



OSEHRA

Open Innovation For Health IT

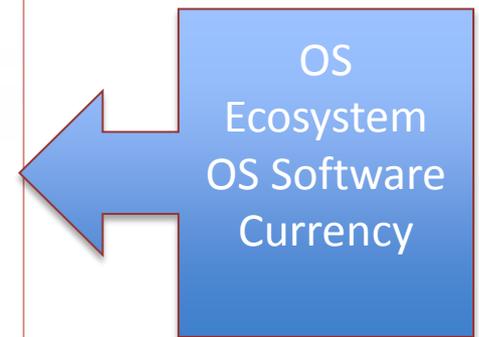
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Open Source Electronic Health Record Agent

Custodial Agent

- 501-C-6 Not for Profit Organization
- As a result of agreement between DoD and VA
- Independent Board of Directors
- Operations of an OS Electronic Health Records (EHR) Software Development Ecosystem – Membership Organization
 - Developers
 - Users
 - Vendors and
 - Service providers.



Open Source Software

OSEHRA COMMUNITY ACTIVITY

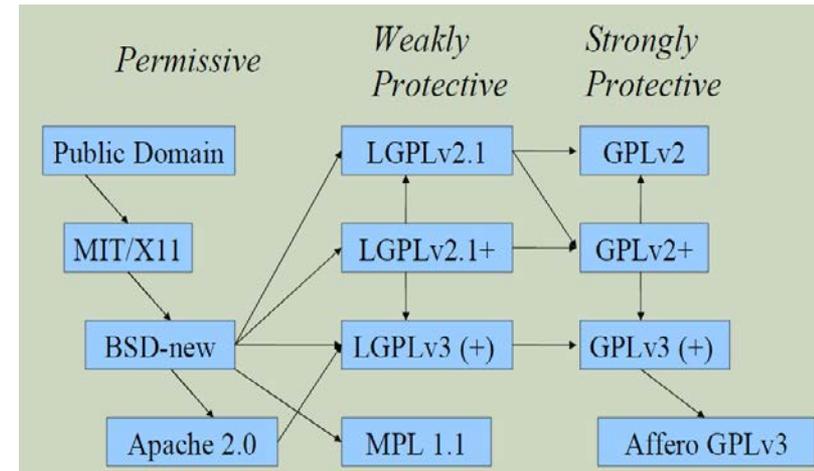
Principles

- The freedom
 - to run the software for any purpose.
 - to study and modify the software.
 - to copy the software
 - to improve the software.

Benefits

- Promote
 - Continuous Refresh of Code
 - Continuous Quality Improvement
 - Plug and Play Apps Model
 - Disciplined Documentation
 - Standards
 - New Business Models
- Avoid Vendor Lock-in

License: Apache 2.0



- The code is protected by copyright.
- The code can be used in closed source projects.
- The code can be included in projects with more restrictive licenses.
- Program that use it can be sold and licensed commercially.
- Derivative works need not be released.
- Provides a low entry path for contributors to add to the code base.

OSEHRA Development Tools

Software Quality and Certification Dashboard



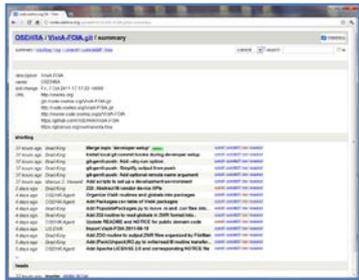
Gerrit Code Review Site



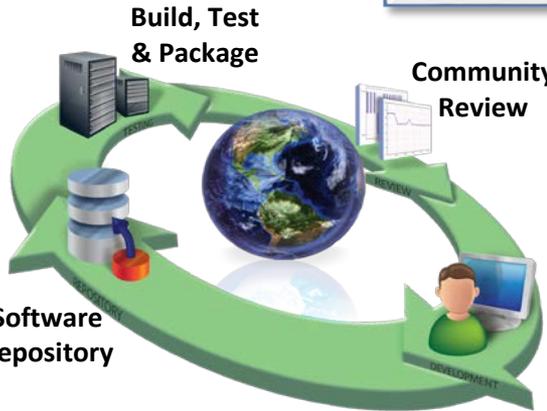
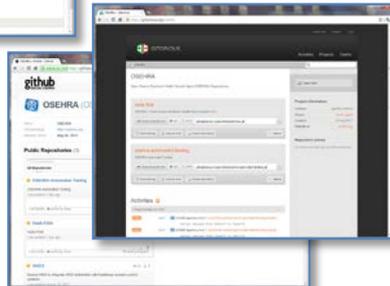
Technical Journal



