

2016 Defense Health Information Technology Symposium

Making Interoperability a Reality: Connecting Legacy Systems to the New EHR



“Medically Ready Force...Ready Medical Force”

Learning Objectives

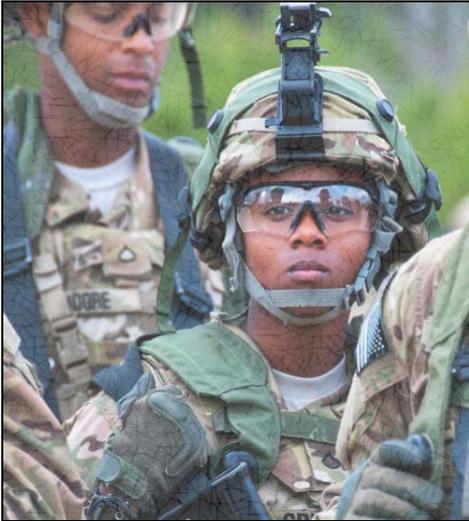
- Describe the challenges faced by the (Defense Medical Information Exchange) DMIX and EHR Core Program Management Offices in achieving interoperability of legacy and new EHR system data
- Discuss the governance framework for process improvement opportunities to support access to legacy patient medical data during deployment of MHS GENESIS
- Identify the role of the end user in the development of enterprise requirements

Agenda

- BLUF: Addressing enterprise requirements
- Defense Medical Information Exchange (DMIX) Program Management Office (PMO) overview
- EHR Core PMO overview
- Programmatic roadmaps
- Collaboration and governance
- Lessons learned

EHR Core and DMIX PMOs

Goal: to ensure healthcare providers have access to data stored in legacy systems now and in the future



- DMIX PMO manages:
 - Joint Legacy Viewer (JLV) Health Information Portal
 - DMIX Data Exchange Service (DES)

- EHR Core PMO manages:
 - AHLTA
 - Composite Health Care Systems (CHCS)
 - Clinical Data Repository (CDR)
 - Clinical Information System (CIS) – Essentris

Bottom Line Up Front



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- Address enterprise requirements and data defects
- Successfully implement Military Health System (MHS) enterprise requirements

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DMIX PMO Overview



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Program Executive Office Defense Healthcare Management Systems Mission



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To efficiently improve healthcare for the active duty military, Veterans, and beneficiaries by:

- Establishing seamless medical data sharing between DoD, the VA, and the private sector
- Modernizing the electronic health record (EHR) for the Military Health System



