Vermont Information Technology Leaders, Inc.

Update to the House Health Care Committee

January 16, 2013



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FY13 Accomplishments

Electronic Health Records (EHR)

- Assisted 911 primary care providers go live on an Electronic Health Record (EHR)
- Assisted 443 primary care providers meet meaningful use
- Implemented a new relationship with the Blueprint for Health

Interfaces

- All but one of Vermont's hospitals are connected to the VHIE (Vermont Health Information Exchange)
- Connected Dartmouth Hitchcock Medical Center to the VHIE for ADT (admissions/discharges/transfers) and lab results
- Went live with 190 interfaces in FY13 compared to 51 interfaces in FY12 – a 373% increase
- Live with immunizations to the VT Department of Health (11)



FY13 Accomplishments (continued)

• Interfaces (continued)

- Live with lab results to a first nursing home
- Completed the grant with Bi-State primary care (the FQHCs)

Provider Portal

- Implemented 6 pilot sites:
 - VITLAccess
 - Medication History
 - Consent Policy

Infrastructure

- Installed an interface engine tool to provide new messaging capabilities which allows us to build specialized interfaces
- Purchased and installed an enterprise data warehouse which will allow us to perform data analytics and reporting



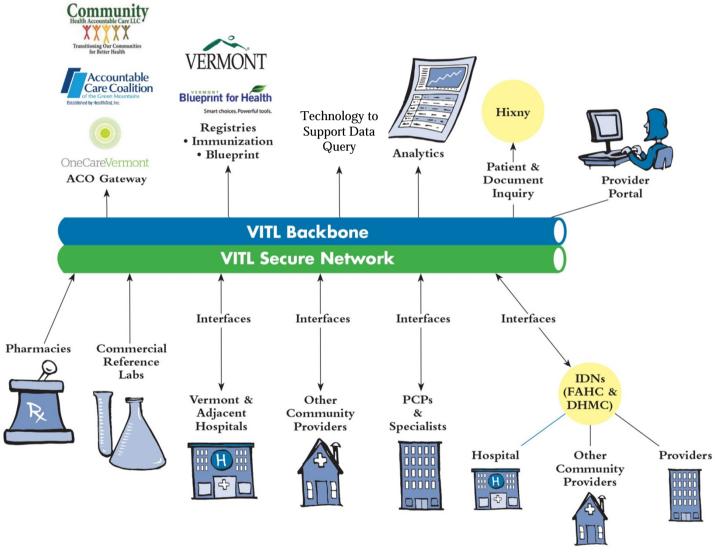
FY13 Accomplishments (continued)

Other

- Selected by OneCare VT to serve as their HIE infrastructure
- Legislation passed empowering VITL to certify providers in VT for meaningful use of EHRs and authorizing VITL to develop criteria for connectivity to the VHIE

