eHealth Exchange™

An Initiative of The Sequoia Project

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VA Presidential Commission on Care

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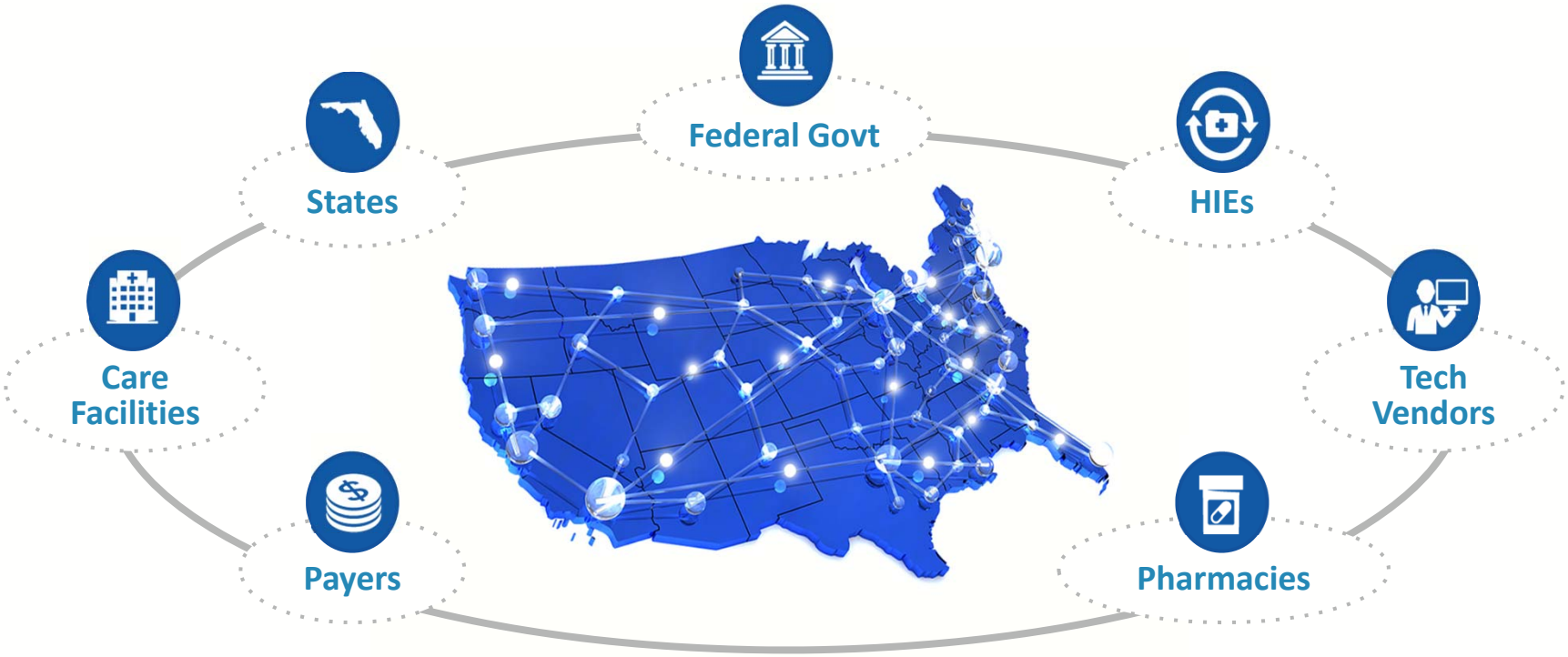
Introduction to the eHealth Exchange

Rapidly growing network for securely sharing health information over the Internet



Shared Trust Framework | Common Standards, Specifications & Policies

eHealth Exchange Building Blocks

eHealth Exchange Provides

- Governance of participants (Coordinating Committee)
- Legal/Trust Agreement (Data Use & Reciprocal Support Agreement – DURSA)
- Operating Policies and Procedures
- Implementation specifications

Minimal Technical Services

- Directory of participants
- Security (x.509 managed certificate authority)
- Interoperability testing and test lab

Largest Federated Health Data Sharing Network in the U.S.

Today, the eHealth Exchange connects:

All 50 states

Four federal agencies
(DoD, VHA, HHS including CMS, and SSA)

