About OSEHRA

- **501(c)(6) Membership Non-profit**
- **Established in 2011 by VA to be Hub of Global Open Source EHR Community**
  - Leadership by facilitation
  - Custodian of VistA
- **Funding**
  - VA Certification Contract
  - Dues from Corporate and General Members
- **Driving Rapid Innovation in EHR and Health IT**
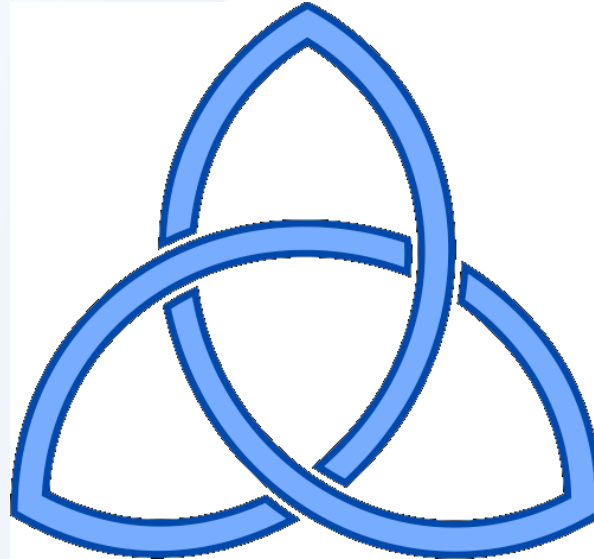- **Supports members; does not compete with them**

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Open Source Ecosystem

COMMUNITY

SOFTWARE

Governance
Development Environment

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Governance

- **Corporate Management**
  - By-Laws
  - Board of Directors
  - Members Elect Directors
- **Intellectual Property / Open Source Issues**
  - Software Freedom Law Center
- **Work Group/Project Level Management**
  - Decentralized
  - Merit System

OSEHRA Working Groups

- **Governed by Policy**
  - Charter required
- **Discussion Groups**
  - On-line Only
- **Work Groups**
  - Regular meetings (generally via Webex)
  - Defined Deliverables
- **Open Source Project Groups**
  - Regular Meetings
  - Software Deliverables

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Working Group Roster

Group Name	Type	Group Name	Type
Academic Affiliates	Work Group	Interoperability	Work Group
Architecture	Work Group	M2M Code Intake	Open Source Project Group
Certification	Work Group	MDWS	Open Source Project Group
Code Convergence	Work Group	Open AHLTA Project Group	Open Source Project Group
Development Tools	Discussion Group	Patient-Centered Care	Work Group
Education	Work Group	Product Management	Open Source Project Group
Fileman and Lab Agile Project (FLAP)	Open Source Project Group	Reminders VA	Work Group
Forum	Open Source Project Group	VistA Dialects	Work Group
Genomics	Open Source Project Group	VistA Evolution CITE	Discussion Group
Imaging	Work Group	VistA Novo	Open Source Project Group
Immunization	Open Source Project Group	Visualization	Open Source Project Group

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OSEHRA VistA

- **One of the most comprehensive EHRs in the world**
- **Available as Open Source Software**
  - Dynamic, free platform for development
  - Low life cycle cost
  - Reliability of a proven solution
  - Reduced risk of obsolescence
  - Inherently customizable
- **Continuous innovation from the community (VA, National, and Global)**
- **Quality certified by OSEHRA**

Code Categories

- **Managed**
  - Code subject to formal review/certification
  - Changes reviewed and subject to configuration management
  - Examples: FOIA VistA, OSEHRA VistA
- **Hosted**
  - Code placed into repository by community
  - Storage and retrieval only
  - Could be certified
  - Could be incorporated into managed code base

