

Super Summary



European Integrated Project

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Joint Super/Tripcom Session, Bulgaria, 27th June, 2006

- **Alistair Barros, Roxana Belecheanu, Christian Brelage, Martin Hepp, Katja Herrmann, Barry Norton, Sebastian Stein**
- **Super Architecture Task Force**
- **WSMO Working Group**

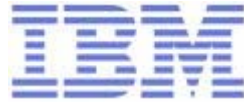


Administrative Details

- **Start Date – 1st April 2006**
- **End Date – 31st March 2009**
- **Overall Budget – 16.4M Eurs**
- **Overall Funding - 11M Euros**



Super Partners



The Open University

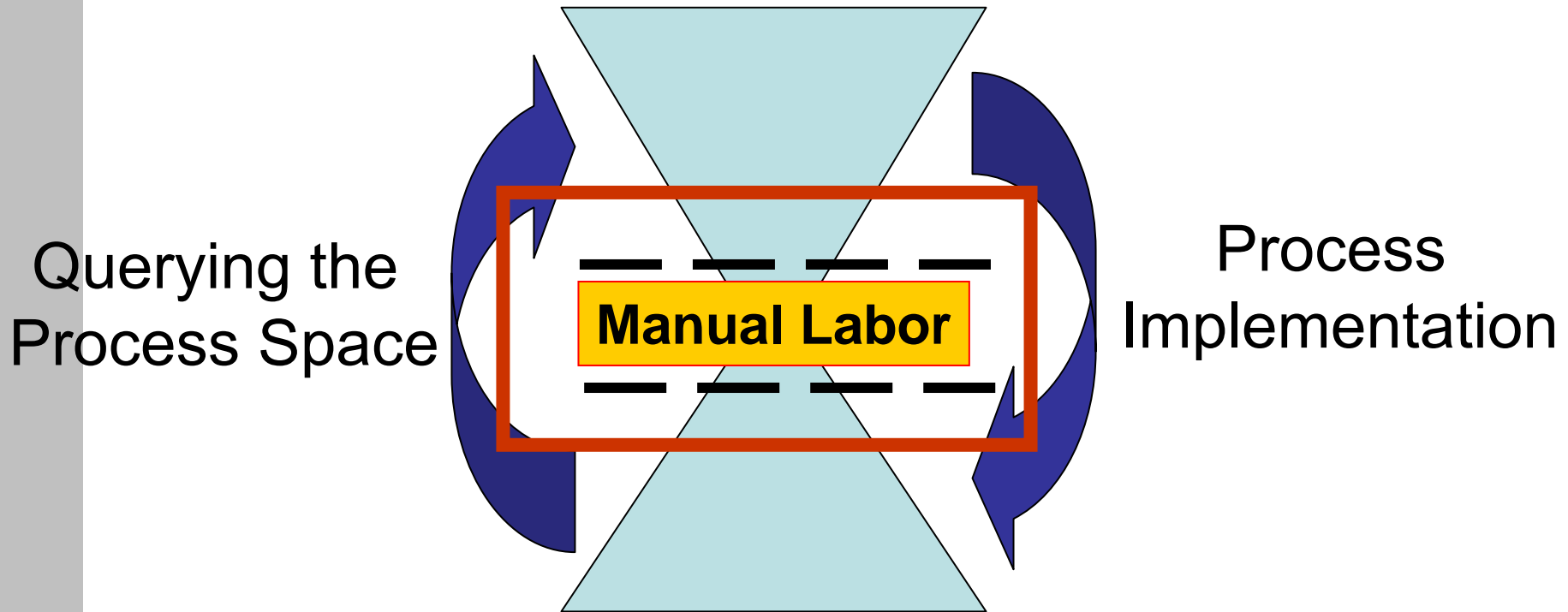


Universität Stuttgart
Germany

Technical University of Eindhoven



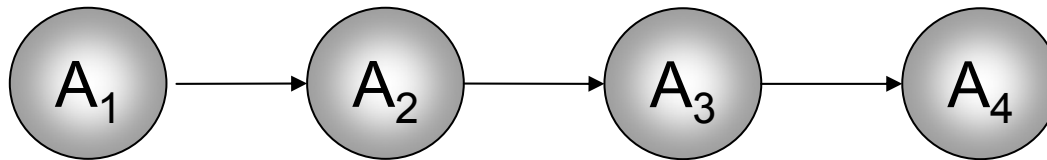
Business Experts' Perspective: Processes



IT Implementation Perspective



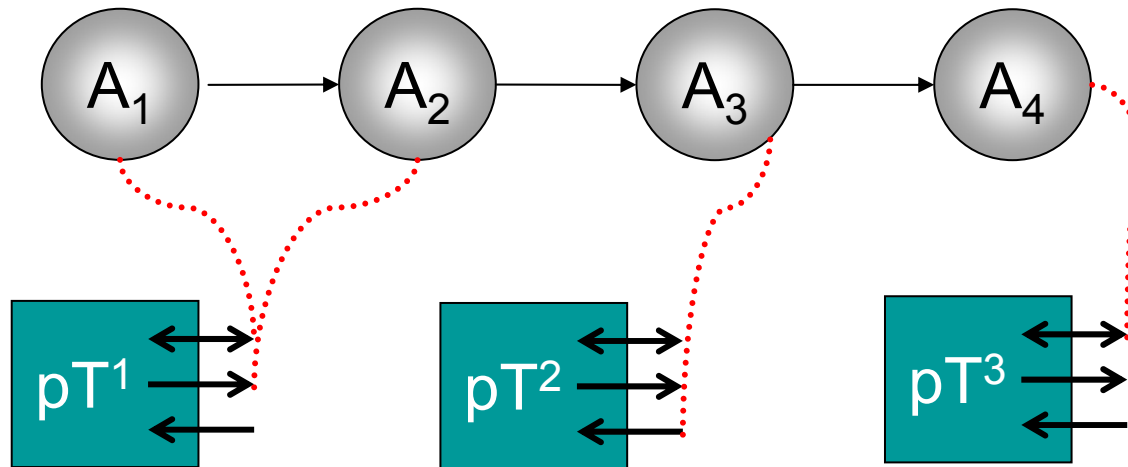
Here is my business process!
I think this solves my business
problem nicely...



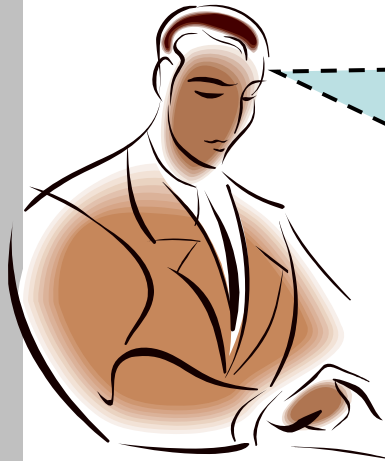
Nice try, but it won't run...
You need to specify the services that
perform each step!



I don't understand about these technical details! This is my view on the process...

