COSYSMO 3.0 Workshop
Overall

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USC Center for Systems and Software Engineering
2014 COCOMO Forum
October 22, 2014
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 COSYMO Working Group?
- **12:00** End
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)