Software Certification Consortium

Meeting #12 October 28 - 29, 2013

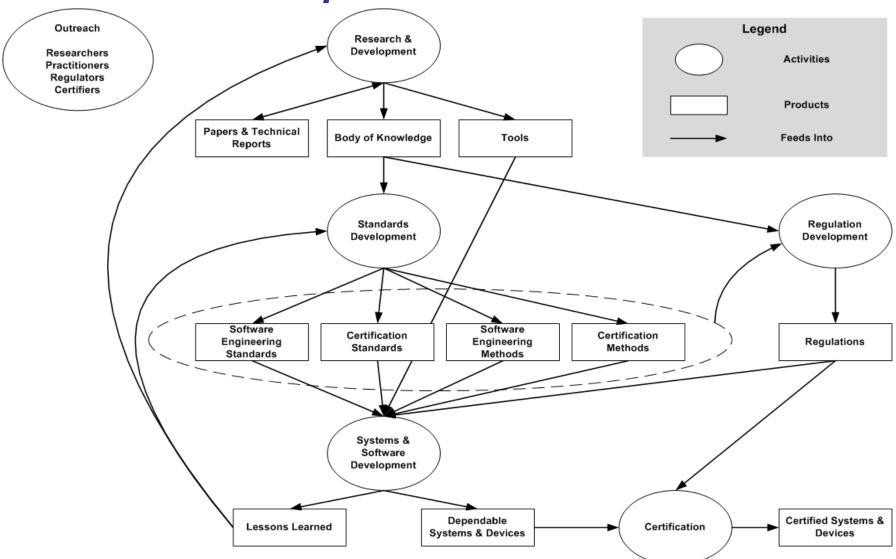


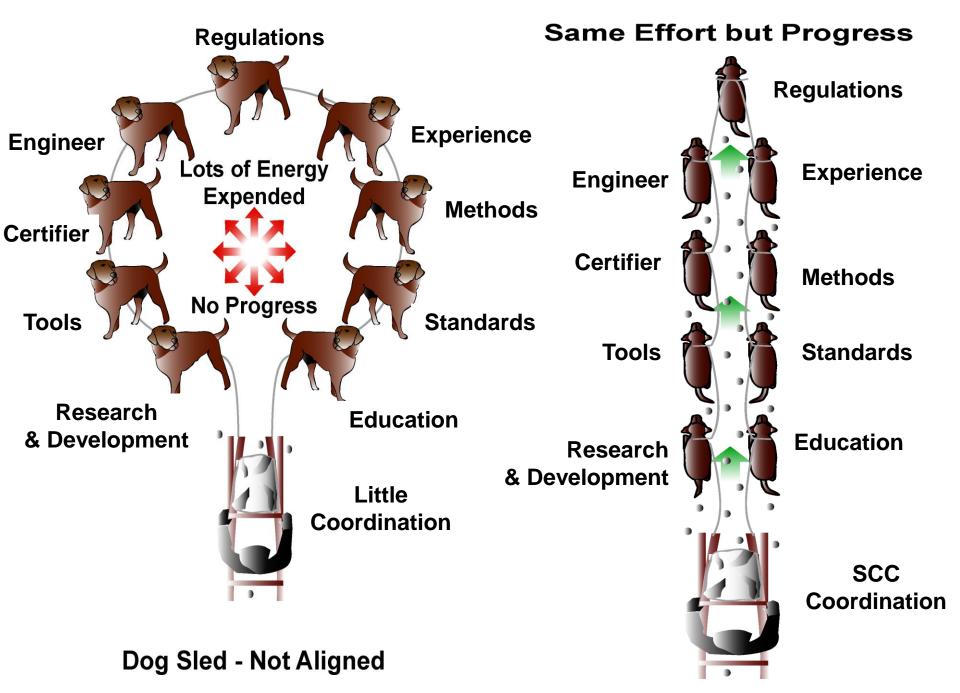
Welcome & Introductions

- Alan Wassyng
- Sushil Birla
- Workshop Participants
- Remote Participants



Scope & Deliverables





Dog Sled - Aligned

Workshop Theme

System Safety Requirements

Methods for their Development and Validation



Agenda

MONDAY	
08:30 - 09:00	Introductions & Context
09:00 - 09:30	Nancy Leveson – MIT Introduction To A Systems Approach To Requirements Generation For Safety
09:30 - 10:00	John McDermid – University of York The "Classical" Approach To Deriving Safety Requirements
10:00 – 10:15	Coffee
10:15 – 11:00	Discussion 1
11:00 - 11:30	Sushil Birla – US NRC Evaluating Hazard Analysis Of A Distributed Digital System For Nuclear Reactor Safety
11:30 – 12:00	Paul Jones – US FDA What The FDA Looks For In Submitted System Safety Requirements
12:00 – 13:00	Lunch
13:00 – 13:45	Discussion 2
13:45 – 15:30	Breakout #1 & Coffee
15:30 – 16:30	Report Back
17:30 – 18:30	Social at TBD
18:30 – 21:00	SCC Dinner at P.F. Changs – White Flint Mall – 11201 Rockville Pike

Agenda

TUESDAY	
08:30 - 09:00	Donald Firesmith – SEI The Four Types Of Safety-Related Requirements And Their Relationships To Other Types Of System Requirements
09:00 - 09:30	Tom Maibaum – McMaster University Quality, Measurement (and Assurance Cases)
09:30 - 09:45	Coffee
09:45 – 10:30	Discussion 3
10:30 - 11:00	Peter Feiler – SEI Architecture-centric Strategies for Addressing Challenges in Software-reliant Safety-critical Systems
11:00 – 11:30	John Thomas – MIT Generating Executable Software Requirements Through Hazard Analysis
11:30 – 12:00	Connie Heitmeyer – NRL Specifying Requirements for Safety-Critical Systems
12:00 – 13:00	Lunch
13:00 – 13:45	Discussion 4
13:45 – 15:00	Breakout #2 & Coffee
15:00 – 16:00	Report Back
16:00 – 16:30	Summary & Wrapup



Breakout #1 Establishing System Safety Requirements

- 1. What are the existing methods for establishing system safety requirements?
- 2. What are the outstanding issues associated with this set of methods?
 - Are the issues domain specific?
- 3. What are the actions required to address the issues?
 - Are you already working on these actions?
 - Would you like to work on them?
 - Who would you like to work with?



Breakout #2 – Certification

- 1) What are the means for:
 - gaining confidence that the system safety/security requirements are complete and correct?
 - Including requirements necessary to deal with hazards introduced during the design of the system
 - gaining confidence that the system safety/security requirements are adequately implemented?
- 2) What are the issues associated with the above means?
- 3) What are the actions required to address the issues?
 - Are you already working on these actions?
 - Would you like to work on them?
 - Who would you like to work with?



Action Items

