

Interoperability Framing

Joint HITPC and HITSC Meeting

October 15, 2014

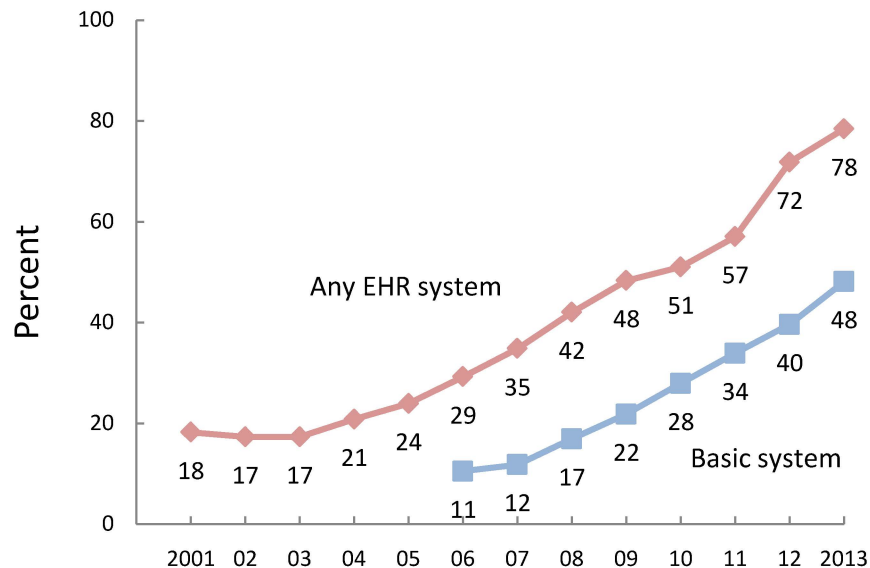
Erica Galvez
Interoperability Portfolio Manager
ONC

- **Formally: The ability of a system or product to work with other systems/products without special effort on the part of the customer. Interoperability is made possible by the implementation of standards.**
(Institute for Electrical and Electronics Engineering)
- In simple terms: All individuals, their families, and their health care providers have appropriate access to health information that facilitates informed decision-making, supports coordinated health management, allows patients to be active partners in their health and care, and improves the overall health of our population.

Health IT Adoption in the Care Delivery System

EHR Adoption

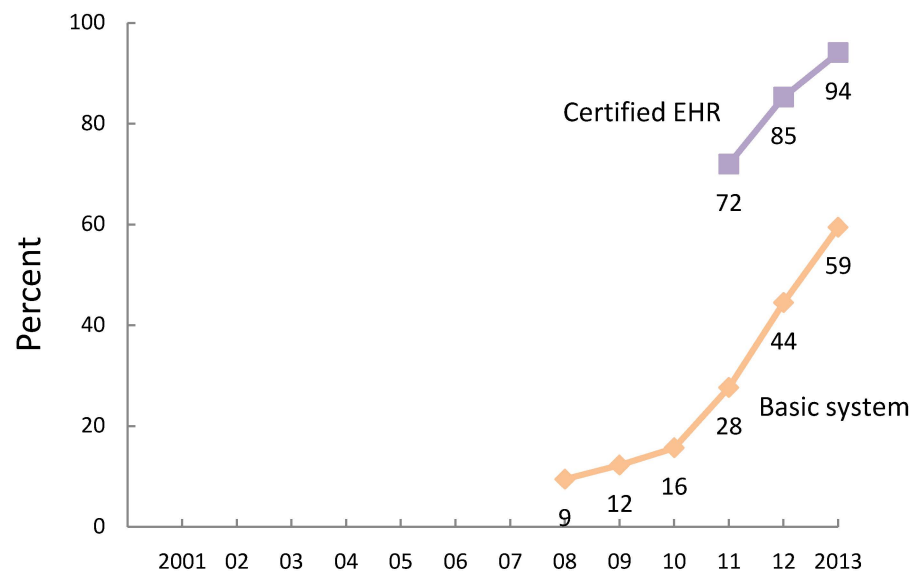
Office-Based Physicians



NOTES: EHR is electronic health record. “Any EHR system” is a medical or health record system that is either all or partially electronic (excluding systems solely for billing). Data for 2001–2007 are from in-person National Ambulatory Medical Care Survey (NAMCS) interviews. Data for 2008–2010 are from combined files (in-person NAMCS and mail survey).

