### **Effectively Managing Process Compliance**



### Agenda

- Current Challenges
- Goals
- Proposed Solution
- Tool Support and Interfaces
- Benefits

#### **Current Challenges**

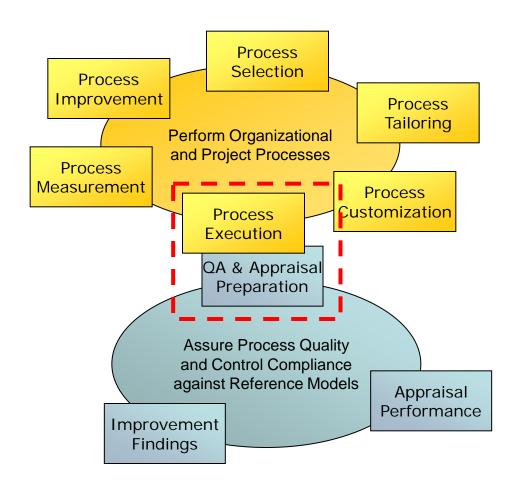
- Heavy time and cost pressure affects product quality
- Frequent audits or appraisals
- Up to 25% of work hours for audit preparation and performance
- Assure compliance with specific models or standards for safety, security, quality, reliability, etc. in parallel

#### Goals

- Allow organizations to focus on the definition and implementation of processes
- Provide automated support to facilitate enactment of the processes
- Provide support for continuously monitoring adherence to the processes
- Support appraisal preparation and performance by automating evidence collection
- Effectively collect, manage and track non-conformances to closure in order to improve processes and secure future audit success

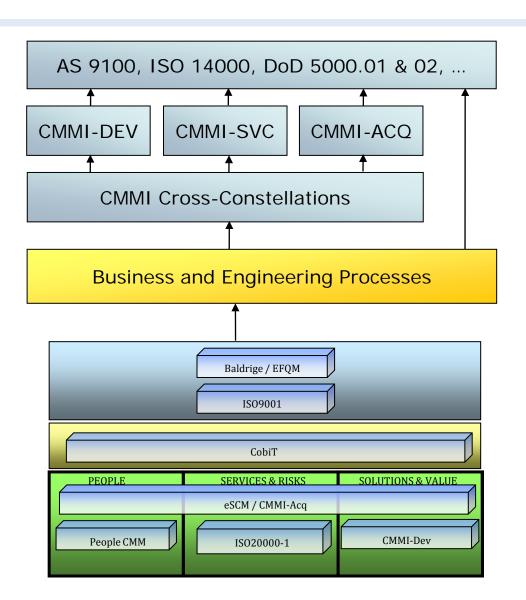
#### Key Idea

- Actively use the development processes in projects, i.e. by creating work products in projects
- Link the actively used development processes to the models or standards that need to be fulfilled (e.g. CMMI, ISO)
- Continuously perform PPQA activities
- Result: evidence data will automatically be collected in the background



#### Multi-model Support

- Multiple reference models can be linked into multi-models
- Multimodel links are weighted
- Multimodels are specific to organization (i.e. dependent on type of business)





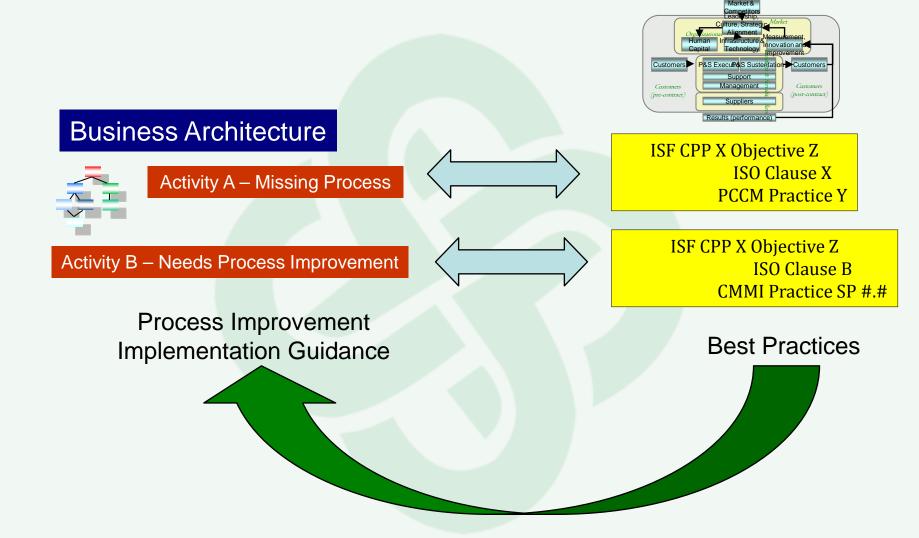
# **Process Composition and Definition**