Git Repositories

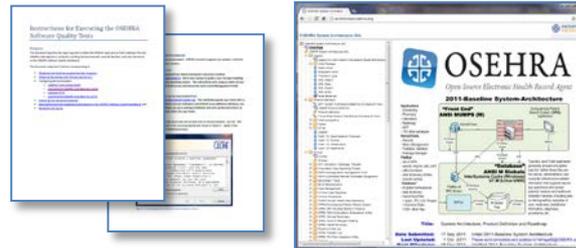


... + Mirrors



Developers & Users

Educational Resources



Web Site



GOV (VA, HHS, DoD) OS: Museum Model



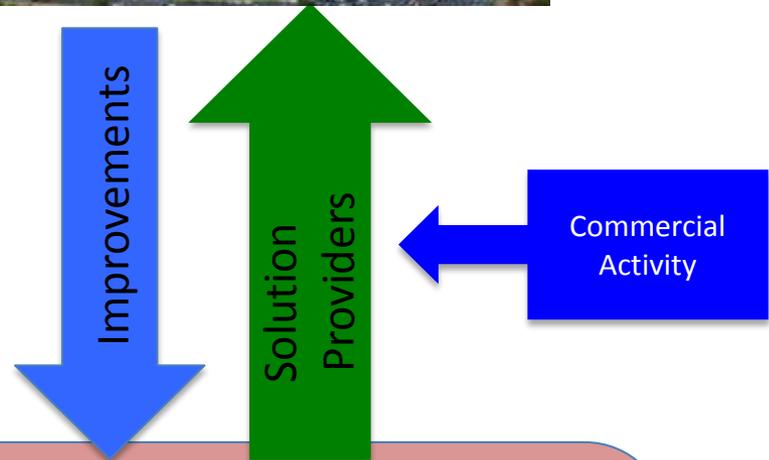
OSEHRA Activity



Changes and Improvements w/Community Participation

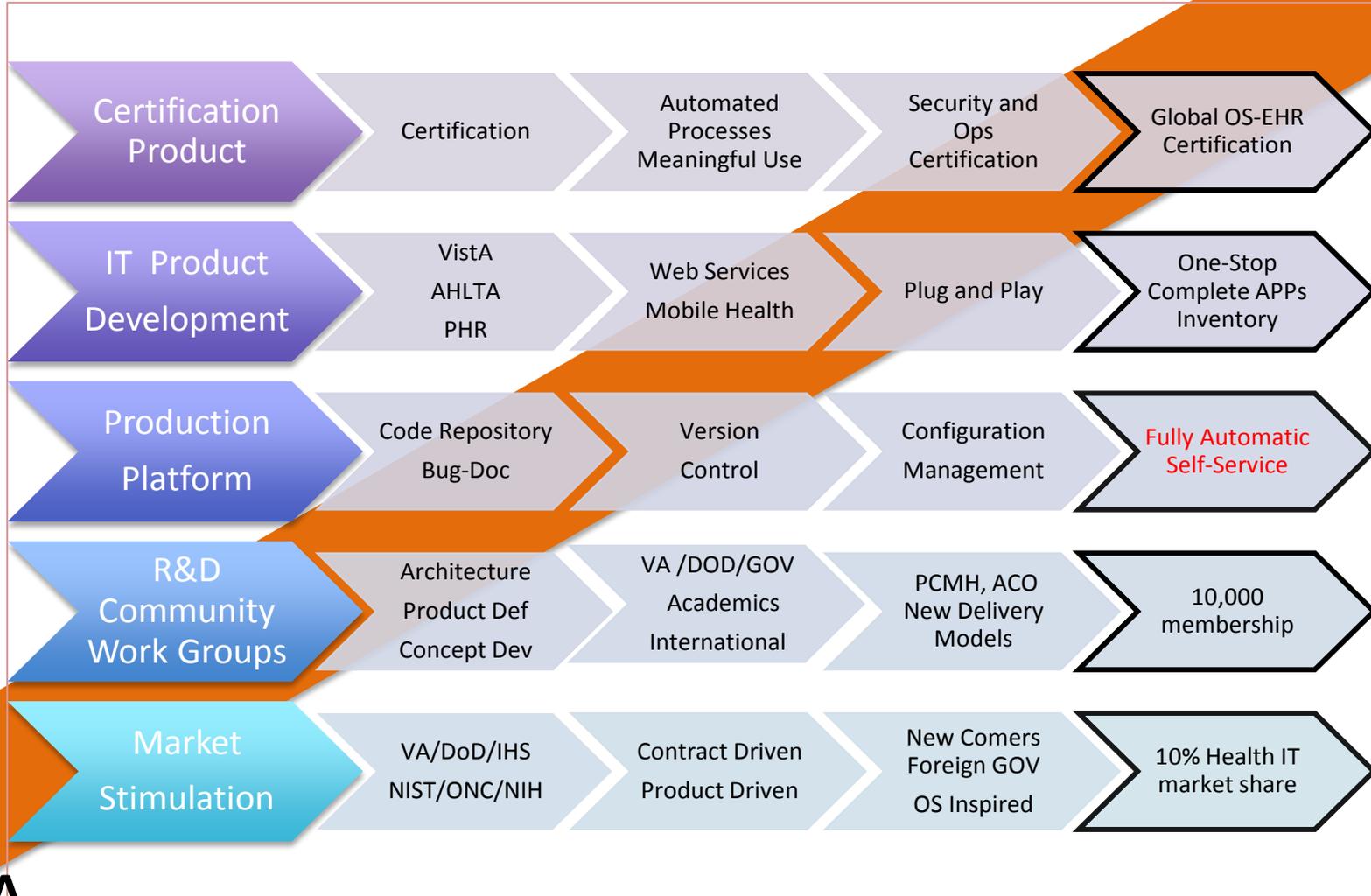


Always Current,
Reusable Components,
Efficient Tools



OSEHRA Functions for Rapid Open Innovations for Health IT

OS-Health IT



HIT
VistA
AHLTA

External to
OSEHRA

Performance Testing
Security Testing
FDA Clearance

Code Contribution-Acceptance
How does OSEHRA manage the code?

OS Certification
Steady State

Documentation:
Requirements, Code, Testing
Maintenance, Users Manual, Tutorial,

- Testing, Testing Suites
- S/W Quality Assurance
- Unit Testing
- Functional Testing

Initial
Submission

- Licensing
- Ownership
- Contribution Agreement
- Dependencies to Proprietary
- Apply Apache 2.0

Who is in charge?

- Critical Core Issues
 - Benevolent Dictator/Oligarchy
 - (Sponsor and a respected community leader)
- Technical Issues
 - Meritocracy- Best Solution
 - Community Enforcement
- Business Issues_ Emerging Business Models
 - Open Competition – Best Service
 - It is no longer product driven business
 - Android, Apple, Nokia and others as examples

2012 Work Groups by OSEHRA Core Functions Development Strategy by Enabling the Community WG's

	VistA Code (EHR)	Innovation Modules	Health IT Interoperability	iEHR
Certification Product	<ul style="list-style-type: none"> • Meaningful Use Certification • Scheduling Competition • Certification 		<ul style="list-style-type: none"> • Interoperability Testing 	
Product Development	<ul style="list-style-type: none"> • Architecture • Code Convergence • FileMan Convergence • Drug File/Pharmacy • Web Services • Refactoring • Lab Modules • Roll and Scroll • UI Extension 	<ul style="list-style-type: none"> • M-Health • PHR - Blue Button • Patient Centered Care • Genomics • Imaging 		<ul style="list-style-type: none"> • Architecture • VLER
Production Platform	<ul style="list-style-type: none"> • Development Tools • SKIDS • Comparison Tools 			

How to work with OSEHRA?
 Join the work groups!
 Develop a workgroup!