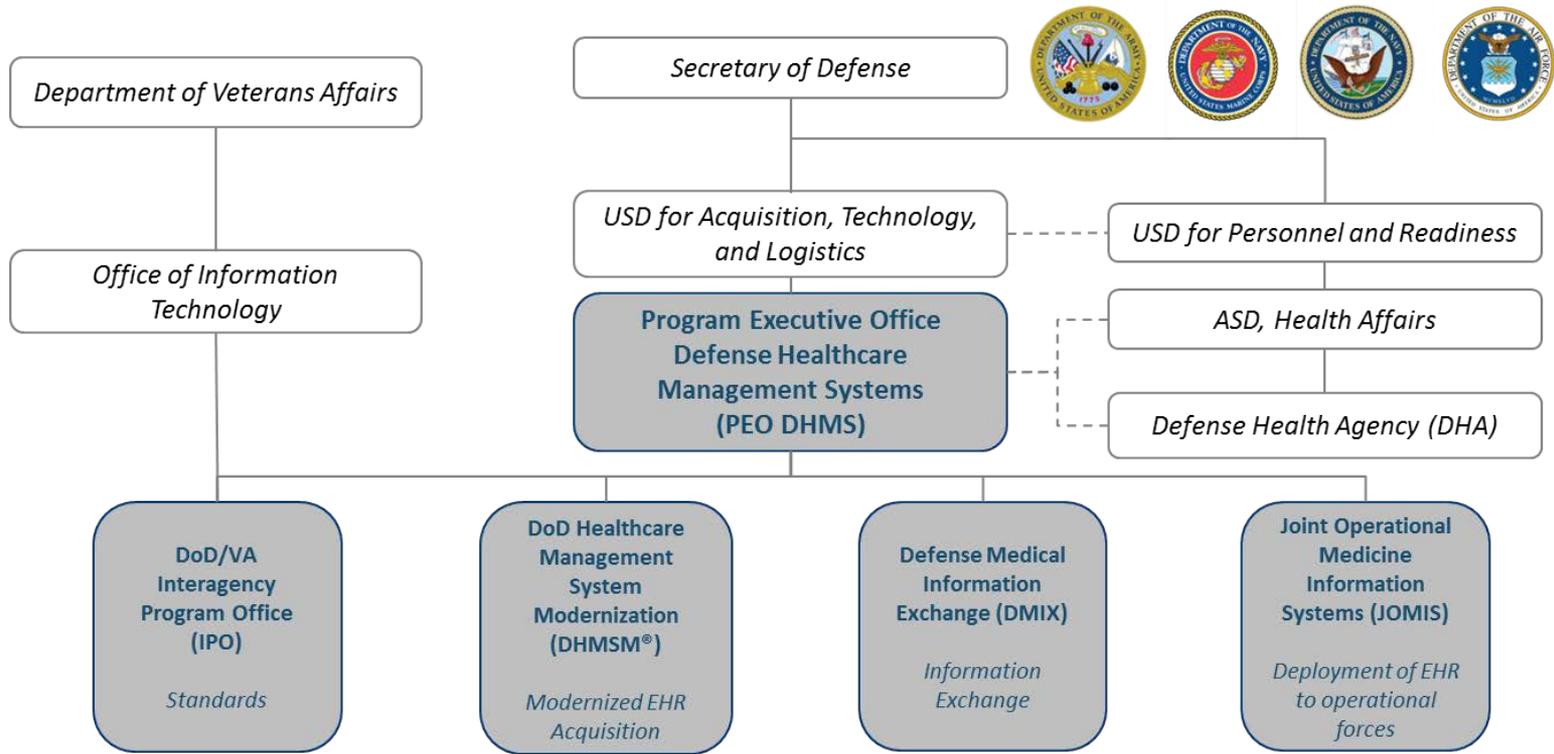
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PEO DHMS Alignment



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DMIX PMO Mission

To provide technical solutions for seamless data sharing and interoperable EHRs that will evolve with national standards

Data Accessibility

Exchanging data, consistent with national standards, with Federal and private sector partners



Result

Access to more data faster than ever before

Viewer Capability

A common viewer through which healthcare teams and benefits administrators can access DoD, VA, and private sector health data

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DMIX Architecture

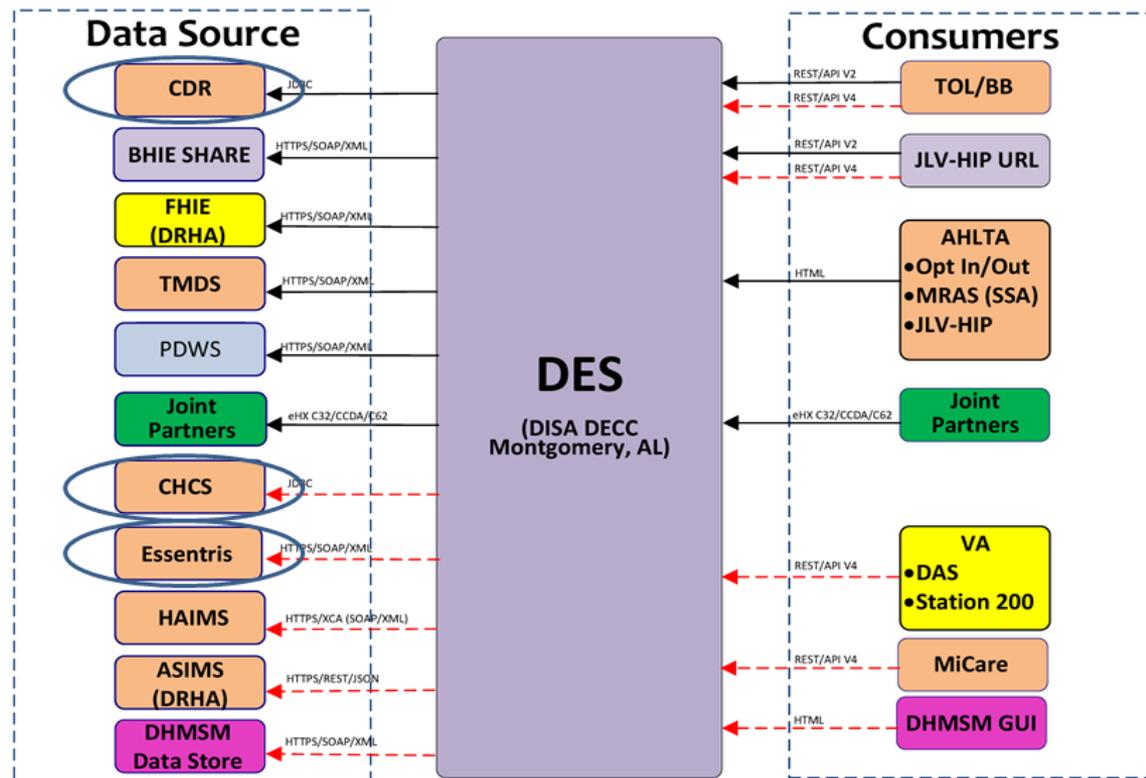
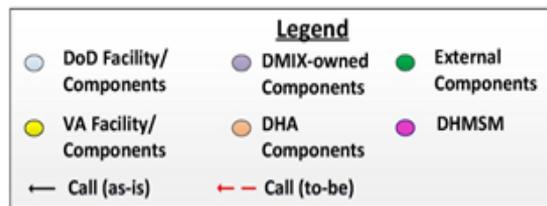


