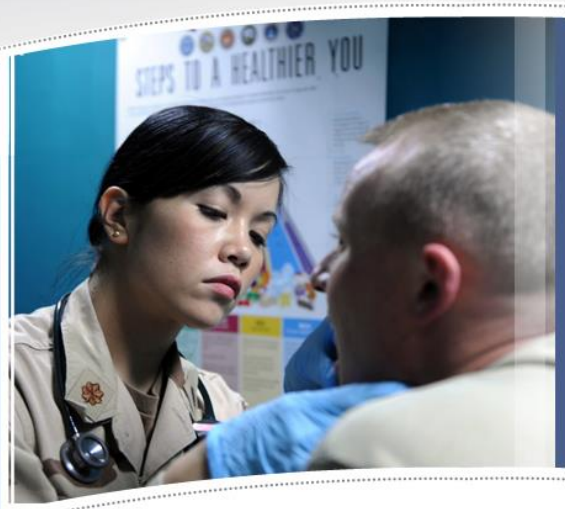
Defense Health Board, Core Board Meeting: Electronic Medical Records
Chuck Campbell, SES, Military Health System Chief Information Officer

INNOVATE | PARTNER | DELIVER | LEARN



U.S. Department of Defense

MHS MILITARY HEALTH SYSTEM

OCIO Office of the Chief Information Officer

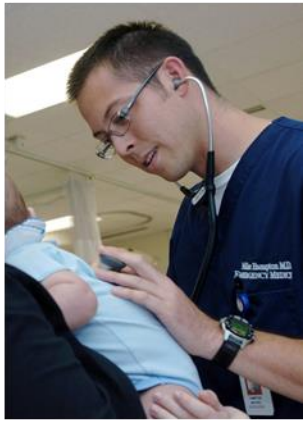
03 / 01 / 10

Agenda

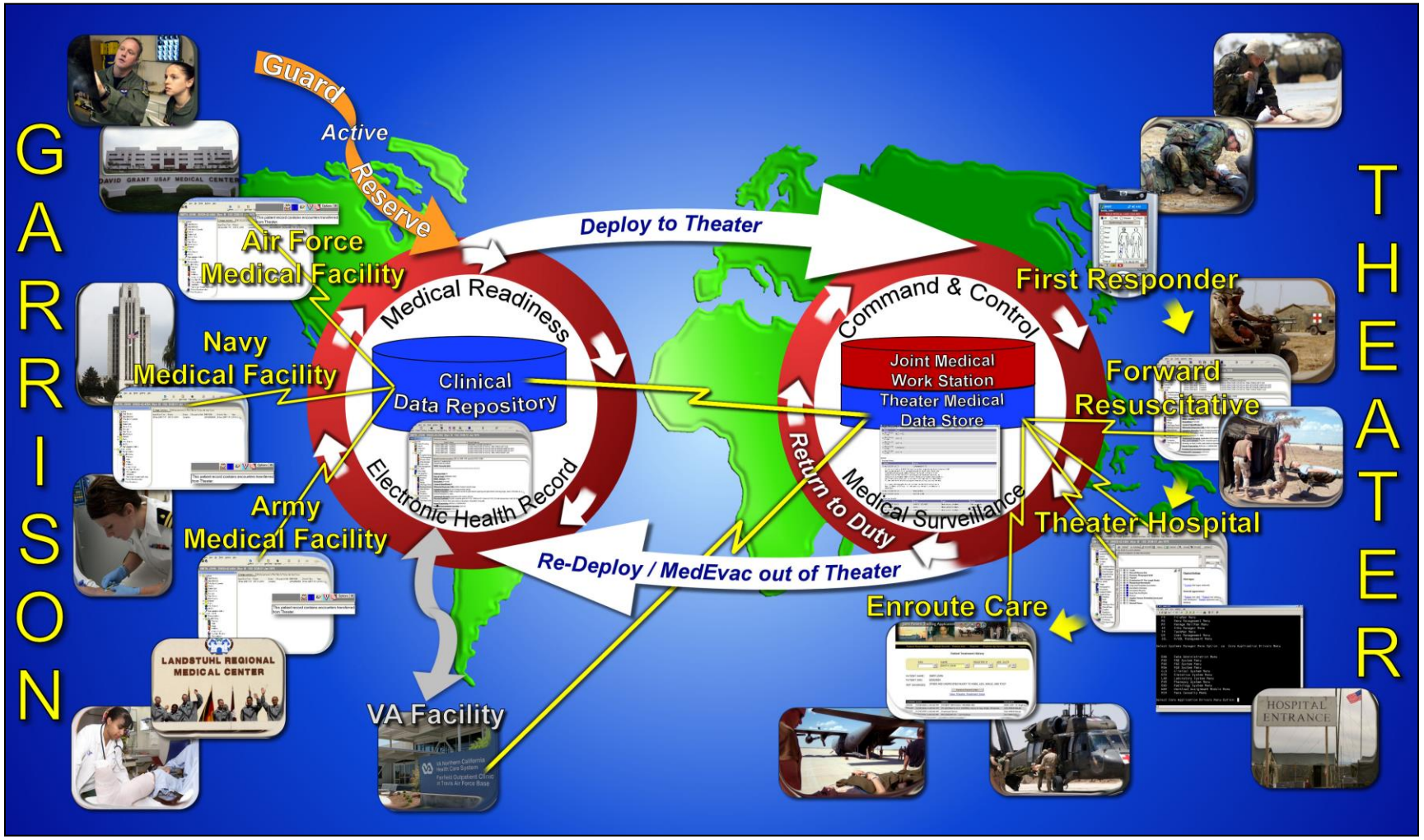
- Mission
- Continuum of Care
- Electronic Health Records
- Focus Areas for Improvement
- Potential Value of Structured Data
- Virtual Lifetime Electronic Record
- Wrap Up