35% of U.S. hospitals

13,000 medical groups

3,200 dialysis centers

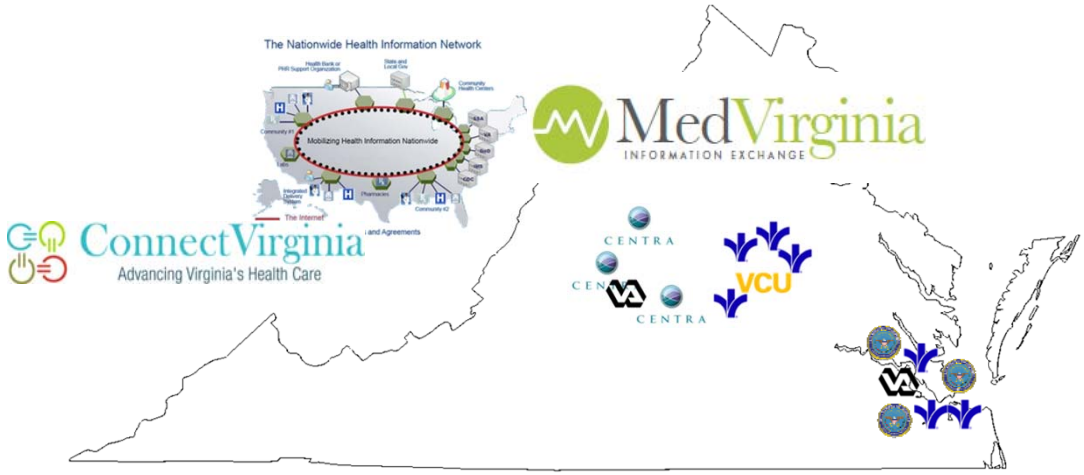
8,200 pharmacies

Supporting more than 100 million patients

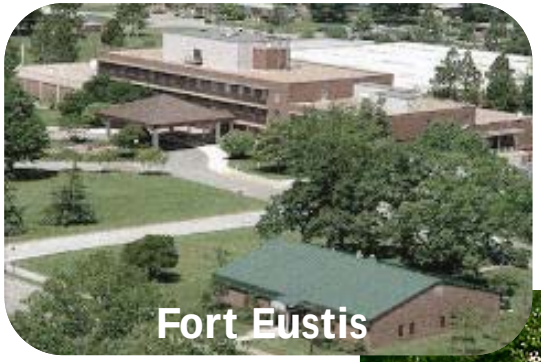
eHealth Exchange Case Study: Sharing Health Records to Improve Veteran Health in Virginia

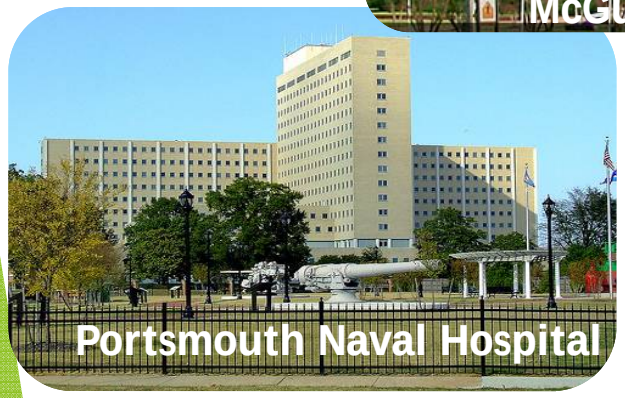
About MedVirginia

- Health information exchange in production for 10 years
  - Connects providers and health systems in Richmond and Hampton Roads
  - Supports ConnectVirginia, statewide HIE in Virginia
- First HIE in production on nationwide health information network, now eHealth Exchange (2009)
  - First HIE to connect to SSA (2009)
  - First HIE to connect to VA and DoD health records systems (2010)
- Federated Model with a gateway to connect to state, regional and federal partners
- A clinical portal to provide consolidated view of the data retrieved, with filters and sorting to enable tailor viewing data of interest
- Standards Supported: HL7, CCD, C62, C-CDA CCD Summary



Veterans Affairs & Department of Defense: VLER Partners





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VLER Health Exchange Metrics

VLER Health Exchange Metrics
November 30, 2009 through July 31, 2013

- **Cumulative VA Exchange Activity with Private Partners**
  - "Opted-in" Veterans (authorized sharing) 66,969
  - Veterans "matched" with partner 31,501
  - Health summary/text docs retrieved **from VA** 14,619
  - Health summary/text docs retrieved **by VA** 6,374

- **Cumulative DoD and VA Exchange Activity:**
  - Health summary/text docs retrieved **by DoD from VA** 5,025
  - Health summary/text docs retrieved **by VA from DoD** 84,855

As of 10/31/14: MedVirginia retrieved 45,006 VA health records since 2010, the largest volume of veteran health data retrieved. VA has retrieved 2,407 MedVirginia health records in this same timeframe.

143 of the 152 VA medical centers that have retrieved from the MedVirginia exchange

MedVirginia Pre-Fetch Workflow Enhancement

- Refine query process to fit within clinical workflow
- Enable administrative staff to pull records and have clinicians review historical summary of care prior to the veteran's visit
- Pre-fetch service automates search for records prior to visit
  - Patient schedule uploaded into portal and parameters set for searching for records (e.g. purpose of use, clinical date range, pre-chosen organizations)
  - Automated search and retrieval of available veteran records prior to the visit
- Efficiencies to have searches done in advance of the visit
- Enables additional administrative follow up prior to the visit (e.g. to obtain veteran consent, subsequent record searches, etc.)

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Key Take Aways

- Private sector providers are finding the clinical information from the VA comprehensive and valuable, when available, for clinical decision making
- Access to veteran health information is hindered by opt in consent
- Integrating health data sharing into clinical workflow (e.g. pre-fetch) is essential for adoption
- Access to veteran health data is starting to have direct impact to veterans in Virginia
  - Reducing readmissions
  - Timely historical records invaluable for veterans with organ transplants

eHealth Exchange™

For more information:

- www.ehealthexchange.com
- www.medvirginia.com