

# MA-Share – A sustainable RHIO



June 11, 2007



## The Massachusetts Regional Efforts

- MHDC – The convener and educational organization, the business incubator
- NEHEN – The transactor of community administrative data
- MA-SHARE – The grid of community clinical utilities
- MAeHC – The last mile to the clinician offices for selected communities



## **The Need for a Business Model**

- A Chicken/Egg Problem – Stakeholders will only pay for value received from a live data exchange but building one requires capital**
- Grants are not a business model**
- No one will pay for a public good**
- Incentives must be aligned**
- Best to automate an existing business process and trust relationship**



## The Need for Policies

- **Just like care, trust is local**
- Primary uses of data for clinical care
  - Who authorizes and consents?
  - Who audits and how?
  - Who sanctions and how?
- Secondary uses of data
  - How do we share data for Clinical Research?
  - How do we measure Quality/Outcomes?
  - Where is the data stored and how is it architected?



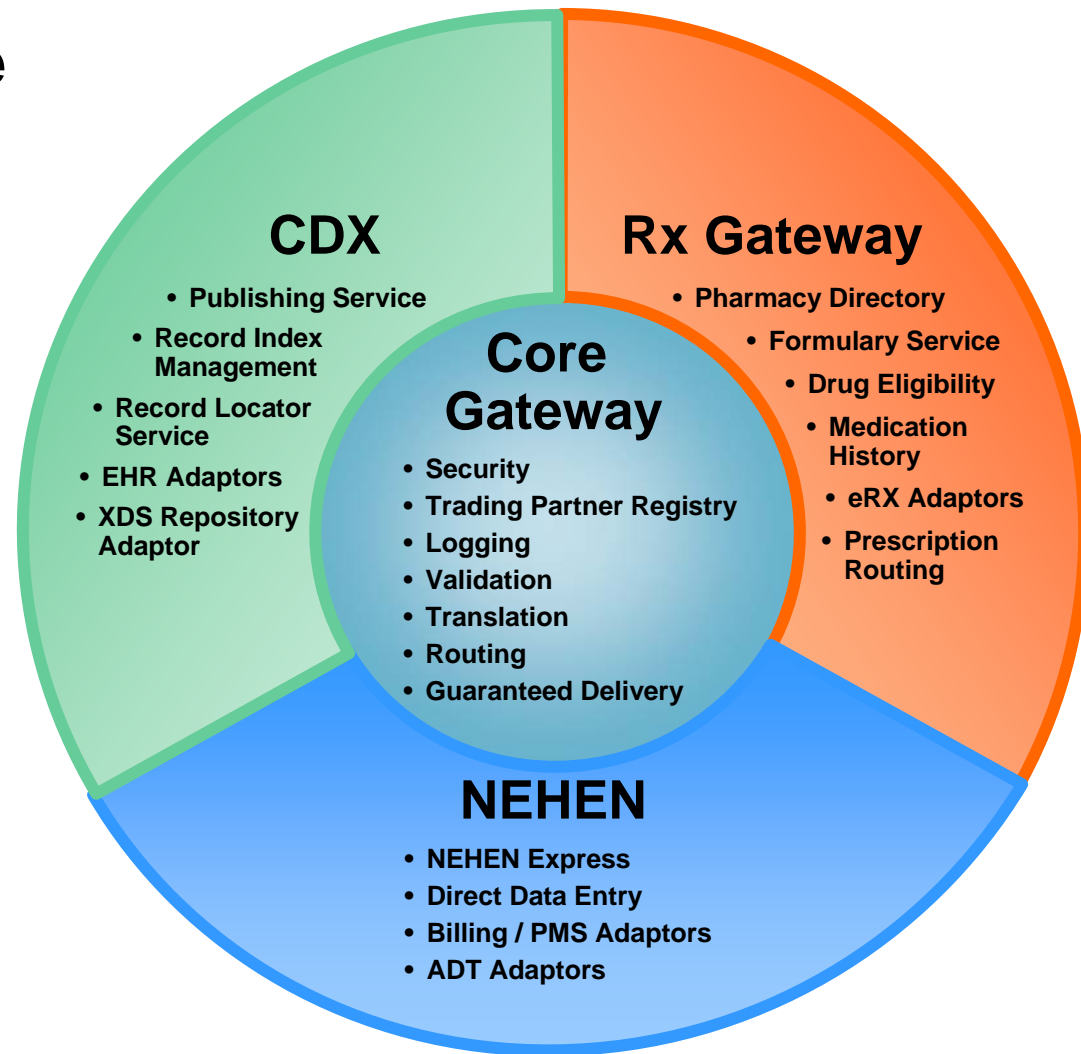
## The Need for Architecture

- **Keep it thin**
- Keep it simple
- No transaction fees
- Successful models thus far are
  - Administrative Data Exchange
  - e-Prescribing
  - Clinical Document Push



# The MA-Share Appliance

- Rx Gateway and other lines of service (Administrative and Clinical Data Exchange) are built on a common messaging gateway framework
- The Rx Gateway Service provides functionality required for all aspects of e-Prescribing
  - New Prescription Delivery
  - Eligibility and Formulary
  - Prescription Renewals
  - Medication History





## Candidate Use Cases

Use Case No.	Sender	Receiver	Information	Work Flow
1	PCP	Specialist	Clinical summary	<ul style="list-style-type: none"><li><input type="checkbox"/> PCP sees patient and refers patient to specialist</li><li><input type="checkbox"/> PCP sends clinical summary to specialist</li><li><input type="checkbox"/> Specialist receives clinical summary</li></ul>
