

COSYSMO 3.0 Workshop Overall

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USC Center for Systems and Software Engineering

2014 COCOMO Forum

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Agenda

The agenda has been revised:

- **08:30 Delphi Introduction**
- **08:35 Jim presents Harmonized Model**
- **09:05 Harmonized Model Delphi Part 1**
- **09:20 Break 1**
- **09:35 Further Discussion of Reggie's Total Development Cost presentation**
- **10:05 Discussion on Reduced # of Effort Multipliers**
- **11:05 Break 2**
- **11:20 Harmonized Model Delphi Part 2**
- **11:30 Kevin's Results on Enhancing COSYSMO with COCOMO Parameters**
- **11:55 Whither COSYSMO Working Group?**
- **12:00 End**

Barry's Suggestion for Coalescing Effort Multipliers (1/2)

This is a transcription of Barry's 10/15 E-mail

- As a strawman response to Garry's suggestion that we combine some COSYSMO cost drivers, here are some suggested combinations.
- Problem/Solution Understanding: of CONOPS; of Requirements; of NDI; of Architecture; of Technology; of ility tradespace
- Personnel/Team Capability: Analysis/Synthesis; Domain of Interest; Team Cohesion; Team Stability
- Productivity Aids: Models & Tools; Process Maturity; Agility
- Performance Constraints: Legacy Migration, Interoperability; Platform Diversity; Distributed Performers

Barry's Suggestion for Coalescing Effort Multipliers (2/2)

- I'd suggest that we have expanded sets of 1 to 7 Extra Low to Extra High rating levels for these, and compute a composite rating level as a possibly-weighted average of the individual ratings. This is what we do for various COCOMO cost drivers/scale factors such as Process Maturity, Complexity, and Architecture and Risk Resolution. Using the weighted average to 2 decimal places would avoid the current large-multiplier-gap that COSYSMO has for some individual variable (e.g., going from a multiplier of 1.37 to 1.87 to go from Low to Very Low Requirements Understanding. If Requirements Understanding is averaged with 5 other Understanding cost drivers, its influence will be scaled down.

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Whither COSYSMO Working Group?

- **The COSYSMO Working Group has been having 1-hour teleconferences over recent months**
 - Biweekly, on the Harmonized Model
 - The other weeks, more recently, on up-scoping the model and other broad topics
 - The short-term goal was preparing for the Forum
- **How should we continue now?**
 - What topics for discussion?
 - Continue regular teleconferences? If so, how frequently?
- **Note that interested Forum attendees are invited to join (contact Jim)**