



Roadmap to PHIN Architecture Alignment across Public Health in State of Oregon

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Goals of Oregon PHIN Architectural Strategy

- Create a unified Public Health (PH) vision
 - Get Oregon PH stakeholders on same page
 - Improve interoperability of PH information systems
 - Make informed architectural decisions
 - Optimize & effectiveness for CDC and state
- *This is a long term effort.*
- *Results will depend on our joint commitment, resources and alignment.*

Oregon Public Health Information Network Systems



Early Event Detection

eSentinel
NEDSS
ELR
Electronic Death Registry
CD Database

Outbreak Management

Outbreak Management Apps

Laboratory Systems

Lab Information System
WebRAD

Countermeasure and Response Administration

FamilyNet
ImmiAlert
Hospital Capacity Sys

Partner Communications and Alerting

Health Alert Network
Volunteer Registry

** Each blue box represents a different PHIN Functional Area*

** Shown in green are new PH systems*

Prior Architecture of PHIN Systems

Oregon's prior PHIN systems architecture

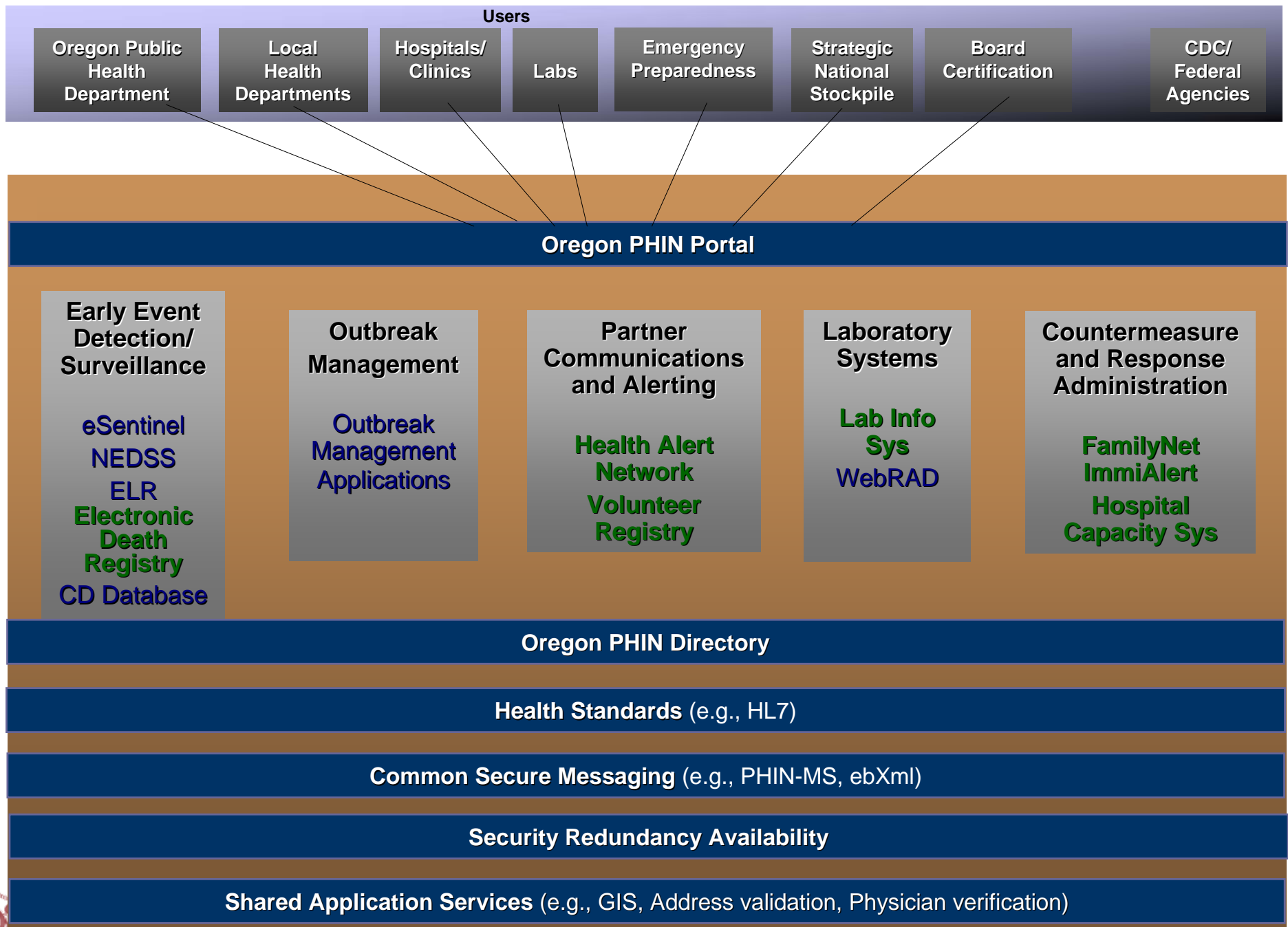
- Oregon uses wide variety of technologies and solutions
- Solution choices influenced by: CDC, Oregon standards, COTS/GOTS, Expertise, Legacy, Funding, Knowledge, etc.
- No common architecture or solutions
- Separate Groups/Teams, Tools, Technologies, Solutions, Processes,...