- Establish and maintain Organization Standard Process model(s) in Model Wizard or Stages or tooling with similar capability.
  - Create or import a model of your enterprise processes that incorporates the desired best practices of applicable standards and model(s). Update when needed.
    - This step is performed once for each level at which the process is tailored within the enterprise. (e.g. Enterprise, Division, Department, Product Line)
    - Ultimately it is tailored to a particular project. At that point it becomes a representation of the Project's Defined Process.
    - It can then be used as the basis for identifying and analyzing information and evidence supporting:
      - Project QA activity and monitoring,
      - Internal compliance audits, and
      - External benchmarking appraisals or compliance audits.



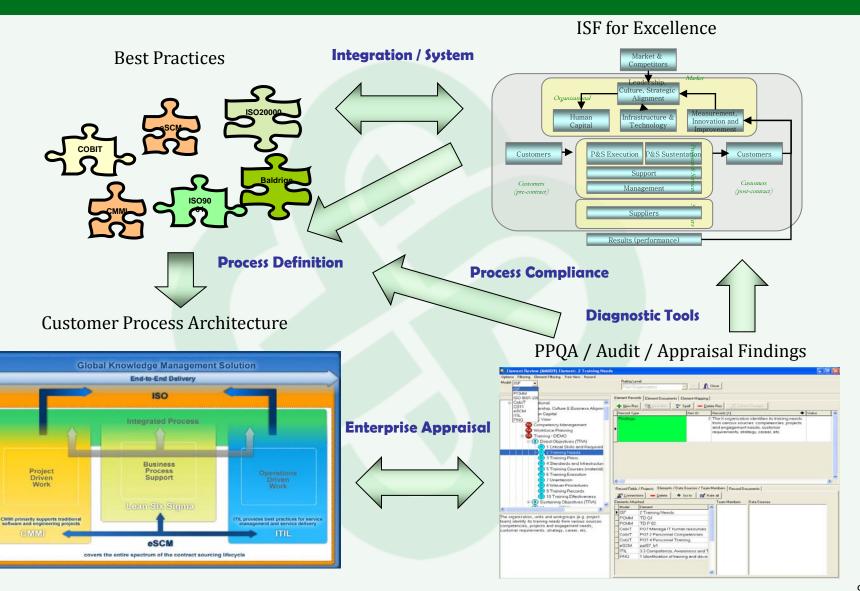
#### Relationship

#### Enterprise Architecture, Best Practices, Process Improvement

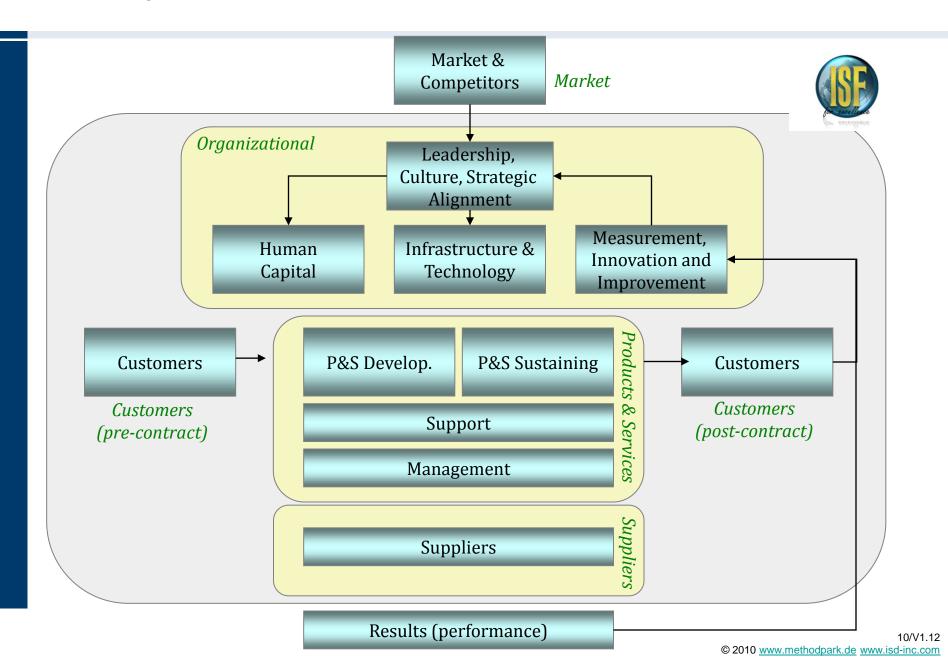




### Relationships: Process Architecture, Best Practices, Audits

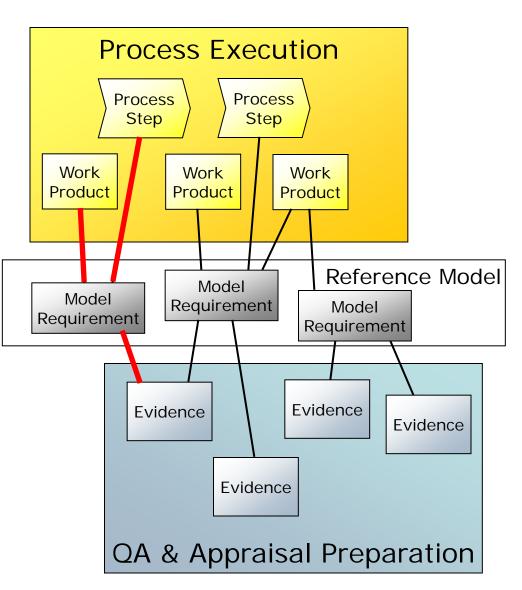


# ISF for Excellence – Systemic View Integration Framework

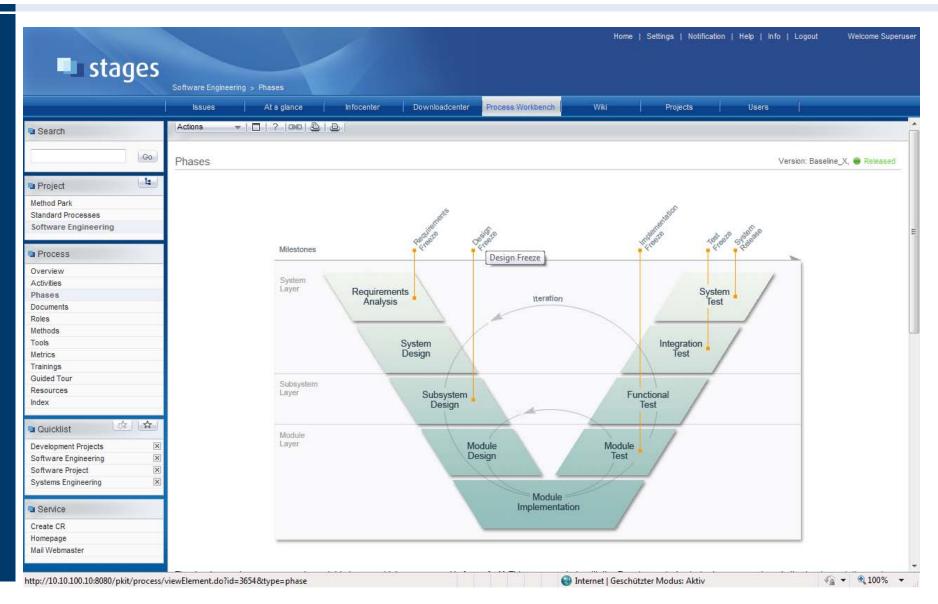


#### **Solution Details**

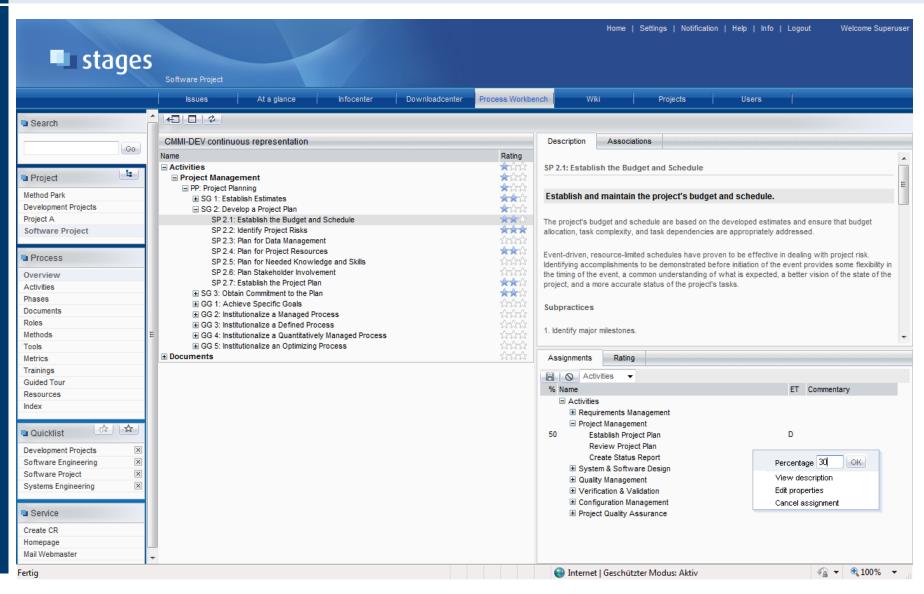
- Reference models are broken into different model requirements
- Process elements are linked with model requirements
- Model requirements are mapped to evidences
- Evidence data maps can be generated