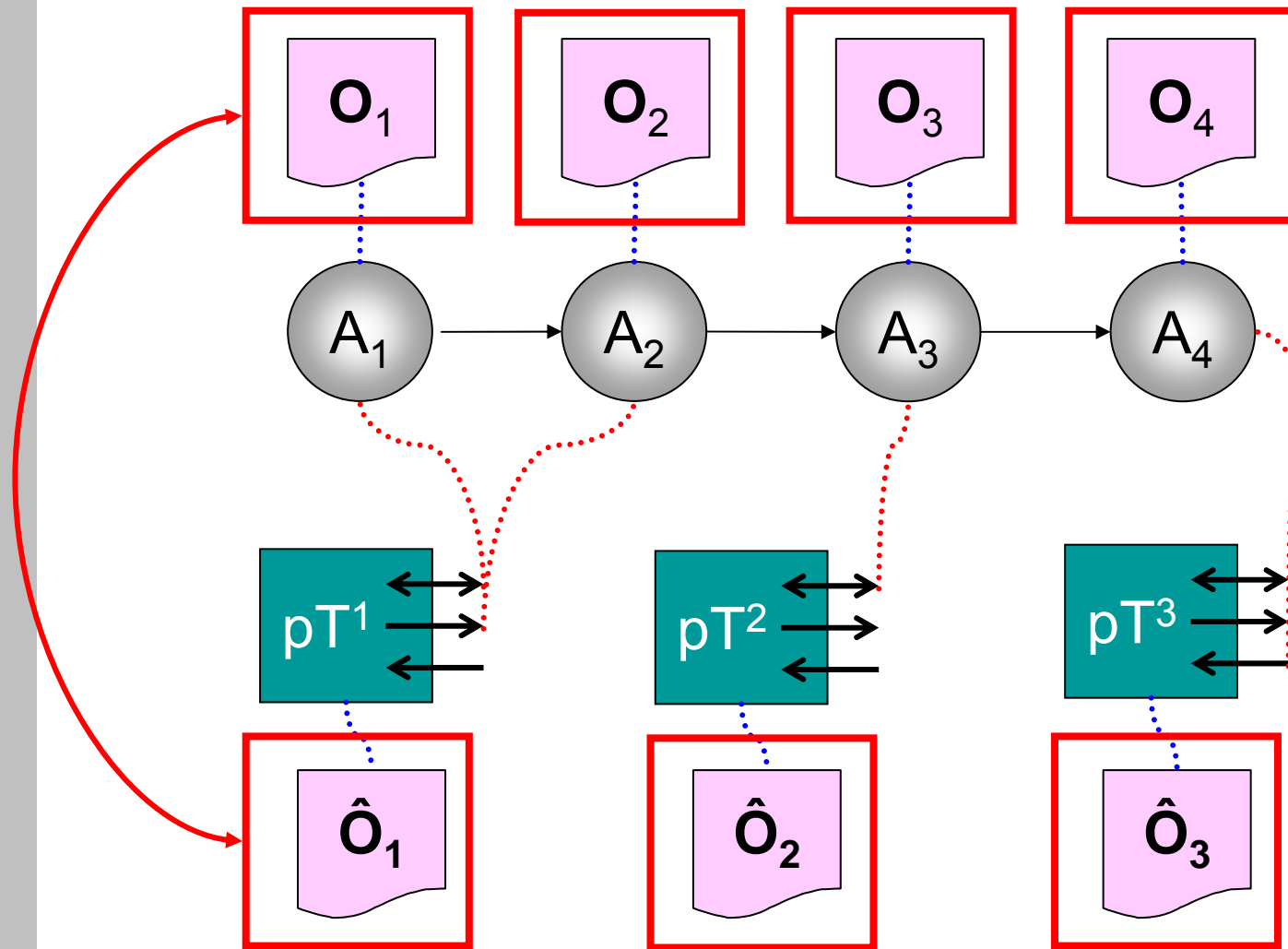


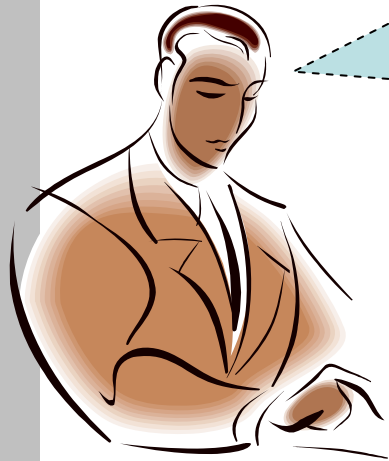
o.k. no problem, I will help you...



This is cumbersome!
Why do I always need IT staff to solve my
business problems?
It takes too long to get these folks, they
use different terminology than I do...

I am happy to describe what the activities
do in my terms. Can the system be smart
enough and find the right services itself???

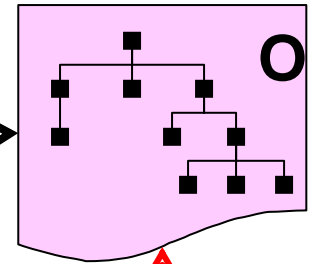
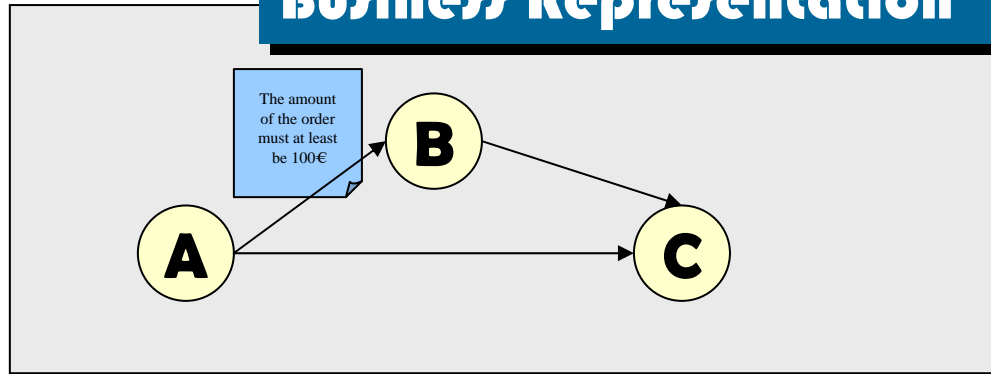




Why do I have to draw everything?
Why do I have to use “expressions” and that
stuff at all?
Why isn't my description sufficient?

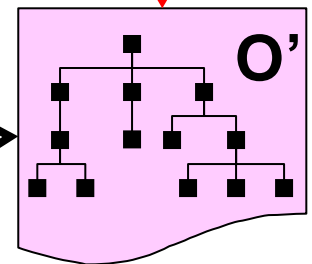
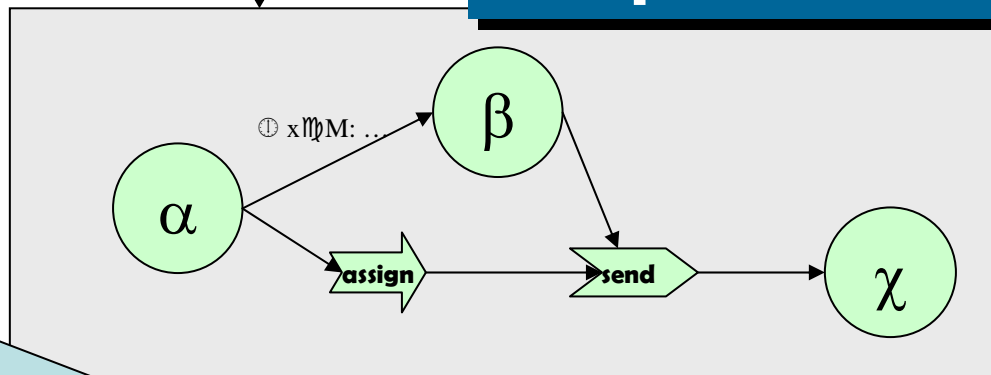
Here is my business process!

