

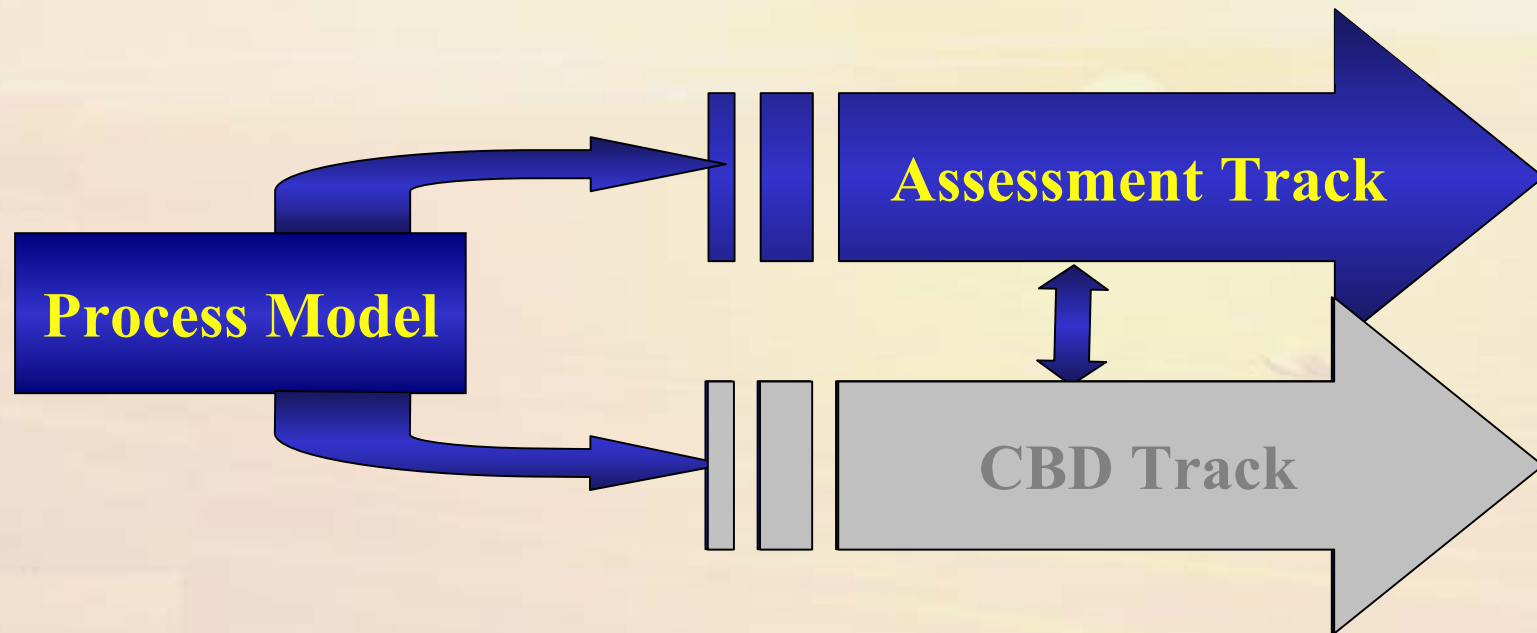
☺☺SPICE

-The road to qualitative CBD –

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OOSPICE



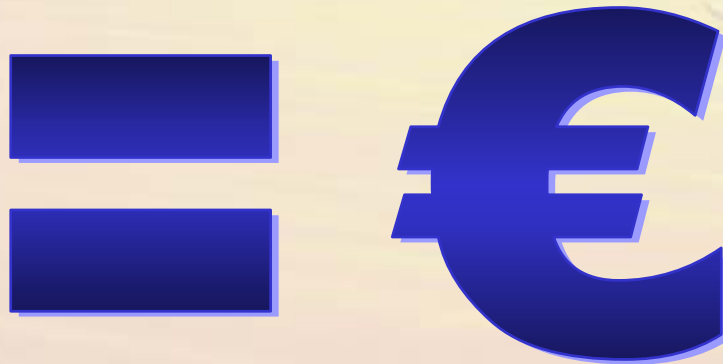
What is OOSPICE?