Submitted Codes

VOLDEMORT	Ray Group	OSEHR Github Repository
pyVistA	Caregraf	OSEHR Github Repository
RASR	Ray Group	OSEHR Github Repository
RPMS	Indian Health Services	OSEHRA gets it from Pub Site
AHLTA-T	DoD	OSEHRA Github Repository
Medical Domain Web Services (MDWS)	VA	OSEHRA Technical Journal
Appointment Postcard / Notification Letter v4.0	VA	OSEHRA Technical Journal
Scheduling Package Refactoring API	Ray Group	OSEHRA Technical Journal
Surgical Quality Workflow Manager (SQWM) Phase 1	VA	OSEHRA Technical Journal
Problem List Refactoring	Ray Group	OSEHRA Technical Journal
Janus 4.0	Hawaii Research Group	OSEHRA Technical Journal
HealtheMe – Health and Wellness Management System	KRM	OSEHRA Technical Journal
Anonymizer Functions	Air Force	OSEHRA Technical Journal
VistA M Routine Analyzer	Ray Group	OSEHRA Technical Journal
Computerized Patient Record System v29	VA	OSEHRA Technical Journal
Converter from Cache to GT.M	VA	OSEHRA Technical Journal
EWD: A web application framework for GT.M and Cache	M/Gateway Developments Ltd.	OSEHRA Technical Journal
Identity Functions - FASC-N Library	Air Force	OSEHRA Technical Journal

Community Based OS Projects I

Gold Disk for VA

- 20 core modules
- OSEHRA Certified
- Code Improvements
- Standardized Implementation for the Enterprise
- Foundation for Enterprise-wide Improvements

Code Conversions

- Code bases managed and improved on by many organization: VA, IHS, Private Sector
- Common Core of converged code
- CHCS is VistA Code
- Improve the efficiency of code base management

Community Based OS Projects II

AHLTA-Open

- AHLTA Theatre Version
- Rich Collection of Modules for Theatre Applications
- Undergoing Preparation for OSEHRA Certification
- Will soon be available for anyone's use or commercial activities

Common Web Services

- Various approaches in Web Services have been developed
 - JANUS
 - MDWS
 - EDW
 - Others

Community Based OS Projects III

Personal Health Records

- VA developed Blue Button
 - Open Source
- KRM Developed HealthMe
 - Open Source
- VA developed MDWS
 - Open Source
- Community Based Project for Blue Button for America
 - Open Source

Mobile Health: Preparation

- Deployment of mobile computing platform
- Theater Application
- Clinical Trial Application
- VA application
- A Major International Android Vendor
- Security Organization