Business Representation



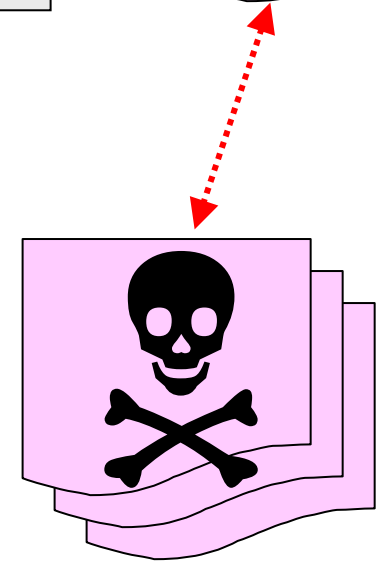
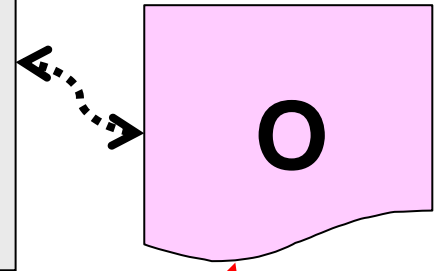
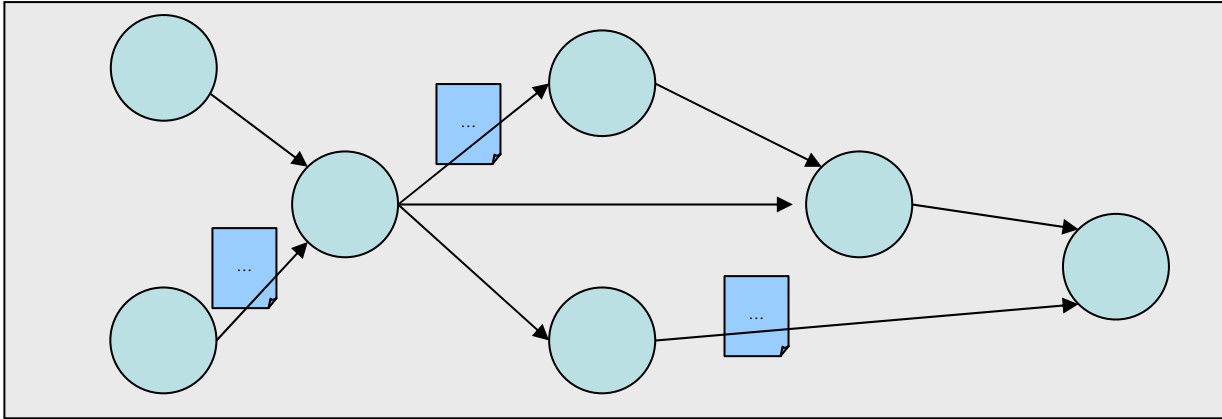
M

IT Representation



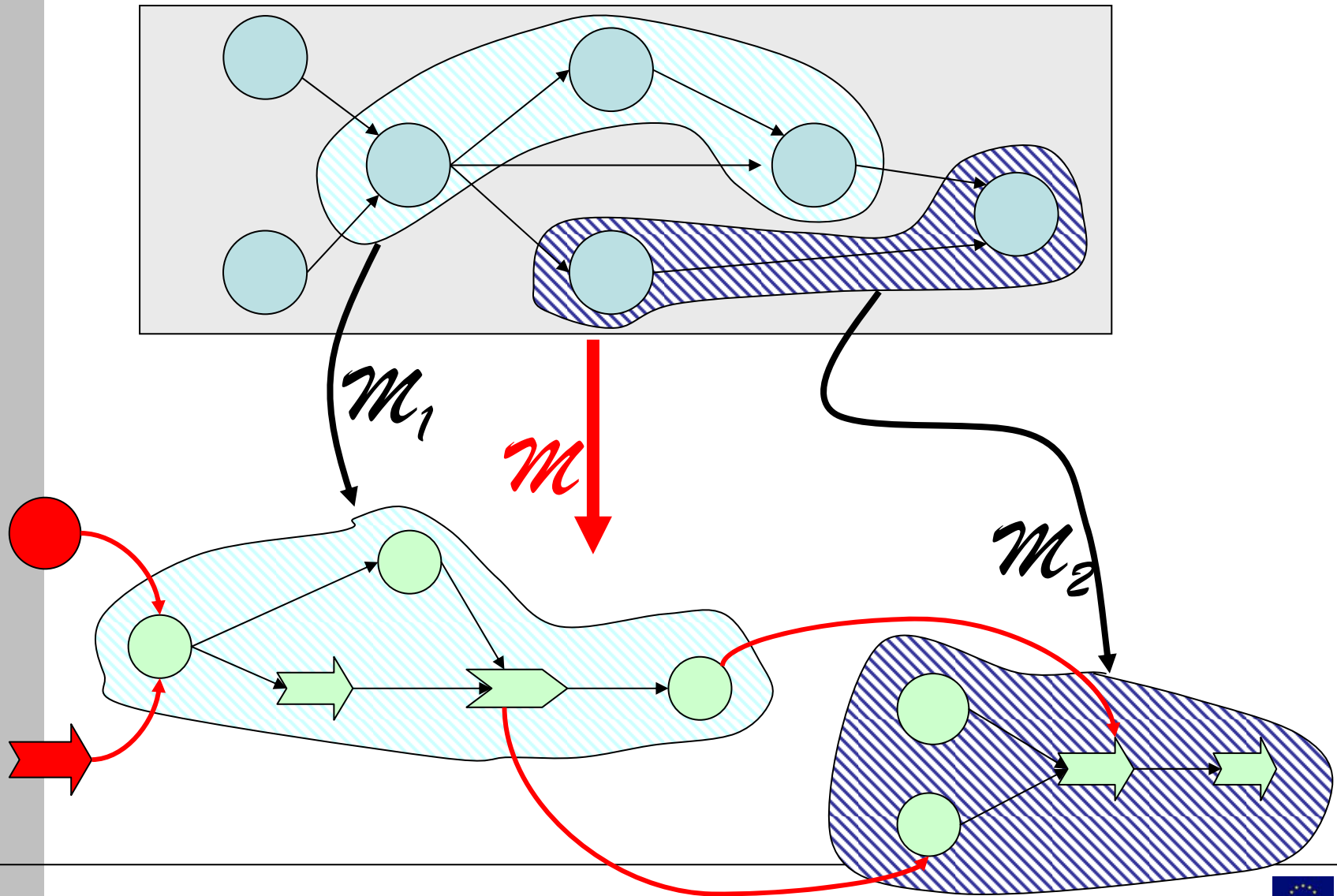
Wow! This is perfect – nothing left to do for me!

This May Not Always Work Out ☹️



Can we match fragments of a process model?