- A project combining two worlds
 - CBD & SPAI
- Extending the 15504 process reference model to cover CBD



Word of practitioners

”CBD is the key to enhancing both quality and productivity”



Problems

- Don't have the knowledge and skills
- Structures and processes are not adapted to CBD
- Inappropriate technical and management approaches
- Lacks information concerning availability, quality and reliability of components
- No information about capability of component suppliers



The Gap

CBD Processes
CBD Terminology

“The standard”



The Gap

CBD Processes
CBD Terminology



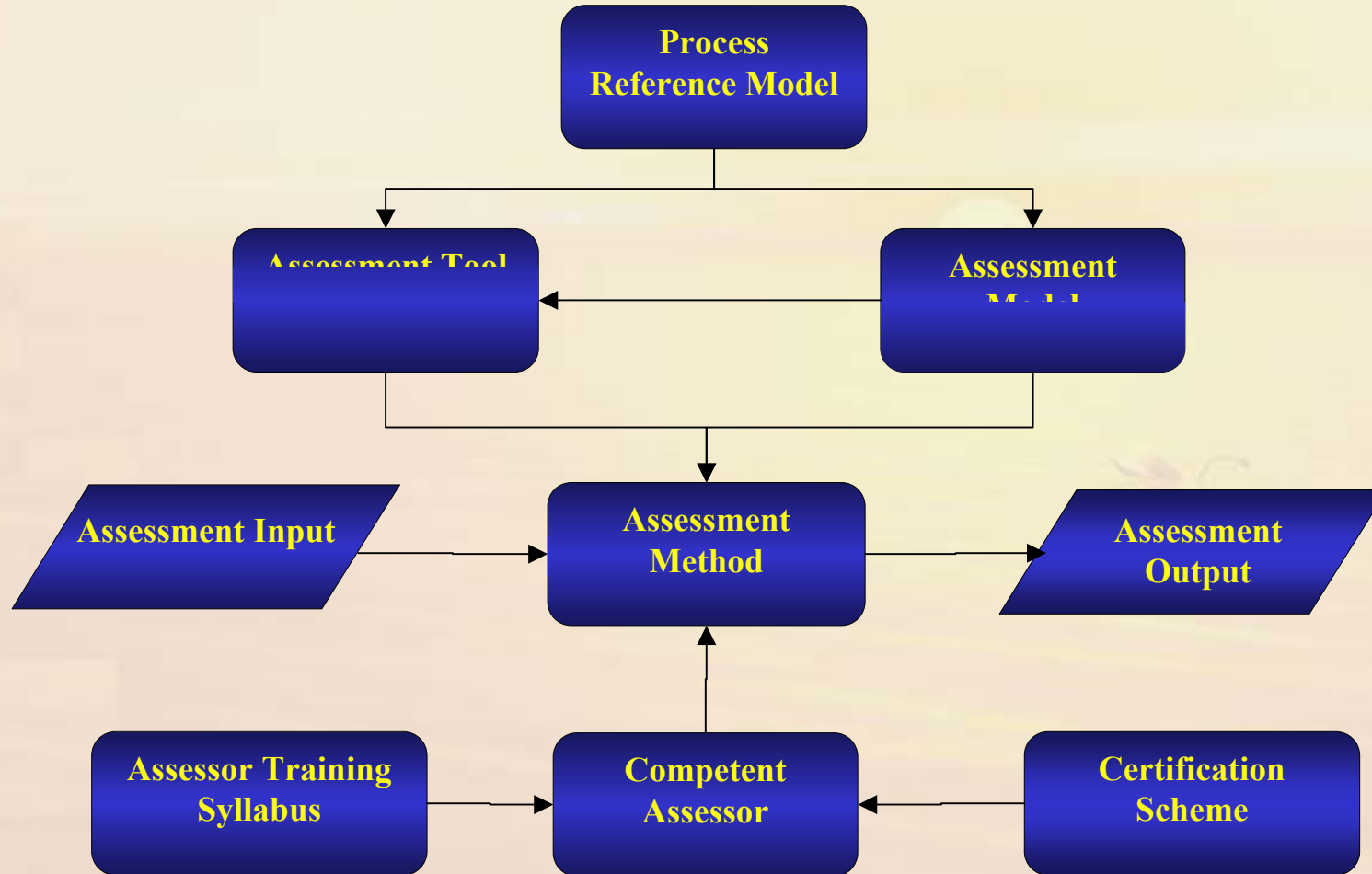
Project Objectives

To bridge the gap by developing:

