



Federal Health EHR Interoperability: From Travois to Tertiary Care

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Arlington, VA**

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Who/What I Am...

- **VA/VHA Practicing Doctor/Physician/Surgeon**
- **Involved VA Medical Informaticist (yes, it's a word!)**
 - **Enterprise System Manager—VHA Office of Health Information, VA/DoD Joint Interoperability Ventures Portfolio (JIV)**
- **Key Interagency Sharing Roles**
 - **Executive Board Member, Interagency Clinical Informatics Board (ICIB)**
 - **Co-Chair ICIB “Clinical Business Architecture” sub-group**





VA and the Electronic Health Record (EHR)

- **VA's Expertise**
 - More than 20 years experience with EHRs
 - A major contributor to the national effort led by Health and Human Services (HHS) to develop the Nationwide Health Information Network (NHIN)
- **VA's EHR System, VistA**
 - “World class,” award-winning
 - Built by Clinicians for Clinicians -- key to successful development and adoption
 - Improves patient safety and reduces costs
- **VA and DoD sharing of electronic medical information**
 - Including pharmacy information, surgical reports, laboratory results, radiology results, allergies, vital signs, progress notes, and discharge summaries
 - On separated service members and shared patients who come to both Agencies for care and benefits





Who are we talking about?



***“To care for him
who shall have borne the battle
and for his widow, and his orphan”***

Second Inaugural Address

- **For Federal Interoperability this includes:**
 - All our Serving Forces – Active, Reserves and National Guard
 - All our Nation’s Veterans
 - All the Departments’ eligible beneficiaries

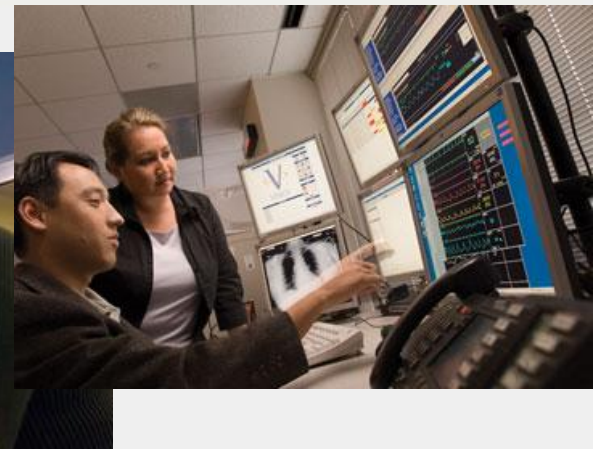
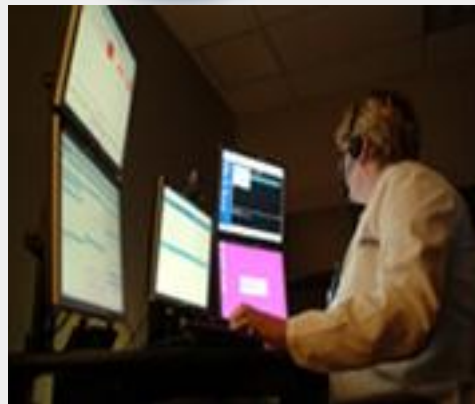


Travois-to-Tertiary Care





Intensive Monitoring





Tele-Health





Wearable Monitors





Lab/Vitals Monitoring





Interoperability Levels



- Device
- Home Health
- Emergency Transport



- EMR
- Administrative
- Business Intelligence



- NHIN Connect
- Health Information Exchange
- Transactional



EHR Health IT Services/Capabilities

Business Services –

Support clinical functions that are directly associated with a specific patient care task or process – encapsulating business process logic



Order Management



Scheduling



Medication Administration

Infrastructure (Utility) Services –

Support functions that provide cross cutting utility – application agnostic

Health Info Exchange (HIE)

Interface Management
Identity Management
Delivery/Routing
Access



Data Services –

Represents an entity-based operation that is related to data and meta data; an operation that does not directly perform a business function – business service agnostic

Clinical Registry
Terminology



Development Progression

**Waterfall
Development**



EXTREME

Programming



Agile Production





Conclusion/Summary

We CAN do this!