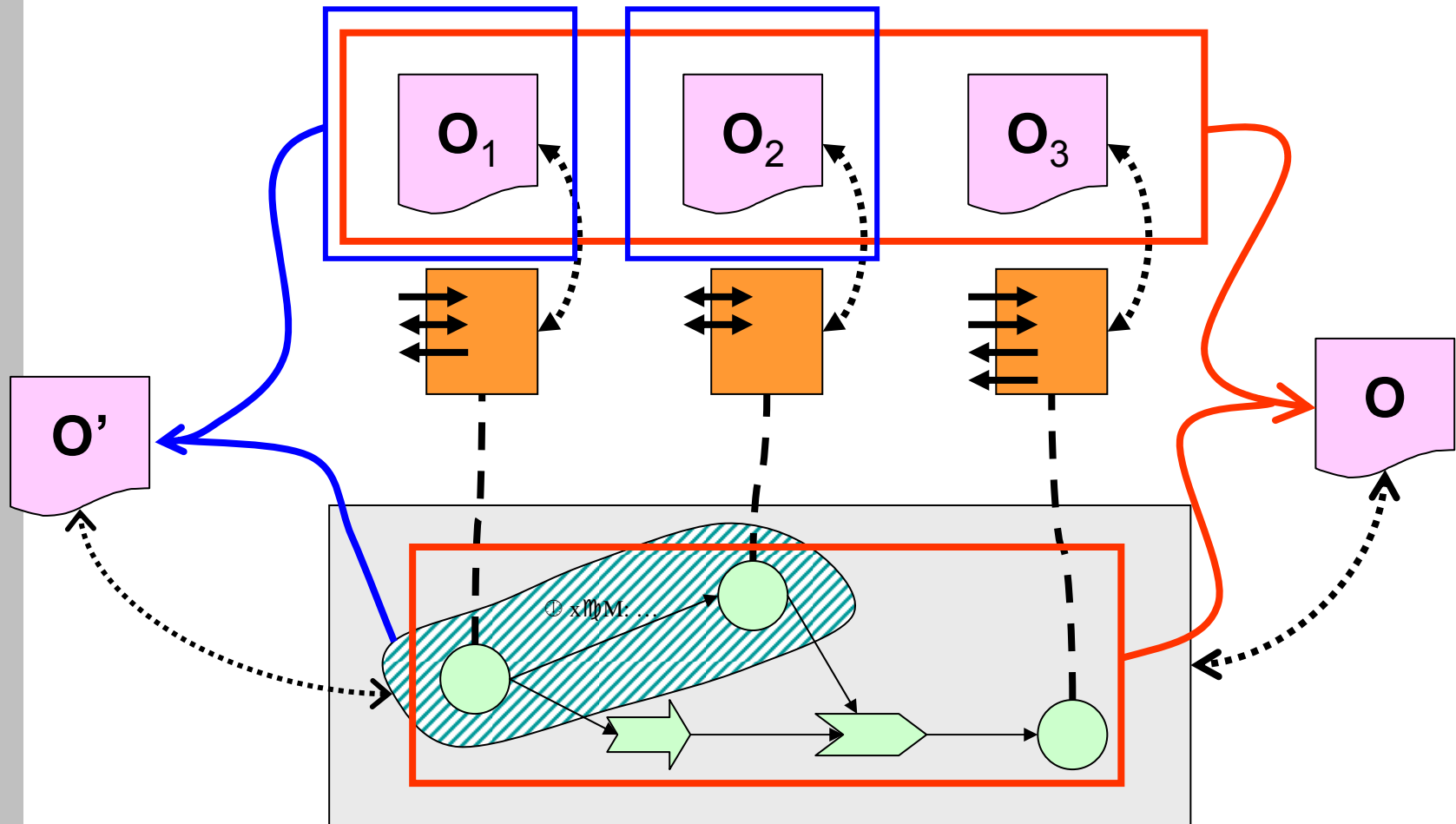
Using Fragments





This semantic stuff is really helpful!
I agree that it's worthwhile to annotate IT
artifacts...

But do I have to annotate each fragment?



3 Super Layers

- **Semantic Web Services**
- **Workflow BPEL Engine**
- **Business Process Modelling Layer**

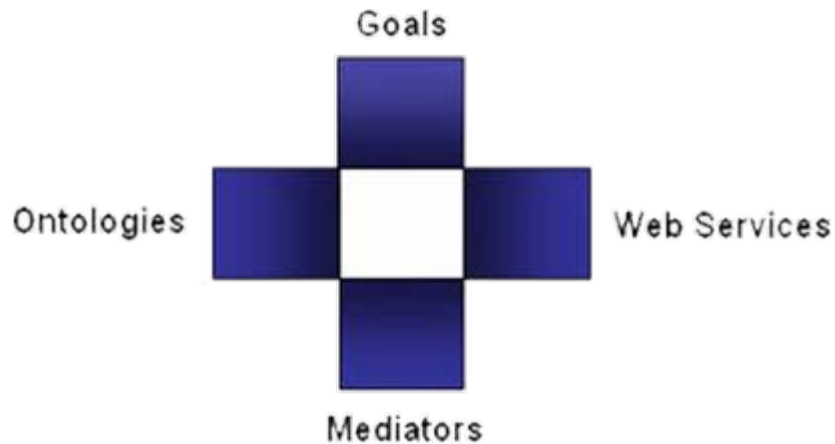
SWS Layer



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Objectives that a client wants to achieve by using Web Services

Provide the formally specified terminology of the information used by all other components



Semantic description of Web Services:

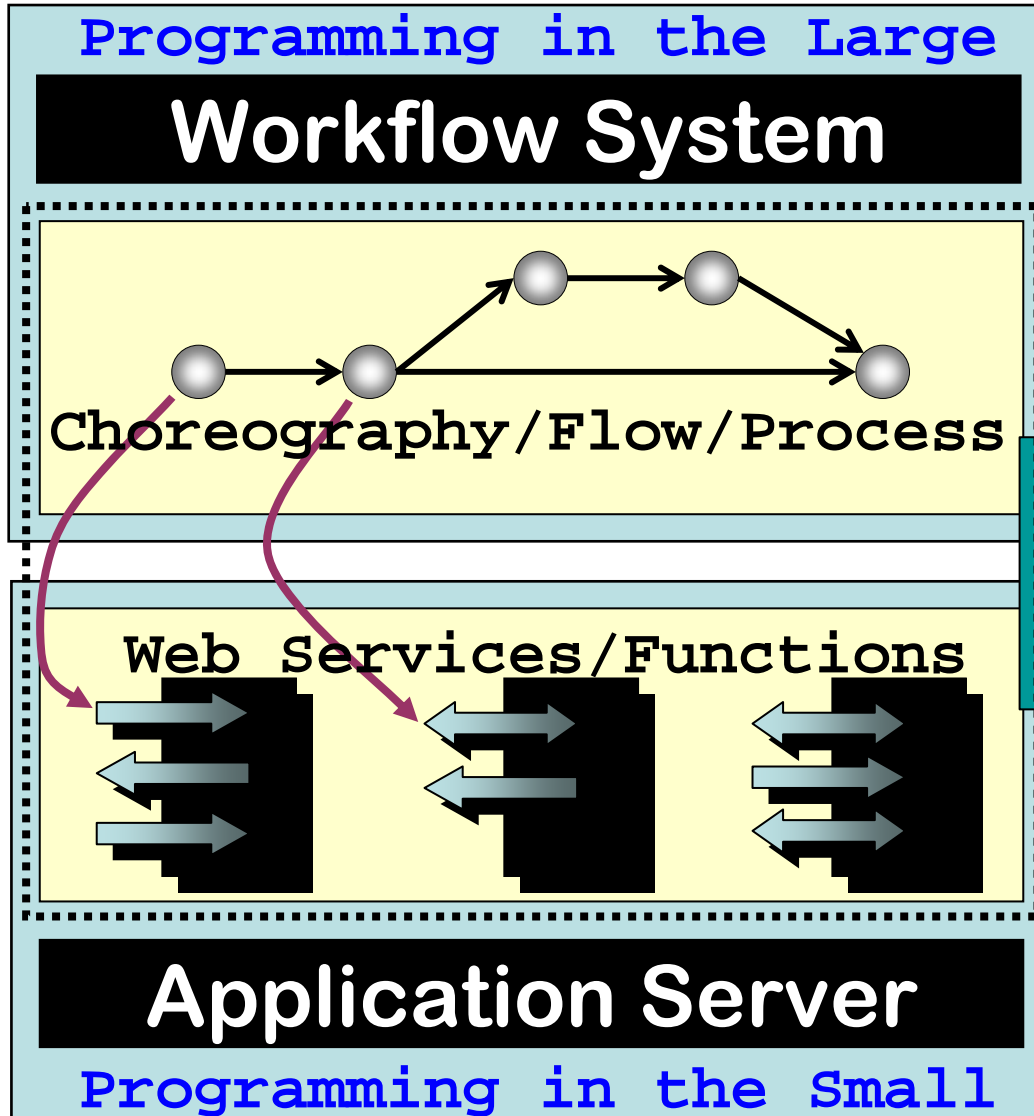
- Capability (*functional*)
- Interfaces (*usage*)

Connectors between components with mediation facilities for handling heterogeneities