Oregon's PHIN Strategic Architecture Directions

- Leverage PHIN as a strategic initiative in Oregon PH
- Develop Oregon's PHIN Roadmap – define target destination (where we are trying to get to)
- Harmonize PH technologies and architectures
- Drive toward standards (e.g., HL7)
 - Established the use of a common messaging standard for health data in PHIN Applications — HL7 v2.5
- Leverage industry solutions (commercial & open source)
- Design shared services and reuse across systems based on SOA principles

Oregon PHIN Architectural Roadmap - Future State

(How pieces fit together?)



Cross-Program Alignment

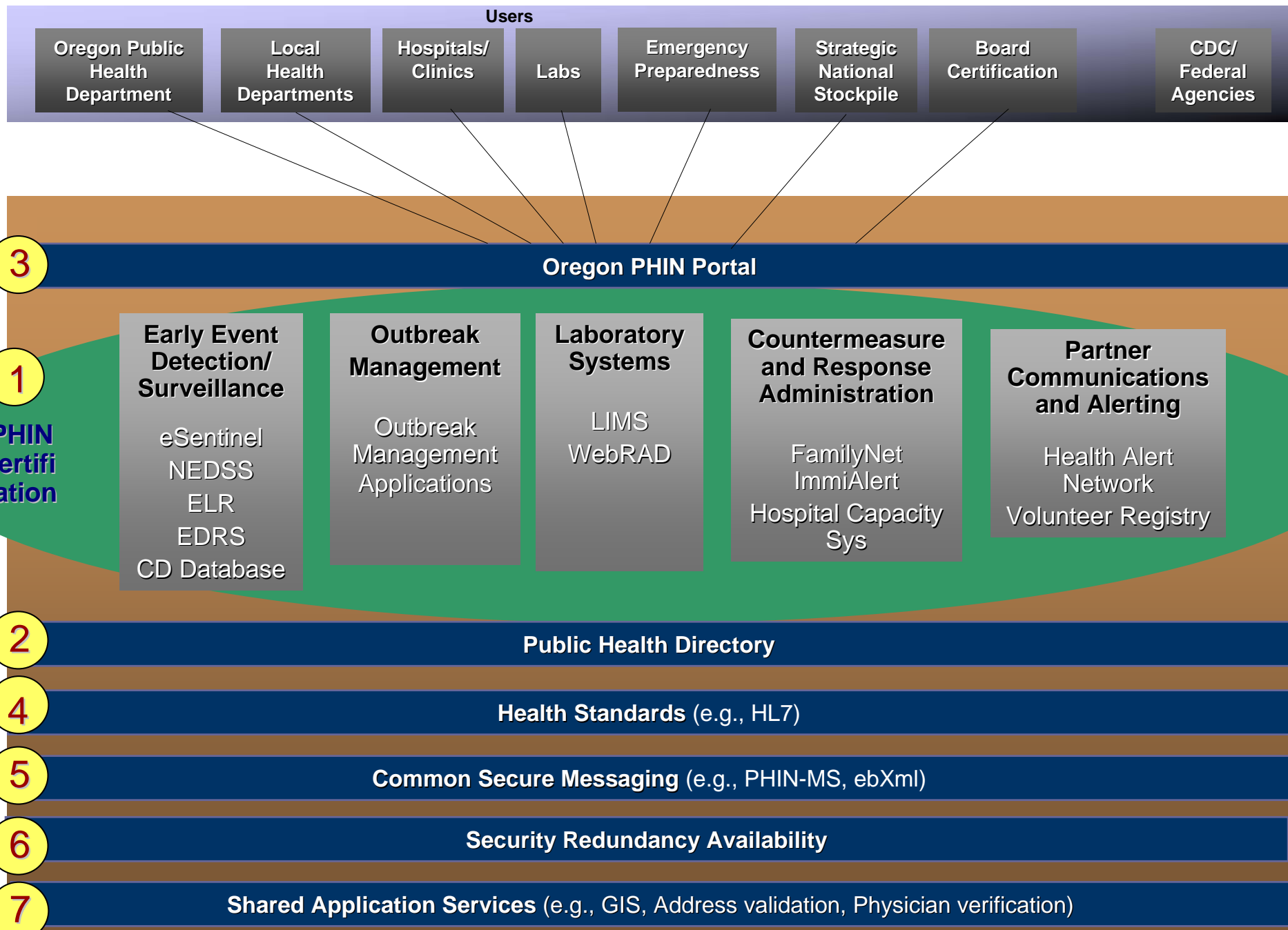
Oregon PHIN Assurance Group

- How do we align PHIN activities across PH programs/offices?
- How do we make cross program decisions for PHIN?
 - PHIN spans many PH programs/offices with different drivers
- Organize PHIN Assurance Group
 - Cross Public Health program/office alignment
 - Consensus building
 - Bring together key decision makers from each PHIN program/office and key IT managers
 - Review, communicate and align on key PHIN business priorities, decisions, etc.

Challenges in Cross-functional components like PHIN Directory

- Currently there are 20+ different Oregon PH Directories
- PH systems (HAN, OM, LIMS, Vital Records) have its own directories
- Email directory is separate
- Portals use separate directories
- Enterprise directories are emerging but not consolidated
- **Funding for cross-functional components are not available in the state grants for the directory effort**
- Roles/Authentication/Identity management raise complexity further
- Limited resources available for cross-functional components
- Common directory attributes? How to handle remaining attributes?
- Issues around control, organizational boundaries, priorities
- Different directory requirements across programs & systems
