VITL Update to the **State of Vermont** Health Care Oversight Committee

November 14, 2013



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 now 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
 - Contracted with a major national computer infrastructure hosting vendor which allows us to host our own applications
 - Installed an interface engine tool to provide new messaging capabilities which allows us to build specialized interfaces



FY13 Accomplishments (continued)

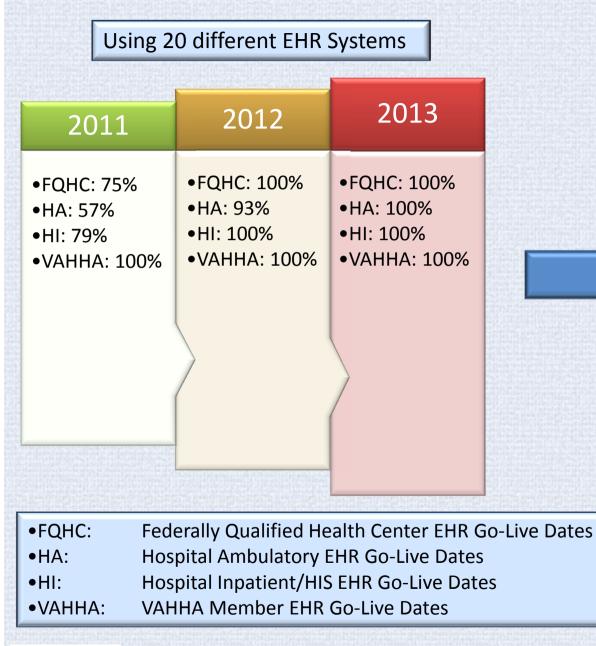
• Infrastructure (continued)

- Purchased and installed an enterprise data warehouse from Microsoft which will allow us to perform data analytics and reporting
- 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









Sending Clinical Data to the VHIE

- 13 out of 14 Hospitals are sending clinical data to the VHIE
- 8 out of 8 FQHC's are sending clinical data to the VHIE
- •0 out of 10 VAHHA's are sending clinical data to the VHIE



HOSPITAL INTERFACE STATUS

													OTHER			
PROGRESS As of January 15, 2013	BRATTLEBODO	COPLEY HOSPITE	CENTRAL VT. MEA.	FLETCHER ALLEN	GIFFORD MEDIC	GRACE COTTAC	MOUNT ASCUTNEY	NORTH COUNTER.	NORTHWESTER.	NORTHEASTERN	PORTER MEDICAL CTR.	RUTLAND REGIO	SPRINGFIELD	SOUTHWESTER.	DARTMOUTH HITCH	THICHCCOCK MED. CTR.
ADT [†]	+	+	+		+				+	*	+	+	+	*		
LAB TEST RESULTS	+	+	+	*	+				+	*	+	+	+	*		
RADIOLOGY REPORTS	+	+	+	*	+				*	*	+	+	+	*	*	
TRANSCRIBED REPORTS [‡]	+	+	+	*	+				*	*	+	+	+	*	*	
MEDICATION HISTORY	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PATHOLOGY REPORTS	*	+			*				*	*	+	+	*	*		
RADIOLOGY IMAGES	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
IMMUNIZATION	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
CCD∞	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	

COMPLETE – The interface is live

IN PROGRESS – The interface is being developed.

