



OWASP

Open Web Application
Security Project

Creating a Collaborative Learning Gateway

OWASP Learning Gateway Project, OWASP Foundation

Gateways 2016, San Diego Supercomputer Center
November 3, 2016

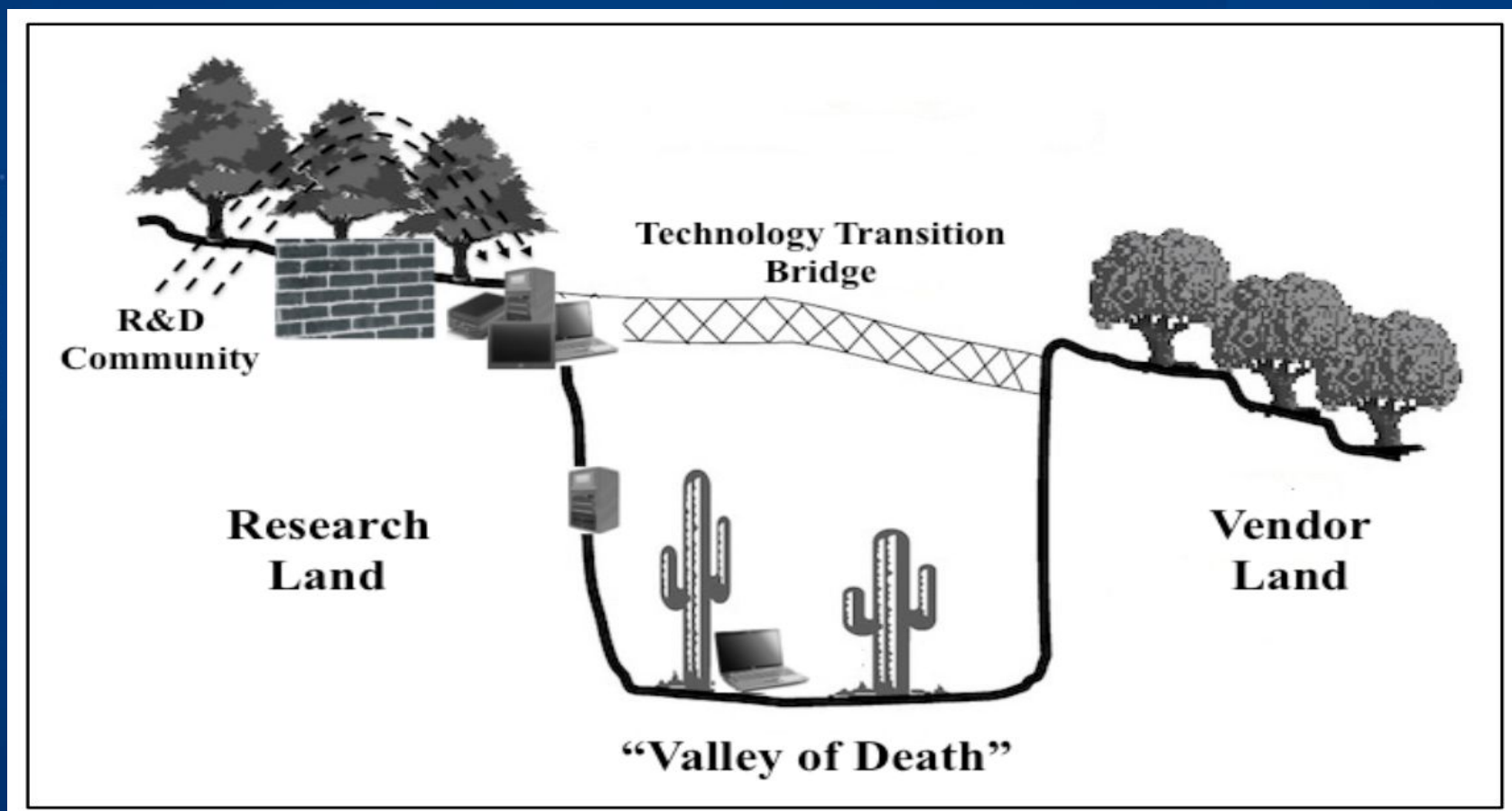


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**Slide Source: Crossing the "Valley of Death":
Transitioning Cybersecurity Research into Practice**

by David Balenson, Dr. Ulf Lindqvist, Zachary Tudor &
Douglas Maughan: <http://www.csl.sri.com/papers/ieee-sp-tt-2013/>



Technology Transfer Bridge



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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**.



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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.



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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



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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



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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.”





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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



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Gateways Incubation Goals

Extended Developer
Support

provide expert gateway development
support

Scientific Software
Collaborative

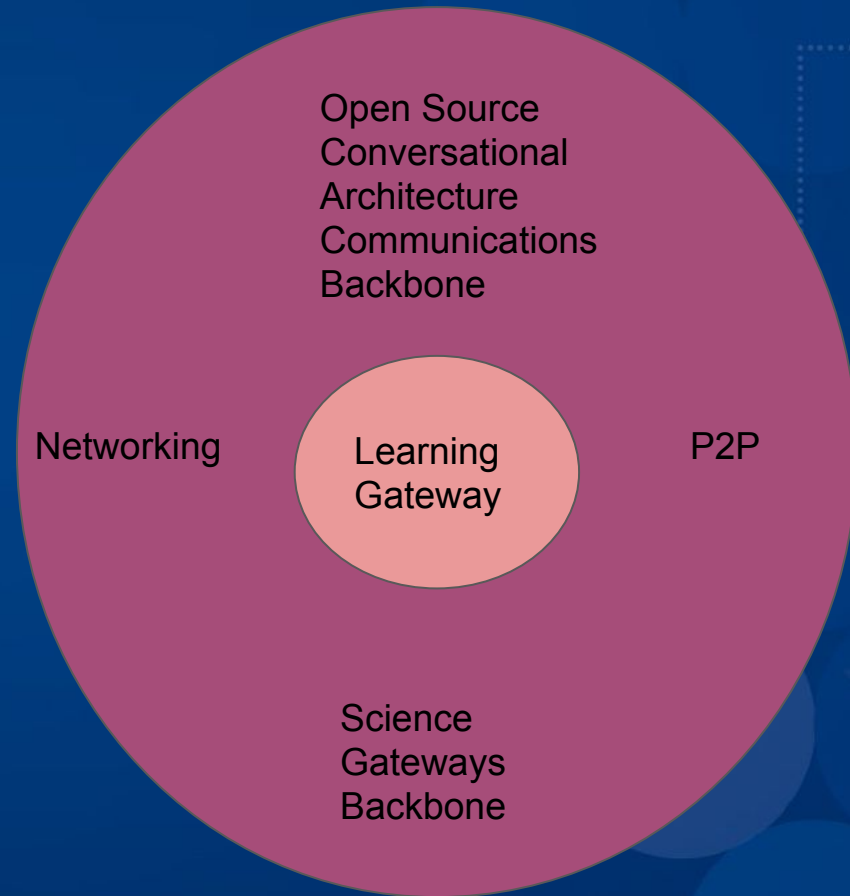
open-source, extensible framework for
gateway design and integration plus
services for gateway development and
deployment

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.





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OWASP Learning Gateway Project:

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

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