SOURCE: CDC/NCHS, National Ambulatory Medical Care Survey and National Ambulatory Medical Care Survey, Electronic Health Records Survey.

Non-Federal Acute Care Hospitals



NOTES: Basic EHR adoption requires the EHR system to have a set of EHR functions defined in Appendix 1. A certified EHR is EHR technology that has been certified as meeting federal requirements for some or all of the hospital objectives of the CMS EHR Incentive Program. Possession means that the hospital has a legal agreement with the EHR vendor, but is not equivalent to adoption.

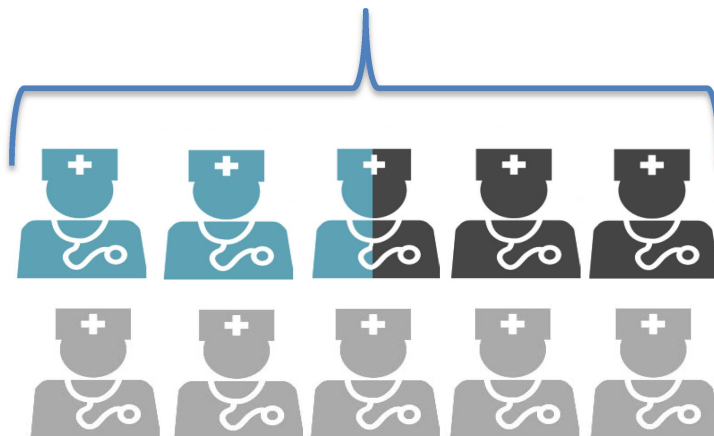
SOURCE: ONC/American Hospital Association (AHA), AHA Annual Survey Information Technology Supplement

In 2013, about one-third of physicians exchange different types of data



- Lab results: 36%
- Imaging reports: 34%
- Problem lists: 33%
- Medication lists: 34%
- Med allergy lists: 34%