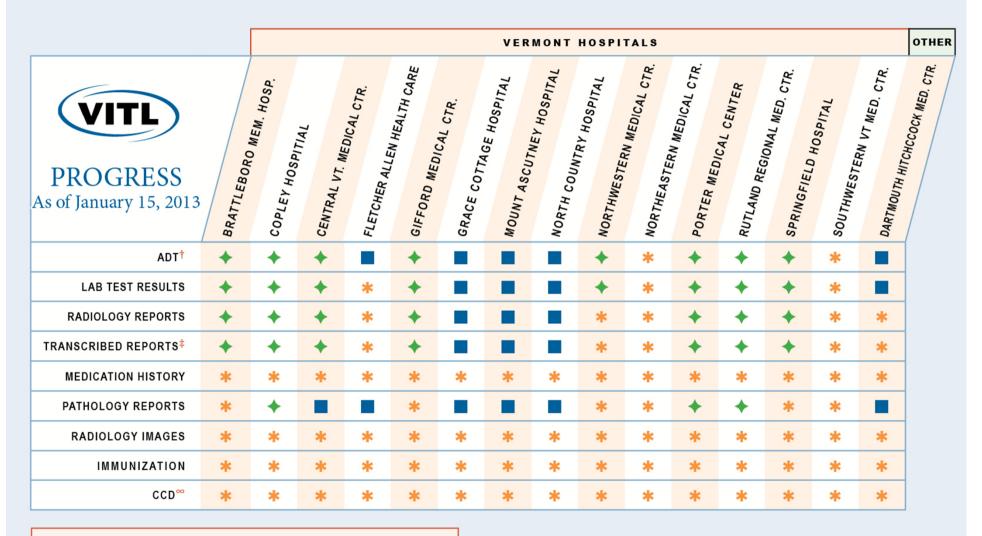


Vermont HIE Architecture





HOSPITAL INTERFACE STATUS



- ◆ COMPLETE The interface is live
- IN PROGRESS The interface is being developed.
- Pending Not actively working on the interface.

- † Admissions/Discharges/Transfers
- Discharge Summaries/ Endoscopy/ Cardiology/ Emergency Department Reports
- ∞ Continuity of Care Documents