Workflow/BPEL Layer

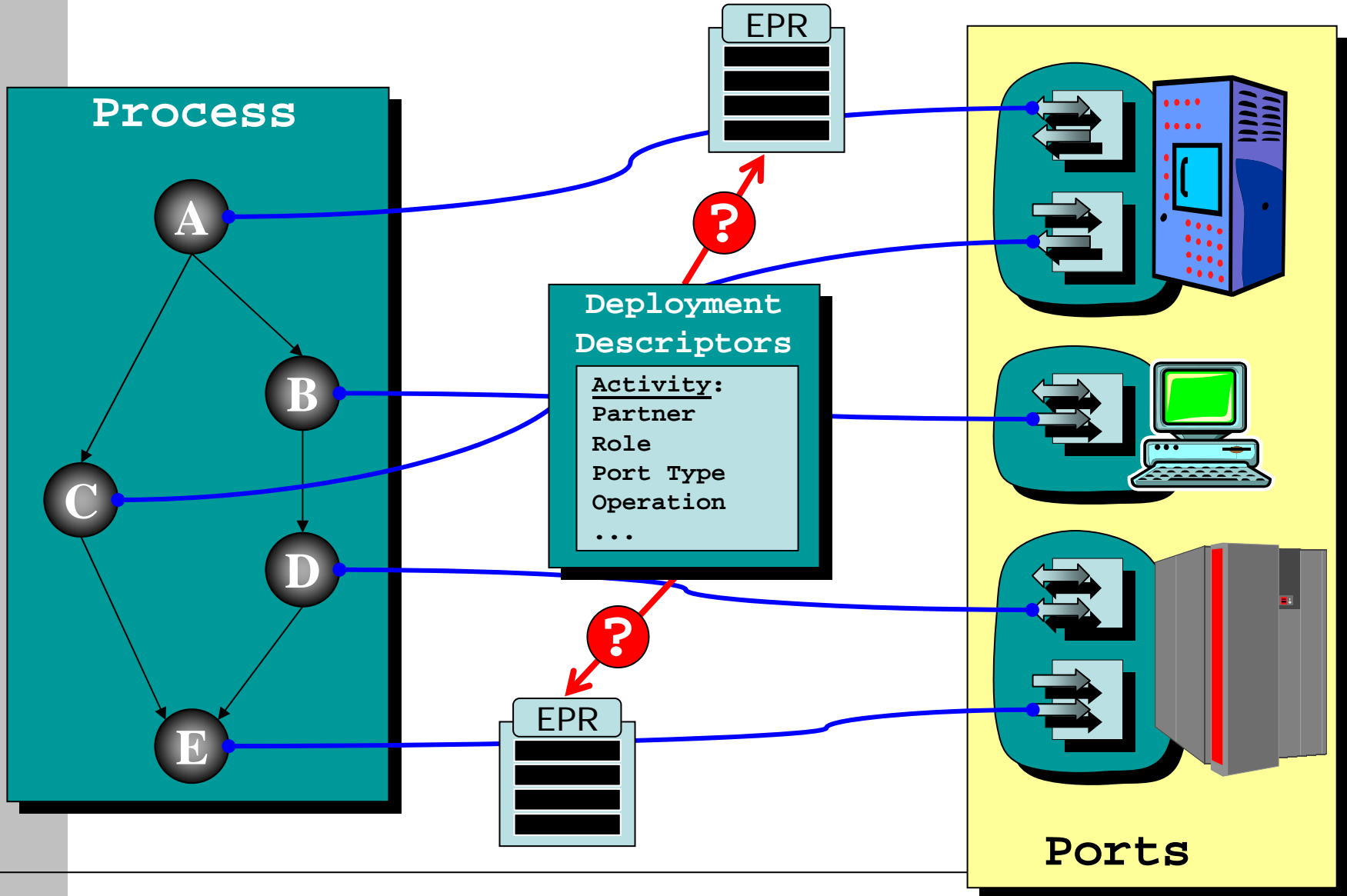


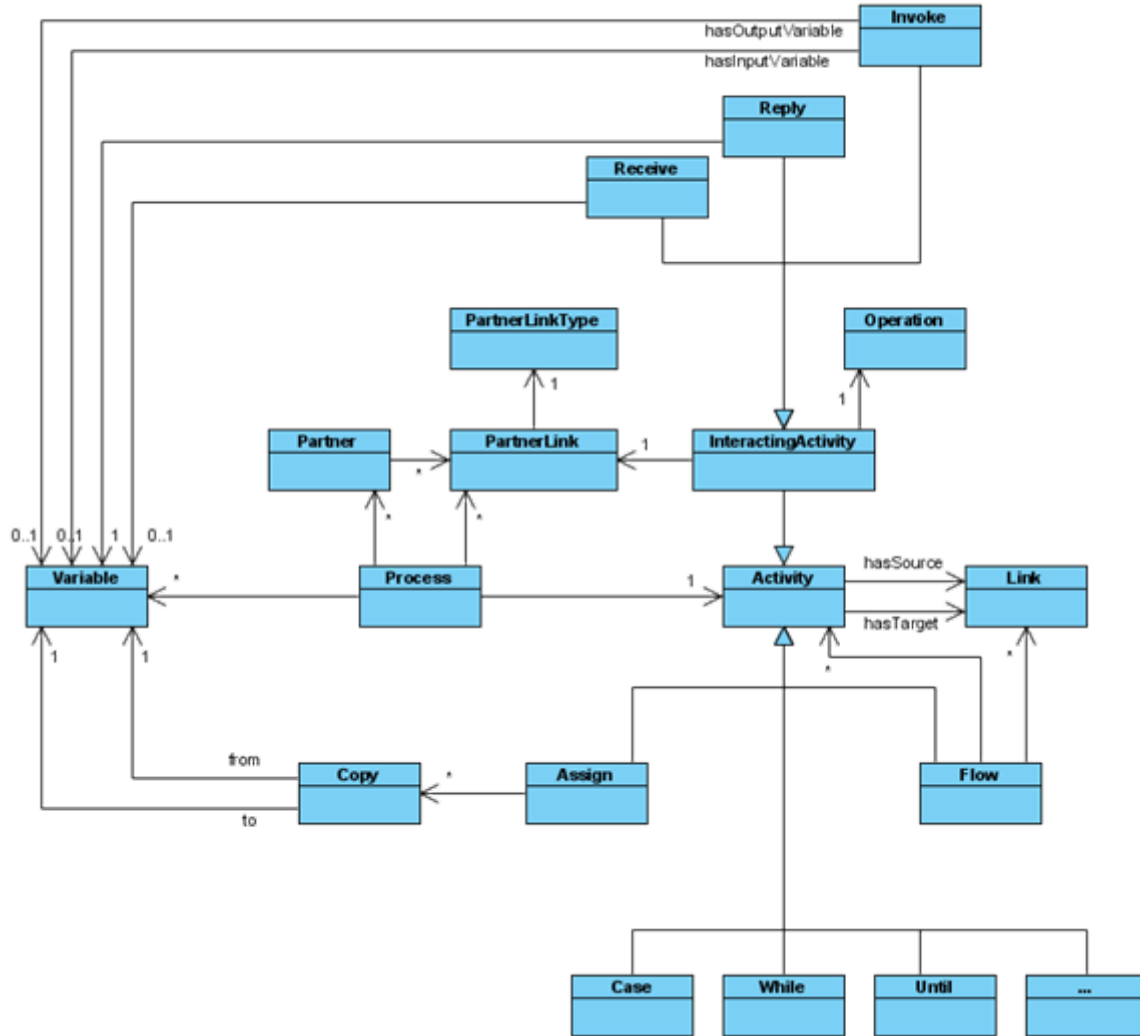
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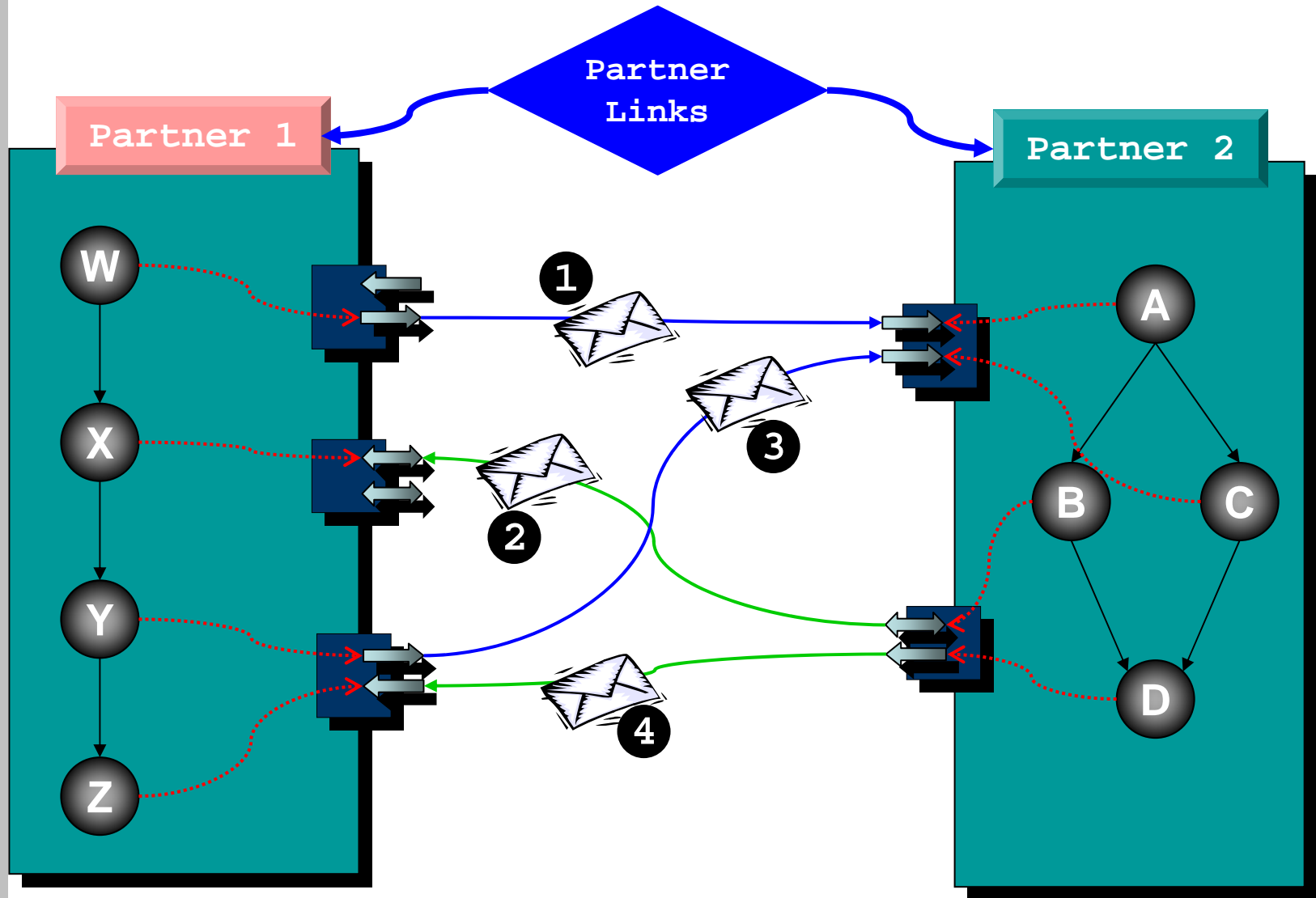