**In 2012, 5 in 10 received discharge summaries routinely;
half of those received it electronically**



Hospital Adoption of HIE

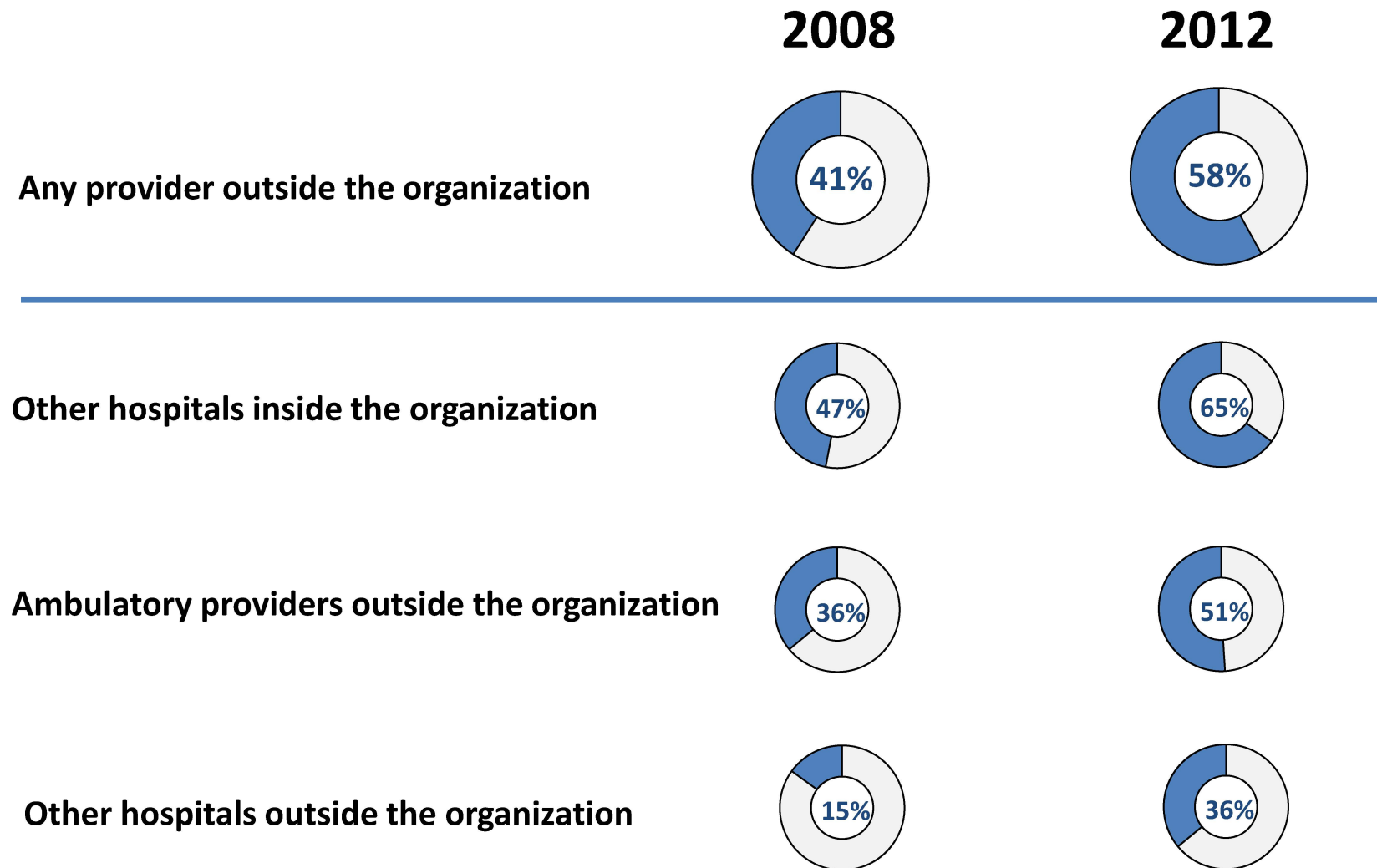
**51% able to query patient health
information electronically**



**41% able to send and receive
secure messages containing patient
health information to and from
external sources**



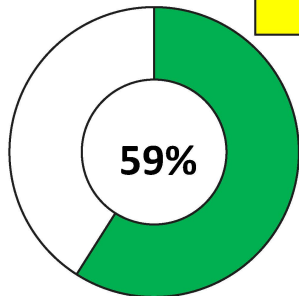
SOURCE: Office of the National Coordinator for Health Information Technology. 'U.S. Hospitals' Capability to Electronically Query Patient Health Information from Outside Their Organization and System,' Health IT Quick-Stat, nos. 25 & 27. April 2014.



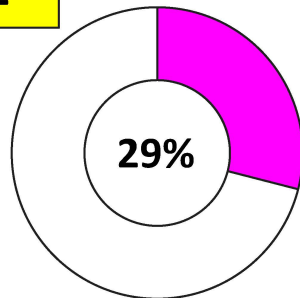
Community and State-based Exchange Infrastructure & Services

State HIE Program: Operational Core Infrastructure Services

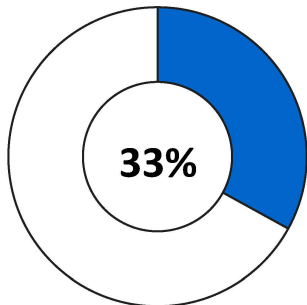
Q2 2012



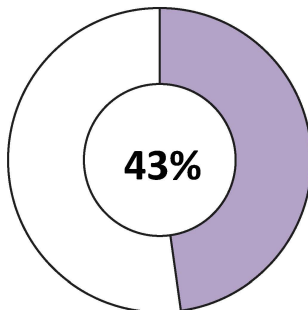
**At least 1 operational
Health Information
Service Provider**