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- DMIX DES data sources include assets managed by EHR Core PMO:

- 1) CHCS, historical patient data
- 2) CDR, historical patient data
- 3) Essentris (CIS), inpatient medical data



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EHR Core PMO Overview



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Solution Delivery Division Mission

Deliver information technology solutions to the MHS through expert acquisition program management, process reengineering, training, and integration activities in order to support and advance the delivery of health care to our patients

ARMY



NAVY



MARINES



AIR FORCE



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EHR Core PMO Mission

To provide and sustain the current, comprehensive electronic health record and related medical systems, embracing the future by collaborating with our government and industry partners to support service members and beneficiaries worldwide

Inpatient - used in acute hospital environments, providing point-of-care data capture at the patient's bedside



Outpatient - processes more than 150,000 new encounters daily; primary clinical info system used to help generate, maintain, store and securely access data for 9.4 million beneficiaries

Blood Systems - Two systems which cover collecting, screening, managing, and transfusing blood to maintain and track blood donations and product inventories

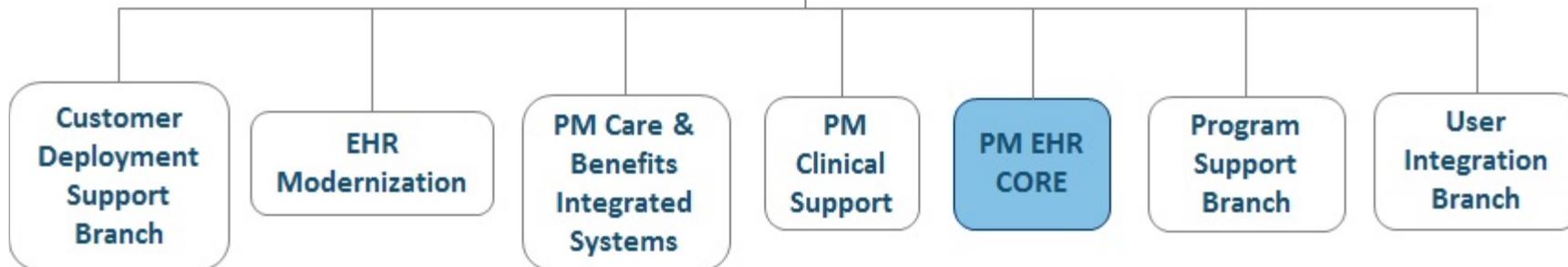
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EHR Core PMO Organizational Chart