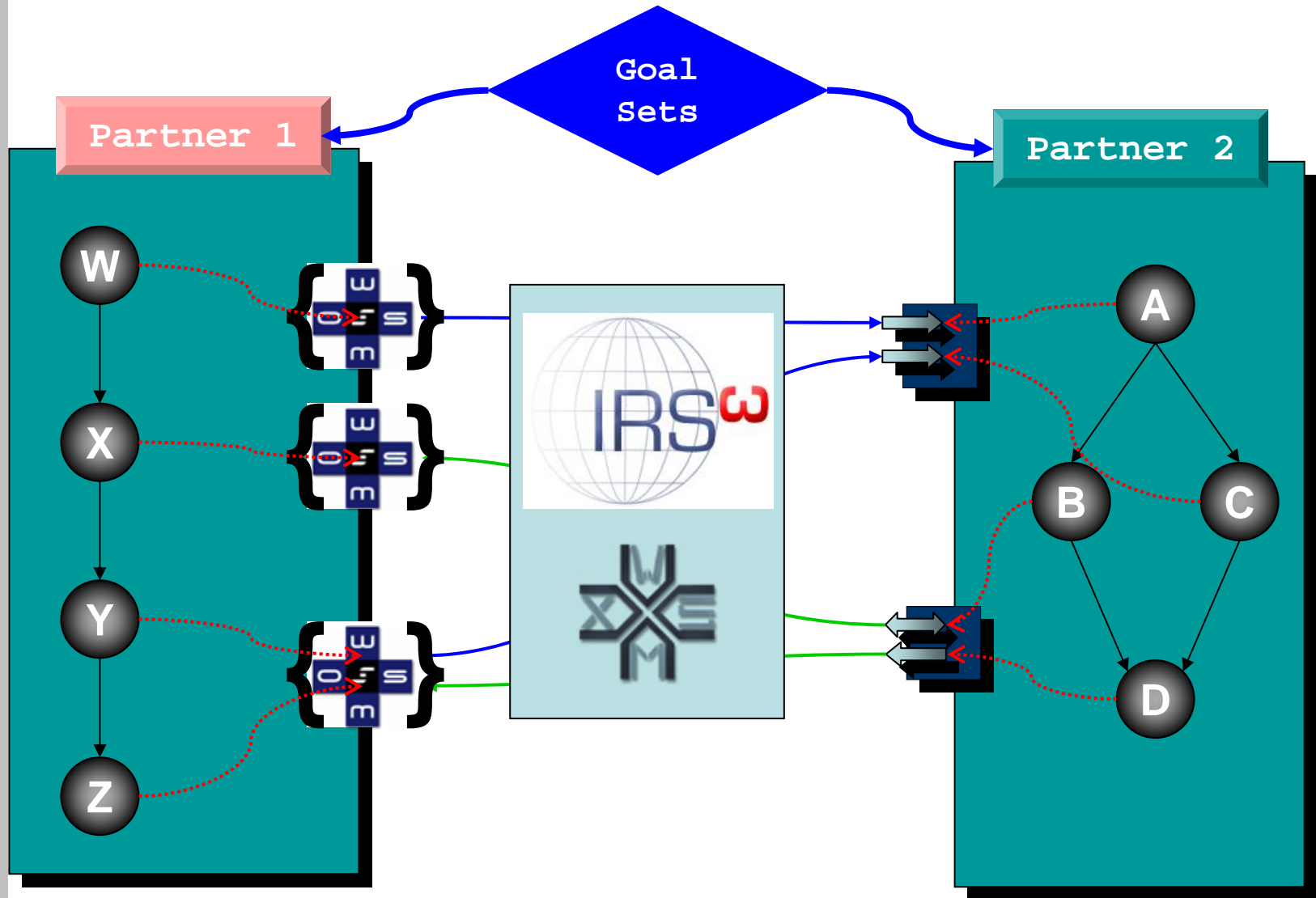
Application

Deploying Applications









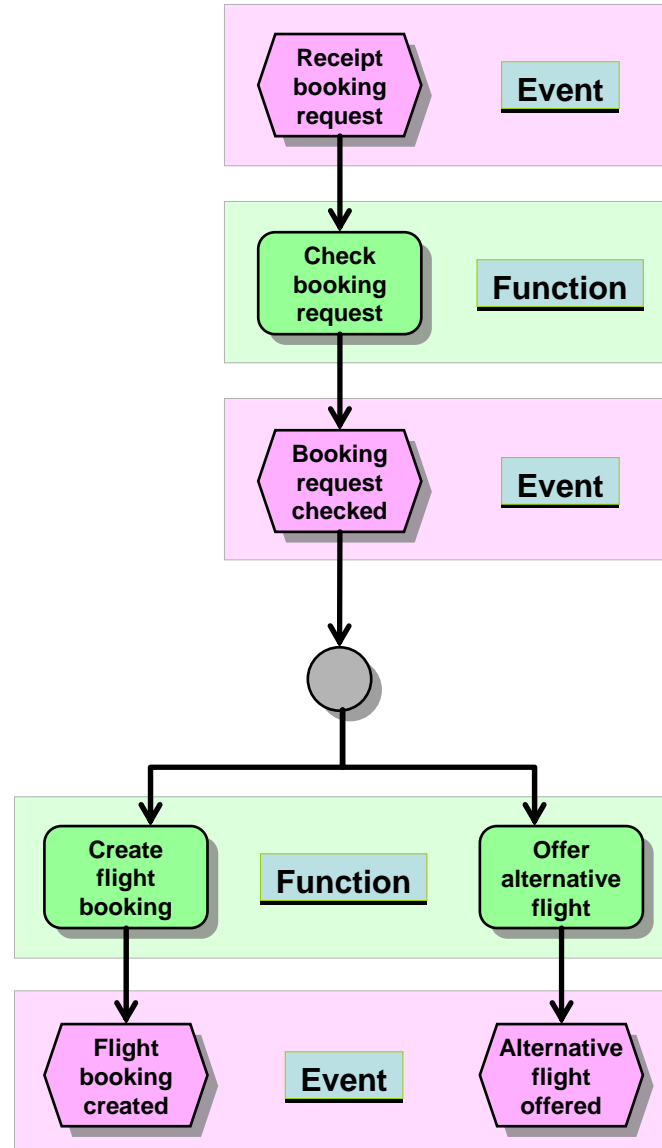
Business Process Modelling Layer



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Events trigger functions

Functions generate events



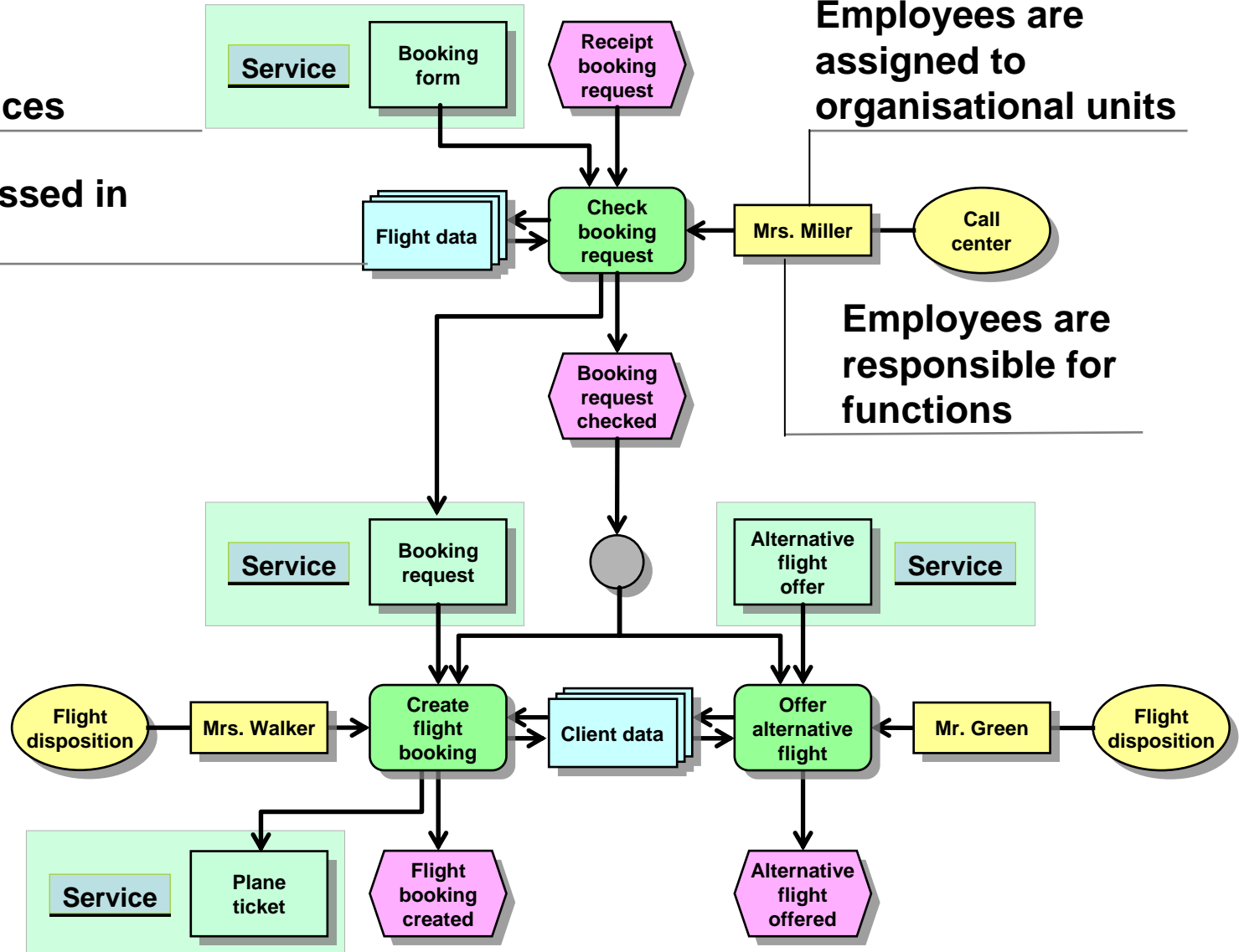