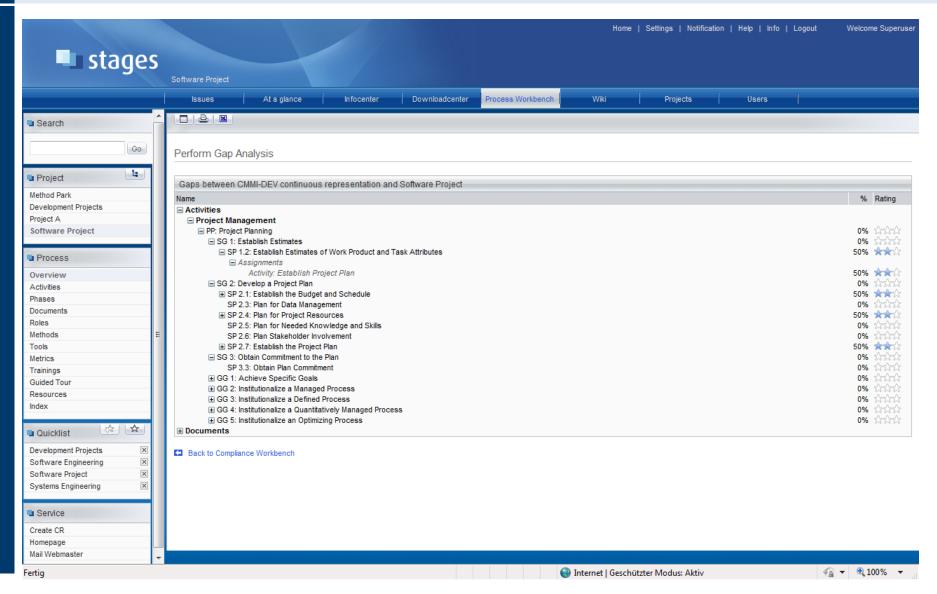
### **Example: Process Lifecycle**



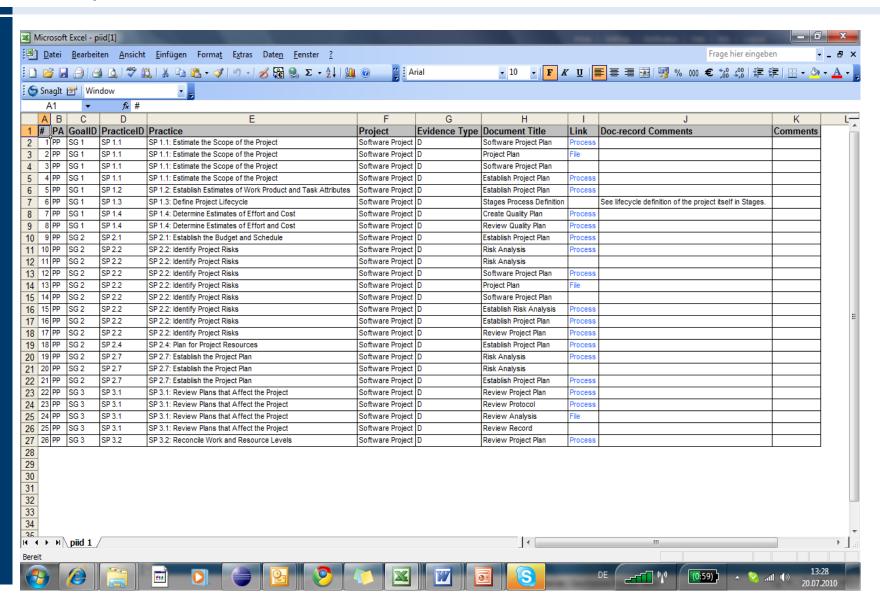
### **Example: Process Compliance Mapping**



#### Example: Compliance Gap Analysis



#### **Example: Evidence Data Generation**





# Integrated System Diagnostics

### **Audits and Appraisal Process**



Use **Model Wizard** to create or import a model that represents your Organizational Standard Model and/or the desired QA Reference Model.



N

Use **Appraisal Wizard (AW)** to setup Appraisal Wizard Audit Template(s) for each type of Audit you want to perform (e.g. setup unique record types, status values, and document types, etc.)



- Create Audit Question records to build audit checklist for set of audit checkpoints.
- •Use the Record Documents tab and the document list to identify the expected objective evidence for each audit question.

