SEI Bulletin

Blog Post Demystifies Enterprise Technical Debt

December 7, 2022—A new SEI Blog post describes instances of enterprise technical debt: project-level, short-term expediencies whose impact spreads to the rest of the organization. The three examples come from the SEI's experience evaluating organizational information architectures.

Stephany Bellomo, the post's author and an SEI principal engineer, writes that information architects should be alert to "the elusive nature of enterprise technical debt and the potential impact unchecked enterprise technical debt can have on an organization."

Read the blog post »

📰 SEI News

DevSecOps Platform-Independent Model Receives Major Update
New features bolster cybersecurity, personnel modeling, and DevSecOps

flow.

Touhill Receives Award for Lifetime of Service

Gregory J. Touhill, director of the SEI CERT Division, recently was recognized for his service to the country.

FloCon 2023 Registration Opens for January In-Person Event

FloCon 2023's academic, industrial, and government speakers on using data to defend enterprise networks will gather in Santa Fe, New Mexico.

See more news »

Latest Blogs

What is Enterprise Technical Debt?

Stephany Bellomo provides examples of enterprise technical debt, and the risk it represents, taken from real-world projects on which SEI researchers served as architecture evaluators.

Modeling Capabilities with Model-Based Systems Engineering (MBSE)

Nataliya Shevchenko examines the role of capabilities in systems engineering—their purpose, how they are modeled and analyzed using MBSE and SysML, and how they can be associated with business requirements.

Modeling Languages for Model-Based Systems Engineering (MBSE)

John McGregor and Sholom Cohen summarize the benefits, practices, and tools for using a modeling language and compare the capabilities of SysML and AADL for use in model-based systems engineering (MBSE).

See more blogs »

Latest Podcasts

A Method for Assessing Cloud Adoption Risks

Chris Alberts discusses with Suzanne Miller a prototype set of cloud

adoption risk factors and describes a method that managers can employ to assess their cloud initiatives against these risk factors.

[Software Architecture Patterns for Deployability](#)
Rick Kazman talks with Suzanne Miller about using patterns for software deployability.

[A Roadmap for Creating and Using Virtual Prototyping Software](#)
Douglass Post and Richard Kendall discuss their experiences applying virtual prototyping in Computational Research and Engineering Acquisition Tools and Environments (CREATE).

[See more podcasts »](#)

Latest Publications

[CMU SEI Research Review 2022](#)
This collection includes presentations, booklets, and videos from all three days of the 2022 SEI Research Review event.

[Acquisition Security Framework (ASF): Managing Systems Cybersecurity Risk](#)
This report overviews the Acquisition Security Framework (ASF), a description of the practices developed thus far, and a plan for completing the ASF body of work.

[See more publications »](#)

Latest Videos

[Finding Your Way with Software Engineering Buzzwords](#)
In this webcast, Hasan Yasar discusses the new technologies and buzzwords that are required to implement a complete software delivery pipeline.

[CMU SEI Research Review 2022 Day 1 Video](#)
Presentations from Day 1 of the 2022 SEI Research Review event.

[CMU SEI Research Review 2022 Day 2 Video](#)
Presentations from Day 2 of the 2022 SEI Research Review event.

[CMU SEI Research Review 2022 Day 3 Video](#)
Presentations from Day 3 of the 2022 SEI Research Review event.

📅 Upcoming Events

Conference - [FloCon 2023](#), January 9-12, 2023
The SEI's conference on using data to defend enterprise networks returns in person.

Webcast - [Does your DevSecOps Pipeline only Function as Intended?](#) January 11, 2023
Tim Chick discusses how using Model Based Systems Engineering, a DevSecOps model can be built.

[See more events »](#)

🏅 Upcoming Training

[Creating a Computer Security Incident Response Team](#)
February 7, 2023 (SEI, Live Online)

[Designing Modern Service-Based Systems](#)
March 6, 2023 (SEI, Live Online)

[See more courses »](#)

👤 Employment Opportunities

[Lead Nuclear Surety Software Engineer](#)

[Engineer, Program Development](#)

[Senior Embedded Software Engineer](#)

[All current opportunities »](#)

Carnegie Mellon University
Software Engineering Institute