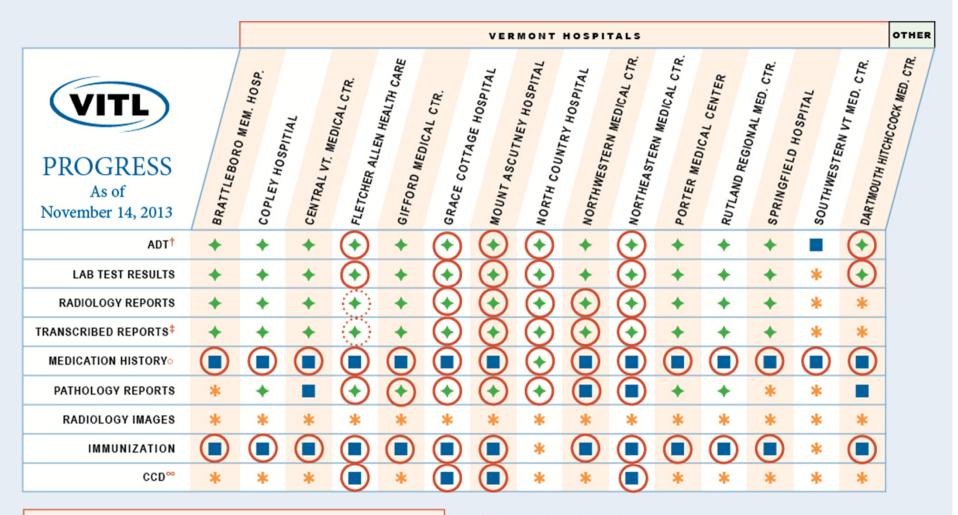
Pending – Not actively working on the interface.

