

# ***Practical Software and Systems Measurement***

***Objective Information for Decision Makers***



***Measurement for Agile Programs  
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***Matt Kennedy, US Treasury  
Bill Golaz, Lockheed Martin  
Greg Niemann, Lockheed Martin  
Paul Janusz, US Army ARDEC***

# ***Measurement for Agile Programs***

- ***More and more DoD programs using Agile***
- ***What is different about measurement for Agile***
- ***Measurement at different levels***
  - ***Team***
  - ***Program***
  - ***Enterprise***
- ***Strawman ICM table is available as a starter***

## ***Objectives of the Workshop***

- ***ICM Table for agile measurement that is ready to use***
- ***Outline and writing assignments for agile measurement guidance***
- ***Assignments for agile measurement specifications***

# Workshop Format

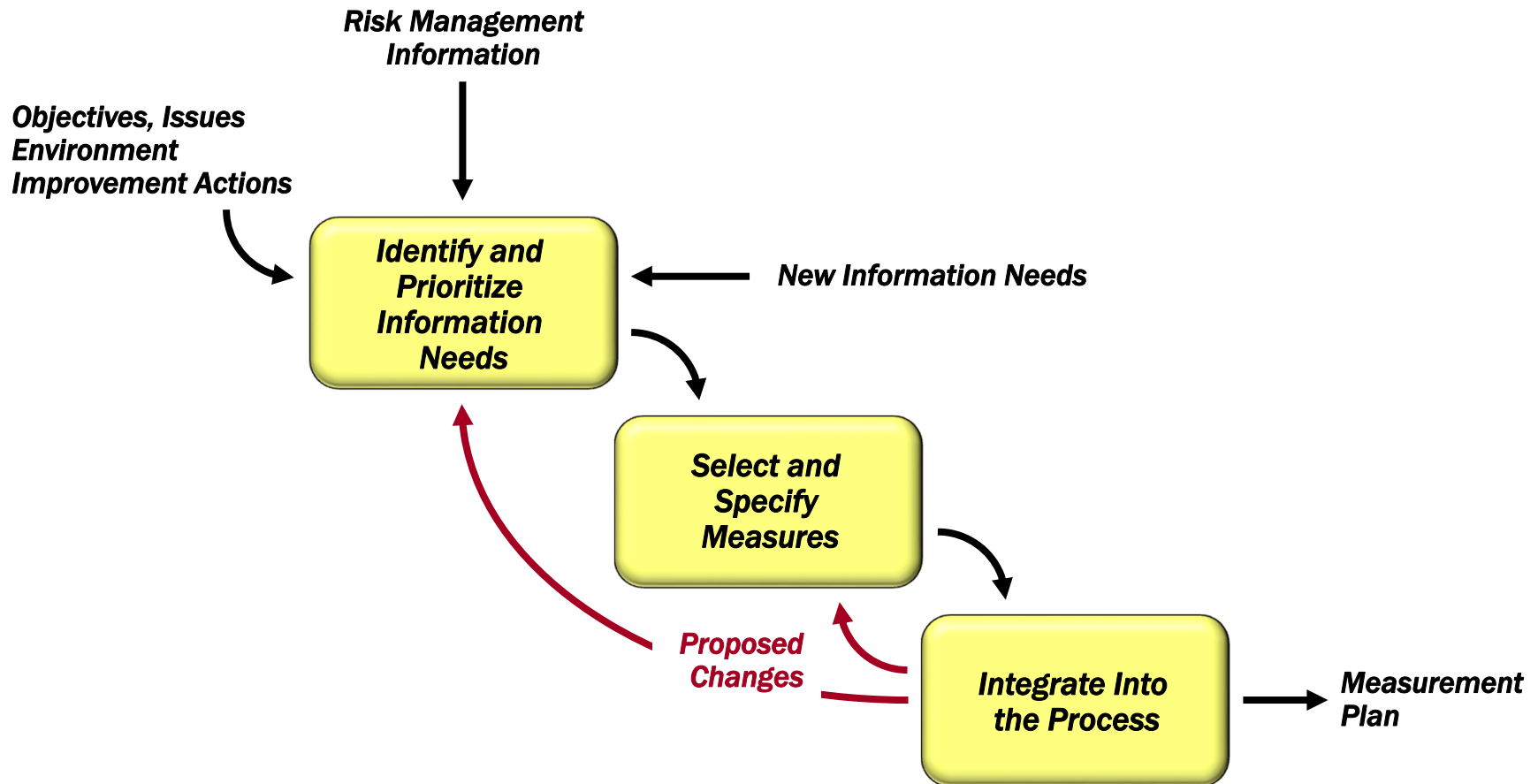
- *Introduction*
  - *Round the room expectations*
- *Workshop use PSM approach*
- *Strawman ICM table*
- *Scope our work*
- *Agile Information Needs at different levels*
- *Map Information Needs to PSM categories*
- *Proposed measurement concepts*
- *Identify proposed measurement constructs*
- *Make specification and guidance assignments*

