Health Information Technology Innovation and Development Environments (HITIDE)

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OSEHRA
Overview

- HITIDE Mission/Emergence
- HITIDE Facilitation and Phases of Engagement
- Strategy—Phase Objectives
- Governance
- Summary
HITIDE Mission: *To promote, broker, and facilitate the discussion of bringing Health IT Innovation and Development Environments TOGETHER, to further the innovation and development of common Health IT Programs and Products, for Interagency Interoperability*

• Under the auspices of the [White House](https://www.whitehouse.gov) Office of Science and Technology Policy, and the [NITRD](https://www.nitrd.gov) Health IT R&D SSG

• **Leadership Guidance**--
  – **Connect** Department/Agency Innovation, Test, and Development Environments
  – **Authority** for Access permissions/requirements across agencies (HHS, VA, DoD and HIS inviting non-federal partners)
  – **Guidelines** for out-facing, security, and MOAs/MOU s
  – Establish an “**Active Innovation Ecosystem**”
Significant Health IT challenges/constraints in order to “operationalize” Electronic Health Record interoperability

Current and future “architectures” do not have a clear path of transformation

Legacy information systems are relied on for current healthcare delivery, however as new products emerge, there needs to be a test-bed representation in order to integrate future technology and architectures.

Health IT Research and Development (HITRD) was established under Networking IT R&D (NITRD), to identify national “Game Changing” opportunities:

1. Health IT
2. Disaster Prep and Response
3. Device Interoperability
4. Population Health
5. Clinical Trials
Sandbox of Sandbox’s Federated Test-Beds

NIH
CDC
SHARP Sites
Vendor Community
Open Source
VA
DHS
DoD
HHS
NIST
FDA
DHS
NIH

“HITIDE”

SHARP Sites
Vendor Community
Open Source
Phase 1—
Intra-government coordination of Federated Environments

Phase 2—
Incorporation of Federal and Federally Funded Private Environments

Phase 3—
Incorporation of Academic and Industry Environments

Active Innovation Ecosystem
Federated Private-Public-Academic-Open Source-Industry Consortium
HITIDE “Chartered” Governance

(Above Federal-Interagency-Level)

White House
Office of Science & Tech Policy (OSTP)

NITRD/NSF

HITRD SSG

HITIDE

HITIDE Co Chairs:
Dr. Doug Rosendale, VHA OHI
Mr. Mark Goodge, DoD MHS

*N (Networking & Information Technology Research and Development/National Science Foundation, Health Information Technology Research & Development)
Operational Governance

Think Tank HITRD
20 Federal Chief Scientist
“Game Changers”

HHS/CIO Office:
Administrative Coordination
Private/Public

Agency
Level Projects

Single Federal MOU
## iEHR Increments

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### Increment 1 (2)
- Single Sign On/Context Management (SSO-CM)*
- JANUS GUI Allergies Write-Back

### Increment 2 (14)
- Access Control*
- Identity Management*
- User Experience (UX)/Outpatient Documentation**
- Information Model and Terminology Services*
- Federated Data Repository/Data Warehouse*
- Network and Security Architecture*
- SOA Suite/ESB
- Pharmacy**
- Immunization**
- Portal Framework*
- Laboratory & Anatomic Pathology**
- Orders Service**
- Clinical Decision Support (CDS)/Alerts and Reminders**

### Increment 3 (13)
- Barcoding**
- Care Management**
- Registration/Enrollment/Eligibility
- Document Management
- Emergency Department Care
- Disability Evaluation
- Consult & Referral Management
- Scheduling/Appointment
- Secure Messaging
- Radiology/Imaging
- Dental Care
- Personal Health Record
- Credentialing**

### Increment 4 (7)
- Operating Room Management
- Medical Device Management
- Anesthesia Documentation
- Mental Health
- Global Image Access
- Patient Questionnaire

### Increment 5 (7)
- Patient Education
- Encounter Coding
- Limited IT Connectivity
- Nutrition Care
- DoD/VA Registries
- Patient Portal Infrastructure
- Patient Consent

### Increment 6 (10)
- Disease Management
- Patient Self Report
- Teleconsultations
- Blood Management
- Private Sector Data Access
- Business Intelligence
- Patient Safety Reports
- Utilization Management
- Genomics
- XML Forms Tool*

* Denotes Infrastructure Capabilities
** Denotes initial delivery of capability that will span across increments
HITIDE is a “good-news/win-win” story for the nation

• Impact—Sandbox of Sandboxes- Many to Many Relationships-Real Life Interoperability Prototyping
  A Federated Framework of connected test-beds
  Active Innovation Eco-System

• Leveraging Existing Federal Resources, in coordination with academic and industry partners in order to solve national health IT challenges

• Creates a de facto “Knowledge Network” or consortium that can represent the emerging “Standards” and “Interoperability” reference models


• https://sandbox.vainnovation.us/groups/sandboxdocs/

• https://sandbox.vainnovation.us/groups/mdws/

• http://mdws.vainnovation.us/mdws2/EmrSvc.asmx

• http://mdws.vainnovation.us/mdws2/EmrSvc.asmx?op=connect

• http://mdws.vainnovation.us/mdws2/EmrSvc.asmx?op=getAllMeds