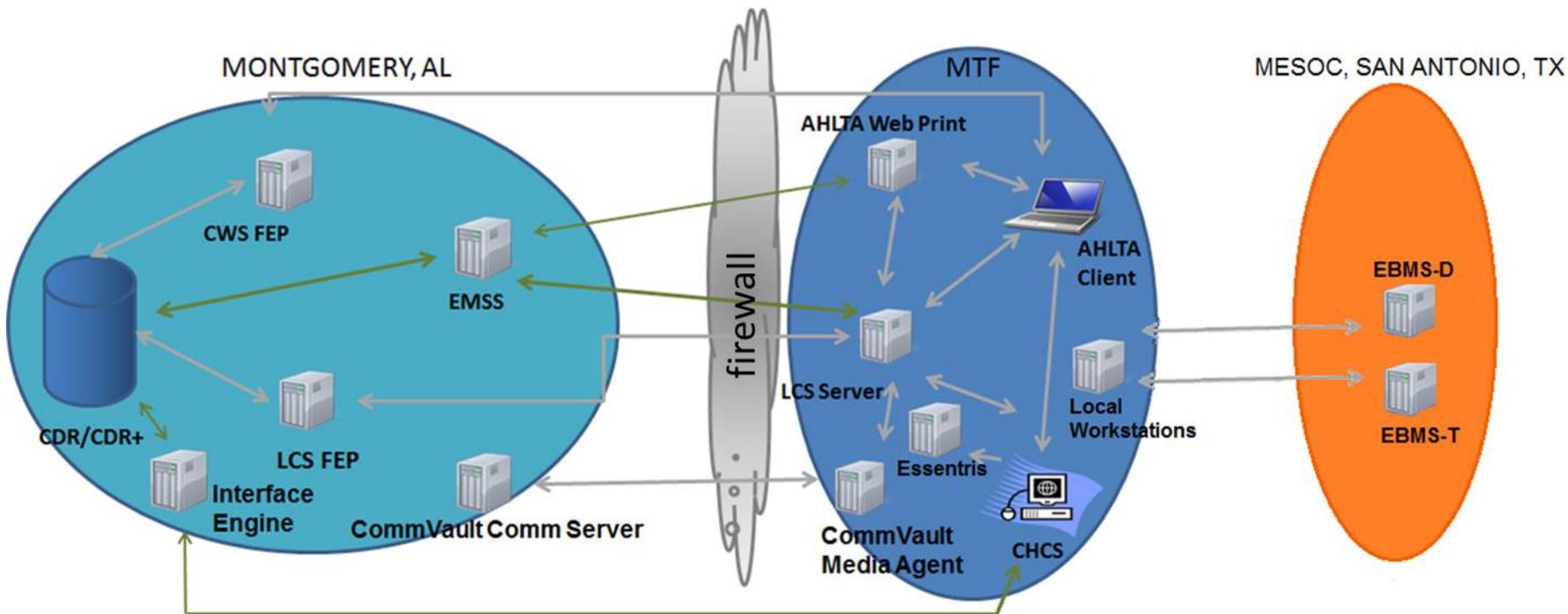
DHA Health IT

Solution Delivery Division



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High Level AHLTA Architecture



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Programmatic Roadmaps



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DMIX PMO Roadmap



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- Key Milestones (FY15)

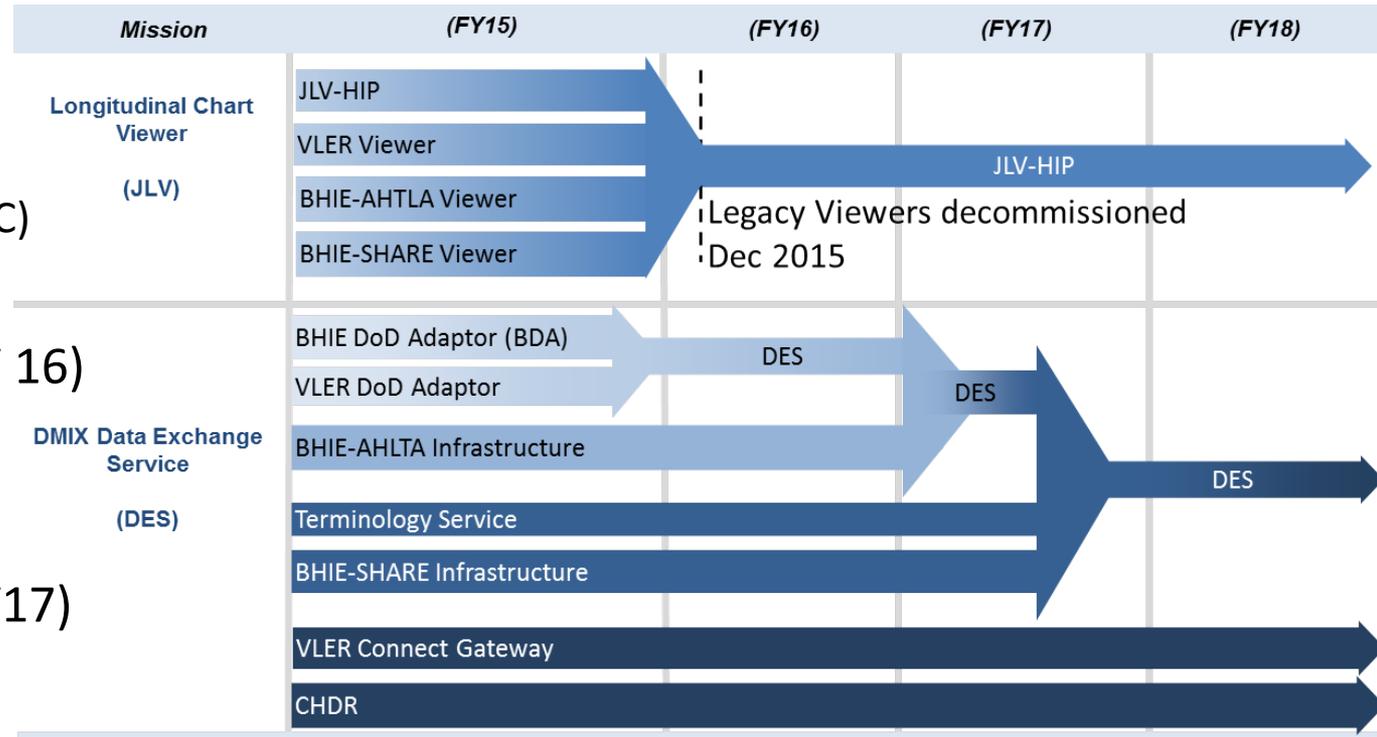
- Release 2
- Milestone C (MS C)
- Release 3