† Admissions/Discharges/Transfers

Discharge Summaries/ Endoscopy/ Cardiology/ Emergency Department Reports

∞ Continuity of Care Documents

HOSPITAL INTERFACE STATUS

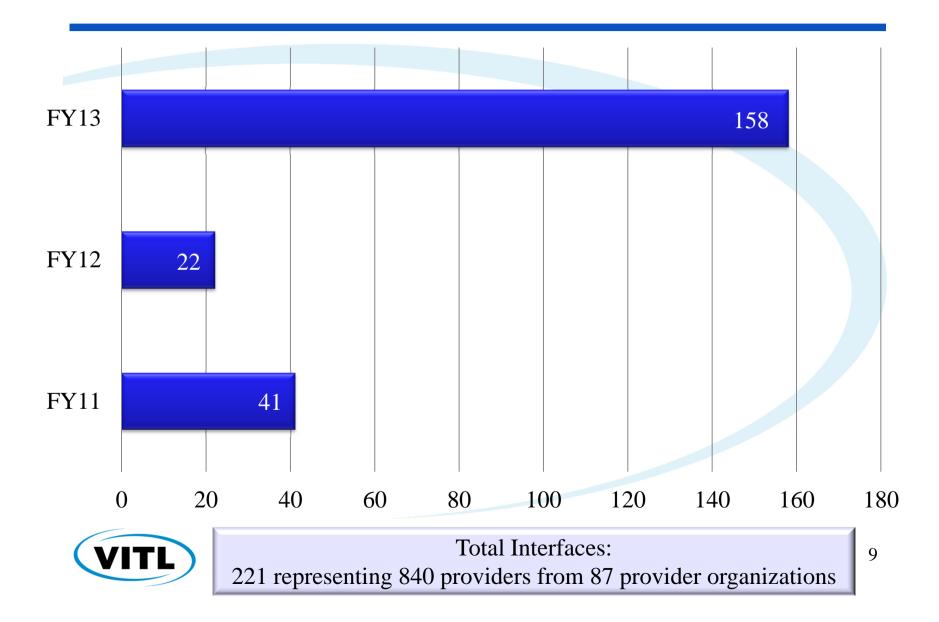


COMPLETE – The interface is live

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

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

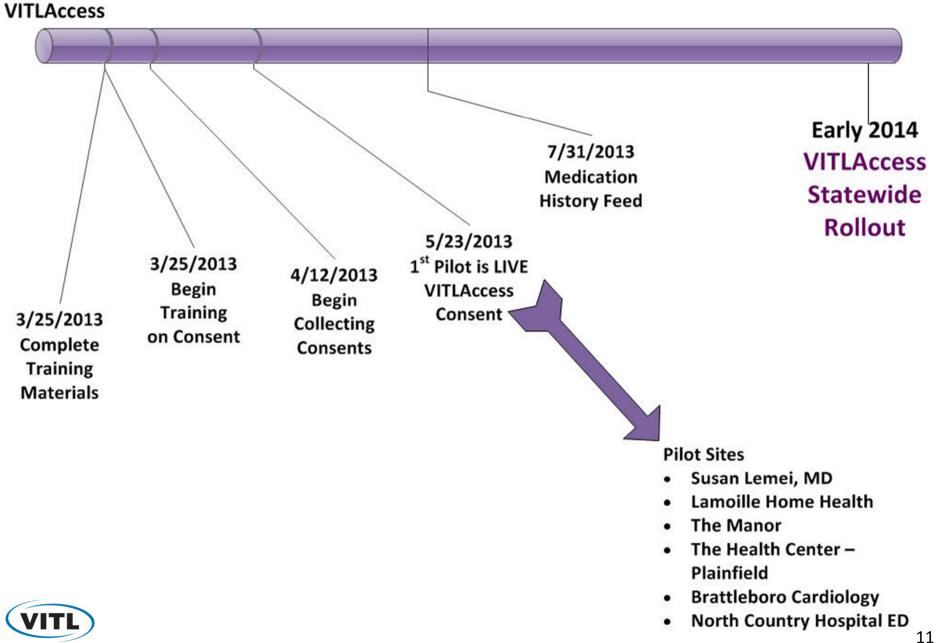
Ambulatory Interface Chart





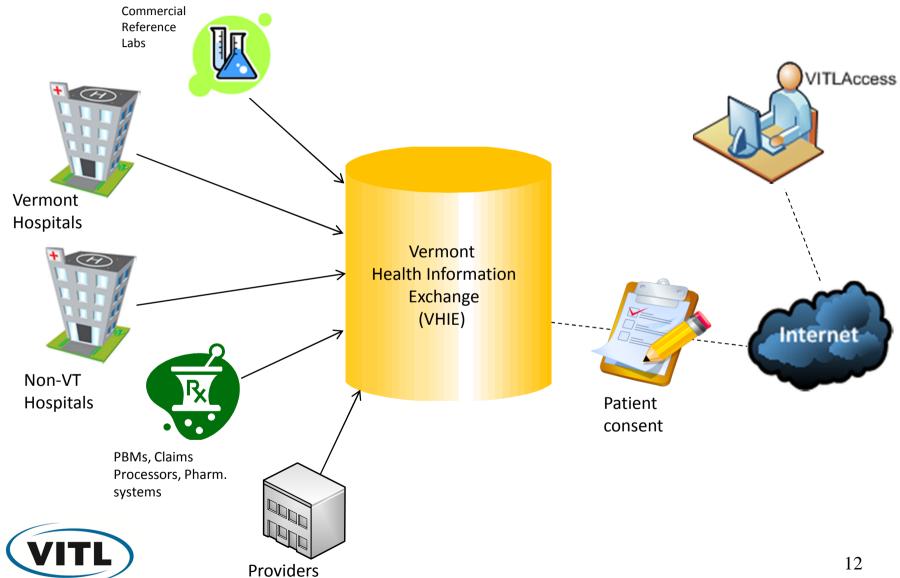


VITL Milestones 3/1/13 - 3/31/14



Revised: 11/7/2013

VITL Access



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 <u>month</u>
- VITL Support Center operational for **4** years
- VITLAccess (ProAccess) has been operational for 14 years
- Expected number of users is **5000-10,000**



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



Medicity Infrastructure

- Medicity
 - HIE company since 2000
 - State HIEs: 9
 - Regional HIEs: 12
 - Enterprise HIEs: 91
- Capabilities and Functions
 - Clinical Data repository
 - Consent Management
 - Master Person Index
 - (within and across organizations)
 - Record Locator Service
 - Provider Portal/Query functionality
- Referral Management