## ***Intended Output***

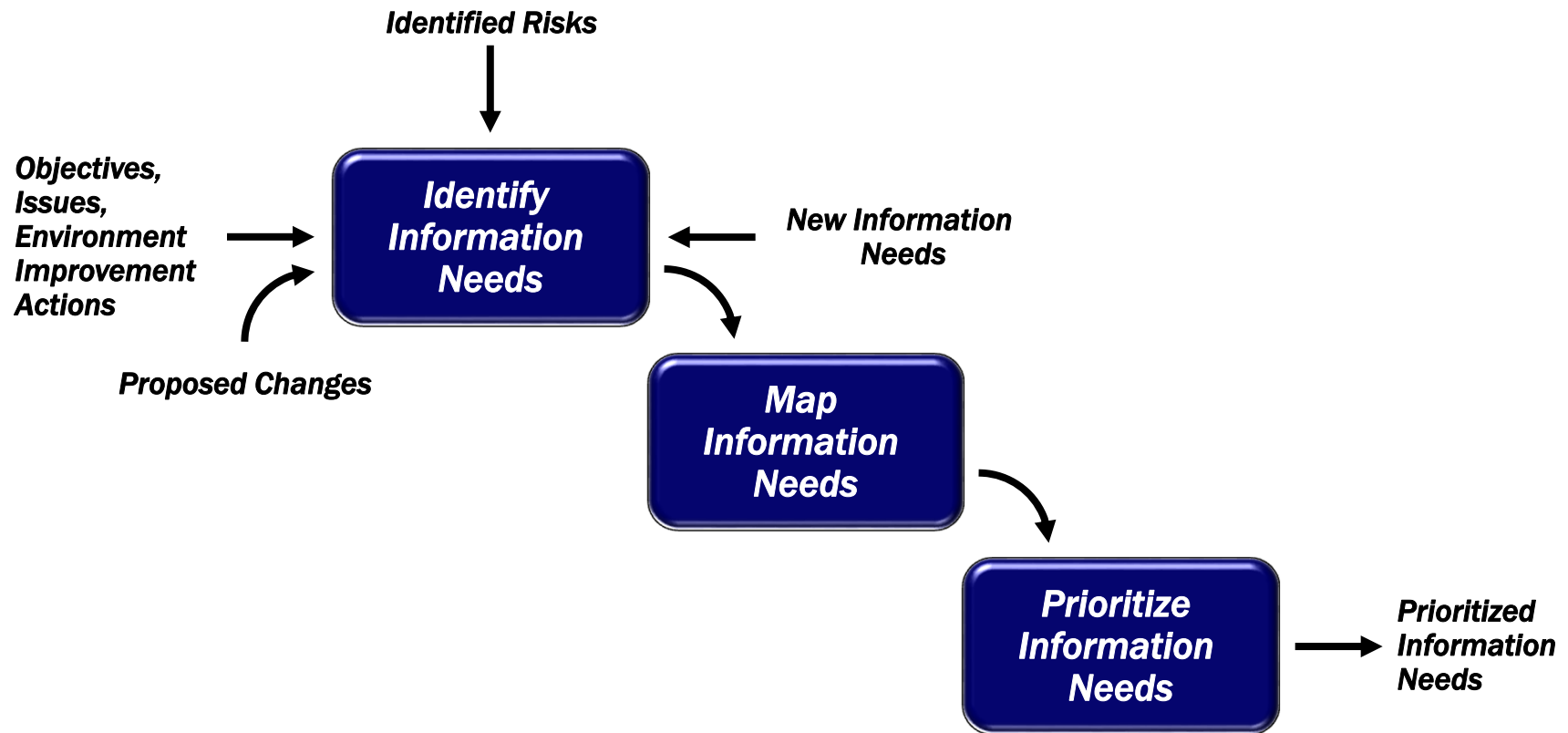
- ***Agile measurement guidance***
- ***Agile measurement ICM table***
- ***Assignments of measurement specifications***