- Key Milestones (FY 16)

- Full Deployment Decision (FDD)
- Release 4

- Key Milestones (FY17)

- Release 5



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EHR Core – MHS GENESIS Integration and Legacy Systems Data Migration Roadmap

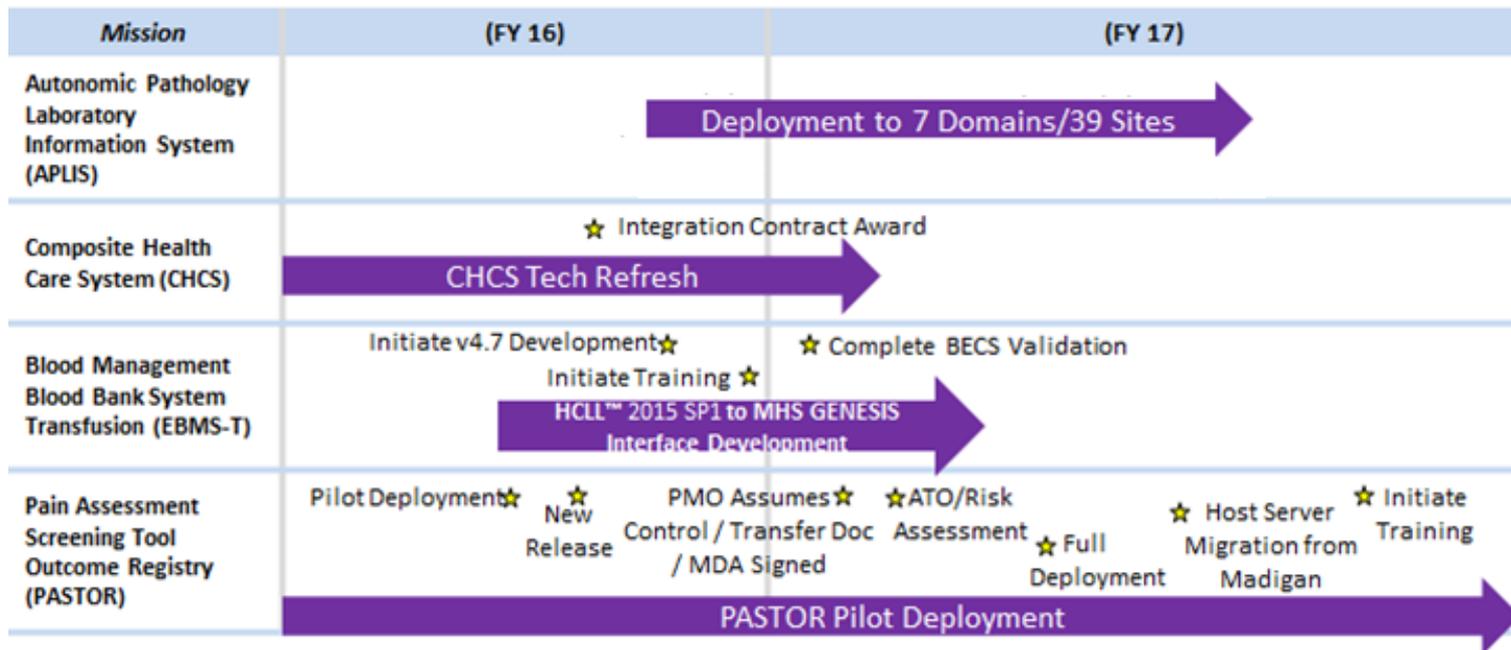


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DHMSM
IOC
(FY17):

EHR Core
systems
aligned in
