

Agile Risk Management

Led by **Rick Dove**

Friday, 19 May 2017, 8:00 a.m. – 5:00 p.m.
Workforce Training Center, Albuquerque, NM

Brought to you by the INCOSE Enchantment Chapter, Albuquerque NM

Tutorial: Agile Risk Management

To be effective, projects/processes/products (all viewed as systems) have to mate well with their operational environments. Operational environments are not static, they react to disturbances and evolve with opportunity and whimsy. Inserting a system into an environment is a disturbance. Sustaining a system in an environment entails compatible evolution.

The environment is the problem space the system will occupy. Understanding the requirements for a compatible-to-the-space solution is best done before system functional requirements get too far ahead and shape an incompatible path.

But how do we characterize the environment as a dynamic problem space and develop solution-response requirements, sufficient to guide the design of risk-mitigating agility? Characterizing the problem space is an ill-structured problem. It cannot be expressed in numbers and equations, nor solved with algorithms. This tutorial provides heuristic frameworks for developing useful characterizations of the problem space, and for developing risk-mitigating requirements for the solution space; grounded with real examples and in-class application practice.

Given enough understanding about the problem, effective solution requirements and features becomes (almost) obvious. The problem shapes and constrains effective solution, but only to the extent that we understand it.

Participants will receive: a) Instruction: a series of heuristic tools will be introduced. b) Examples: how others have characterized their dynamic problem spaces. c) Practice: engagement in application exercises. d) Reference material: soft-copy course notes and case studies on the examples.

Features to be Learned:

- System goal-development framework
- Environment characterization framework
- Reality factors framework
- Solution response-requirements framework

Advantages to be Obtained:

- Context-driven top-level goals
- Problem space illumination
- Risk-response needs established
- Traceable solution design decisions

Benefits to be Realized:

- System environment compatibility
- Projects that mitigate evolving risk
- Processes that deliver on purpose
- Products that are sustainable

The course is aimed at:

- Beginners to experienced SE practitioners
- Engineers of all disciplines
- Project managers
- System requirements developers

THE PRESENTER



Rick Dove is a leading researcher, practitioner, and educator of fundamental principles for agile enterprise, agile systems, and agile development processes. In 1991 he initiated the global interest in agility as co-PI on the seminal 21st Century Manufacturing Enterprise Strategy project at Lehigh University. Subsequently he organized and led collaborative research at the DARPA-funded Agility Forum, involving 250 organizations and 1000 participants in workshop discovery of fundamental enabling principles for agile systems and processes. He is CEO of Paradigm Shift International, specializing in agile systems research, engineering, and education; and is an adjunct professor at Stevens Institute of Technology teaching graduate courses in agile and self-organizing systems. He chairs the INCOSE working groups for Agile Systems and Systems Engineering, and for Systems Security Engineering, and is the leader of the current INCOSE Agile Systems Engineering Life Cycle Model Discovery Project. He is an INCOSE Fellow, and the author of *Response Ability – the Language, Structure, and Culture of the Agile Enterprise*.

MEETING DETAILS

Time: Registration is 7:30 – 8:00 a.m.;
Tutorial is 8:00 a.m. – 5:00 p.m.

Date: Friday, May 19, 2017

Place: Room 207, Workforce Training Center (WTC),
5600 Eagle Rock Ave. NE Albuquerque, NM 87113,
<http://www.cnm.edu/depts/wtc/index.html>.

Directions: From Junction of I-40 and I-25 in
Albuquerque take I-25 North to exit 233, Alameda
Boulevard. Take a left and cross the freeway. See
map to left.

Package: The tutorial cost includes **soft-copy
downloadable** tutorial notes, lunch and snacks.

Registration & Payment: Register via EventBrite:
[https://www.eventbrite.com/e/agile-risk-
management-tickets-32600226154](https://www.eventbrite.com/e/agile-risk-management-tickets-32600226154).

INCOSE members: \$125; non-members: \$175;
students: \$0. You will receive an email receipt from
EventBrite, which will act as your confirmation. If you
do not receive a confirmation, have trouble
registering or paying, or to register and pay by check,
contact Mary Compton at mlcompt@sandia.gov.

Contact: Other questions? Contact Ann Hodges at alhodge@sandia.gov.