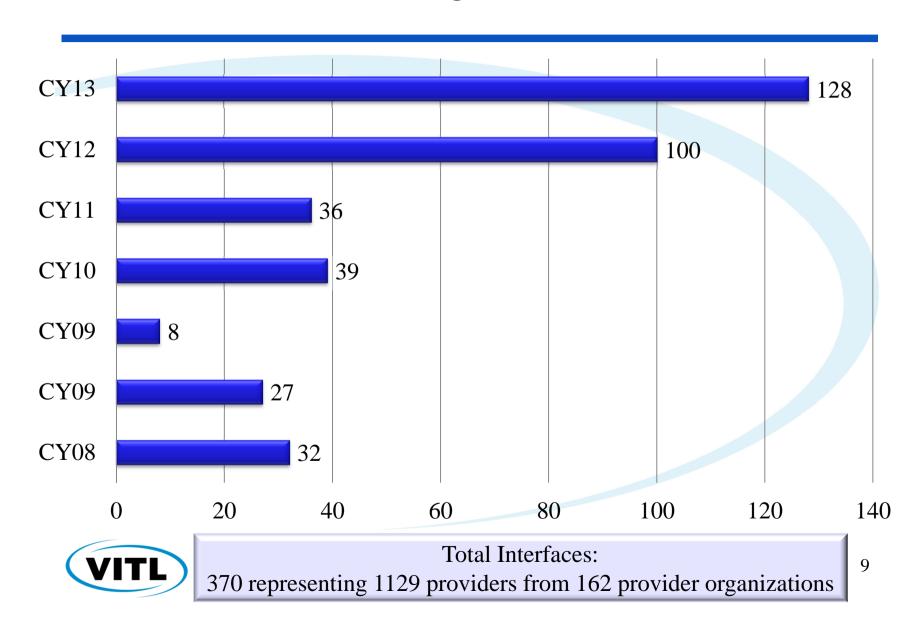
HOSPITAL INTERFACE STATUS

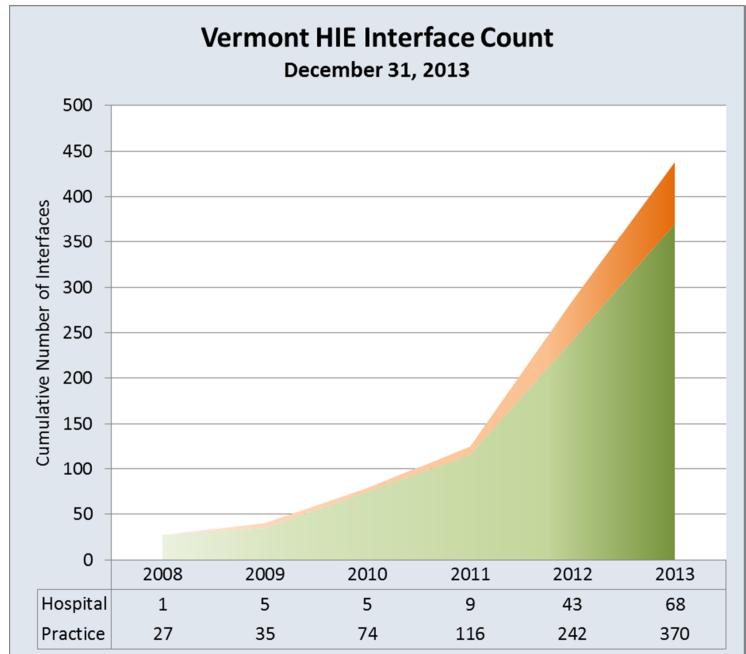
									OTHER							
PROGRESS As of January 1, 2014	BRATTLEBORG	COPLEY HOSBILL	CENTRAL VT. MED.	FLETCHER ALLE.	GIFFORD MEN.	GRACE COTT.	MOUNT ASCILT.	NORTH COLLINS	NORTHWESTER.	NORTHEASTER	PORTER MED.	RUTLAND REC.	SPRINGFIELD	SOUTHWESTE.	DARTMOUTH MIT	THICHCCOCK MED. CTR.
ADT [†]	+	+	+	(+)	+	(+)	(+)	(+)	+		+	+	+	*	(+)	1
LAB TEST RESULTS	+	+	+	(+	((①	+		+	+	+	*	(
RADIOLOGY REPORTS	+	+	+	(+	•	①	①			+	+	+	*		
TRANSCRIBED REPORTS‡	+	+	+	①	+	•	①	①			+	+	+	*	*	
MEDICATION HISTORY								①								
PATHOLOGY REPORTS	*	+		①	(①	①	①			+	+	*	*		
RADIOLOGY IMAGES	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
IMMUNIZATION								*						*		
CCD∞		*	*		*			*	*		*	*	*	*	*	

- ♦ COMPLETE The interface is live
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- **Pending Not actively working on the interface.**

- † Admissions/Discharges/Transfers
- ‡ Discharge Summaries/ Endoscopy/ Cardiology/ Emergency Department Reports
- ∞ Continuity of Care Documents
- o Medication History is Live. Deployed to Selected Pilot Sites

Ambulatory Interfaces





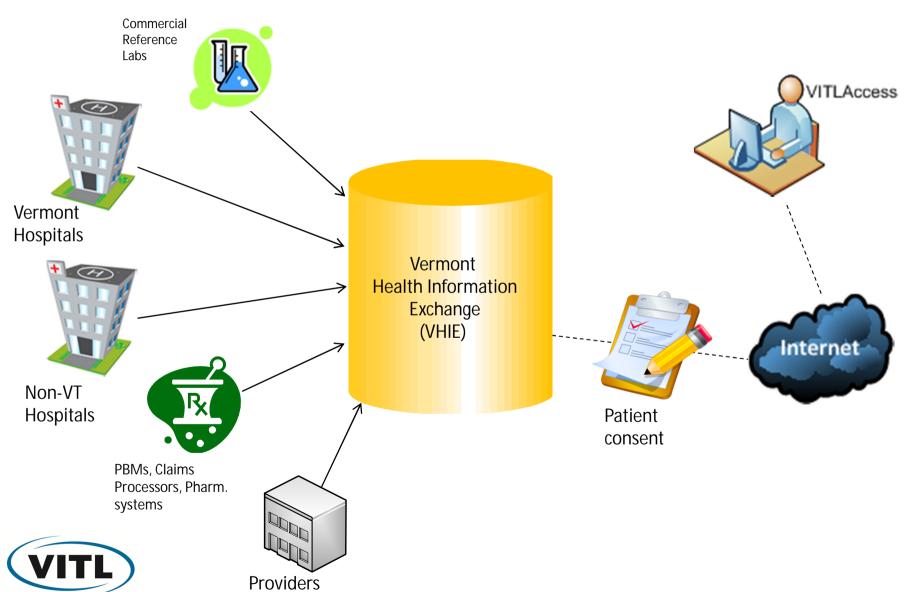


VITLAccess

- VITLAccess is a window into the VITL clinical repository
- VITL has been building interfaces and the clinical repository for 9 years
- Processing 2.2 million clinical messages per month
- VITL Support Center operational for 4 years
- VITLAccess (ProAccess) has been operational for
 14 years
- Expected number of users is **5000-10,000**