the Pacific
Northwest
to support
MHS
GENESIS
IOC timeline



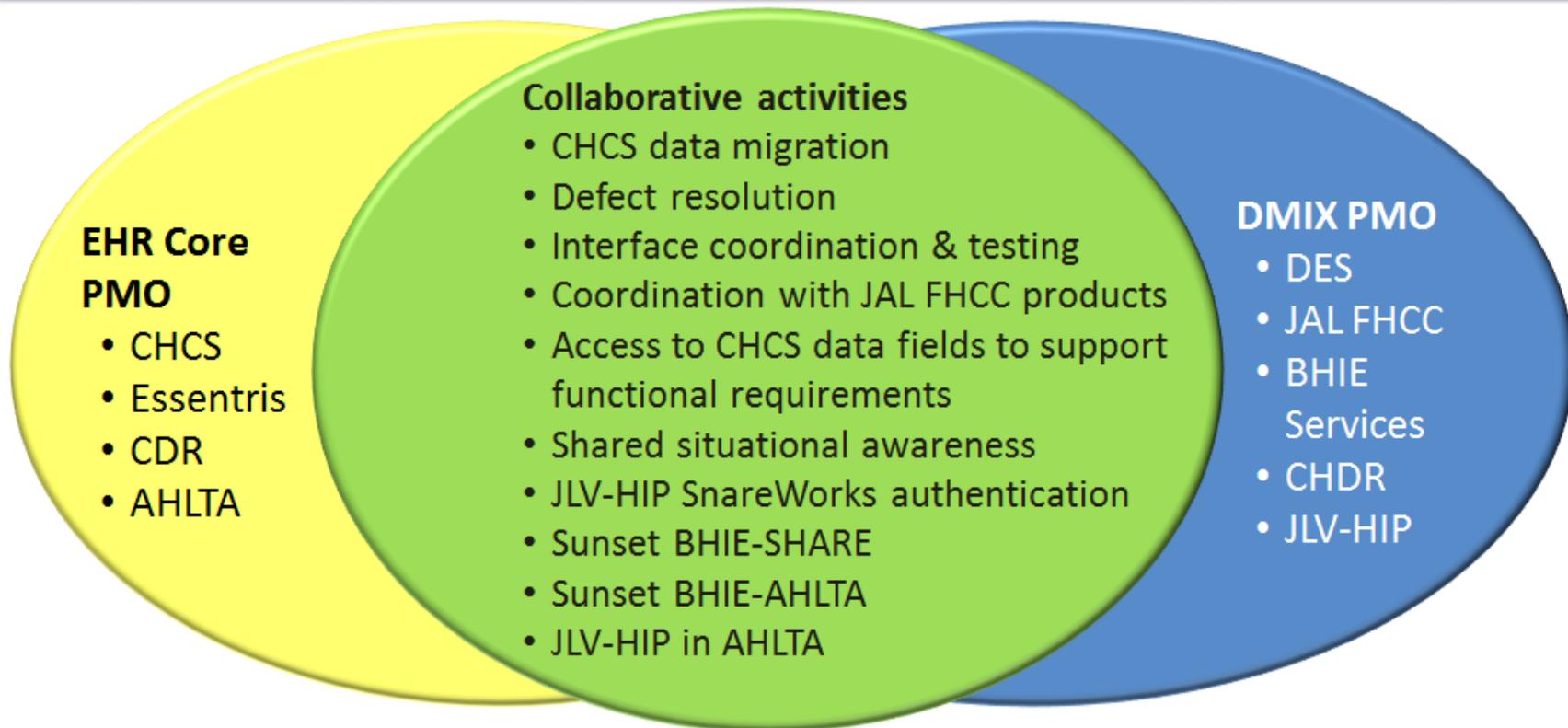
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Collaboration and Governance



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Collaborative Activities



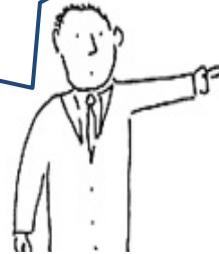
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Here Is What Happened...

