



**18<sup>th</sup> International Forum on COCOMO and Software Cost Modeling**  
**Los Angeles, CA**  
**October 24, 2003**

# **Outbrief**

**Ricardo Valerdi – *USC Center for Software Engineering***

# COSYSMO Workshop Agenda

## Morning (8:30 AM – noon)

**Brief Introduction on COSYSMO**

**Updates on action items**

**Updates on related work**

**Results from Delphi Round 2**

## Afternoon (1:00 PM – 5:00 PM)

**SE Sizing discussion**

**Data collection form & NDAs**

**Synchronization with INCOSE activities**

**Open issues**

**Action items**

# Main Accomplishments

- **Addressed driver issues and recommended updates to:**
  - **Technology Maturity**
  - **Architecture understanding**
  - **# of recursive levels in the design**
- **Determined what to do with missing data in Delphi surveys**
- **Agreed on an example of Requirements counting**
- **Telecon w/other working group members**
- **Performed additional round of Delphi survey**

# Participants (23)

John Rieff (Raytheon)  
Gary Thomas (Raytheon)  
John Riedener (TACOM-ARDEC (PSM))  
Jim Thomas (FAA)  
Tom Solosky (DCMA)  
Chris Miller\* (SPC)  
Marilee Wheaton (Aerospace)  
Paul Mohlman (Aerospace)  
Gunter Daley\* (L-3 Communicator)  
Gary Hafen (LMCO)  
Garry Roedler\* (LMCO)  
Merrill Palmer (BAE Systems)  
Evin Stump (Galorath Inc)  
Don Reifer (Reifer Consulting)  
Linda Brooks (Northrop Gruman)  
Steven Wong (Northrop Grumman)  
Linda Lamp (Stevens Tech)  
Barry Boehm (USC)  
Ricardo Valerdi [Moderator] (USC)  
Jesal Bhuta [Scribe] (USC)  
\*Representing INCOSE

Michael Ernstoff  
Will Williams (Boeing)  
Richard Katz (Boeing)

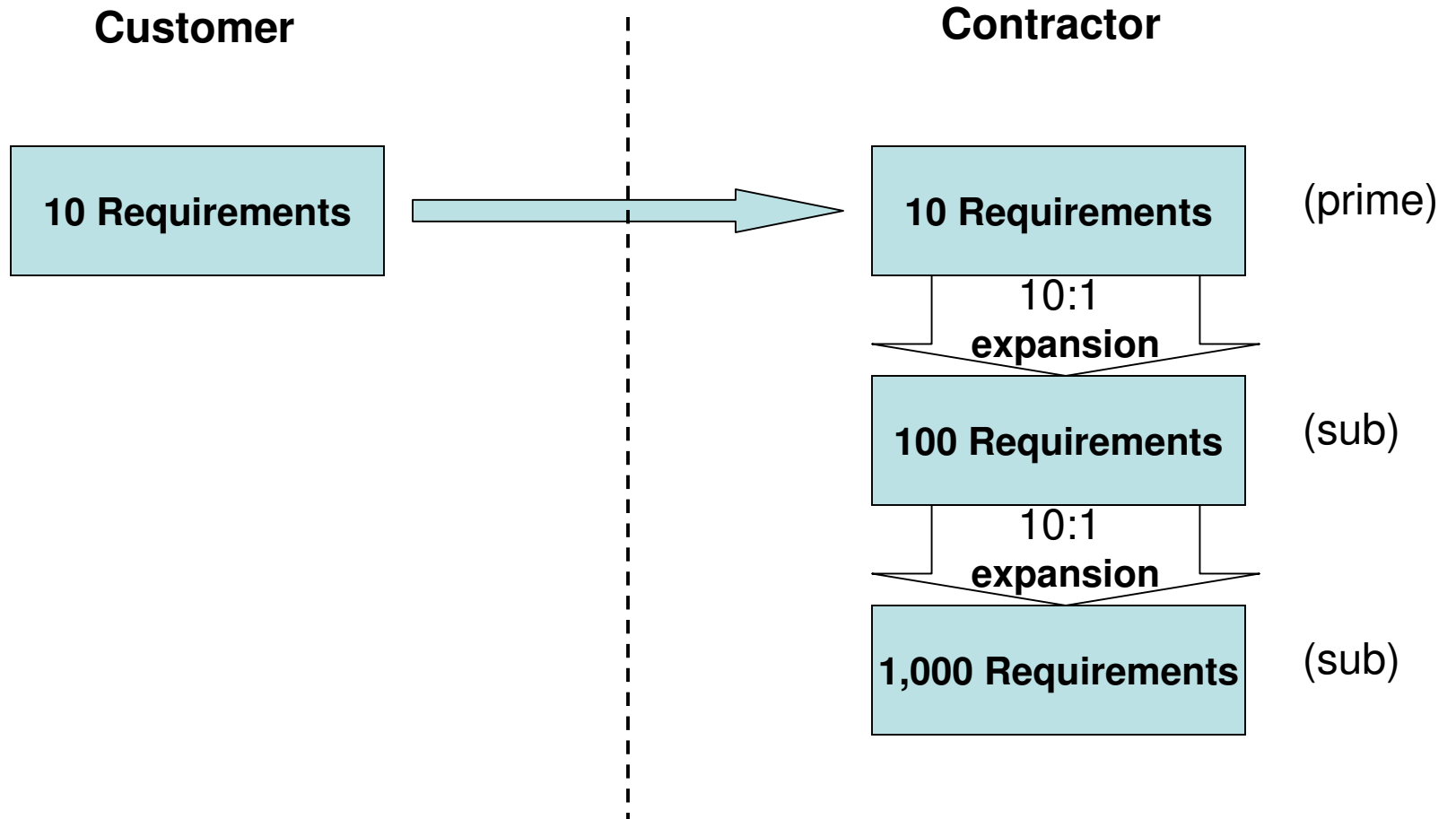


via teleconference

# Action Items

1. Look at the NASA 4 level requirement specification method and include in “# of System Requirements” size driver
2. In future Delphi surveys, ask for Very Low and Very High ratings only (do not bother asking for EMR)
3. Exclude blank Delphi responses from the final average, std dev
4. Normalize all Delphi responses to nominal “# of Requirements” = 1.0
5. Provide an estimate confidence scale for the drivers
6. Stratify Delphi responses by domain, cost estimation experience
7. Create checklist for “Process capability” cost driver, eliminate CMMI & EIA 731 levels
8. Provide more guidance on how to rate drivers with multiple viewpoints

# Sizing viewpoints



# Questions or Comments?

**Dr. Barry Boehm**

**boehm@sunset.usc.edu**

**Ricardo Valerdi**

**rvalerdi@sunset.usc.edu**

**Website**

**<http://www.valerdi.com/cosysmo>**