Key: Operational

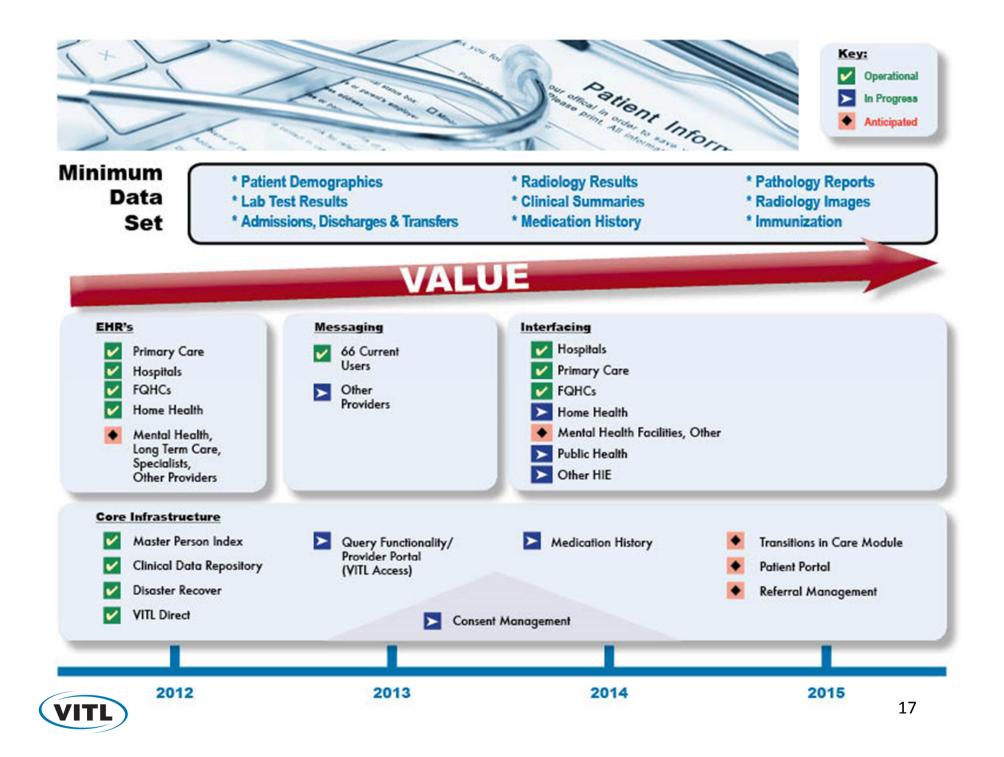
Not Scheduled

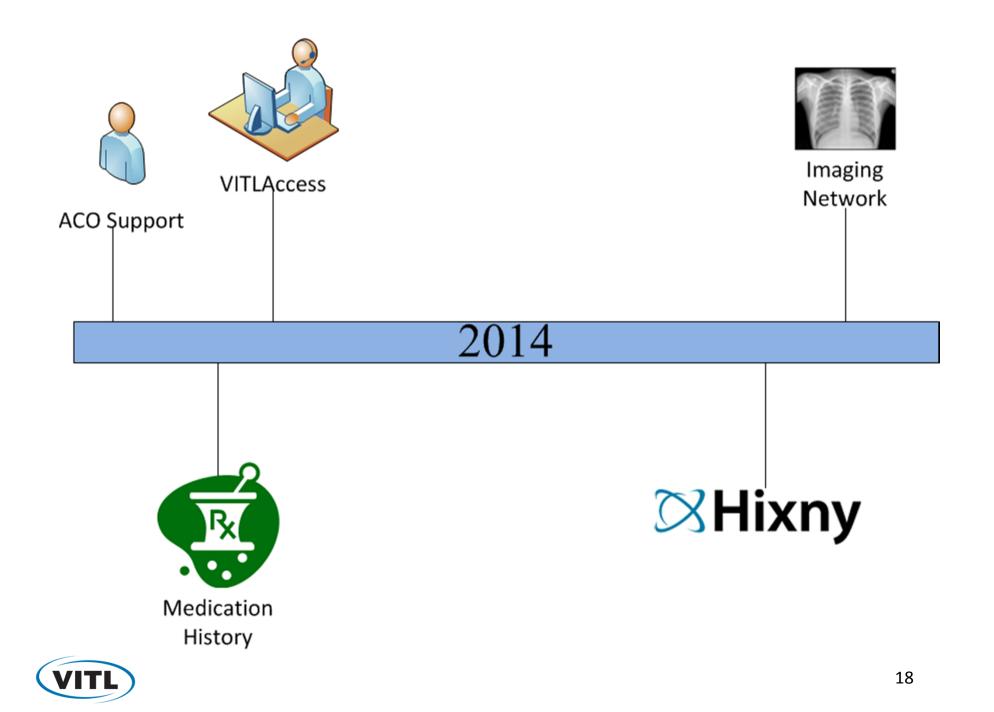


Medication History

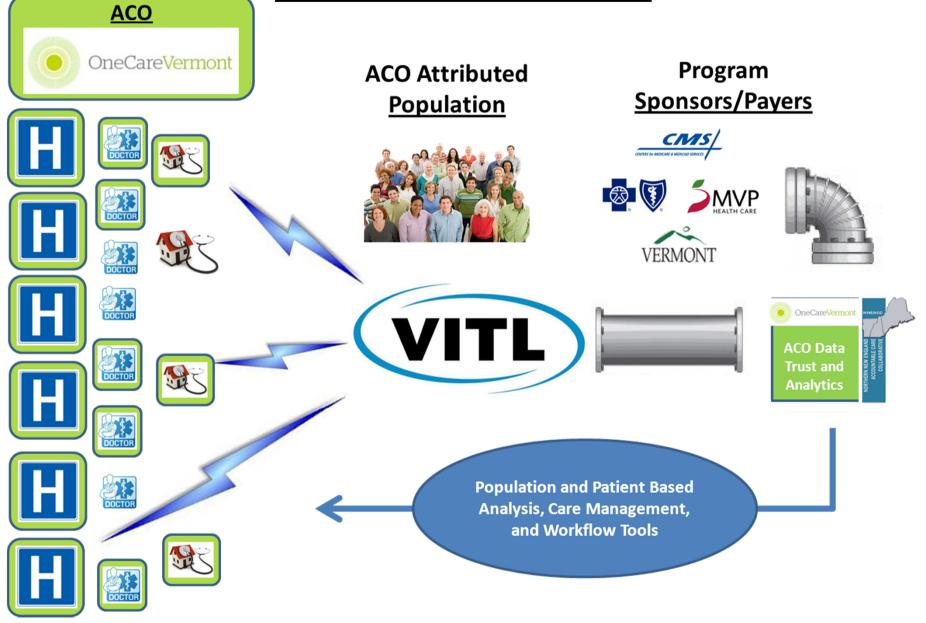
- Direct (secure messaging) Transitions in Care module
- (in development)
- Patient Portal
- \bigcirc
- Secure Network
 - Disaster Recovery