# ***Room Expectations***

# **Plan Measurement**

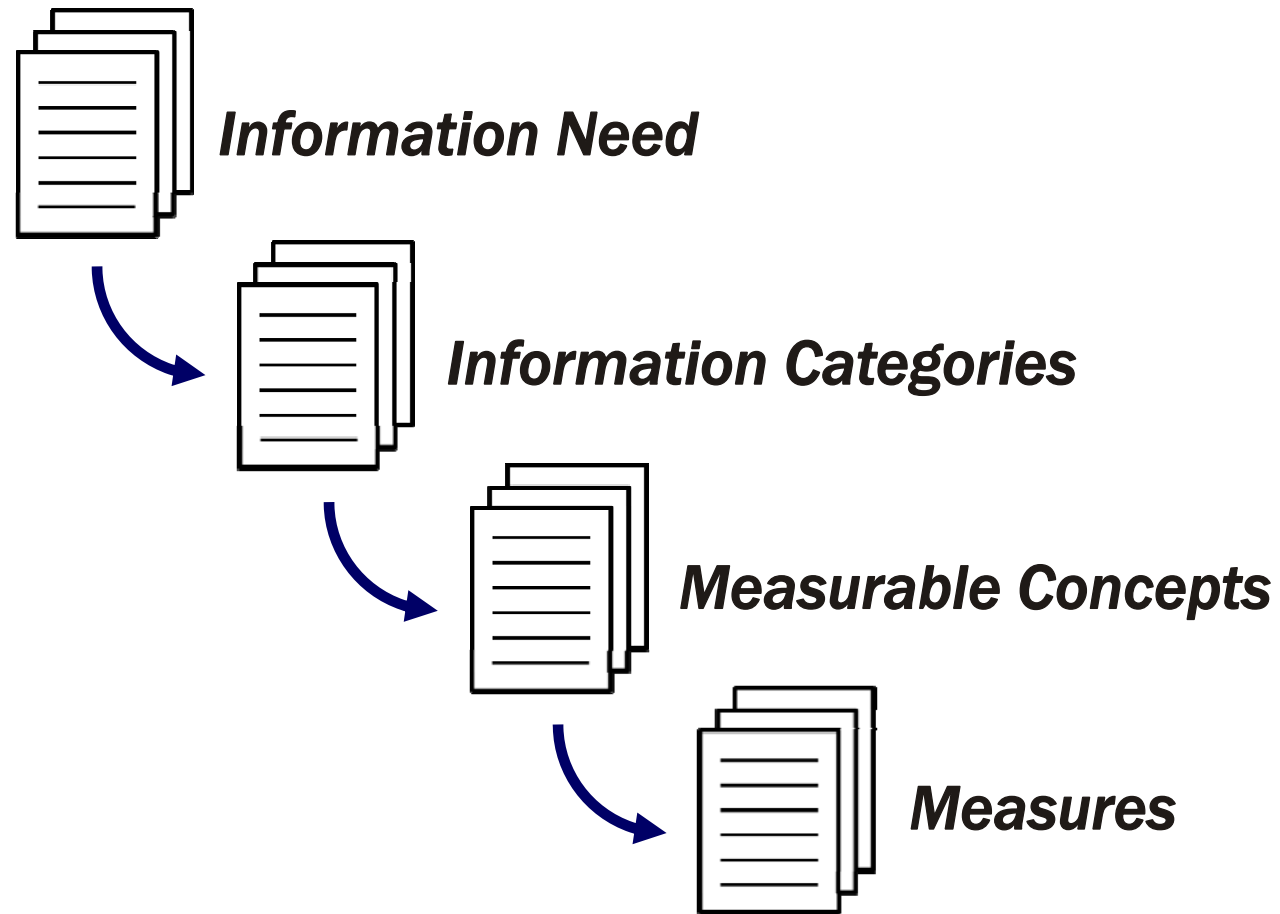


# ***Identify and Prioritize Information Needs***





# ***Map Information Needs Using the PSM Measurement Hierarchy***



# Information Categories

### Schedule and Progress

Provides insight into achievement of milestones or events within major project or enterprise activities

### Resources and Cost

Provides insight into expenditure of resources, such as people, facilities, and equipment

### Size and Stability

Provides insight into changes in product function and structure

### Product Quality

Provides insight into the quality of the product

**Schedule and Progress**

**Resources and Cost**

**Size and Stability**

**Product Quality**

**Process Performance**

**Technology Effectiveness**

**Customer Satisfaction**

### Process Performance

Provides insight into the maturity and capability of the technical and management processes

### Technology Effectiveness

Provides insight into suitability, technical performance, and stability of technologies

### Customer Satisfaction

Provides insight on how well the user's / customer's expectations have been met