...We are getting reports of bad data in JLV, but it looks like it is also bad in the CDR...

...We need to look at changing the interface between our systems...

...We need new queries to the legacy system, who can we talk to about the data structure?...



DMIX PMO EHR Core PMO

**Why are they so unresponsive?
These are enterprise requirements!**

...We have a full plate of problems that we are already working...

...We want to help but we have limited contract resources...

...All these changes are going to cost money, but we don't have extra funds...



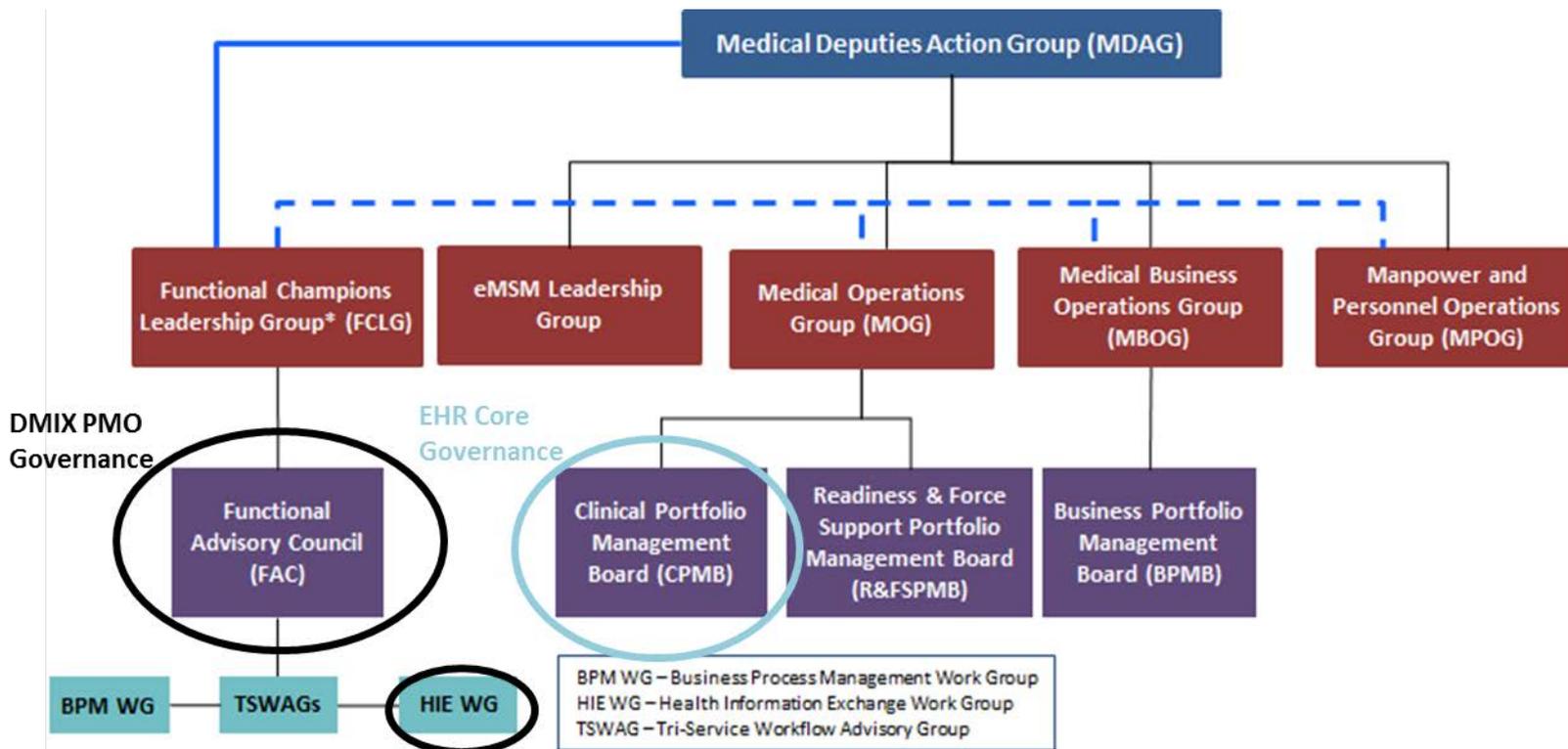
**Why are they so demanding?
Don't they know we have many other customers?**