Use the AW tool during the audit to document the audit finding(s) (e.g. "Compliance, "Non-Compliance (N/C)", "Information Needed" record types).

- •Write up N/C Action Item records
- Determine compliance ratings



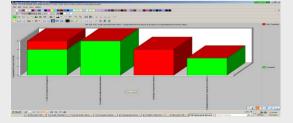




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Use the AW tool to build various reports of the audit finding(s) (e.g. Reports of % compliant/% non-compliant findings; List N/C Action Items; etc.) to prepare for follow-on audits.

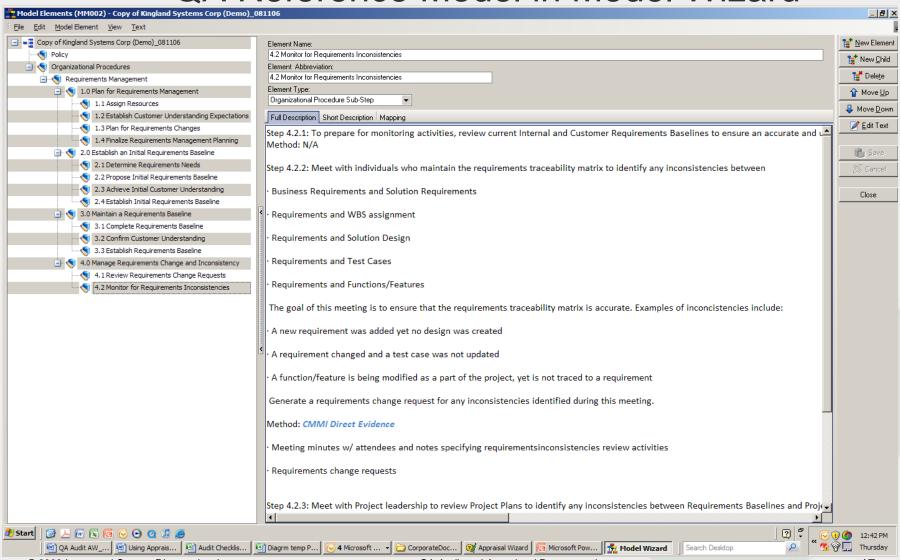




- •Use **Model Mapper** to map QA Reference model to a standard or model (e.g. CMMI) for use in appraisals.
- •Import new "Mapped Model" into AW to use audit results and organization's existing data to support Readiness Reviews and Appraisals.