2	Specialist	PCP	Clinical summary	<ul style="list-style-type: none"><li><input type="checkbox"/> Specialist sees patient referred by PCP</li><li><input type="checkbox"/> Specialist sends summary of encounter to PCP</li></ul>
3	Emergency Department	PCP	Clinical summary	<ul style="list-style-type: none"><li><input type="checkbox"/> Emergency Department sees patient</li><li><input type="checkbox"/> Emergency Department sends summary of encounter to PCP</li></ul>
4	Hospital	PCP	Discharge summary	<ul style="list-style-type: none"><li><input type="checkbox"/> Hospital stay is concluded</li><li><input type="checkbox"/> Hospital sends discharge summary to PCP</li></ul>
5	Testing site	PCP	Results	<ul style="list-style-type: none"><li><input type="checkbox"/> PCP orders test</li><li><input type="checkbox"/> Testing site sends results to PCP</li></ul>



## 2007 Connectivity

Org/ Function	Send ED Discharge Summary	Send Hospital Discharge Summary	Receive			
BIDMC	ED Dashboard	webOMR	Fax*	NEHEN Express*	webOMR	eCW
Children's	Cerner Millenium	Cerner Millenium	Fax*	NEHEN Express*	Cerner Millenium	eCW
Lahey	LCMC	LCMC	Email or Fax*	LCMC Portal or NEHEN Express*	LCMC	LCMC
Northeast	MEDITECH	MEDITECH	Fax*	NEHEN Express*	MEDITECH	GE Centricity

\* With optional notification/alert



## 2008 Connectivity

Org/ Function	Send ED Discharge Summary	Send Hospital Discharge Summary	Receive			
BIDMC	ED Dashboard	webOMR	Fax*	NEHEN Express*	webOMR	eCW
Children's	Cerner Millenium	Cerner Millenium	Fax*	NEHEN Express*	Cerner Millenium	eCW
Lahey	LCMC	LCMC	Email or Fax*	LCMC Portal*	LCMC	LCMC
Northeast	MEDITECH	MEDITECH	Fax*	NEHEN Express*	MEDITECH	GE Centricity

\* With optional notification/alert



## IHE Implementation

- NHIN grant and MA-SHARE provided the important funding and intellectual property to jump start GE and Boston Medical Center
- In late May, functionality was demonstrated to physicians and received very positive feedback.
- We expect to be live in the Fall.

## Summary

- MA-Share is now financially sustainable
- All work is focused on projects which have high value to our community stakeholders
- The appliance is converging to support our various needs for data exchange