Community Based OS Projects IV

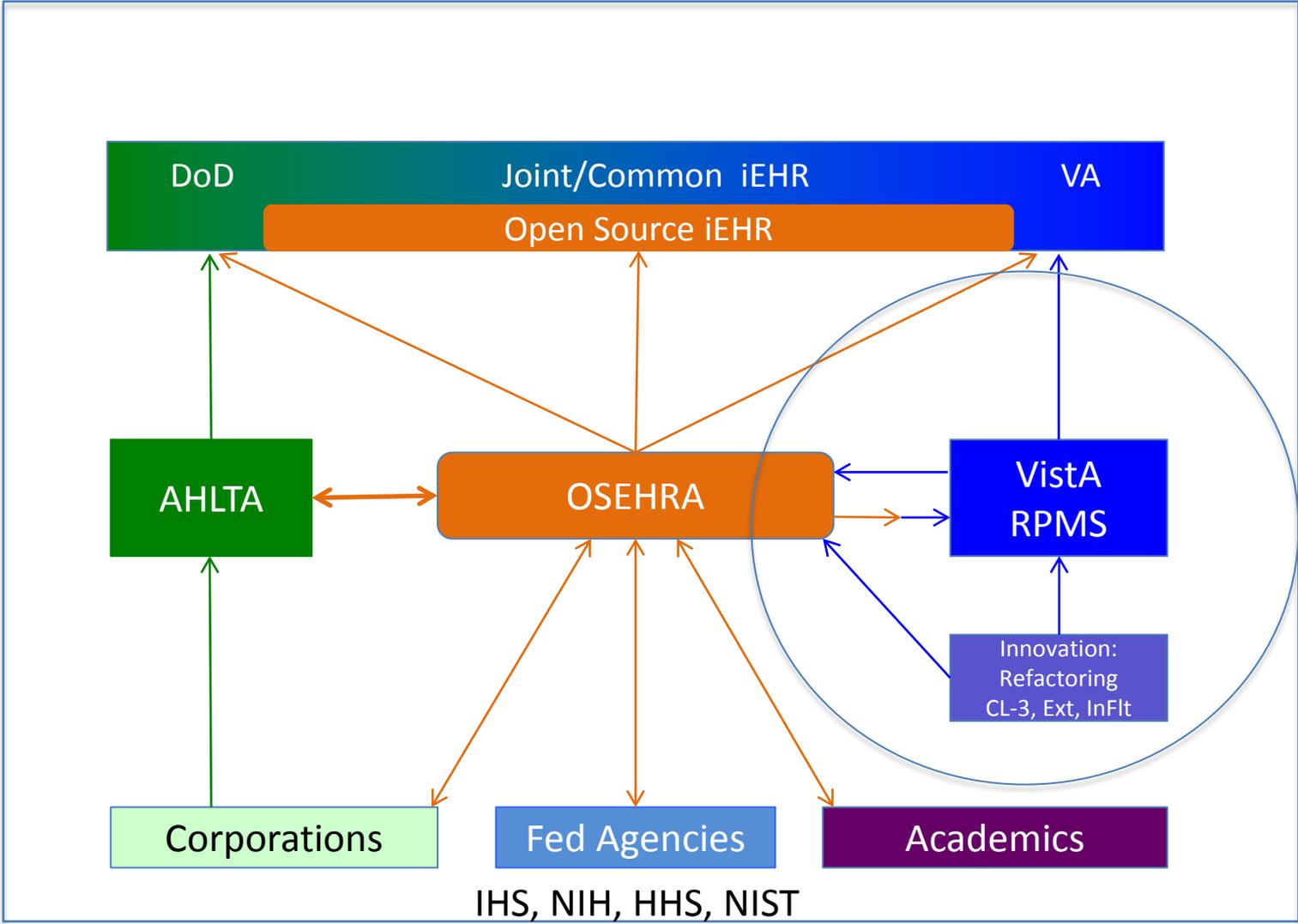
Scheduling Module Competition

- RFI Last January
- Open Source Compatibility Certification by OSEHRA
- API Applications
- RFP Soon To Be Announced

Other Innovation WG

- Refactoring
 - API's
- Architecture
- Genomics
- Data Warehouse
- Registries
- Imaging

Notional Open Source Innovation Pathways for iEHR



OSEHRA Annual Summit

October 17-18, 2012

National Harbor

munsk@oshera.org

2012 Summit and Workshop

- Open Source: Institutionalized Permanently
- Increasing Interests in OS from Many Quarters
- Emerging Vibrant Collaborative Community
- Diversity of Activities
- Power of Innovation will Overcome the Challenges
- Strategic (Collaborative) Priority to Emerge
- Seeking Community (all of us) Roadmap

First Annual Open Source EHR Summit & Workshop

VIEW EDIT ACCESS CONTROL

		
<p>James Peake, MD Chairman, Board of Directors, OSEHRA and Former Secretary, Dept. of Veterans Affairs</p>	<p>Peter Levin, PhD Senior Advisor to the Secretary and Chief Technology Officer, Department of Veterans Affairs</p>	<p>Seong Ki Mun, PhD President & CEO, OSEHRA & OSEHRA Technical Team</p>

Day1: Plenary Sessions
Wednesday, October 17, 2012
Woodrow Wilson Ballroom

<p>8:30 AM</p>	<p>Opening Session – The Future of Open Source Software and the EHR</p> <p>Session Chair:</p> <p>Honorable James Peake, MD, Chairman, Board of Directors, OSEHRA and Former Secretary, Dept. of Veterans Affairs</p> <p>MP3</p>		
	<p>John Halamka, MD, MS CIO, Beth Israel Deaconess Medical Center Member, and Board of Directors, OSEHRA</p> <p><i>Open Source in Healthcare Has Arrived</i></p>	<p>Robert Wentz President & CEO, Oroville Hospital, CA</p> <p><i>OSEHRA Panel Discussion</i></p>	<p>Seong Ki Mun, PhD President & CEO, OSEHRA</p> <p><i>Open Source EHR Agent: An Engine of Rapid Innovation Looking at the Future</i></p>
	<p>Health IT Innovations in the Department of Veterans Affairs</p> <p>Session Chair:</p>		

OSEHRA Business

- OSEHRA is a OS facilitator.
- OSEHRA promotes OS activities.
 - New Businesses are Emerging.
 - New Markets are Emerging – State Level
- OSEHRA does not compete with its community members.
- OSEHRA wants members to make money by offering the best services with the best OS products.
- OSEHRA lowers barriers of entry and the risks.

