
Barry Boehm, USC-CSE
March 18-21, 2003
Outline

- USC-CSE Highlights, 2002-03
- USC-CSE Affiliates and Calendar
- Review and Workshop Objectives, Agenda
- Candidate Working Groups and Procedures
USC-CSE Highlights, 2002-03

• New Affiliates: BAE Systems, Freshwater Partners, Hewlett Packard, Softstar Systems
• New Ph.D.: Chris Abts (Texas A&M)
• New Tenure-Track Prof: Dan Port (U Hawaii)
• New Research Associates: Ed Colbert, Ray Madachy
• Major new research contacts
  – NASA/ CMU: High Dependability Computing
• March 2003 Value-Based Software Engineering articles
  – Cover article in IEEE Computer
  – Electronic Articles in ACM SW Engr. Notes
USC-CSE Affiliates (36)

• Commercial Industry (16)

• Aerospace Industry (7)
  – BAE Systems, Boeing, Lockheed Martin, Northrop Grumman, Raytheon, SAIC, TRW

• Government (8)

• FFRDC’s and Consortia (4)
  – Aerospace, JPL, SEI, SPC

• International (1)
  – Chung-Ang U. (Korea)
USC-CSE Affiliates’ Calendar

February 2, 2003  COSYSMO Workshop (with INCOSE), Tampa
February 10-12, 2003  COTS-Based Systems Conference (with SEI, ESI, NRC-Canada), Ottawa
March 4-6, 2003  Ground Systems Architectures Workshop (co-sponsored), Aerospace
March 17-21, 2003  Annual Research Review, Executive Workshop: Agile Methods Revisited
May 2003  Annual Affiliates’ Renewal
July 16-17, 2003  COSYSMO Workshop (with PSM), Keystone, CO
July 18, 2003  COCOMO/SCM Forum Abstracts due
October 21-24, 2003  COCOMO/SCM Forum: Theme: Software Sizing
February 1-4, 2004  COTS-Based Systems Conference, Redondo Beach, CA
March 16-19, 2004  Annual Research Review, Executive Workshop
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Workshop Objectives

• Assess agile and disciplined methods’ strengths and challenges
• Assess feasibility of hybrid agile/disciplined methods
• Provide guidelines for USC-CSE research, Affiliate activities
  – Needs, priorities, risks, opportunities
• Stimulate further USC-CSE/Affiliate collaboration
Top Level Agenda

• Tues: Annual Research Review
• Wed: Affiliate and USC-CSE Agile/Disciplined Methods presentations at Forum
• Wed. 5-8 pm: Affiliate dinner, Steering Group Meeting
• Thurs.: 4 Working groups
  – 12:00-1:30 pm: Lunch and plenary session
• Fri. am: Working group reports; USC-CSE response; wrap-up
  – End by 11:30 am
Proposed Breakout Groups

1. Scaling Up Agile Methods (Don Reifer; Gunjan Sharman)
2. Creating Lean Disciplined Methods (Winsor Brown; Sachin & Meghna Shah)
3. Synthesizing Hybrid Agile/Disciplined Methods (Rich Turner; Apurva Jain)
4. Agile/Disciplined Research Issues (Laurie Williams; LiGuo Huang)
Breakout Group Guidelines

• Product: briefing, preferably with notes and priorities

• Topics should include:
  – Strengths and challenges assessments
  – Most critical issues in area
  – Most promising opportunities
  – Research suggestions: general, CSE, CSE Affiliates

• Wed. afternoon plenary session to finalize breakout groups
USC Research Issues

1. Describe/justify what is unique in RAD drivers over and above COCOMO II drivers (given a domain and business model). I-H, D-L
2. Explain/confirm research strategy not tool extension fait acompli. [“Calibration can not replace thinking in defining a proper model for an area.”] Strategic D-L, I-L; tactical D-L, I-H

2b. How can we get feedback on “value” of model/tool even if they have accuracy/reliability drawbacks. D-M, I-L

3. Run/gather COSSEMO/CORADMO against existing data. I-H, D-L
5. COCOMO Balance-sheet: Effort investment for effort or schedule or quality or … improvement. I-H (if successful), D-M
6. Organization balance sheet: hard and soft capital investments (added to effort investments) for effort or schedule or quality or … improvement. Note: like SE environment or tooling; different time scale (not project’s); for Sr. Mgt. and corporate strategy. D-H, I-M.