

# Topics

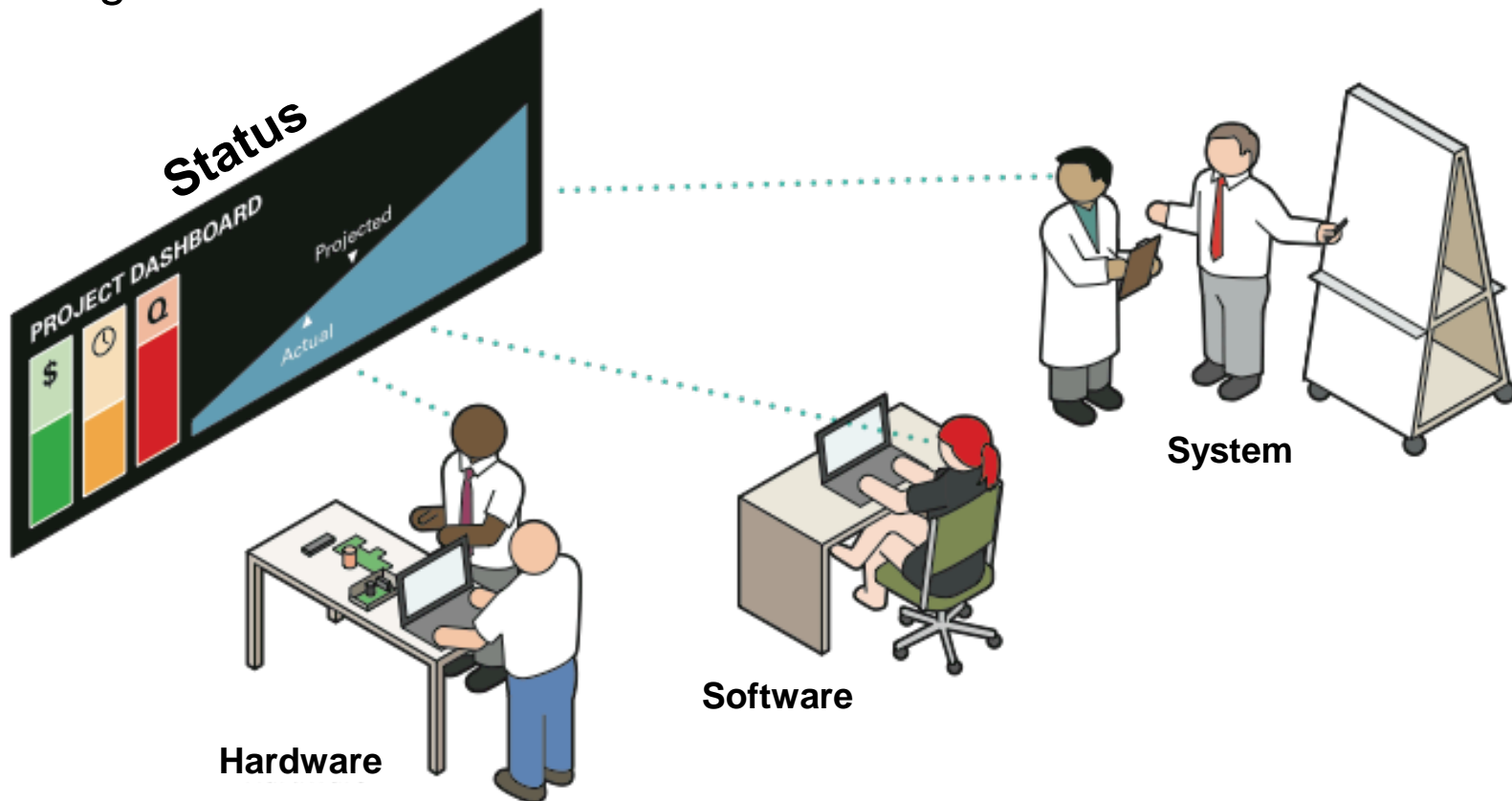
- Project and Org Support Process Areas
- Configuration Management (CM)
- Process and Product Quality Assurance (PPQA)
- Measurement and Analysis (MA)
- Decision Analysis and Resolution (DAR)
- Project and Org Support Summary
- Exercise 3: Measurement Implications of Your Process Improvement Goals

# Measurement and Analysis (MA)

A Support Process Area at Maturity Level 2

## Purpose

Develop and sustain a measurement capability used to support management information needs.



# Relevant Terminology

## Base Measure

Measure defined in terms of an attribute and the method for quantifying it

A base measure is functionally independent of other measures.