Mission

Provide the right information to the right customers at the right time to improve and maintain the health status of our beneficiaries across the entire continuum of health care operations



Healthcare Is Local…
Information Is Global



Electronic Health Records

Problem

After the first Gulf War, DoD realized that health information must be captured in a machine-computable manner to enhance and expand research and analysis capabilities

Solution

The Military Health System developed a new Electronic Health Record family of systems that captures standardized, computable patient data in Garrison and Theater

Current Electronic Health Record Family of Systems

DoD Electronic Health Record

Garrison Outpatient Documentation
More than 135 Million outpatient clinical encounters captured electronically

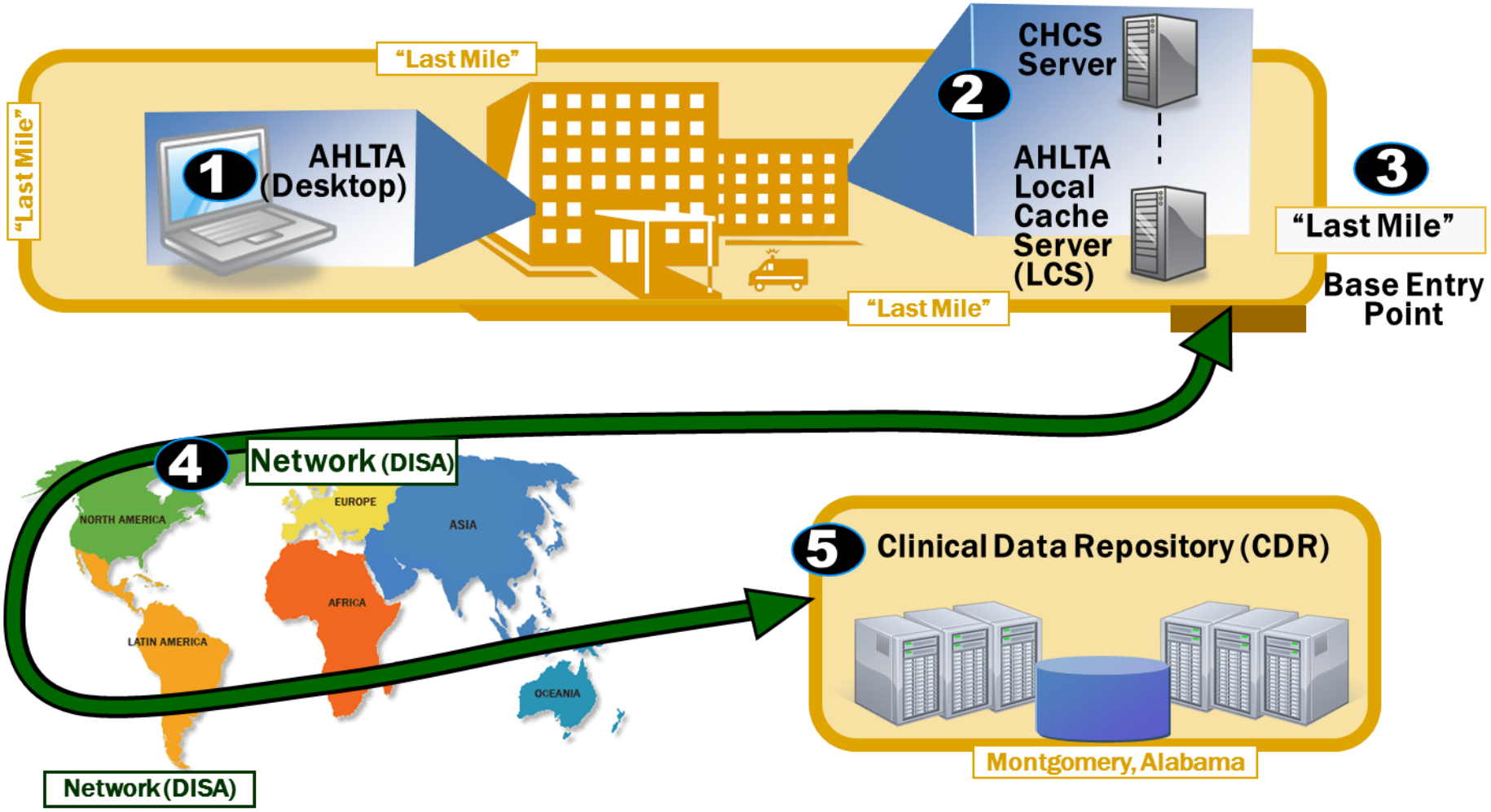
Theater Documentation
More than 3 Million outpatient clinical encounters captured electronically

Garrison Inpatient Documentation
Deployed at 30 sites, covering 67% of DoD's inpatient beds

Focus Areas for Improvement

- Speed
- Reliability
- Usability
- Efficiency
- Interoperability
- Capability speed-to-market
- Health record completeness

