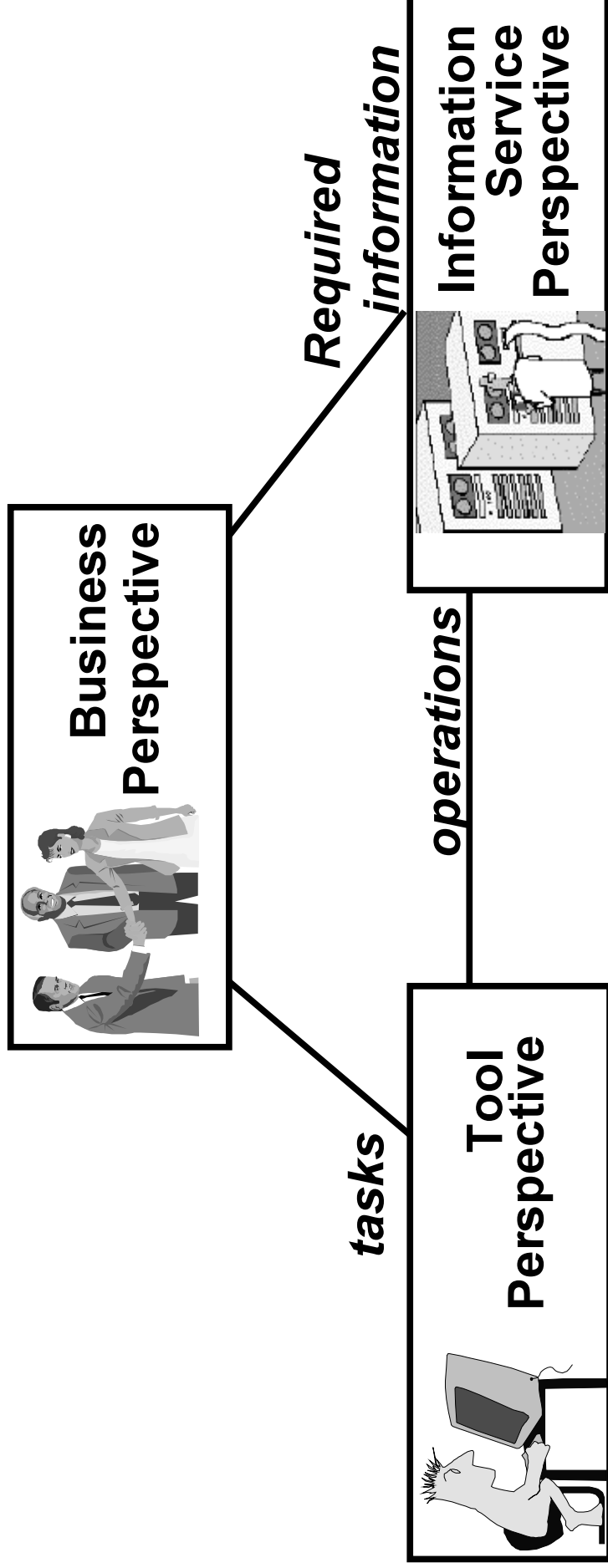




# Working with Objects

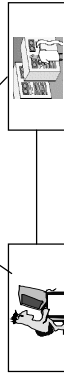
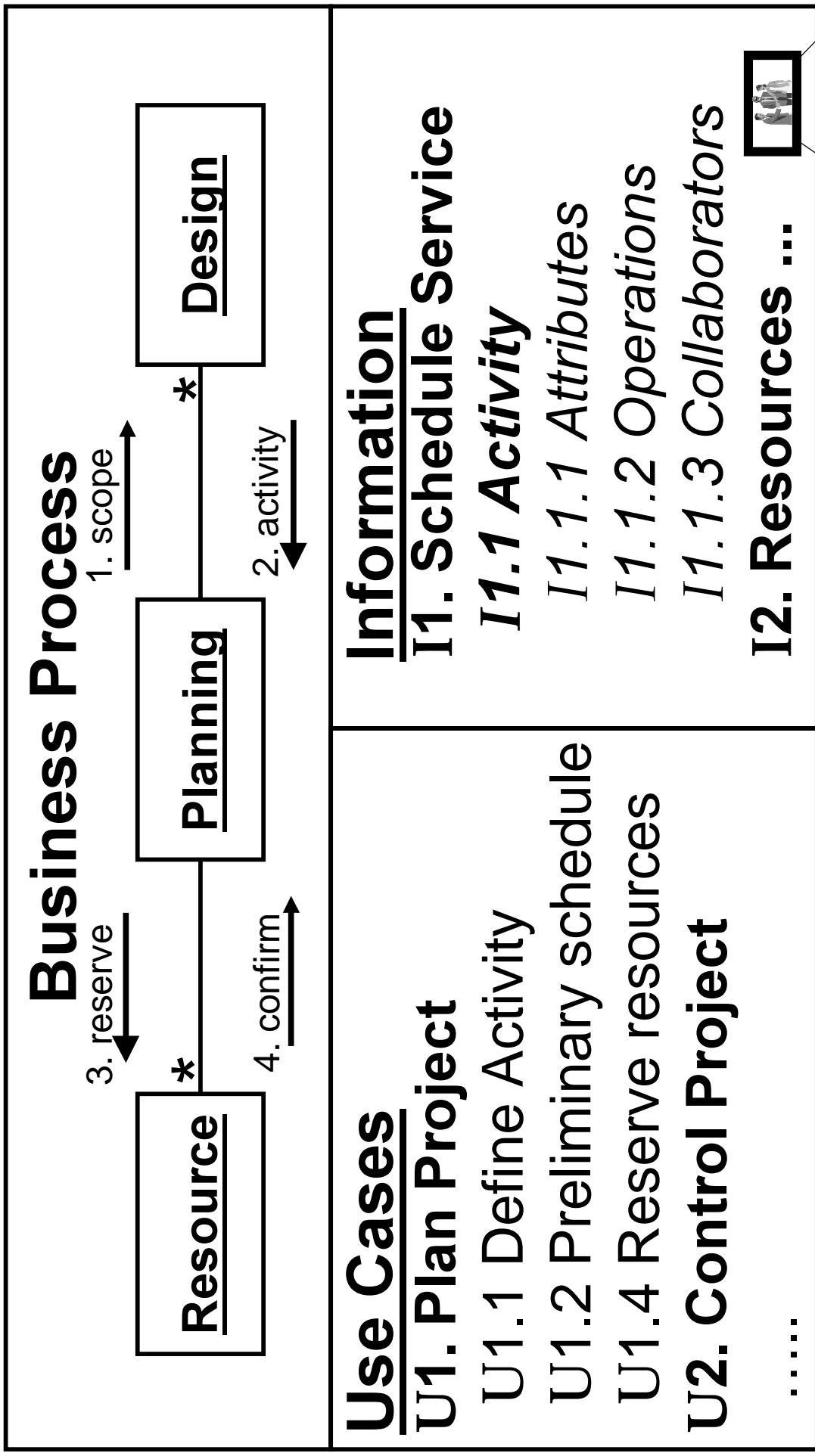