In Progress/Live in Pilot Sites





OneCare Vermont



Medication History

		orts Meds Encounters Tests E		@ 0 Descible Nex Complian	es Aleste			
Date Range: Last 9 Months		Prescribed By:		9 Possible Non-Complian 4 Duplication Alerts		Meds History last updated: 11/06/2013 11:55a		
Edit Colu								
	PHARM	LAST FILL	FILL#	RX#	MEDICATION STRENGTH	QTY	DAYS	PRESCRIBED BY
+	0	11/05/2013	10	1	clindamycin 300 mg CAP [Cleocin HCI]	40	10	WEYLMAN, LAURA
		11/05/2013	1	3	montelukast 10 mg TAB [Singulair]	30	30	WEYLMAN, LAUR
1		10/18/2013	3	4	acetaminophen-codeine 300 mg-30 mg TAB [Tylenol with Codeine #3]	12	4	WEYLMAN, LAUR
	0	10/15/2013	2	4	acetaminophen-codeine 300 mg-30 mg TAB [Tylenol with Codeine #3]	10	4	WEYLMAN, LAUR
	0	10/15/2013	1	5	acetaminophen-codeine 300 mg-30 mg TAB [Tylenol with Codeine #3]	10	2	WEYLMAN, LAUR
	0	10/18/2013	1	6	diclofenac topical 1% GEL [Voltaren Topical]	100	6	WEYLMAN, LAUR
+	0	09/27/2013	4	7	omeprazole 20 mg DRC [PriLOSEC]	180	90	Unknown
ŧ	0	09/02/2013	6	8	carBAMazepine 200 mg ERT [TEGretol XR]	180	90	Unknown
ŧ	0	09/02/2013	6	9	carBAMazepine 100 mg ERT [TEGretol XR]	180	90	Unknown
±	0	08/15/2013	4	11	cefdinir 300 mg CAP [Omnicef]	14	7	Unknown
ŧ	0	06/17/2013	5	10	carBAMazepine 300 mg ERC [Carbatrol]	60	30	Unknown
ŧ		05/13/2013	2	12	metroNIDAZOLE 500 mg TAB [Flagyl]	28	7	Unknown
		05/01/2013	1	13	EPINEPHrine 0.3 mg KIT [EpiPen 2-Pak]	2	2	Unknown
	0	03/19/2013	2	14	levofloxacin 500 mg TAB [Levaquin]	10	10	WEYLMAN, LAUR

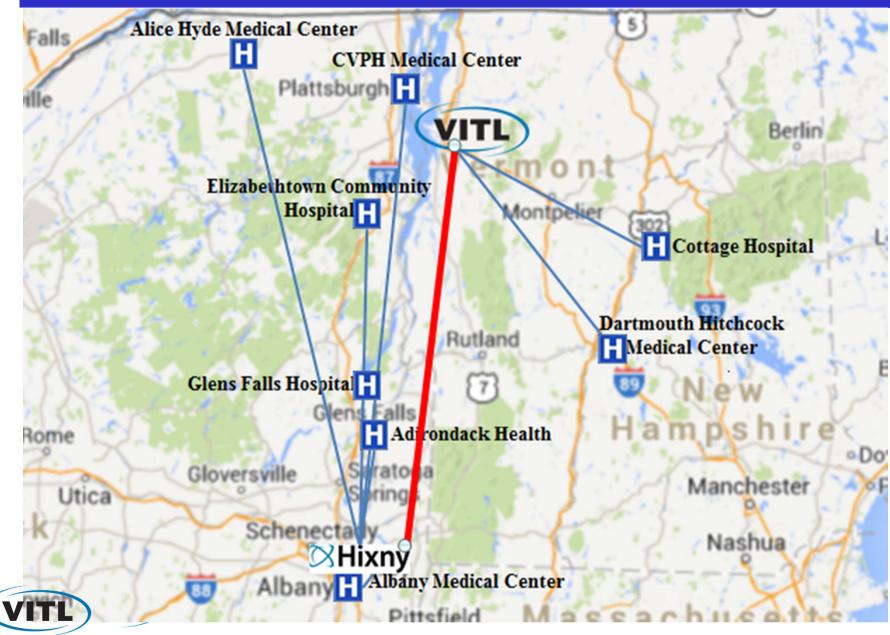


Medical Imaging Network

- VITL leading the effort to design and develop a state-wide imaging network:
 - View prior images through VITLAccess
 - Potentially reduce image archiving costs
 - Use of a clinical decision support tool
- Applied for a \$8.5m CMS Health Care Innovation Award Grant with FAHC, DHMC and lifeIMAGE: January 2014



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. VITL 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



VITL Access Demo



Questions?

