

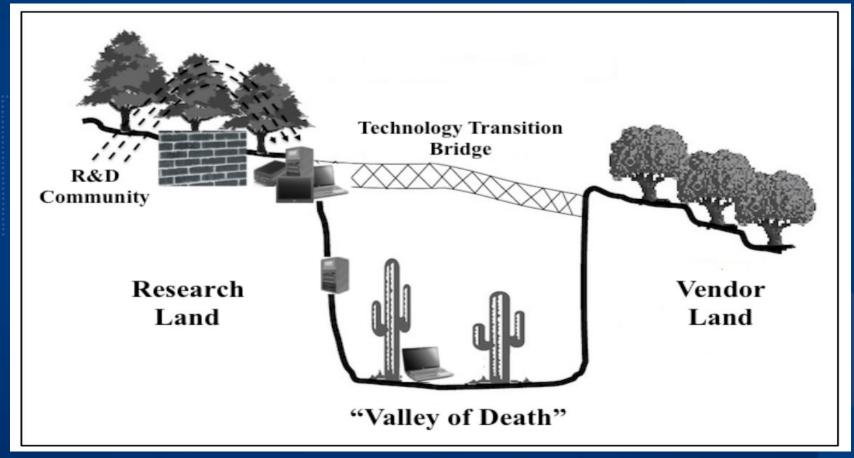
Creating a Collaborative Learning Gateway

OWASP Learning Gateway Project, OWASP Foundation

Gateways 2016, San Diego Supercomputer Center November 3, 2016



Slide Source: Crossing the "Valley of Death":
Transitioning Cybersecurity Research into Practice
by David Balenson, Dr. Ulf Lindqvist, Zachary Tudor &
Douglas Maughan: http://www.csl.sri.com/papers/ieee-sp-tt-2013/



Technology Transfer Bridge



The OWASP Learning Gateway will be a convergence platform that is adaptable to the learning needs and user requirements of a global community of technology learners.

The gateway will offer learning pathways that connect learners at all levels with mentors, knowledge and wisdom needed to be successful.

The gateway will introduce learners to an ecosystem where pragmatic collaborative learning experiences help create cultures of innovation while exploring science, engineering, leadership, and entrepreneurship in cybersecurity.



OWASP Learning Gateway will be a connected, collaborative learning platform to support the needs of OWASP Members, OWASP Education Committee, Mentor Committee, and WIA (Women in AppSec).

We are currently working on a framework for the development of the platform.



Next Generation Learning Platform

- Engages learners' full attention and fun
- Connects mentees' questions to mentors' answers
- Provides Access to any learning level
- Prepares learners for careers and workforce
- Motivates learners
- Enables discovery of science and engineering in cybersecurity
- Inspires leadership, entrepreneurship and innovation
- Measures progress by providing continuous improvement feedback with success stories, peer review, etc.
- Self-correcting, self-organizing, self-refinements



Key Development Focus Areas:

- Open Source
- Innovation Engine
- API Strategy Integration Engine SecDevOps
- Semiotics Web Analytics Engine
- Knowledge & Wisdom Engine (Technology Transfer Bridge)



Our Pilot Project:

- Mentoring platform
- Custom tools to empower self directed learners on "pathways to success"
- Research, study and measure metrics based
- Open source and available to OWASP members, the scientific community and the public
- Open Data anonymized and available for research.
- User driven Learn-to-Learn and Semiotics Web analytics



What exactly are we building here?

"Our goal is quite simple and clear: We are building a Learning Gateway for members of the cybersecurity ecosystem interested in mentoring, education, learning and research."









Combining Traditional Learning with Self Directed Learning for Collaborative Learning Platform

OWASP Global Members, Mentor Committee, WIA Committee, Education Committee, Partners Network, Open Source Communities and Research Communities are foundations of Learning Gateway Ecosystem

Mentor and Mentees for User Driven Development



Gateways Incubation Goals

Extended Developer Support

provide expert gateway development support

Scientific Software Collaborative

open-source, extensible framework for gateway design and integration plus services for gateway development and deployment

Community
Engagement and
Exchange

forum for communication and sharing experiences among gateway developers, within NSF, across federal agencies, and internationally.

Workforce Development

increase the pipeline of gateway developers by helping universities form gateway support groups and training underrepresented minorities. Open Source Conversational Architecture Communications Backbone

Networking

Learning Gateway P₂P

Science Gateways Backbone



OWASP Learning Gateway Project:

https://www.owasp.org/index.php/OWASP_Learning_Gateway_Project

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