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## Analysis and Design of Corporate Information Systems Professor Trygve Reenskaug *Numerica Taskon*





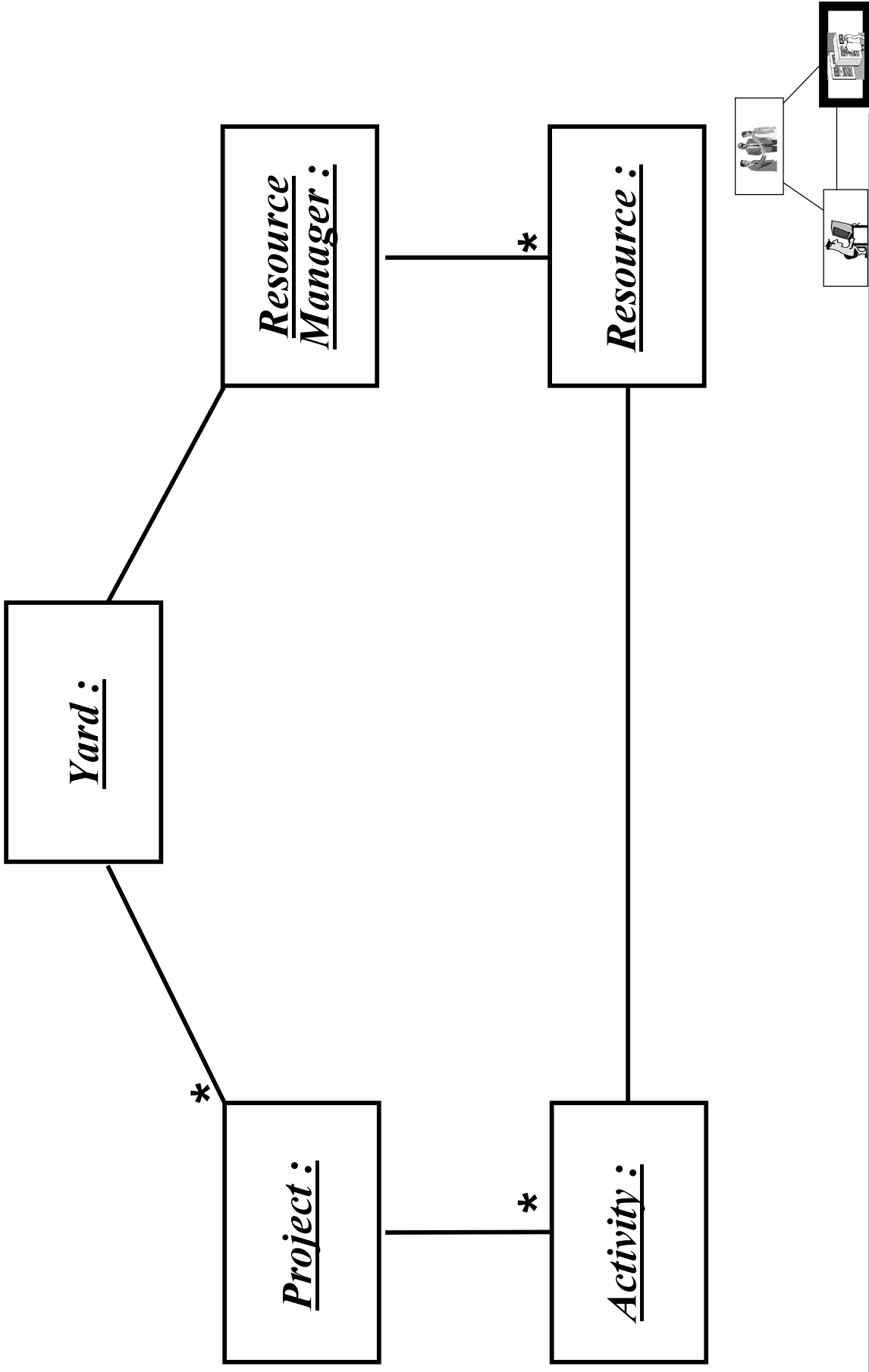
# Business Perspective





# Top Level Collaboration (UML notation)

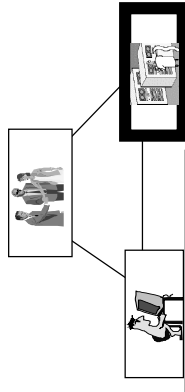
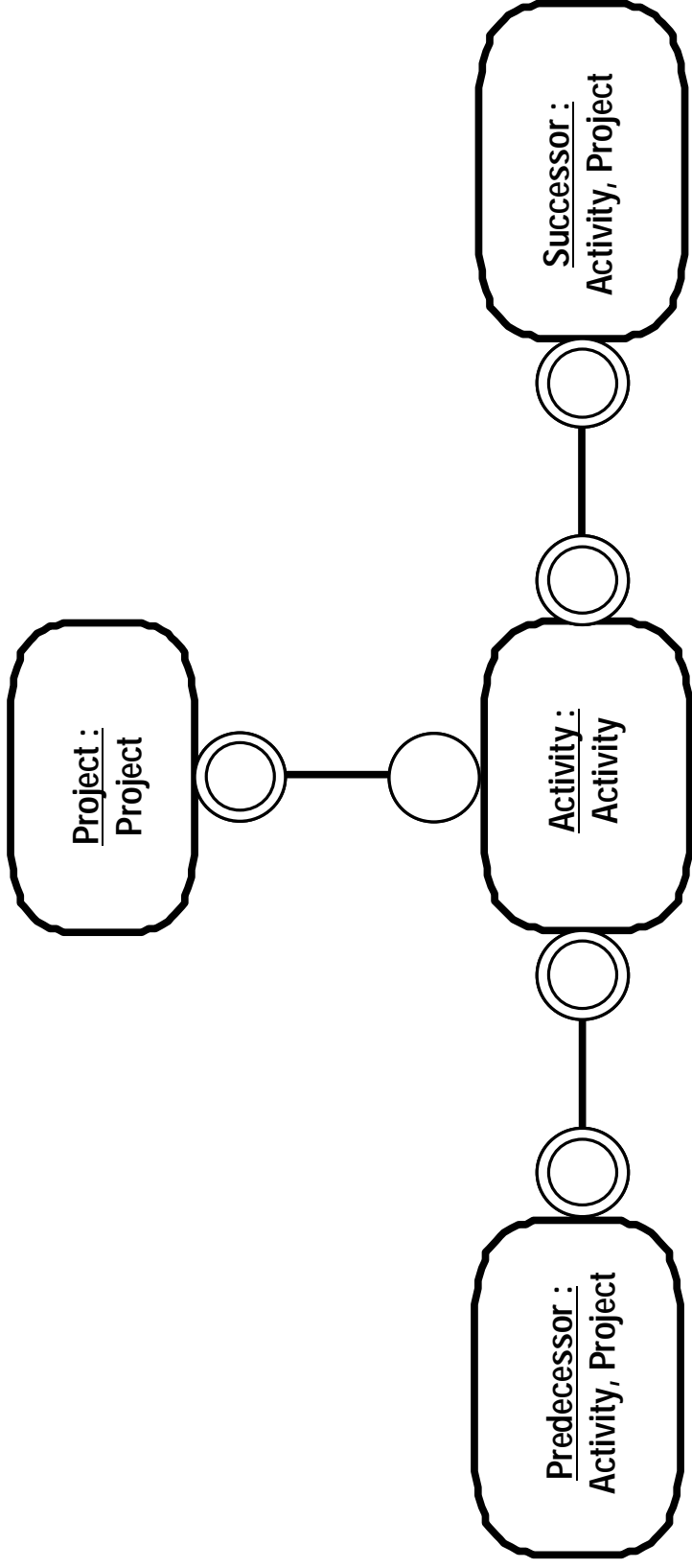