## Derived Measures

Measure that is defined as a function of two or more values of base measures

# When Measurement and Analysis Is Not Done Well...

Measurements are used inappropriately.

Inappropriate measures can cause unintended behavior.

Management is based on perception rather than fact.

Measurement presentations may confuse rather than enlighten.

Useless measures are collected.

# Measurement and Analysis Goals

## SG 1

### Align Measurement and Analysis Activities

Measurement objectives and activities are aligned with identified information needs and objectives.

## SG 2

### Provide Measurement Results

Measurement results, which address identified information needs and objectives, are provided.

The process area also has generic goals to support institutionalization.

# Measurement and Analysis Specific Practices

## SG 1

### Align Measurement and Analysis Activities

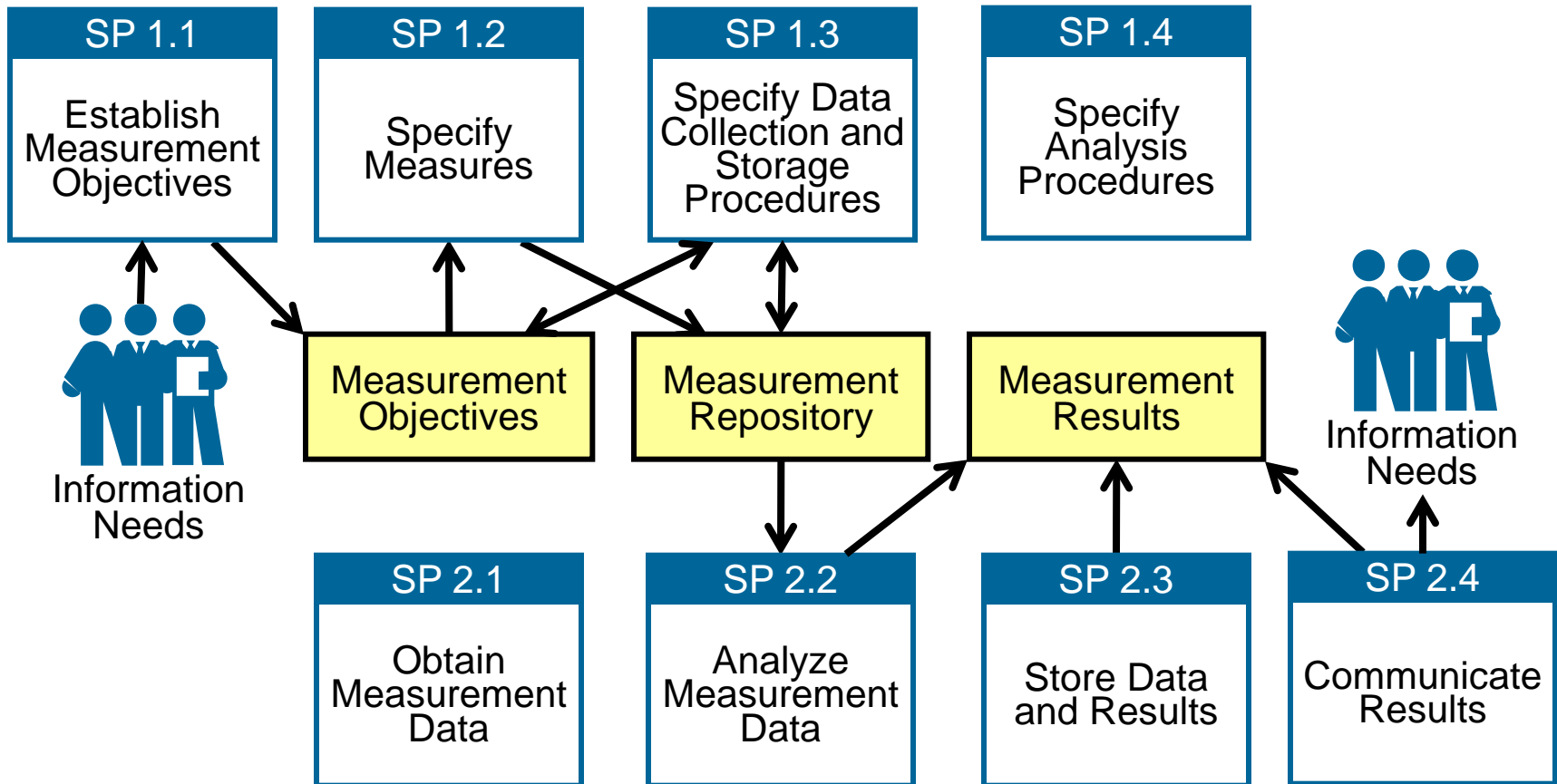
- SP 1.1 Establish Measurement Objectives
- SP 1.2 Specify Measures
- SP 1.3 Specify Data Collection and Storage Procedures
- SP 1.4 Specify Analysis Procedures