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Step 1: Structure Communications

- Set regular meeting with all stakeholders
- Keep running list of all topics / touchpoints
- Start and end on time
- Drive decisions in the meeting
- Keep transparent through notes / minutes

Step 2: Understand and Use Governance



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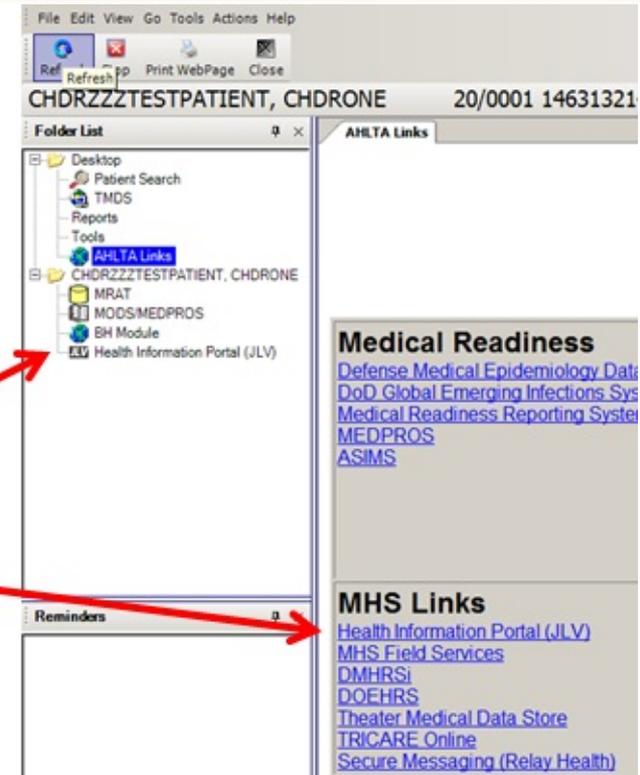
Step 3: Stay Engaged As Leaders

- Set a positive tone
- Persist in working issues through to completion
- Deal with conflicts quickly and decisively
- Don't hold a grudge
- Place highest value on the right answer – not the easiest or most expedient

Collaboration Example: Changing AHLTA Links

- FAC asked DMIX PMO to change the viewer name to Health Information Portal (JLV)
- DMIX PMO changed the name on products and documentation
- DMIX PMO collaborated with EHR Core PMO to change the name within AHLTA

JLV link changes implemented



File Edit View Go Tools Actions Help

Ref Refresh Print WebPage Close

CHDRZZZTESTPATIENT, CHDRONE 20/0001 14631321

Folder List

- Desktop
- Patient Search
- TMDS
- Reports
- Tools
- AHLTA Links**
- CHDRZZZTESTPATIENT, CHDRONE
- MRAT
- MODSMEDPROS
- BH Module
- Health Information Portal (JLV)

Reminders

AHLTA Links

Medical Readiness

- [Defense Medical Epidemiology Data](#)
- [DoD Global Emerging Infections Sys](#)
- [Medical Readiness Reporting System](#)
- [MEDPROS](#)
- [ASIMS](#)

MHS Links

- [Health Information Portal \(JLV\)](#)
- [MHS Field Services](#)
- [DMHRSi](#)
- [DOEHRS](#)
- [Theater Medical Data Store](#)
- [TRICARE Online](#)
- [Secure Messaging \(Relay Health\)](#)

Other Collaboration Examples

- Defect resolution for data issues in legacy systems
- Address new functional requirements through exposure of additional data through interfaces
- Coordinate changes during downtimes to avoid surprises

Lessons Learned



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Key Takeaways

- Establish clear understanding of executable enterprise priorities
- Synchronize governance processes to gain efficiencies and maintain clear communications
- Streamline POCs to ensure clear, well-organized communication
- Leverage a team-oriented process along with traditional governance to quickly resolve issues

Questions?

Learn more:

-  www.health.mil/dhms
-  www.milsuite.mil/book/groups/mhs-genesis
-  @DoD_EHR
-  Defense Healthcare Management Systems

Evaluations



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Please complete your evaluations

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