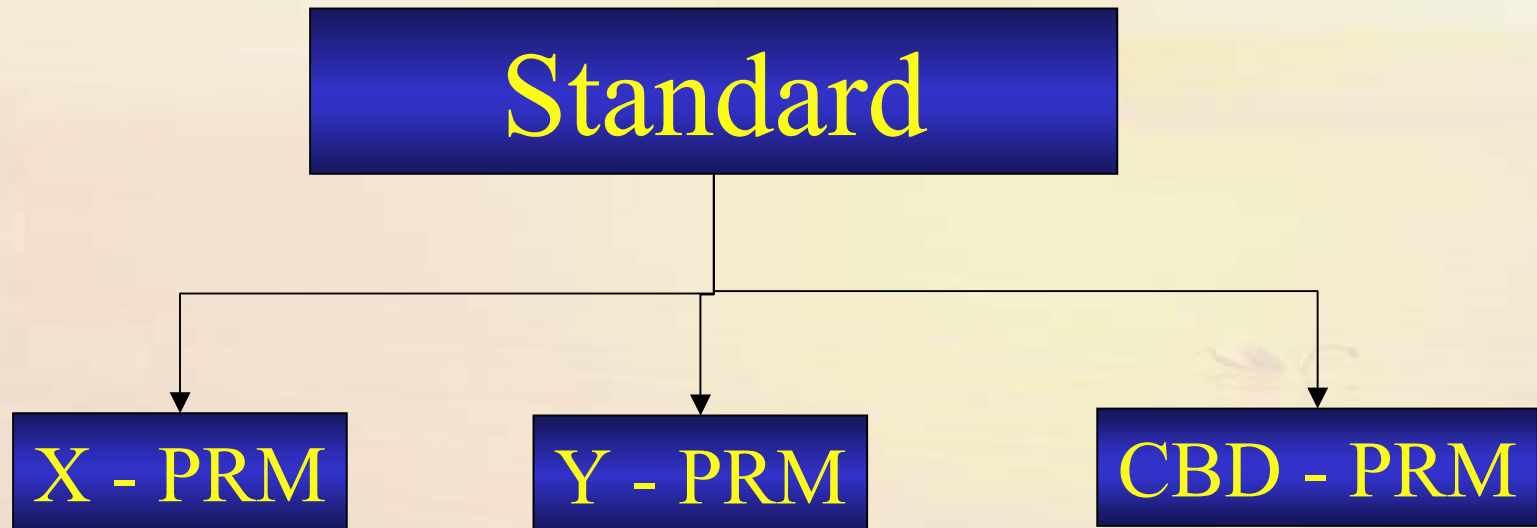
- A CBD Process Model
- A CBD Assessment Methodology
 - Process Reference Model
 - Assessment- Method, Model and Tool
- A CBD Methodology