Speed and Reliability



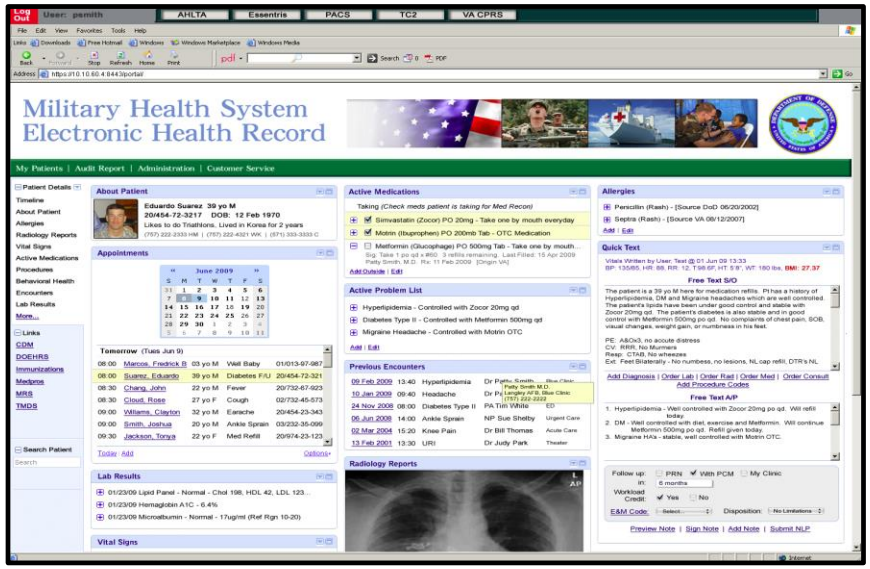
Usability and Efficiency

Single Sign-On and Context Management

-Users log in once and have access to multiple systems

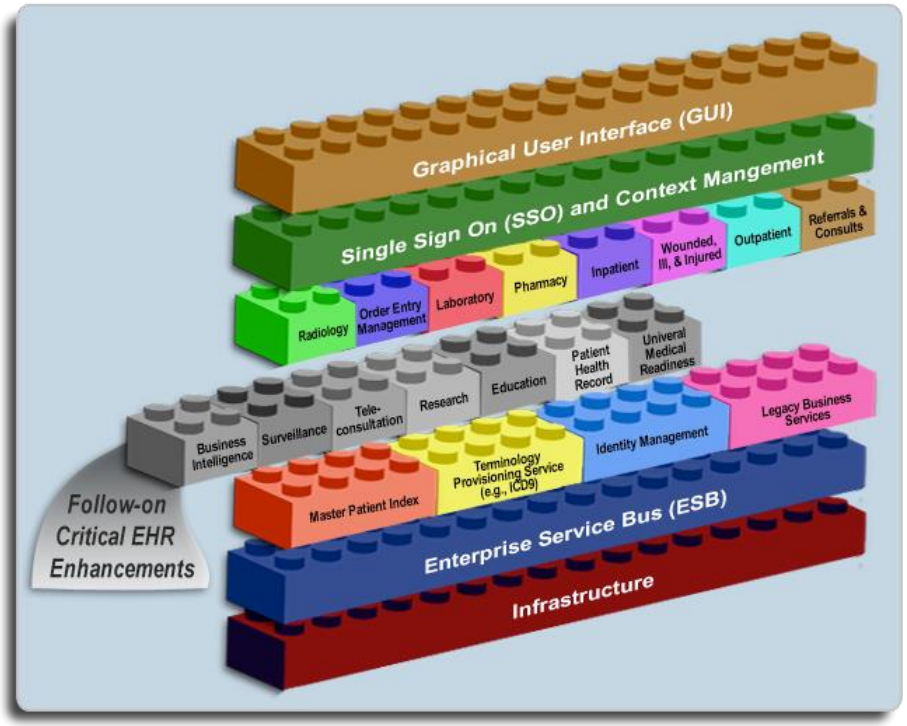
-Select a patient once and active clinical applications display patient's data