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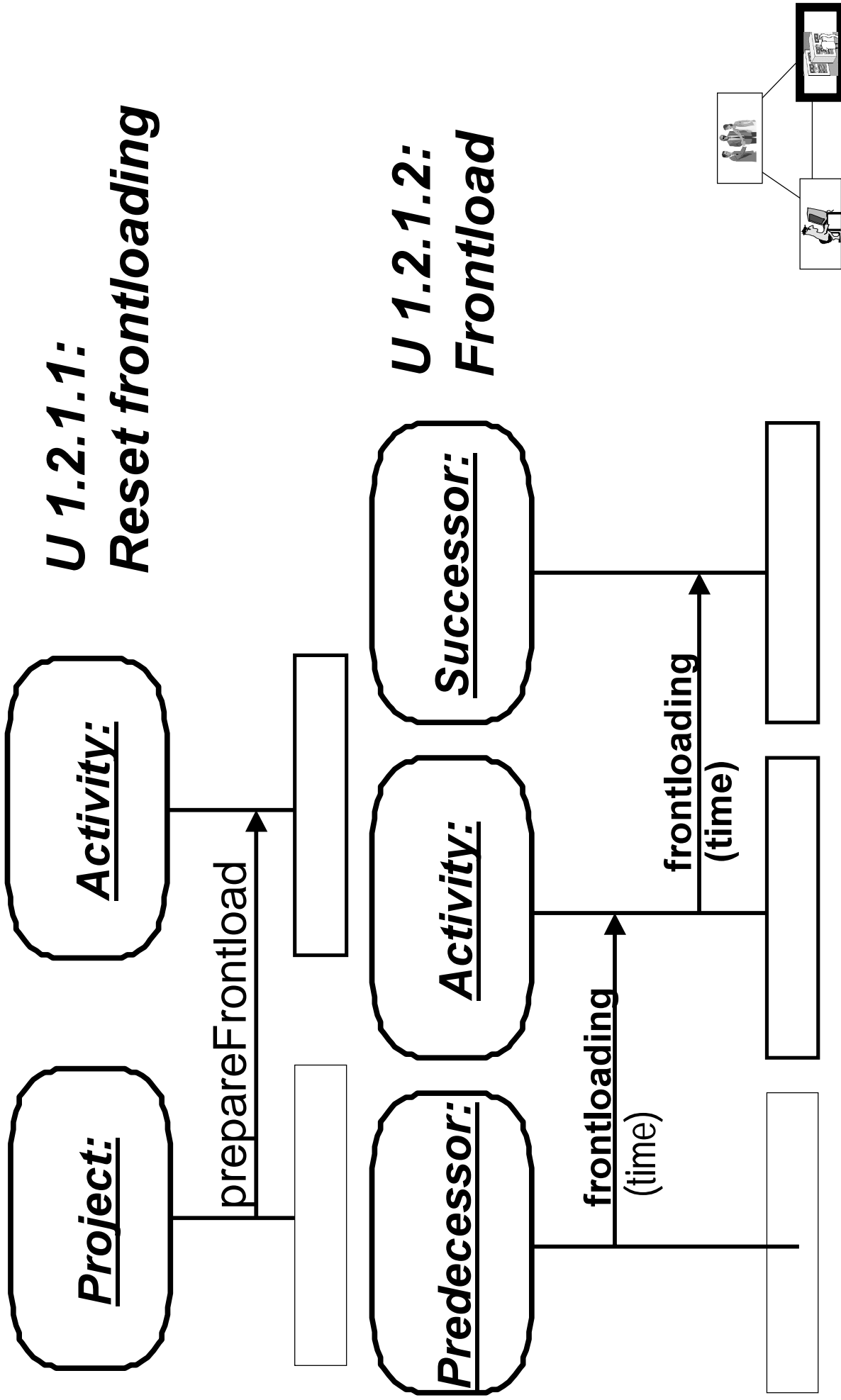
# Collaboration detail (OOram notation)

