Health Information Technology Council
May Meeting

May 6, 2013
3:30-5:00 P.M.

One Ashburton Place, 21st Floor, Boston
Today’s Agenda:

1. Meeting Minutes approval [5 min]

2. Mass HIway Implementation Updates
   a) Network Health/Tufts Medical Center [25min] – Peter Bristol, Bill Shickolovich, Phill Argyis
   b) Beth Israel Deaconess Medical Center [15min] – John Halamka

3. Mass HIway Update
   a) Outreach & Sales Update [10min] – Sean Kennedy
   b) Implementation & Support Update [10min] – Manu Tandon
   c) Phase 2 Update [5min] – Manu Tandon

4. HIE Strategic & Operational Plan Update [10min] – Sean Kennedy

5. Wrap up and next steps [10 min] – Manu Tandon
Discussion Item 1:
Mass HIway Implementation Updates – BIDMC, Network Health and Tufts Medical Center
Network Health & Tufts Medical Center
Investing in HIE – Mass HIway Status
About Network Health

• A statewide Medicaid Managed Care Organization (MCO) providing coverage to ~225,000 enrollees in Mass Health and Comm Care.

• 500 employees based out of our Medford headquarters, many of whom are social workers, nurses, and behavioral health professionals.

• Provides integrated care management services to our enrollees, which support and augment care delivered by our provider and hospital partners.

• Heavily invested in analytics, risk stratification and predictive tools and shares all the resulting information with providers through CareInsight, our web-based performance analytics platform.

• View health information exchange as a catalyst and necessity for improved patient experiences through more timely and coordinated action, improved quality, and cost containment.
Testing:
  – Tufts Medical Center (active)
  – Beth Israel (on-deck)

In planning:
  – Children’s Hospital
  – Brockton Neighborhood Health Center

Others we hope to engage with:
  – More PCMH and CHC sites
  – More hospitals: UMASS Memorial, MGH
  – Everyone
– 6/10/11, 3:58 PM: Commitment between Tufts Medical and Network Health to work together as part of the clinical HIE prototype efforts led by NEHEN

– 10/16/12, 11:47 AM: Tufts Medical and Network Health join other early adopters in the Golden Spike launch of Mass HIWay

– 4/17/13, 10:18 PM: Tufts Medical and Network Health successfully send and receive 40,000 test transactions across the Mass HIway
A few of the good people doing important work:

Phillip, Atia
Determined project leaders with impressive sticktoitiveness

Jean
Clinical leader championing our cause

Carmen, Aaron
Technical excellence on the frontline

Kimberly, Ian, Jeanine
Coordinators/technologists from EOHHS & Orion providing professional advice, upgrades and support
Priority Use Cases

• Inpatient Discharge Summary (receiver)

• Emergency Dept Visit Summary (receiver)

• Lab Data (receiver)

• eCarePlans (sender)
Adaptors (Interfaces)

• Network Health’s clinical care management system is McKesson CCMS
• Microsoft Biztalk is used as the main interface engine which connects the LAND gateway to CCMS. Current version of CCMS is HIE/CCD-unfriendly; future versions promise improved interoperability
• For inbound, currently we use a custom process to parse the CCD, identify the patient, attach a human-readable version of the CCD to the patient’s record in CCMS, and alert clinicians.
• For outbound, we are developing a custom process to populate and transmit CCDs for the eCarePlan use case
What We’ve Learned So Far

- Clinical data exchange makes a real difference in people’s care
- Attach and view first; parse & load later
- Test network is important
- Clinical champions make things happen
- The impact on clinical workflow cannot be underestimated
- Security and consent matters take time
- Value of information rises with its currency, but the workflow triggers to transmit CCDs are involved
- Nomenclature mapping is difficult
- There’s no challenge we can’t overcome
Tufts Medical Center - Overview

- **Tufts Medical Center**
  - World-class academic medical center
  - Full-service hospital for adults and Floating Hospital for Children
  - Principal teaching hospital for Tufts University School of Medicine

- **Inpatient**
  - Inpatient Discharges per Year: 20,000
  - Inpatient Services: 30+

- **Outpatient**
  - Outpatient Visits per Year: 500,000
  - Outpatient Clinics: 80+

- **EMRs**
  - Inpatient: Soarian Clinicals (Siemens)
  - Outpatient: eCW / EHX (eClinicalWorks)
Tufts Medical Center - Technology Components

- Soarian Clinicals – Siemens
  - Full clinical repository including orders, results, vital signs, I&O, assessments, allergies, medications
    - Hosted ASP at Siemens in Malvern, PA
- TIBCO Engine
- Automate – Network Automation
- SQL Server
- C#
- Secure Web Services, REST, SOAP
Tufts Medical Center - Strategy