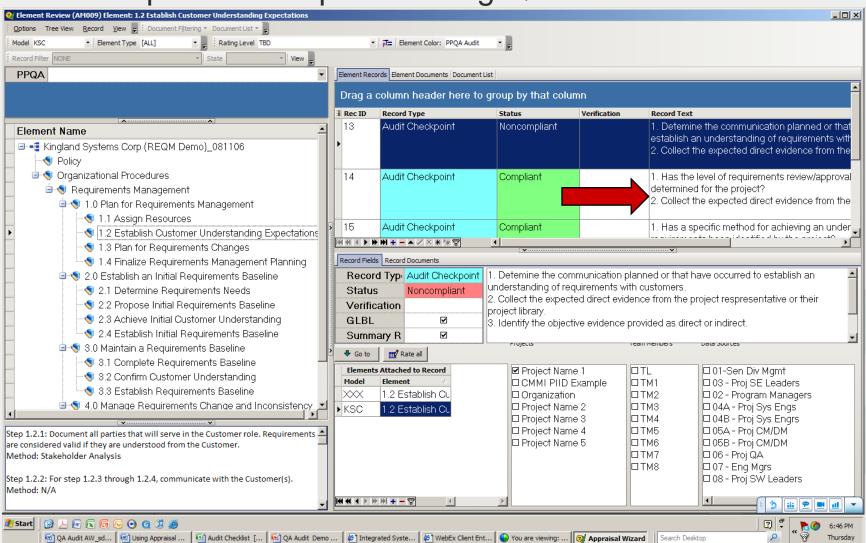


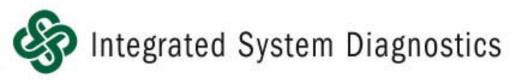
### QA Reference Model in Model Wizard



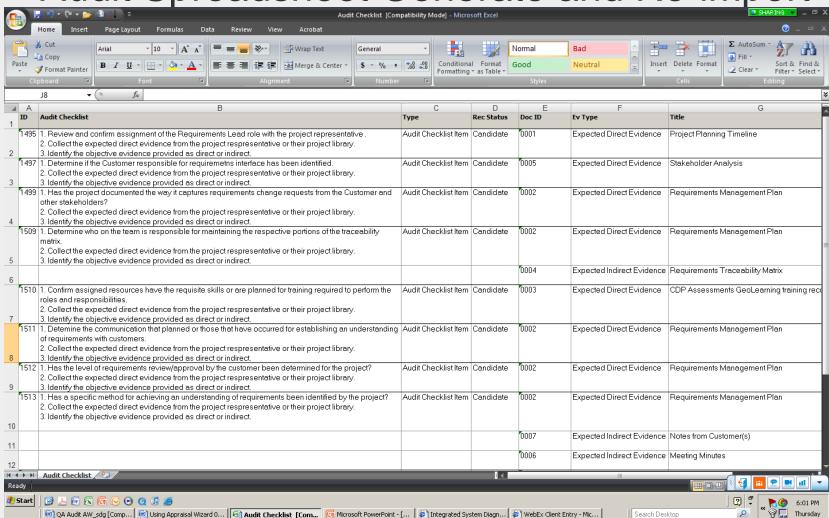


## Setup Audit Templates Using QA Reference Model



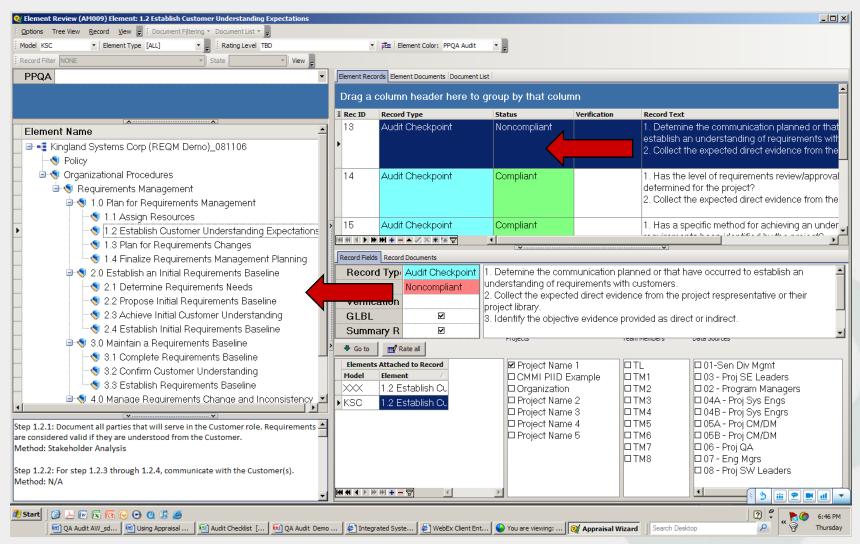


Audit Spreadsheet Generate and Re-import



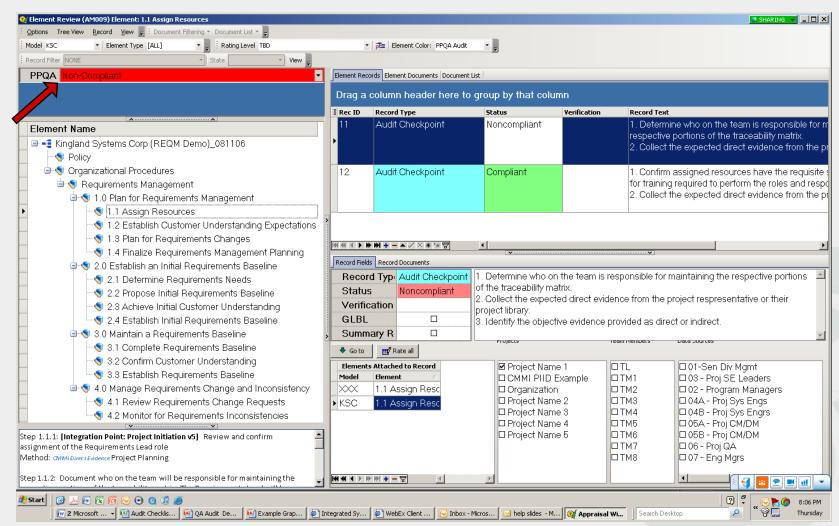


### Determine Status of Records/Documents



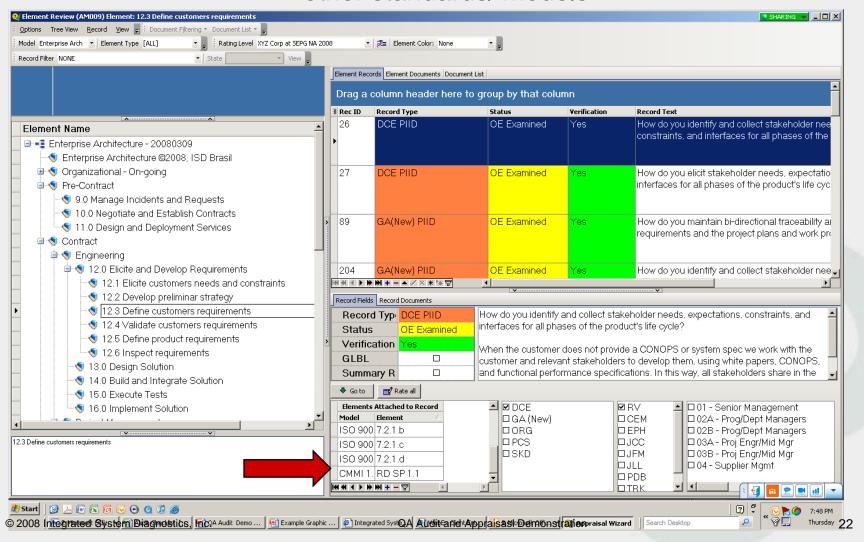