- CDC/PHIN requirements evolving
- Complex problem – requires collaboration, experimentation, pilots, architecture, new solutions, governance, etc.

Oregon PHIN Cross Program Priorities for 2007-2010



Oregon PHIN Lessons Learned

| Observations/Challenges | Solution/Lesson Learned |
|---|--|
| Who are the Oregon PHIN Stakeholders? | Identify different types of PHIN Stakeholders – CDC, PH Executive and staff, IT, LHDs, Partners, Groups |
| With so many interested parties is there a single overall PHIN coordinator? | Oregon PHIN Lead Coordinator |
| Oregon PHIN spans many PH Program/Offices with different drivers. | Identify common architectural cross-functional elements that span the PH Programs. |
| How do we make cross IT systems decisions? | Hire and focus PH and PHIN Architect |
| No available funding for cross-functional PHIN components | It would be great if CDC can provide separate cross-functional components funding for states or an alternate solution. |

Oregon PHIN Lessons Learned continued

| Observations/Challenges | Solution/Lessons Learned |
|--|---|
| <p>What are Oregon's PHIN cross-functional goals? Who defines and manages these?</p> | <p>Oregon PHIN Roadmap Strategy developed. Oregon PHIN Roadmap team manages Oregon's PHIN cross-functional goals.</p> |
| <p>What is the Oregon's current PHIN architecture? Oregon uses wide variety of technologies and solutions.</p> | <p>PHIN architectural roadmap developed as a guide. Use standards based approach for Oregon PHIN systems.</p> |
| <p>Most prefer to create own unique solutions rather than use someone else's.</p> | <p>Define and utilize a governance process.</p> |
| <p>Is Oregon PHIN a project or program or ...?</p> | <p>It is an initiative and still evolving...</p> |

Questions or Comments?

- Thank you!
- For collaboration or additional information please contact:
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