• CCD Creation
  – **Initial Strategy:** Create custom CCD using Soarian Extract, XML, C#, SQL Server, Automate scripting
  – **Long-term Strategy:** Migrate CCD creation to Siemens platform: Clinical Letter and AIS
  – **Coded Sections:**
    o Currently have coded payor section only
    o Allergies, Medications, Problems, Lab Results are next priority

• Integration with Mass HIE
  – Implement Orion Rhapsody Interface Engine / LAND Device
  – Communicate with LAND Device via Web Services
• Sending CCDs Outbound
  – *Mass HIE*: Send CCDs outbound via Mass HIE LAND Device to external Providers: Hospitals, Primary Care and Referring Physicians, Insurance Plans
  – *HIM Review*: CCDs are sent to electronic review folder. HIM manually reviews each CCD for Patient Sensitive Information prior to sending externally

• Receiving CCDs Inbound
  – *Mass HIE*: Receive CCDs inbound via Mass HIE LAND Device
  – *Post to Soarian Clinicals*
    o **Technical Approach**
      ▪ *Initial Strategy*: Post inbound CCDs from Mass HIE to Soarian as text result
      ▪ *Long-Term Strategy*: With Soarian Clinicals v3.4, include coded sections and consume in Soarian
    o **Patient Matching Approach**
      ▪ *Initial Strategy*: HIM department will review manually, assigning MR # to enable posting to appropriate patient
      ▪ *Long-Term Strategy*: Exploring matching algorithms for potential automation
Tufts Medical Center - Testing Status and Next Steps

• Testing Status
  – Conducting volume testing with Network Health; sending 40,000 CCDs per Day
  – Updated hardware to accommodate volume needs; delivered new LAND Device with 900 Gig data partition and data encryption enabled
  – Exploring CCD size considerations; reviewing Mass HIE size (10 Meg) with potential future CCD components

• Next Steps
  – Complete Volume Testing
  – Address consent requirements as defined by Mass Chapter 305 Opt-In Section 6F-1
  – Go Live with Network Health
Tufts Medical Center - Thank You

- Mass HIE
  - Kim Grose
  - David Bowditch

- Orion Health
  - Ian Rowe
  - Jonathon Price
  - Nick Choi
  - Russ Lutz
  - Sean Burke

- Network Health
  - Peter Bristol
  - Atia Amin
  - Carmen Wu

- Tufts Medical Center
  - Aaron Tatko
Rapid Progress among many stakeholders

- We have successfully sent a CCD to MAeHC with a filename that works for both of us. We will send 4,000 CCD's / day beginning in May.

- We are currently testing with Network Health to move our feed of CCD's from NEHEN to HIE. We have successfully tested BIDMC sending.

- Likely all our feeds will move to the HIE soon. Only Neighborhood health has not asked to test with us yet.

- Tufts has expressed interest in moving our current feed of Lab data to HIE and requested we test with them.
Rapid Progress among many stakeholders

• Working with DPH in using the HIE to send immunization HL7 messages. Lab data should soon follow.

• Partners has expressed interest in moving our current CCD feed for joint clinical support from NEHEN to HIE. We are ready to test.

• BPHC has expressed interest in moving our current feeds of syndromic surveillance and lab information to the HIE from NEHEN. We are ready to test.
Modular Certification

• Three test scripts exercise Direct functionality (b1, b2, e1)
• Propose to bring CCHIT, Orion, and BIDMC together to execute those tests needed for the Mass HIway to achieve modular certification
• BIDMC needs to do this anyway for self certification of its home built systems
Discussion Item 2:
Mass HIway Update – Outreach & Sales Update, Implementation & Support Update, Phase 2 Update
Hlway Implementation Grants

Grant Objectives
1. Build awareness
2. Catalyze connections
3. Build the value & cultivate ‘stories’

Grants Overview
- Planned Awards: 31
- Unique trading partners: 81
- Awards with proposed in-kind $: 27
- Grant funding: $2.2M

Map plotting ‘primary applicants’ of grants awarded
### # Opportunities (by stage)