Business Process Components

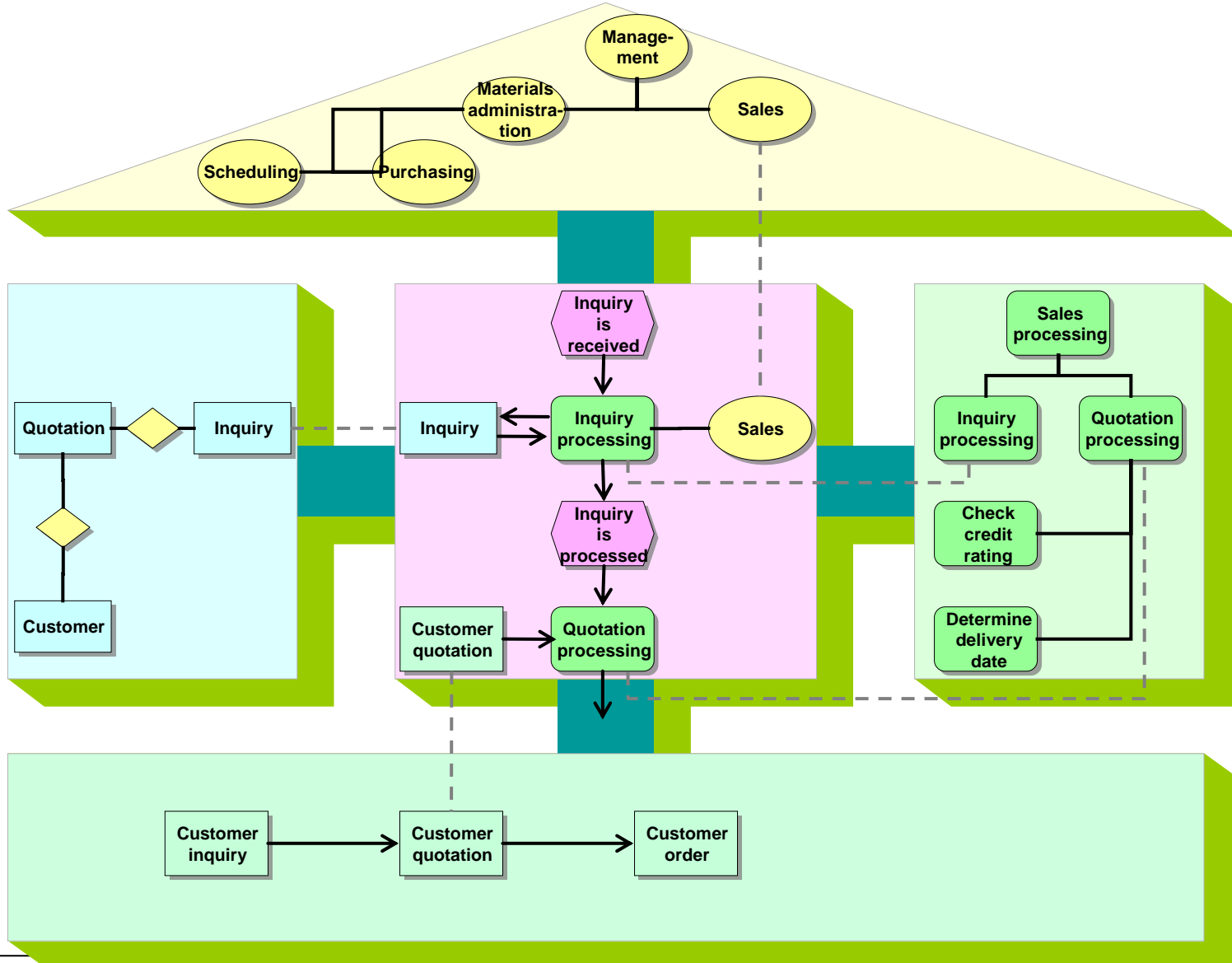
Functions generate and process services

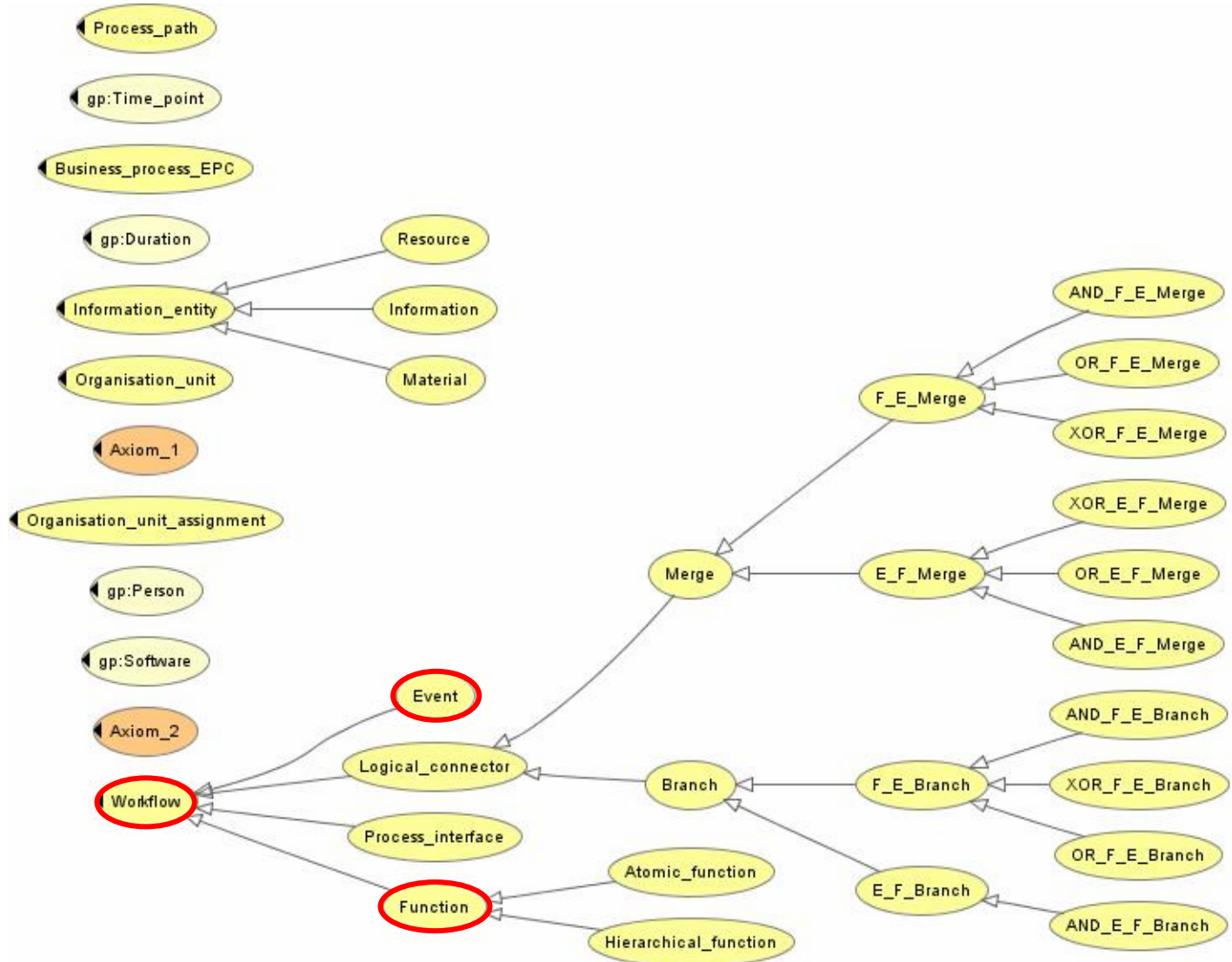
Data is processed in functions

Employees are assigned to organisational units

Employees are responsible for functions