Managed Code Submission Path

Open Source Software Repositories
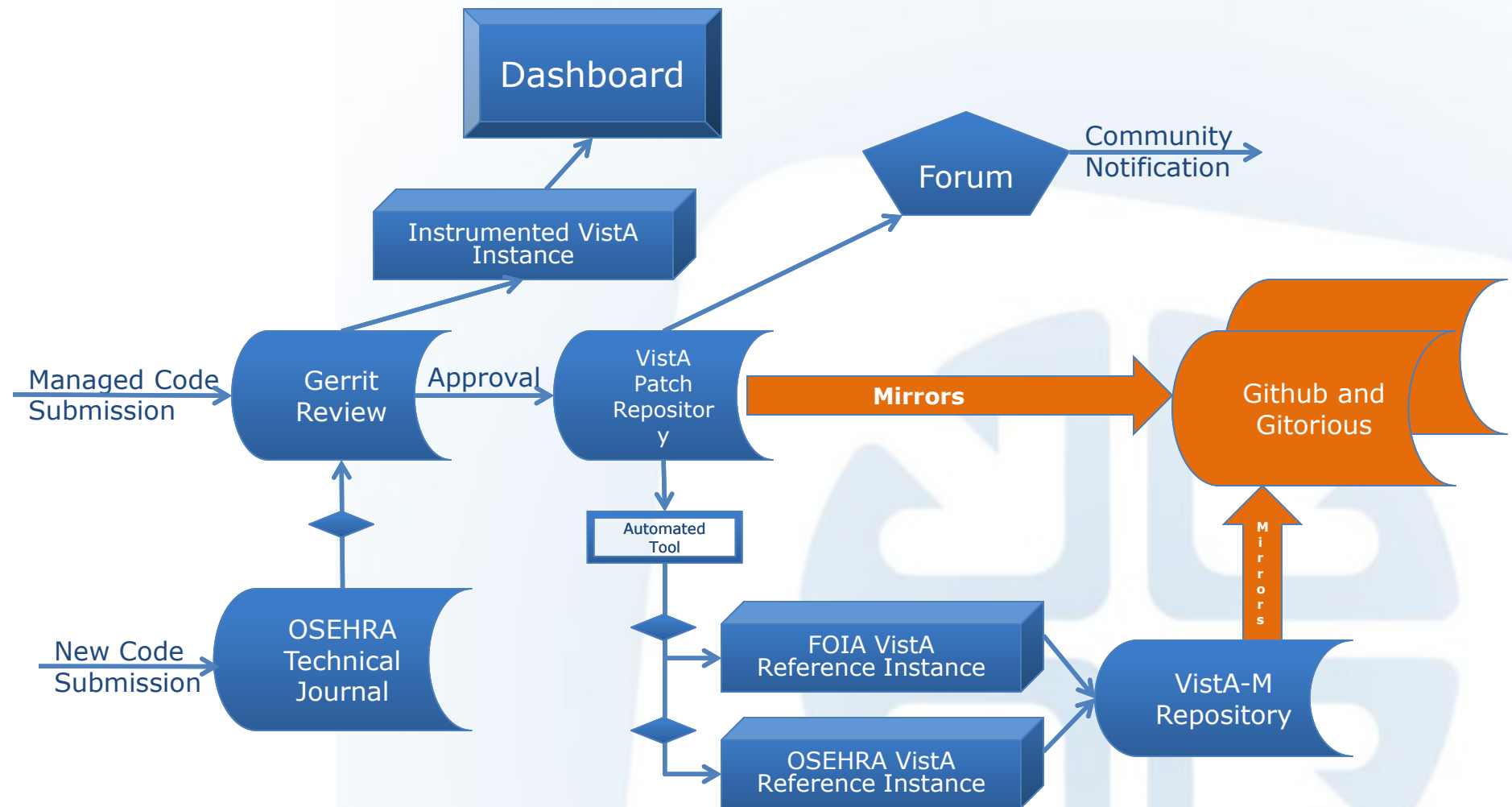
OSEHRA Repositories

Generic Repositories

CERTIFICATION

Improving the
Quality of Open Source Code

Critical Issue

Open Source Software ≠ Usable Software

(Lowering the Risks for Code Adoption)

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Usability

- *Properly licensed* open source code
- Coded in compliance with appropriate *standards and conventions*
- Adequate *documentation* to install, test, and adapt
- *Integral tests* to ensure continued correct operation

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Open Source Software Quality Certification

Charter:

Certification is initially the attestation and ultimately the verification that all executable artifacts managed by OSEHRA meet the following criteria:

- **Safe:** Individual code units do not cause errors in other components of the system and the code is robust to all code paths and conditions

- **Compliant:** Code meets agreed upon interface specifications and is adherent to all applicable laws and regulations

- **Functional:** Code has a defined set of requirements that are met when the code executes

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Certification Levels

LEVEL 1 CERTIFICATION

- **Apache 2.0 license**
- Existing regression tests
- No critical code review, test installation, or functional test issues
- Name and number spaces, dependencies, standards & conventions

LEVEL 2 CERTIFICATION

- Some additional unit / regression tests
- Basic documentation
- A small number of non-critical code review, test installation, and functional test issues

Meets all Level 1 Requirements

LEVEL 3 CERTIFICATION

- At least **50%** unit / regression test coverage of new code
- Substantial documentation included
- No code review, test installation, or functional test issues

Meets all Level 2 Requirements

LEVEL 4 CERTIFICATION

The highest OSEHRA Open Source Software Quality Certification level

- At least **90%** unit / regression test coverage of new code
- Full documentation included

Meets all Level 3 Requirements

- OSEHRA recognizes 4 levels of SQC. Level 1 is reserved for VistA legacy code. Levels 2-4 represent a continuum of growing certification compliance.

- For *new code* developed under VA contract, OSEHRA recommends a *minimum* certification level of *Level 3*.

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Certification Standard

- **Standards Document Describes Criteria and Process**

- **Current Version is VA Deliverable under Gold Disk Support Contract**

- **OSEHRA Currently Working to Create an ANSI Standard**

Summary

- **OSEHRA exists to provide**
  - Code management infrastructure
  - Meeting facilitation framework
  - Open Source Software Quality Certification
  - Community support and synergy
- **popHealth is a critical open source resource for the EHR community**
- **Seems like a perfect fit!**

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Thanks for attending!

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