**At least 1 operational
provider directory**

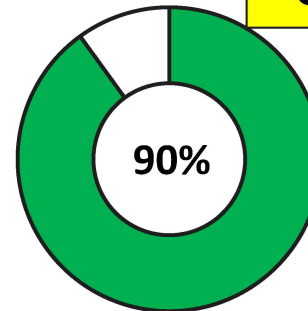


**At least 1 operational
master patient index**

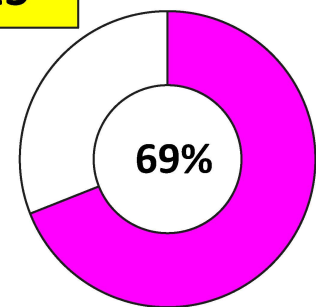


**At least 1 operational
provider authentication
service**

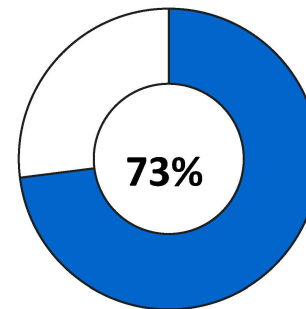
Q4 2013



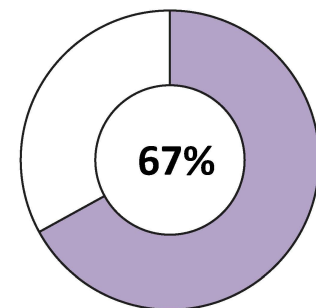
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**At least 1 operational
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N = 51 states and DC; territories excluded.

- Most state* health departments accept electronic data aligned with MU measures:
 - 48 states are electronically receiving data for immunizations
 - 47 states are electronically receiving data for electronic lab reporting
 - 43 states are electronically receiving data for syndrome surveillance
 - 36 states are electronically receiving data for cancer

