="list-style-type: none"> <li>• Hospital Measurement and Reporting</li> <li>• Clinician Measurement and Reporting</li> <li>• Feedback to Clinicians</li> </ul>	<b>Public Health Case Reporting</b> <ul style="list-style-type: none"> <li>• Case Reporting</li> <li>• Bidirectional Communication</li> <li>• Labs</li> <li>• Adverse Events</li> </ul>	<b>Immunizations &amp; Response Management</b> <ul style="list-style-type: none"> <li>• Resource Identification</li> <li>• Vaccine</li> <li>• EHR Data</li> </ul>	<b>General Laboratory Orders</b>
					<b>Medication Gaps</b>
					<b>Common Device Connectivity</b>
					<b>Clinical Encounter Notes</b>
					<b>Order Sets</b>
					<b>Scheduling</b>
					<b>Common Data Transport</b>
					<b>Consumer Preferences</b>
					<b>Medical Home: Co-Morbidity and Registries</b>
					<b>Maternal and Child Health</b>
					<b>Long Term Care - Assessments</b>
					<b>Prior Auth for Treatment, Payment, &amp; Operations</b>
					<b>Consumer AE Reporting</b>

# HITEP

84 NQF-endorsed AQA/HQA measures require 35 data types

- Asthma
- Cancer screening
- Care coordination
- Diabetes
- End-of-life with advanced organ system failure
- Frailty associated with old age
- Immunization
- Ischemic heart disease
- Major depression
- Medication management
- Pregnancy and childbirth
- Stroke
- Tobacco dependence treatment in adults

# Examples of Data Types

## Demographics

- Content: HL7 2.x for messaging, CCD for document summaries
- Vocabulary: HITSP Harmonized code sets for gender, marital status

## Problem List

- Content: HL7 2.x for messaging, CCD for document summaries
- Vocabulary: SNOMED-CT

## Medications

- Content: NCPDP script for messaging, CCD for document summaries
- Vocabulary: RxNorm and Structured SIG

# Examples of Data Types

## Allergies

- Content: HL7 2.x for messaging, CCD for document summaries
- Vocabulary: UNII for foods and substances, NDF-RT for medication class, RxNorm for Medications

## Progress Notes and Other Narrative Documents (History and Physical, Operative Notes, Discharge Summary)

- Content: HL7 2.x for messaging, CCD for document summaries
- Vocabulary: CDA Templates

## Departmental Reports (Pathology/Cytology, GI, Pulmonary, Cardiology etc.)

- Content: HL7 2.x for messaging, CCD for document summaries
- Vocabulary: SNOMED CT

# Examples of Data Types

## Laboratory Results

- Content: HL7 2.x for messaging, CCD for document summaries
- Vocabulary: LOINC for lab name, UCUM for units of measure, SNOMED-CT for test ordering reason

## Microbiology

- Content: HL7 2.x for messaging, CCD for document summaries
- Vocabulary: LOINC for lab name/observation

## Administrative Transactions (Benefits, Referrals, Claims)

- Content: X12
- Vocabulary: X12, CAQH CORE

# Common Secure Transport

## Privacy and Security

- Transport: HTTPS, SOAP/REST
- Transport Orchestration: WS\*
- Authorization/Access Control: XACML

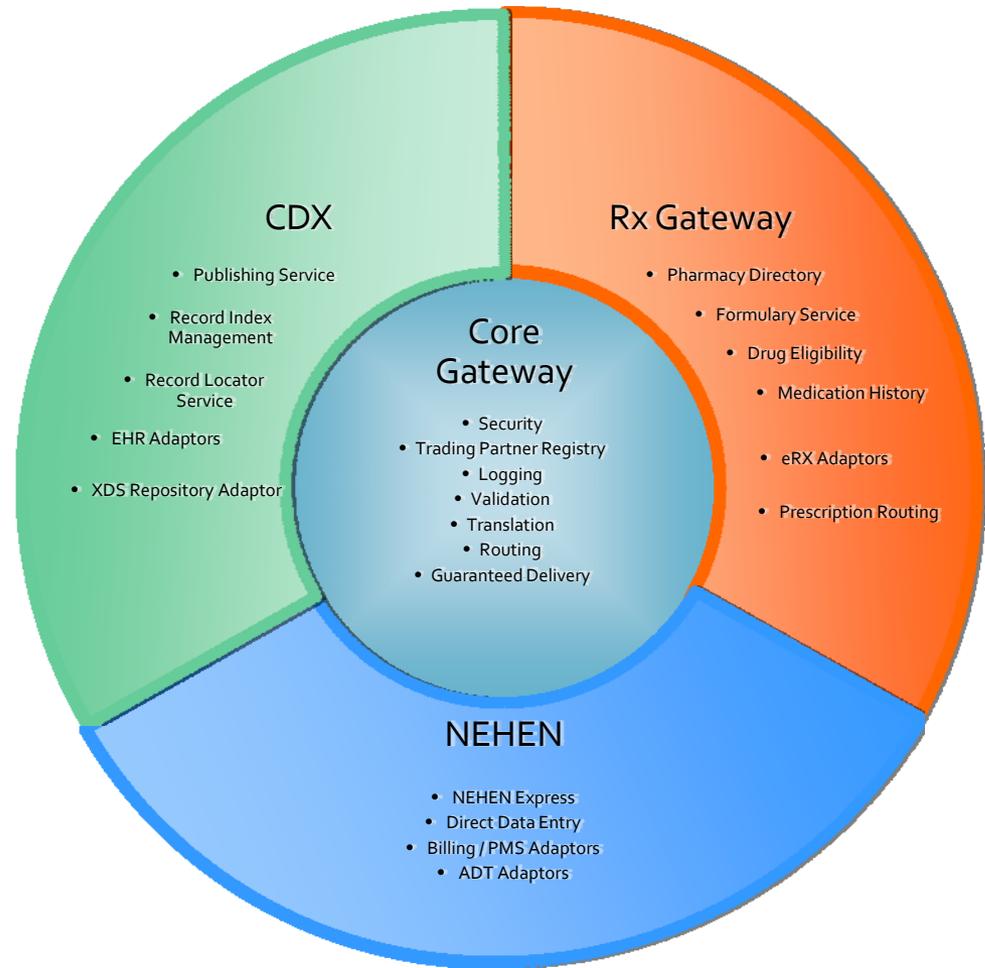
# HITSP Efforts to support ARRA

- ❑ HITSP is focusing the energies of its volunteers, staff, and leadership on standards and tools mandated by the new statutory requirements.
- ❑ HITSP's “accepted” products to date will be leveraged to create new streamlined electronically published standards guides organized around the ARRA EHR interoperability requirements.
- ❑ The end result will be much more compact, easy to implement, and flexible implementation guidance which supports the meaningful use of EHRs and protection of privacy.

# Regional Approaches

Built on a common messaging gateway framework

Placed on the network of each participating institution



# Massachusetts Approach to Data Sharing

- Doctor to Doctor
- Doctor to Hospital/Hospital to Doctor
- Community to Community
- Quality Warehouse
- Provider to Payer

# Summary

- “Meaningful use” is the processes and workflow that facilitate improved quality and increased efficiency
- HITEP has identified the needed data types to measure quality and continues working on minimum quality data sets
- HITSP has harmonized the standards needed to support HITEP and meaningful use of EHRs