- **Total Orgs**: 95
- **HIway Revenue**: ~$850,000

### # Opportunities (new in April)

- **Total Orgs**: 6
- **HIway Revenue**: ~$20,000

### # Participation Agreements signed

- **Total**: 17

### # Grants Awarded (anticipated)

<table>
<thead>
<tr>
<th>Grant</th>
<th>#</th>
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<tbody>
<tr>
<td>HIway Vendor Interface Grants</td>
<td>2</td>
</tr>
<tr>
<td>HIway Implementation Grants</td>
<td>27</td>
</tr>
<tr>
<td>Organization</td>
<td>Use Case</td>
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<tr>
<td>--------------------------------------------------</td>
<td>--------------------------------------------------------------------------</td>
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<tr>
<td>Tufts Medical Center and Network Health</td>
<td>Discharge Summaries from Tufts Medical to Network Health for follow-up care – in testing</td>
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<tr>
<td>BIDMC with MAeHC, Network Health</td>
<td>Data analytics; movement of CCDs</td>
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<tr>
<td>BIDMC and DPH Immunization</td>
<td>DPH Registries for ELR and Immunizations went live on 4/28/13; BIDMC will begin process to move immunization data through the Hiway</td>
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<td>Holyoke Medical and community providers</td>
<td>Coordination of care will be first Direct connection (w/o LAND); also has potential to connect its HIE to the MA Hiway</td>
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<td>Next Active:</td>
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<td>Boston Public Health, Children’s, Atrius, Partners</td>
<td>Various stages of testing using Direct LAND</td>
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<td>Providers using DPH registries</td>
<td>ELR, Immunizations – expectation that initial set of providers will be the above</td>
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<tr>
<td>Meditech</td>
<td>50+ sites in Commonwealth</td>
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• Transactions exchanged up from 5,984 in March to 337,956 during the month of April – all test

• Developers Tool Pilot
  – Collection of integrated artifacts for quicker, efficient connection to HIway (i.e. XDR SOAP connector)
  – Experience shows this is more effective than spec release

• In support of providers connecting to the DPH registries:
  – Implemented messaging, outreach plan with DPH
  – Modified Participation Agreements to allow “bridge” between current agreement and use for public health
  – Developed Implementation Guides
Phase 2 overall timeline

### Mass HIway Phase 2 high level project schedule

<table>
<thead>
<tr>
<th>Activity</th>
<th>Target date</th>
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<tbody>
<tr>
<td>Submit IAPD to CMS</td>
<td>Dec 2012</td>
</tr>
<tr>
<td>CMS approval of Phase 2 IAPD</td>
<td>April 2013</td>
</tr>
<tr>
<td>Phase 2 contract (or change order) executed</td>
<td>April 2013 May 2013</td>
</tr>
<tr>
<td>Go-live - Public Health - Immunization Registry Node</td>
<td>April 28 2013 Completed on 4/28/13</td>
</tr>
<tr>
<td>Go-live - Public Health - Reportable Lab Results (ELR) Node</td>
<td>April 28 2013 Completed on 4/28/13</td>
</tr>
<tr>
<td>Go-live for Phase 2, Release 1 (Other Public Health interfaces)</td>
<td>May – Oct 2013</td>
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Discussion Item 3:
Mass HIway Strategic and Operating Plan Update
### Timeline

<table>
<thead>
<tr>
<th>Task</th>
<th>Date</th>
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<tbody>
<tr>
<td>Preliminary outline and section assignments to EOHHS/MeHI</td>
<td>29-Mar</td>
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<tr>
<td>HIT-C meeting - intro HIE-SOP update plan</td>
<td>8-Apr</td>
</tr>
<tr>
<td>First draft for review by EOHHS &amp; MeHI</td>
<td>17-Apr</td>
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<tr>
<td>Iteration period</td>
<td>18-Apr – 10-May</td>
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<tr>
<td>Submit draft to HIT-C for review</td>
<td>10-May</td>
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<tr>
<td>Receive HIT-C feedback</td>
<td>17-May</td>
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<tr>
<td>Incorporate any HIT-C feedback</td>
<td>21-May</td>
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<tr>
<td>Final Approvals</td>
<td>23-May</td>
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<tr>
<td><strong>Submission to ONC</strong></td>
<td><strong>24-May</strong></td>
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- The purpose of the 2013 HIE-SOP submission is to update ONC on our efforts.
- The primary components of this update include the following new submissions:
  - Sustainability Plan
  - Program Evaluation Plan
  - Privacy and Security Framework
- Additionally, we will update them on any ‘Changes in HIE Strategy’.
Discussion Item 4:
Wrap up and next steps
HIT Council 2013 Meeting Schedule*:

- January 14 – 11th Floor Matta Conference Room
- February 4 – 11th Floor Matta Conference Room
- March 13 – 11th Floor Matta Conference Room
- April 8 – 21st Floor Conference Room
- May 6 – 21st Floor Conference Room
- June 3
- July 1
- August 5
- September 9
- October 7
- November 11
- December 9

*All meetings to be held from 3:30-5:00 pm at One Ashburton Place, 21st Floor, Boston, unless otherwise noted
Next HIT Council Meeting: June 3, 2013

Preliminary Agenda:

• Advisory Group Update/Discussion
  – Discussion Topics?
• Mass HIway Update