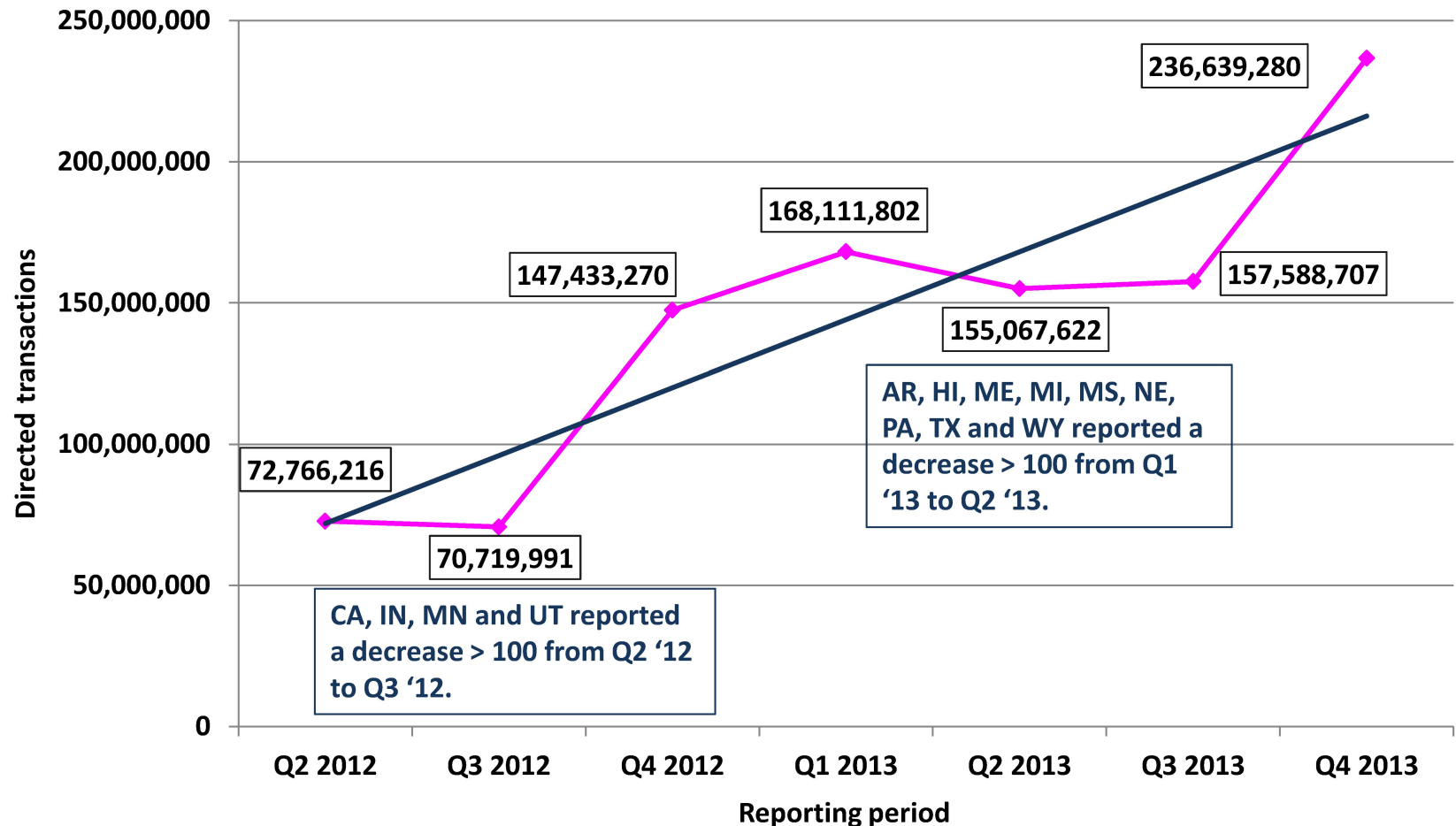
As of October 8, 2014

*N=51 (all states + District of Columbia)