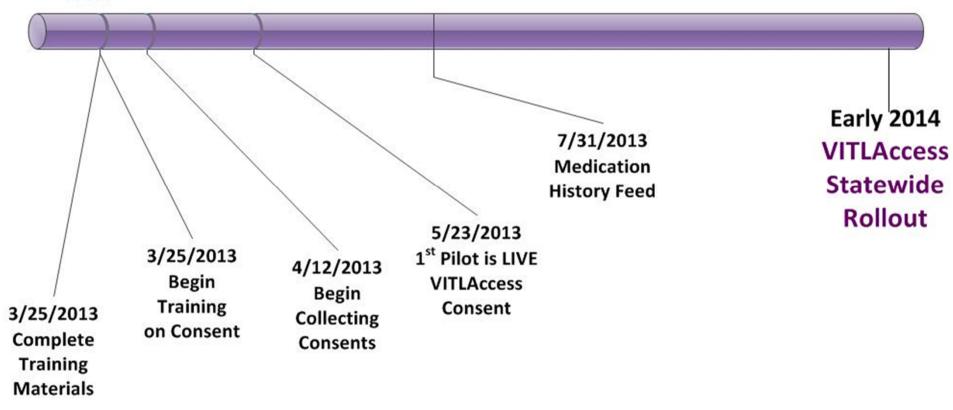


VITL Access



VITL Milestones 3/1/13 - 3/31/14

VITLAccess





VITLAccess Pilot Sites

Representing a wide range of care settings

Pilot Facility	Town	Profile			
Susan Lemei, MD PC	Chester	Single doctor primary care practice			
Lamoille Home Health and Hospice	Morrisville	Home health agency			
The Manor	Morrisville	Nursing home			
BMH Center for Cardiovascular Health	Brattleboro	Specialty care practice (hospital owned)			
North County Hospital Emergency Department	Newport	Hospital ED			
Rainbow Pediatrics	Middlebury	Privately owned pediatric practice			
The Health Center	Plainfield	FQHC serving over 13,000 patients			



VITL Health Information Exchange Implementation Best Practice

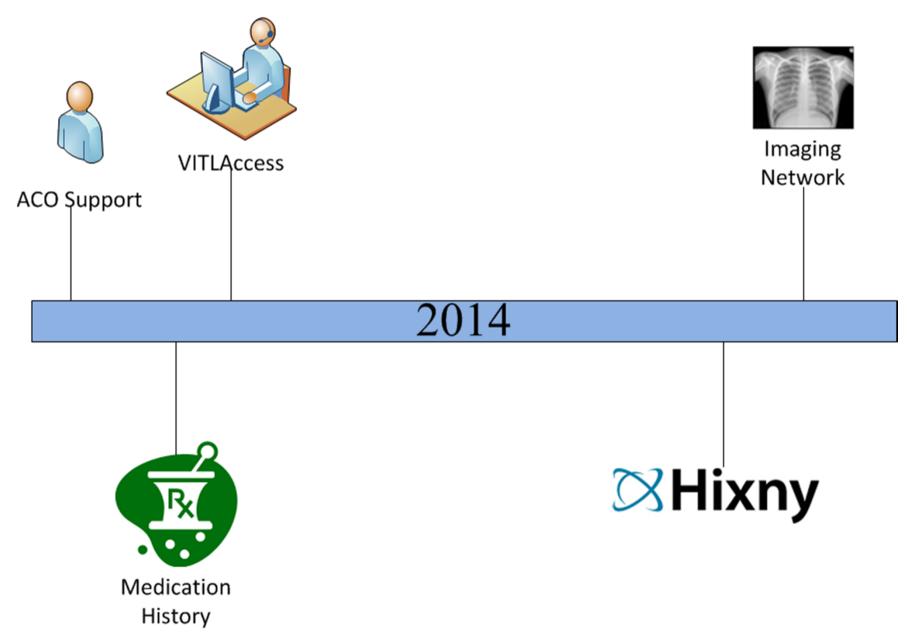
- Training
- Testing
 - Quality analysis
 - Unit testing
 - System testing
- Pilot sites discovery before deployment
- 24 x 7 support
- Incremental implementation
- Ongoing training