INTERSYSTEMS

DSS inc
Vista Experts



1,500 Members



AssureRx
Health



NORTHROP GRUMMAN



Agility and Open Source

Cultural Change

- Agile Acquisition
- Agile Management
- Agile Development

Excellence in PM- Uncompromised

- **Disciplined Documentation**
- **Continuous scrutiny for Quality**
- **Milestones and Schedule**

Tools for Agility

- Transparency
 - Process
 - Products
- Open Development Environment
- Real Time Collaboration
- Community Establishment and Participation

*Open Source Software:
Currency for Agility*

Open Source in Practice: We are not alone!



Hard Ware (Engine) based industry
Cannot keep up with Customer Demands

Cost of software exponentially increasing

Car/Air Craft Companies threatened by
Information and Entertainment Industry:
Apple and Google



Difficult to Manage Version Control

Difficulties in SW support for 20-50 years.

Help!

OSEHRA Strategic Priority

Community Involvement Sought

1. Joint community effort to overcome barriers in Open Source: Expand the Market
2. Common Code Base with Modular Capabilities
3. Vibrant Community with more Developers
4. More Software Development Tools and Tests
5. Voluntary Standard Setting Body and Facilitator

Innovation Agent Open Source on the Move

Great Hurdle



Ready for a long run
With OS Community
Join the movement.



Governance
Vision
Process
Tools
IT Infrastructure
Repository



Open Source Software:
“Persistent Wind of Innovation”

*Gen James Peake, MD
Chairman for the Board*



Open Source Electronic Health Record Agent



Welcome to OSEHRA

OSEHRA supports an open, collaborative community of users, developers, and companies engaged in advancing electronic health record software and health information technology.

Already a Member? **Login**
Not a Member? **Join OSEHRA**



DEVELOPERS

- Code Repository
- Architecture Reference
- Technical Journal
- Dashboard
- Code Review
- Bug Tracking



CLINICIANS

- Genomics
- Imaging
- Patient-Centered Care and Portability
- Clinical Community



CORPORATE

- Corporate Membership
- Commercialization and Partnership

Presentations from the 2012 Summit Conference!

- Members - Click here for proceedings.

Explore and get involved!

- About OSEHRA
- Read OSEHRA Blogs and Discussions
- Join OSEHRA groups
- Understand the Certification Process
- Contribute code to OSEHRA
- Track open source development activities
- Learn about open source development projects

OSEHRA Calendar

OSEHRA Architecture Work Group
Tuesday 13th of November 2012 - 04:00 PM
Patient Centered Care Working Group
Wednesday 14th of November 2012 - 01:00 PM
OSEHRA Code Convergence Meeting
Thursday 15th of November 2012 - 03:00 PM

[See More](#)

News & Featured Posts



Course - EWD for Developers
January 15-17, 2013 before the VCM **updated**
Posted: 9 Nov 2012 - 17:30 GMT
by Anthracite



GT.M Administration and Operations Course
January 15-17th, 2013 **updated**
Posted: 8 Nov 2012 - 23:28 GMT
by Anthracite



Greg Kreis to offer his Vista Foundations course before the VistA Community Meeting, January 15-17 **updated**
Posted: 8 Nov 2012 - 11:25 GMT
by Anthracite



Slides and Recording: Meaningful Health Information by Jack Taylor of The BITS Group **updated**
Posted: 7 Nov 2012 - 9:38 GMT
by patercyli

Happening right now in OSEHRA

Architecture



-  OSEHRA AWG WG Telecom 4PM EDT Today (Tuesday) patercyli
6 hours 18 min ago 
0 replies
-  Slides and Recording: Meaningful Health Information by Jack Taylor of The BITS Group patercyli
5 days 8 hours ago 
0 replies