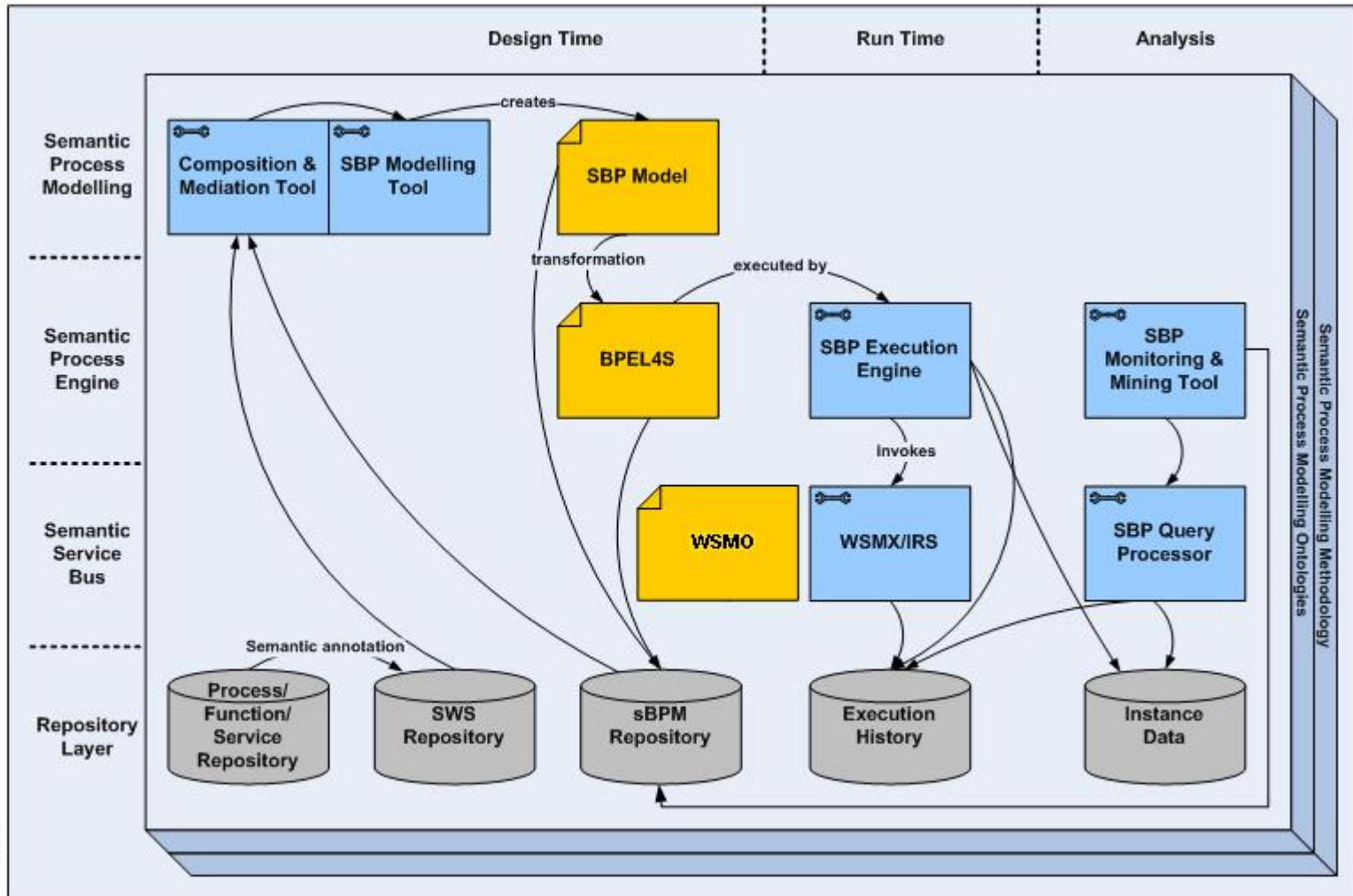




BPM View: Top-Down, Provides „Big Picture“ and Business Context

Business Process Management
Semantic Web Services

SWS View: Bottom-Up, Provides „Semantic View“ & Implementation Technology



**Thanks &
Discussion**



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