Security

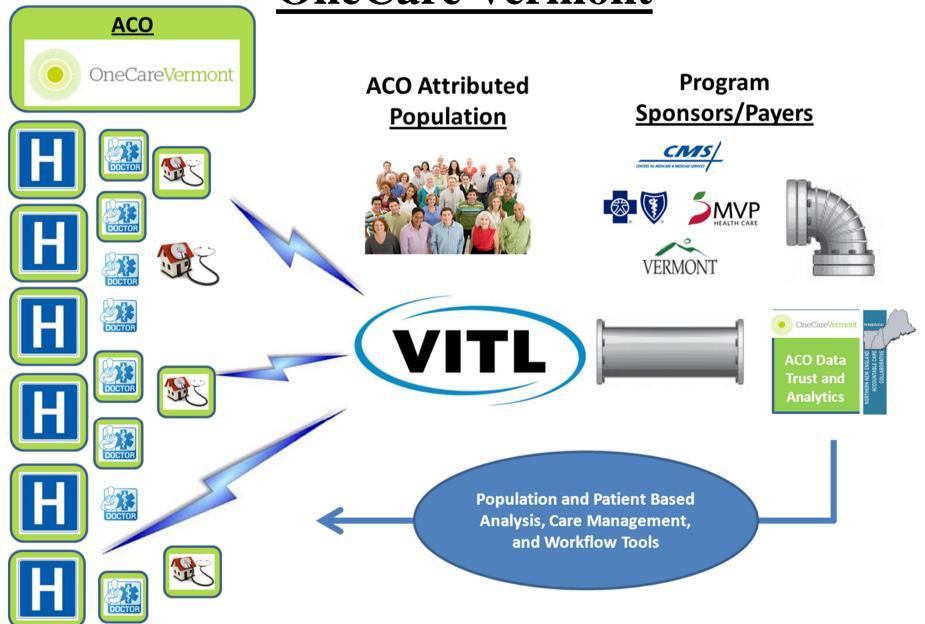
- VITL's technology infrastructure is Medicity, one of the largest HIE vendors in the US
- All data in transit across the HIE is encrypted
- Patient information is not comingled and is stored in separate data vaults by provider organization
- The network is monitored 24/7 for signs of intrusion
- Every attempt to access the HIE is logged
- Medicity's data centers are SSAE-16 certified: best practice in healthcare and exceeds HIPAA standards
- Medicity has never had a breach
- VITL is seeking FIPS 200 compliance, a Federal information systems security level that covers 17 domains and exceeds HIPAA requirements