- **Bring EHRs TOGETHER for the best benefits for all US/National/Federal patients**
- **Smart/Agile interagency architecture, business processes, and development make it possible**

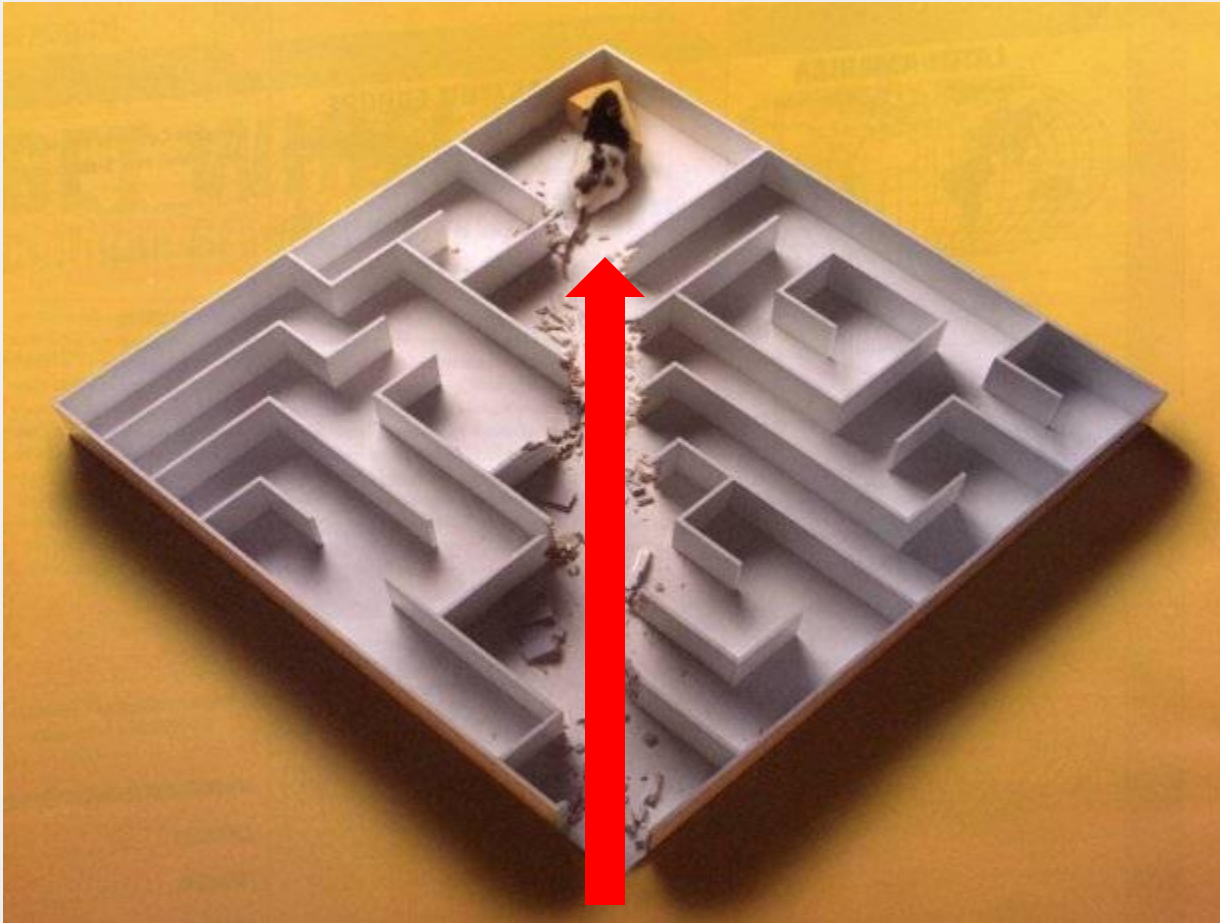
“It’s ALL ABOUT what’s best for OUR PATIENTS!”





Questions/Comments

Federal Health IT Interoperability



VHA OHI ESM—TEAM JIV