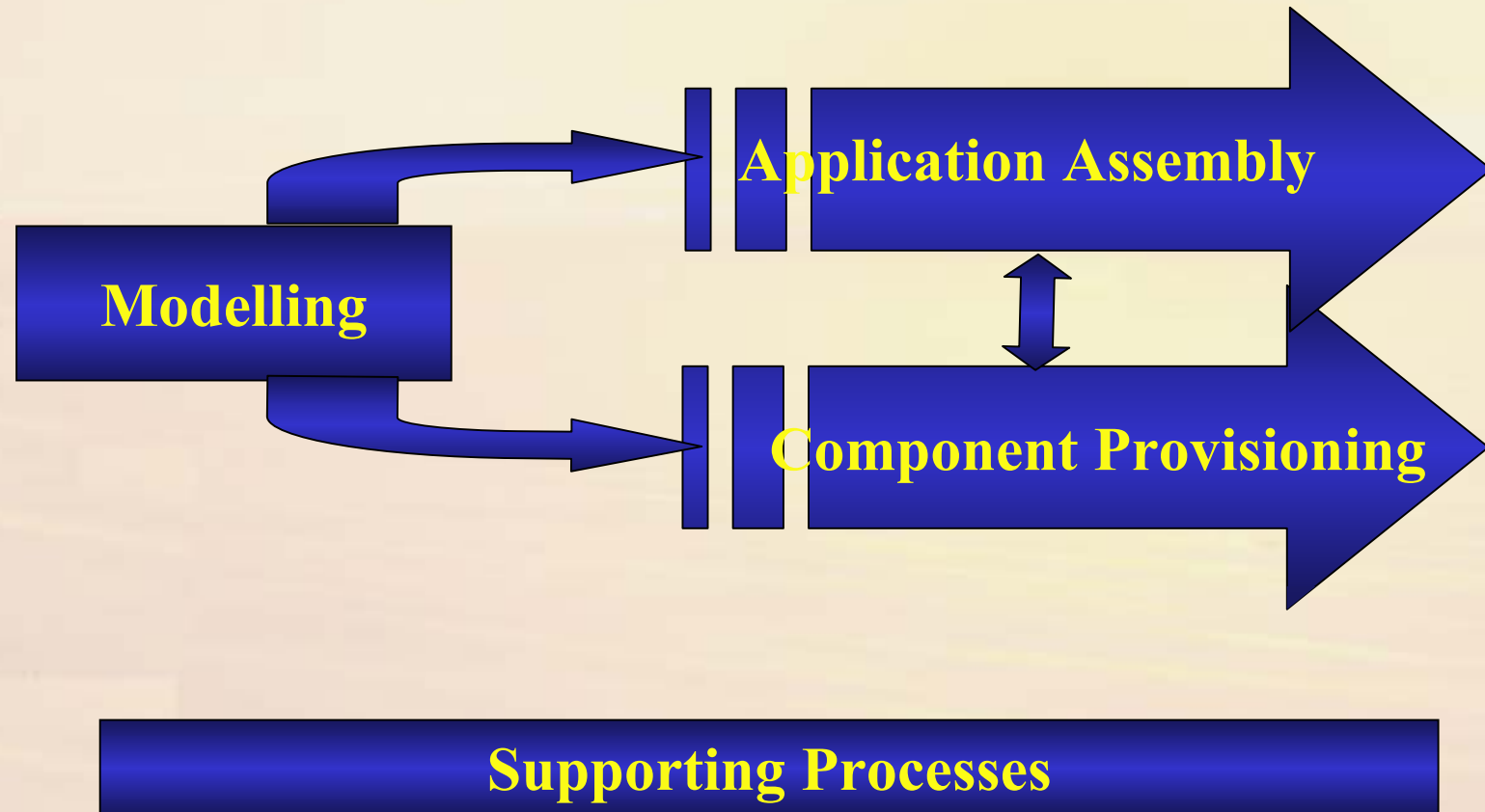
The Assessment Methodology

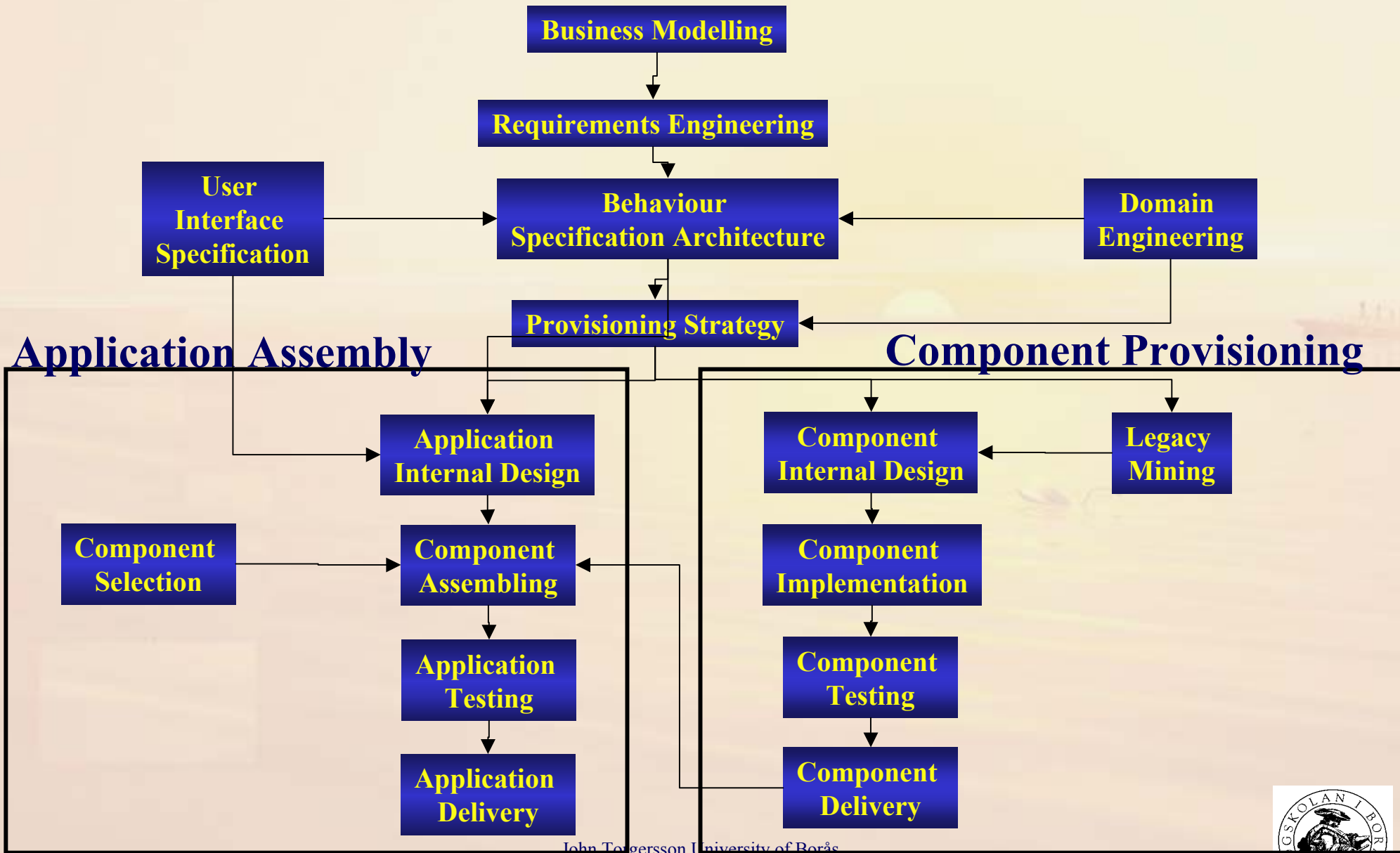


Process Reference Model



The Reference Model





Component Assembling

The purpose of the *Component Assembling* process is to decide the kind of system Integration Mechanism to use and to provide it, thus enabling a component client to invoke the specified behaviour. The process also aims to integrate components and Executable Subsystems into subsystems that can be invoked functionally and integrate the subsystems into an assembled system.



Component Assembling

As a result of a successful implementation of the process:

- a component specification will be received from the provider of the component;
- component behaviour will be verified against the component specification;
- type of integration mechanism and tools will be decided;
-
-



The Assessment Model

- Built on the CBD PRM
- Adds the information needed to assess the processes in the PRM
- Capability Rating Similar to ISO 15504



CBD PAM

Process Identifier & Name

- Purpose
- Outcomes
- Tasks
- In- and output work product



Component Assembling

Tasks

- Receive Completed Component Specification
- Verify Component Behaviour
- Decide Type of Integration Mechanism and Tools.
- Identify Asset Services
- ...
- ...



Assessment Tool (1)

OOSPICE Version 1.0

Process

1

Modelling

Business Modeling

Personal Note Process Attribute Tasks Work Products

Evaluate and visualise the assessment results.

Process Performance

Tasks:

Envision proposed business concept. Sketch out proposed business concepts and organisation flow diagrams for the overall business modelling strategy and use these to scope a business improvement plan. Set out the overall business goals and problems.

Illustrate the organisational Flow. Build an Organisational Flow Illustration for the chosen scope. On subsequent iterations build process flow illustrations. Refine business goals and problems.

Refine the envisioned business concepts. Refine the envisioned business concept and organisational flow illustration for the chosen scope. On subsequent iterations build process flow illustration. Refine business goals and problems.

Scope areas for improvement. Scope a business area for improvements, identify business solution needs for software projects and scope criteria for architecture planning to find migration paths.