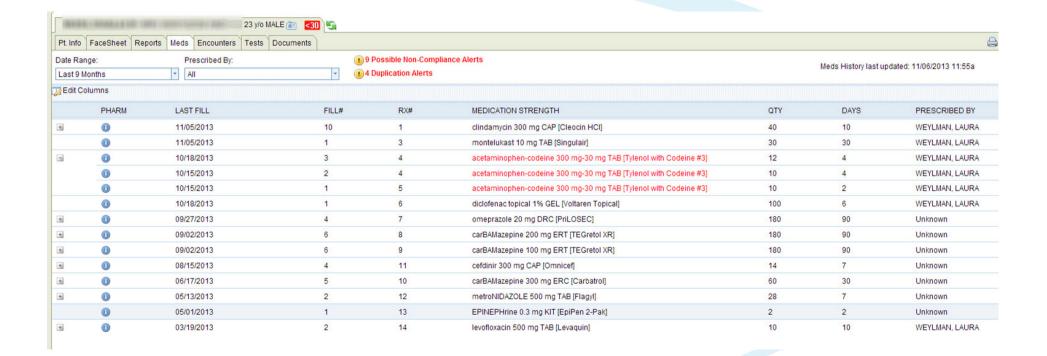




OneCare Vermont

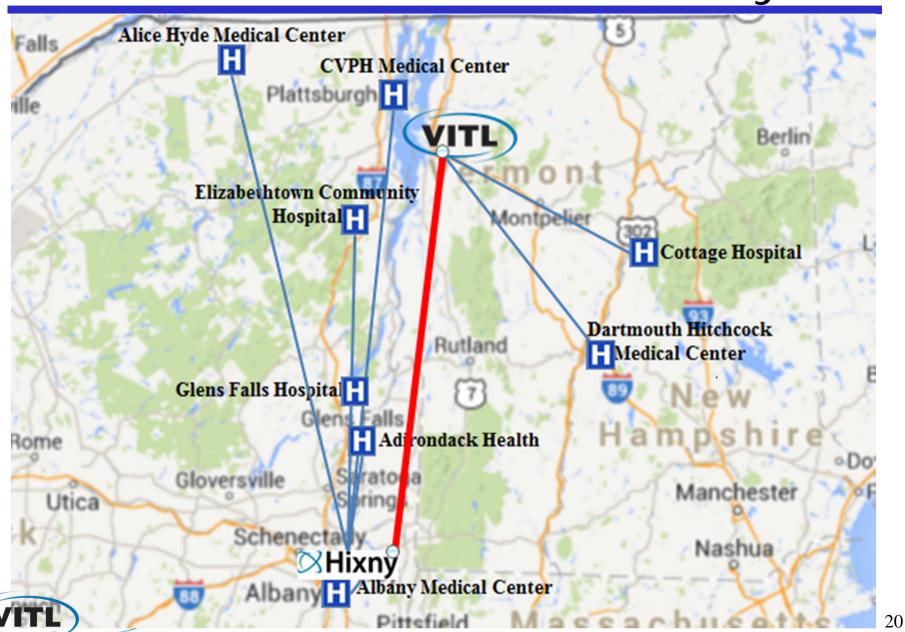


Medication History





VITL X-State Connectivity



Connectivity Criteria

- New Legislation H.107: <u>VITL</u>, in consultation with health care providers and health care facilities, shall establish criteria for creating or maintaining connectivity to the State's health information exchange network. <u>VITL</u> shall provide the criteria annually by March 1 to the Green Mountain Care Board established pursuant to chapter 220 of this title.
- Lantana Consulting Group Engaged
 - Assisted with developing the standards for health information interoperability over the past 15 years, including HL7's Clinical Document Architecture (CDA) and the HL7 Continuity of Care Document (CCD).
 - Clients have included: CDC; National Institute of Standards and Technology; RAND; National Quality Forum, National Cancer Institute
- Provider Interviews Underway



What is the current state of medical image sharing?

Use of CDs

- Images are given to a patient on a CD to take with them
- Patients often forget or cannot bring these with them (emergency)
- Reading the images from these CDs can be problematic
- Burning CDs is time consuming and expensive
- Large hospitals give community physicians access to the images
- Most EHRs can accept images but they are not available
- Images can be manually sent from one radiology system to another but only if there is a secure network in place



Building a Vermont Medical Imaging Network

- VITL is leading the effort to design a statewide imaging network
- Working with FAHC and DHMC
- Looking at solving 7 imaging scenarios
 - Image review at provider practices
 - Trauma transfers
 - Specialist referrals
 - Out-of-network referrals
 - Radiology ordering
 - Radiology outreach/consolidation
 - Research



Outcomes

- Fewer repeat images: safer care and lower costs
- Better access to images at provider practices and hospitals: more informed decision making and can make comparisons with prior images
- Lower costs for hospitals for image archive
- More appropriate image ordering