Graphical User Interface



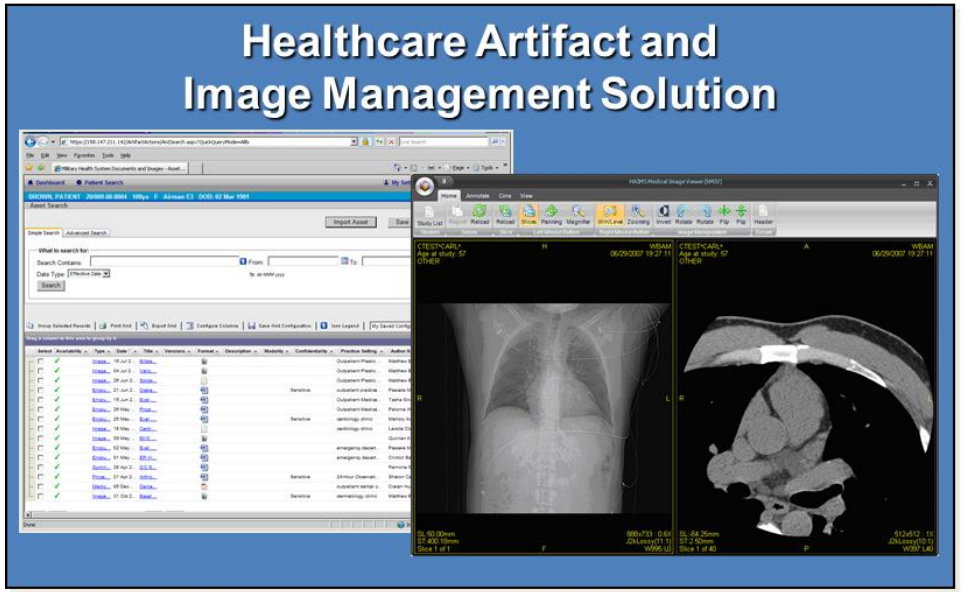
Interoperability and Capability Speed-to-Market

A flexible, modular backbone will improve interoperability, enabling faster delivery of needed information and capabilities as identified within the Functional Community



More Complete Patient Records

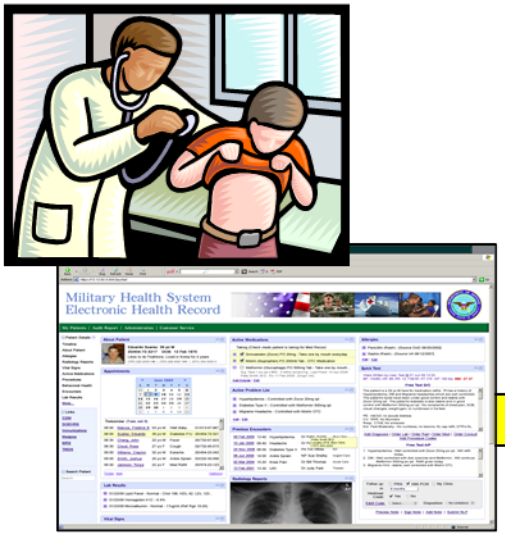
- Current records include core clinical data for patient care
- Functional Community identifying additional data types needed
- Improved architecture and infrastructure can enable plug-and-play
- Images and artifacts will be among the first data types added



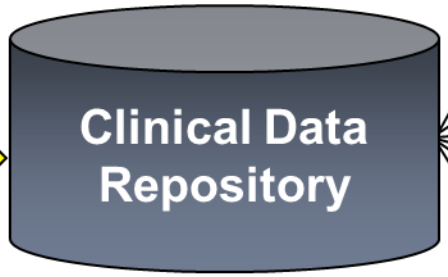
Global visibility of images and scanned or attached artifacts

Structured Data Collected Once, Used Many Times

Collected Once | Stored Centrally | Available Globally



Patient Visit
(Point of Care)



Standardized,
Computable Data

Beneficiary Self-Care Management
Personal Health Record

Provider Care
Patient Record, Safety Alerts, Best Practice Reminders

Business Decisions
Health System Management

Research
Clinical Practice Guidelines

Command and Control
Health Surveillance

Billing Processes
Coding, 3rd-Party Collections

External Interoperability

Problem

More than 60% of care in the Military Health System is purchased from civilian sources, yet…..