## SG 2

### Provide Measurement Results

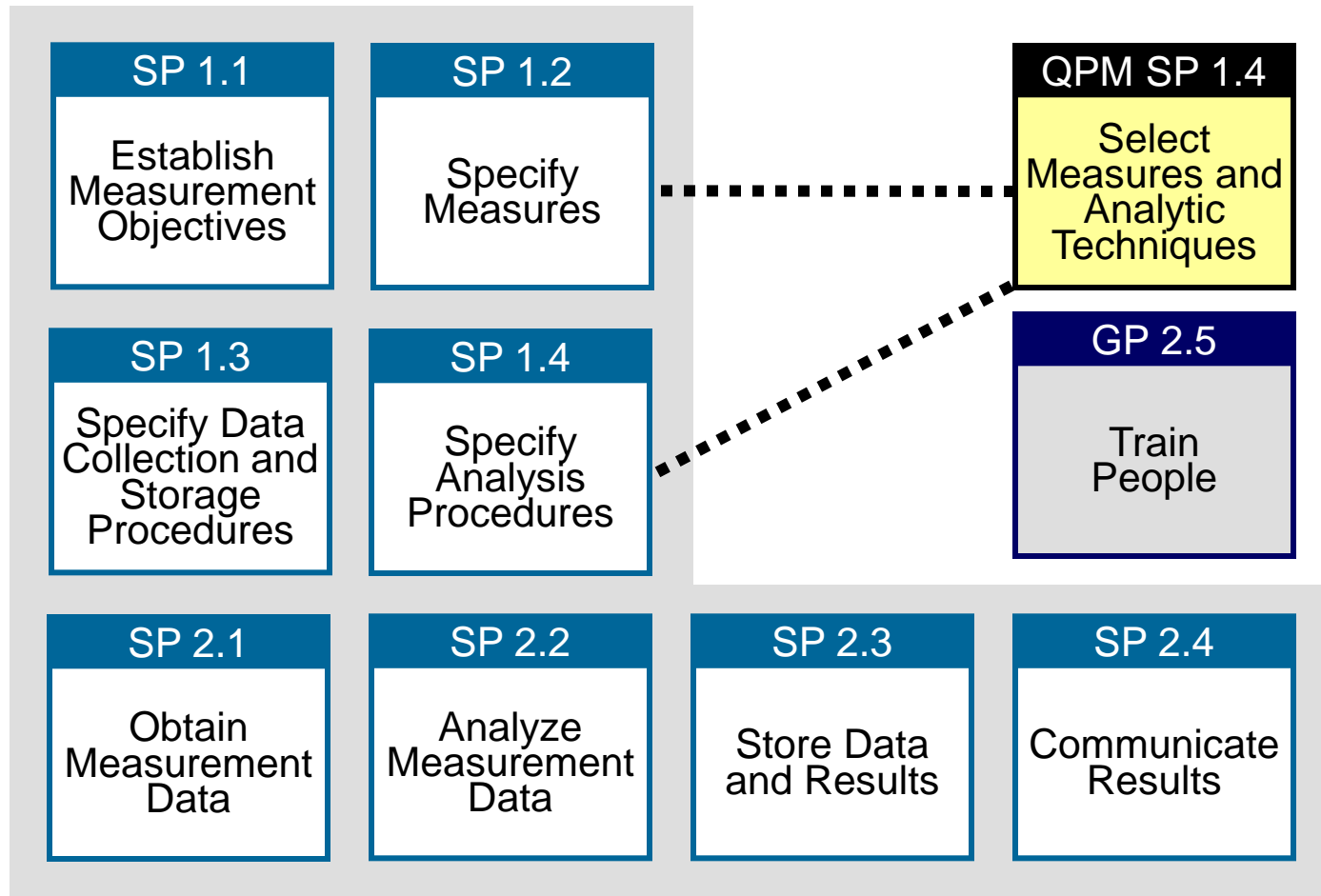
- SP 2.1 Obtain Measurement Data
- SP 2.2 Analyze Measurement Data
- SP 2.3 Store Data and Results
- SP 2.4 Communicate Results

# Measurement and Analysis Sampling of Work Products



# Measurement and Analysis

## Sampling of PA and GP Relationships





# Measurement and Analysis

## Case Study Example Focus Area