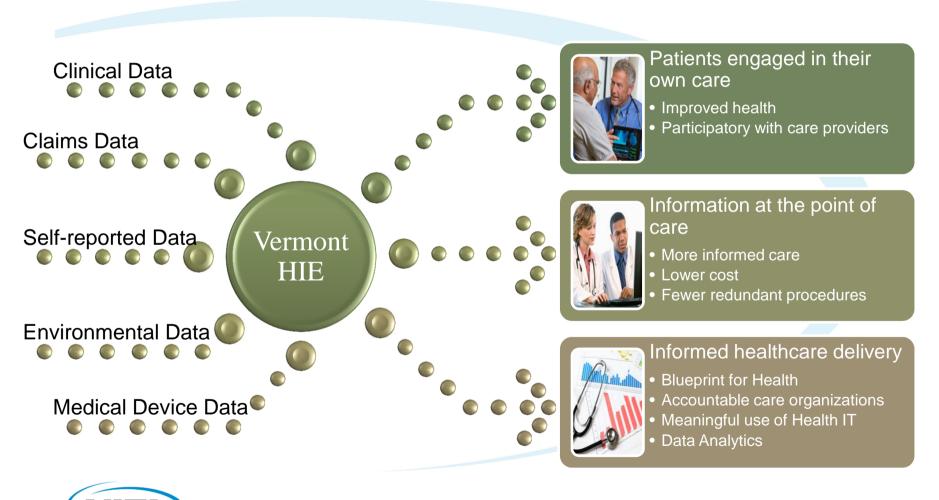


Success Factors

- The system infrastructure needed is expensive but so are medical images
- This will be a long term project (2-3 years)
- We are working with a vendor partner (lifeIMAGE) who may be willing to fund a significant portion of the network
- FAHC, DHMC and the ACOs are all very supportive
- Once in place the entire state provider community should benefit from this network



The Future of Health Information Exchange



Questions?



Amendment Process Policy on Patient Consent for Provider Access

- Policy is incorporated in Vermont Health Information Technology Plan (VHITP)
- To amend the VHITP:
 - 1. VITL requested Secretary of Administration and Green Mountain Care Board consider changing current policy
 - 2. Secretary of Administration solicits public comment (Stakeholder meeting scheduled for January 27, 2014)
 - 3. Secretary of Administration reviews and approves policy change
 - 4. Green Mountain Care Board reviews and approves policy change

Using 21 different EHR Systems

2011	2012	2013
•FQHC: 73% •HA: 57% •HI: 79% •VAHHA: 100%	•FQHC: 91% •HA: 93% •HI: 100% •VAHHA: 100%	•FQHC: 91% •HA: 100% •HI: 100% •VAHHA: 100%



•FQHC: Federally Qualified Health Center EHR Go-Live Dates

HA: Hospital Ambulatory EHR Go-Live Dates
 HI: Hospital Inpatient/HIS EHR Go-Live Dates

•VAHHA: VAHHA Member EHR Go-Live Dates

Sending Clinical Data to the VHIE

- 13 out of 14
 Hospitals are sending clinical data to the VHIE
- 10 out of 11
 FQHC's are
 sending clinical
 data to the VHIE
- 0 out of 10
 VAHHA's are sending clinical data to the VHIE



Health Information Technology

Leading to improved health



Paper

• Manual entry

- Error prone
- Limited sharing
- Manual search / retrieval
- Costly storage at risk of physical damage or destruction





VT Hospitals:

• 100% Live

VT Eligible Professionals:

- 992 Enrolled with VITL
- 924 Live EHR
- 571 Stage 1 Meaningful Use



Hospitals:

- All 14 VT
- Dartmouth Hitchcock
- Cottage Hospitals (NH)
- Samaritan Hospital (NY)

10 of 11 FQHC's

Practices:

Health Information Exchange

- 162 Practices
- 370 Interfaces
- 1129 Providers



Multi-Sourced

- Clinical data
- Claims data
- Payer data
- Environmental data
- Social data
- Patient (selfreported) data
- Medical device data



■ Figure 2. State-Level Electronic Exchange Capability Relative to the National Average® WA MT ND MN OR ID SD WY IA NE NV ОН IL UT CO CA KS MO NC TN OK ΑZ SC NM AR GA MS ΤX LA FL





Source Document: <u>The American Journal of Managed Care</u>, Volume 19, Number 10, "Physician Capability to Electronically Exchange Clinical Information, 2011", figure 2., page 840

Higher on 4-6 measures

Not different on any measures

Higher on 1-3 measures

Lower on 4-6 measures

Lower on 1-3 measures

Vermont Imaging Network

VITL

