Oregon HB 2049

An Opportunity for Public-Private Partnership

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It is beyond time to invest for meaningful cybersecurity

Public sector data and services and critical infrastructure reliability is at significant risk

- Independent local governments have made a unified cybersecurity strategy difficult

- The agency mission to provide access and service to the public creates a broader attack surface.

- Local government systems are not well defended, small municipalities often lack IT and cyber expertise.

- Public sector workforce development needs a more competitive compensation model and career development for attracting and retaining security professionals.

- Smart-city technology (telehealth, public safety, utilities, municipal services) have increased public sector attack surfaces without meaningful security countermeasures.

- Geopolitical forces are likely to contribute more to cybercrime in the next year. SMB and critical infrastructure are the new targets and collateral damage from nation state attacks will be uninsurable.

HB2049 Recognizes the Urgency and Scope of Cyber Improvement
It will take a Public-Private Partnership to Accomplish Its Goals in a Timely Way

SITUATION

CoE appointees – strong on diversity, will provide representation and input on cyber initiatives

Scope is broadly operational with aggressive near term goals (e.g. Resilience Plan EOY 2025)

Ensure State Legislature and Budget office are prepared to fully fund activities outlined in this bill.

Digital transformation will be essential to significantly reduce the technical debt statewide that is exposing Oregon to cybercrime.

RECOMMENDATION

Retain experienced cyber leadership to advise, consult, and train the CoE

Retain consulting partner to establish PMO, Financial oversight, and cybersecurity consulting support

The opex for Labor and expense could easily exceed $50M/year in first two years to achieve the EOY 2025 goal of a meaningful cyber resilience plan.

Partner with best-in-class technology partners for multi-cloud, secure HCI (hyper converged infrastructure), train and develop workforce, and offer goods and services to OR public bodies.

Oregon Software Factory Concept

Oregonians Designing Modern, Secure Software for Oregon

Build self-sustaining innovation ecosystem

A software factory is an organization of people, technology and repeatable and scalable processes that produce continuous business impact and accessibility to services

Recruit new cohort of developers, managers every 6-12 months – no prior software development experience required

VMware and Oregon teams work side-by-side

Build, Secure, Modernize, Update, Run modern applications to solve challenges facing Oregon

Improve services to citizens and employees of Oregon

Identify problems that are addressable using targeted software applications - Housing, Social Services, licensing, Public Safety, API integration to other critical applications

Quick turnaround on custom built code – weeks to months vs. years

Provide quality high paying jobs and access to Education

Build a bench of Entry Level Software Developers – College education not required

Pull from internal resources, Community & Tech Colleges, High Schools

Create pathway for Public and Private partnerships

Advertise & promote for software development resources across the state

Increase # of Oregon education institutions using VMware IT Academy curriculum

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VMware IT Academy Overview

- VMware provides upper-secondary, community college, technical college, university, and technical learners and professionals with teaching and learning materials developed by VMware and our partners.

- Focusing on high-demand careers, our courses teach vital digital skills, familiarize students with VMware solutions and help course-takers gain related certifications at discounted rates. Our courses form learning paths such as:

  - System Administrator Path
  - Multi-Cloud Specialist Path
  - Modern Applications Specialist Path

Oregon Education Institutions Enrolled in VMware IT Academy