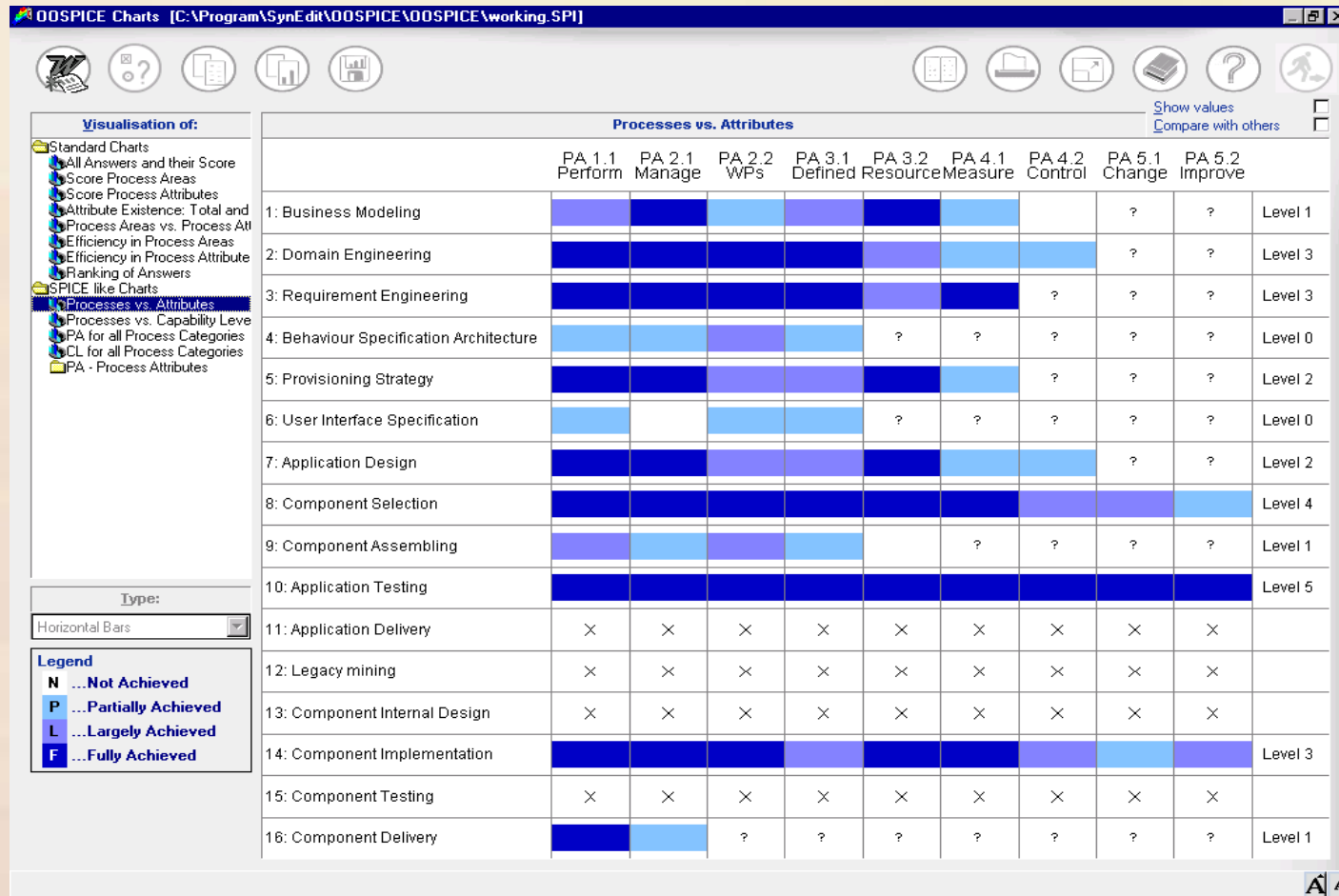
Identify and map key business concepts and types. Identify and scope candidate business types. Look for roles and apply model patterns. Consider changing the type model to increase reuse. Gradually add and define attributes, relationships and invariants as they are discovered.

Evidence:

Evaluate and visualise the assessment results.



Assessment Tool (2)



User Trials

- Objective
 - Validate the assessment methodology
- Expected result
 - Can the trial organisations relate to the content of methodology?
 - Is the methodology generic
 - If not what needs to be changed?



Type of organisations

- CBD approach
 - Component suppliers
 - Application developers
- Market
 - Embedded Systems
 - Administrative Systems



Exploitation

- Commercial Exploitation
- Academic Exploitation
- Out in the market, June 2003



Conclusions

- Increased need for software- development and process assessment models and methods that supports CBD
- CBD specific processes are needed
- Key to success of OOSPICE is to combine competencies from CBD and SPAI and feedback from user trials



Thank you for listening

For further information visit: www.oospice.com