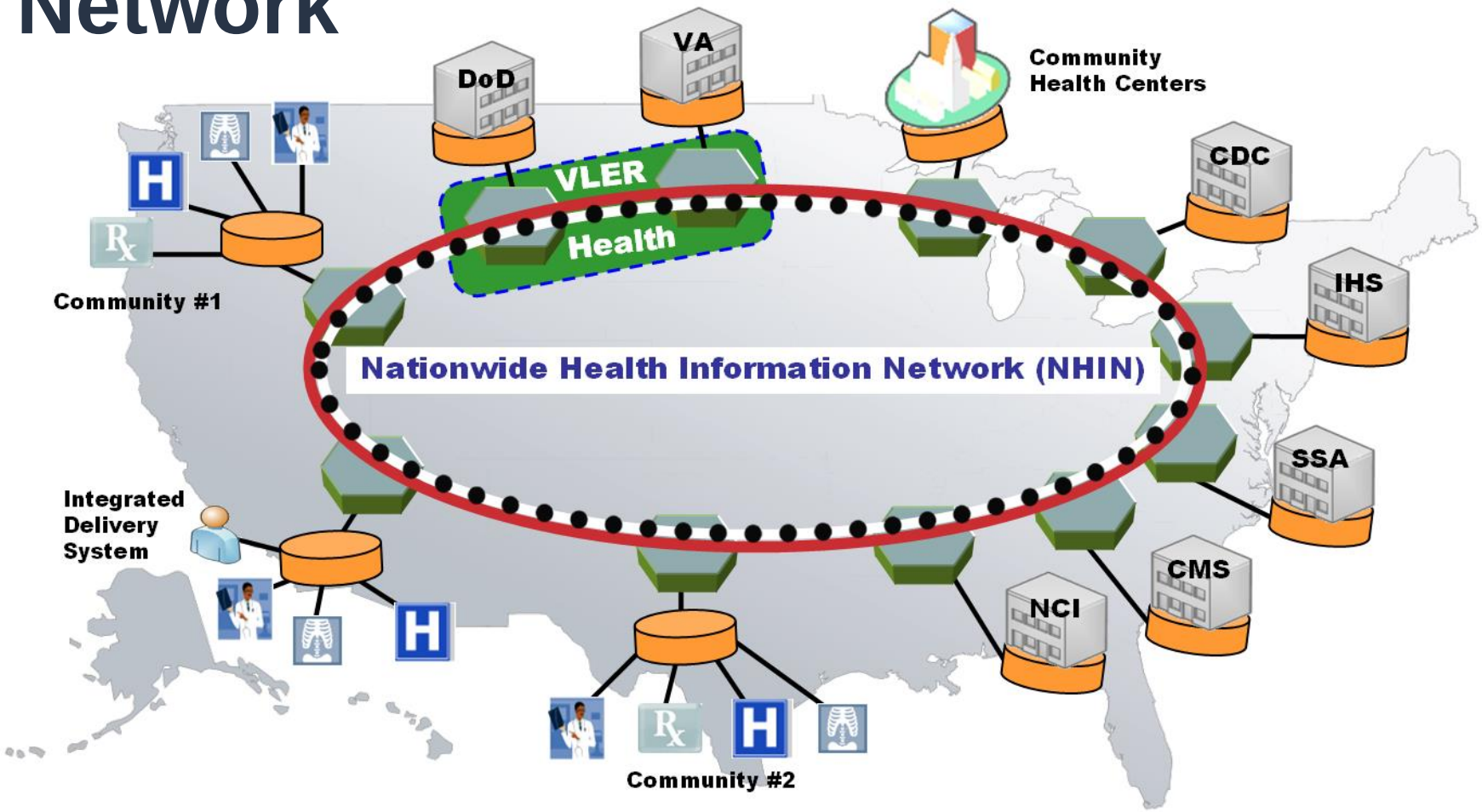
Only 8% of hospitals have basic electronic medical systems, and…

Only 17% of physicians use electronic records

Solution

Develop a Virtual Lifetime Electronic Record (VLER) for beneficiaries by leveraging current efforts led by the Department of Health and Human Services

Virtual Lifetime Electronic Record and the Nationwide Health Information Network



Questions?