# Determine Element Compliance Ratings





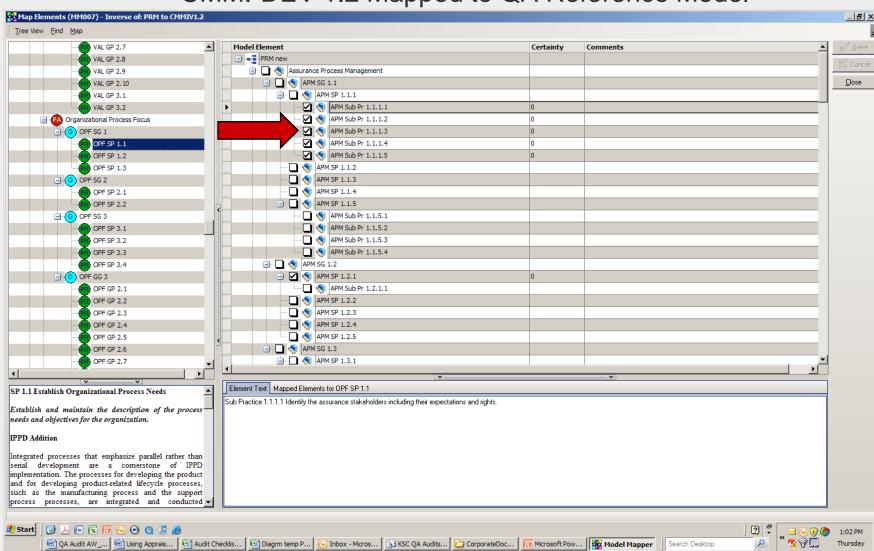
Audit Results and organization's existing data supports <u>appraisals</u> and ties to other standards/ models





## Integrated System Diagnostics

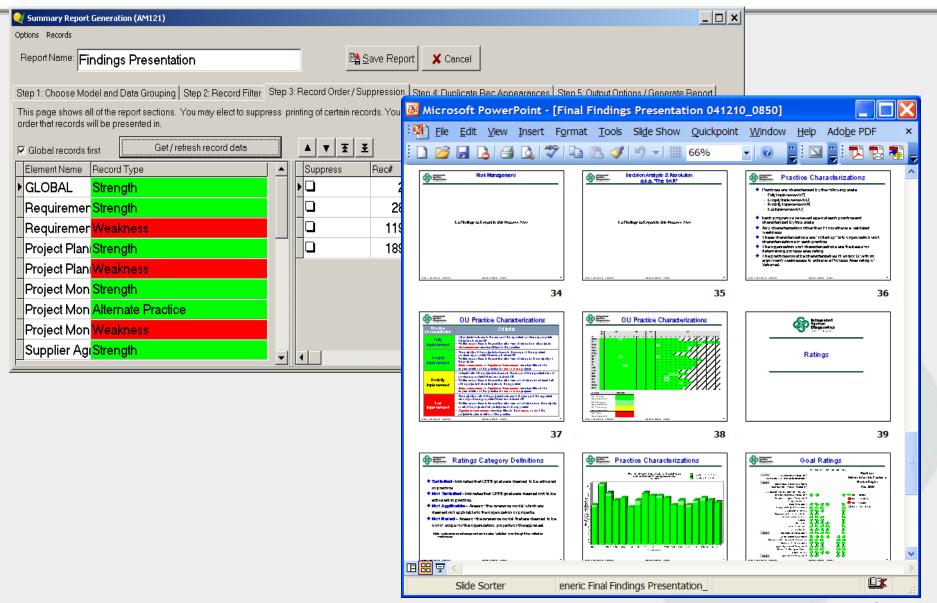
#### CMMI-DEV 1.2 Mapped to QA Reference Model





## Integrated System Diagnostics

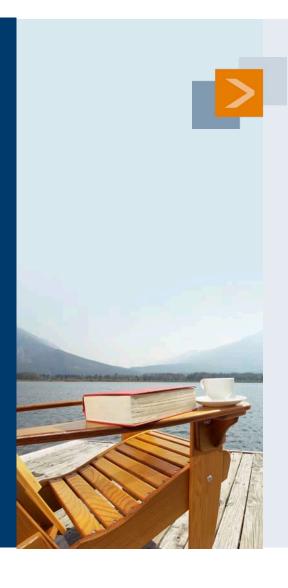
# **Generate Reports**



#### Benefits

- Reduce complexity
  - Process descriptions become consistent and lean
  - No "CMMI or ISO speak"
  - Fulfill multiple standards in parallel
- Reduce efforts and costs
  - Companies reported up to 60% less efforts for audit preparations
  - No interruption of operational work because of audit preparations
- Concentrate on process improvement, not process administration





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