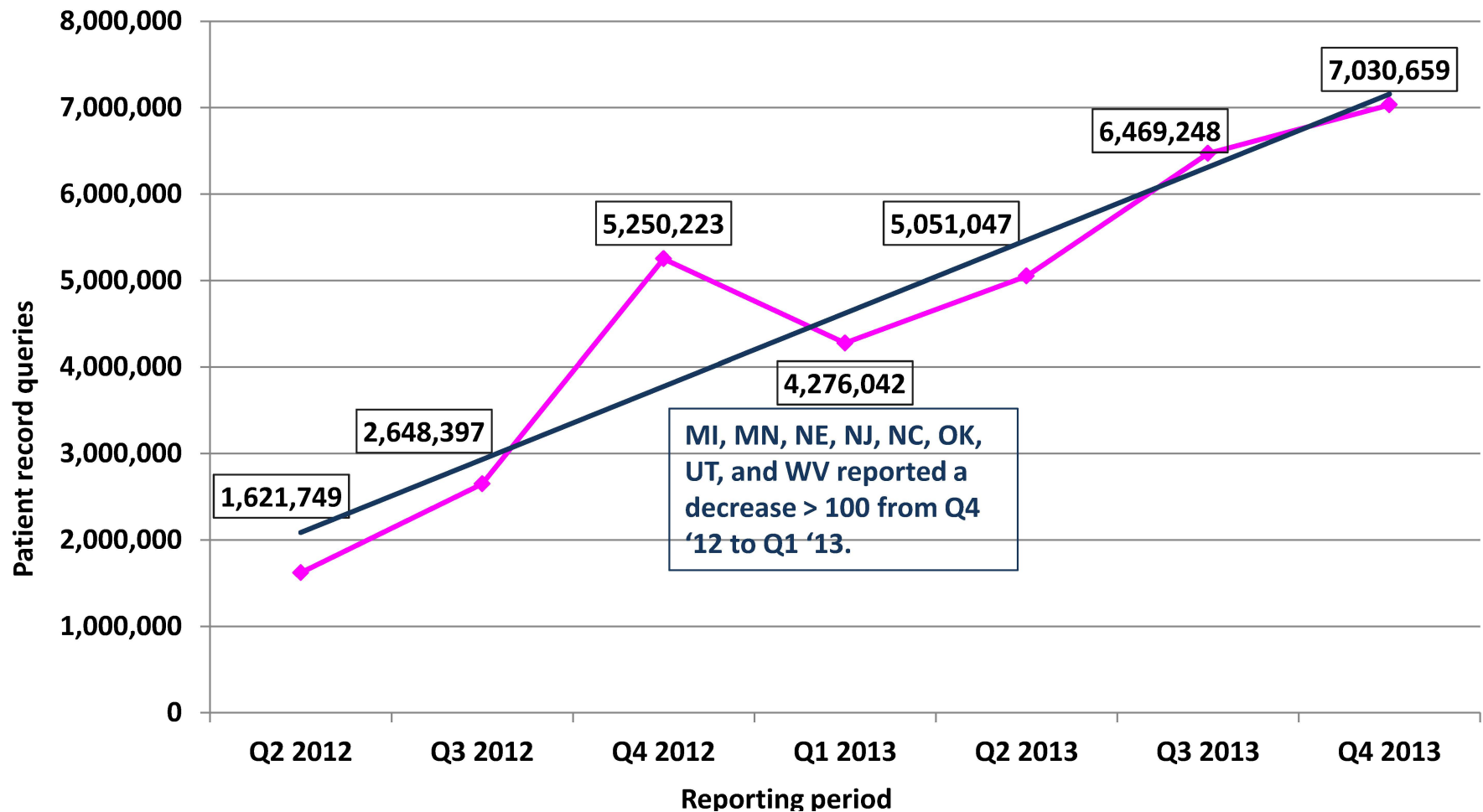
Transactions

State HIE Program: Quarterly Directed Exchange Transactions

Total number of directed exchange transactions per quarter



State HIE Program: Quarterly Patient Record Queries



Sample EHR Technology Developer Transactions

Company one:

- Total C-CDA transactions in July 2014: 2.7+ million
- C-CDA transactions to other vendors in July 2014: 2.5+ million

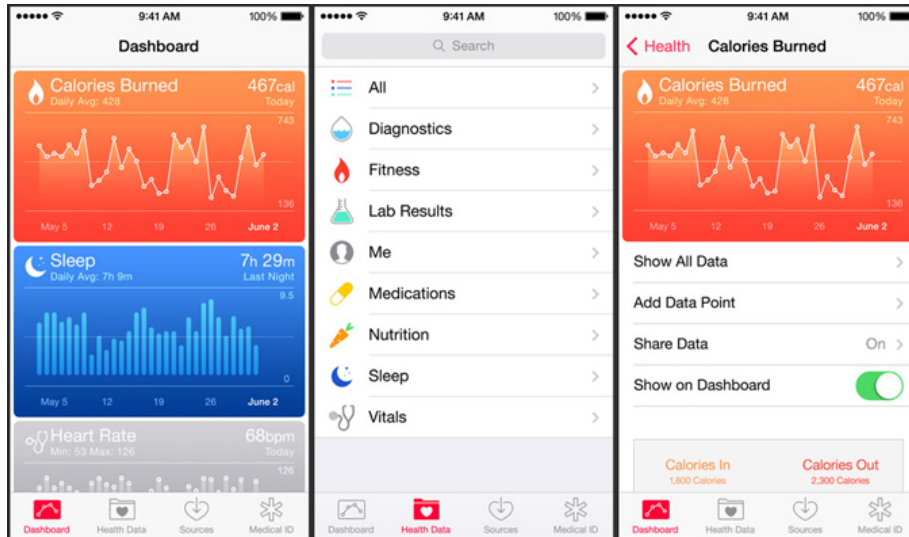
Company two:

- CCDAs exchanged using MU2 standards: 20 million per month
- Web service calls: 75 million per month
- Interface messages (HL7 v2, HL7 v3 (XML), NCPDP (XML), CDA (HL7 v3 XML), ANSI (X12), DICOM): 5-7 billion per month
- Messages sent to public health: 15.1 million per month
- Immunizations only (also included in public health number above): 5.1 million per month

Expanding Ecosystem

New Technologies, Data Sources, Data Users

Putting the **I** in Health**IT** 
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Governance

Varied Landscape

Putting the I in HealthIT 
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Discussion