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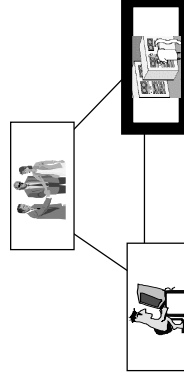
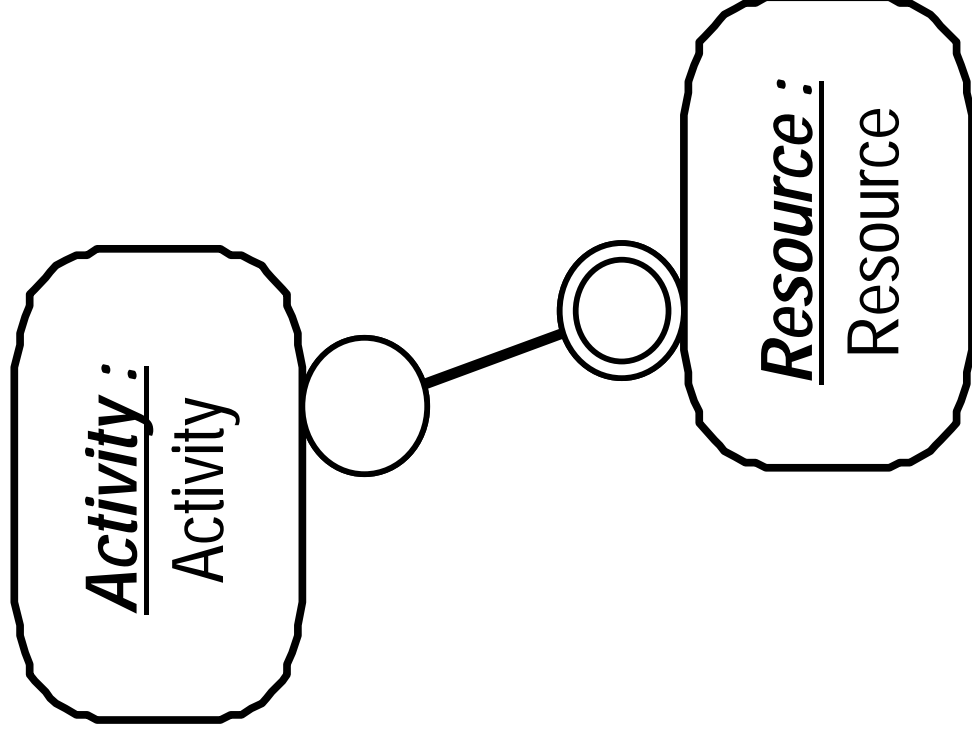
# U1.2 Scenarios (OOram notation)





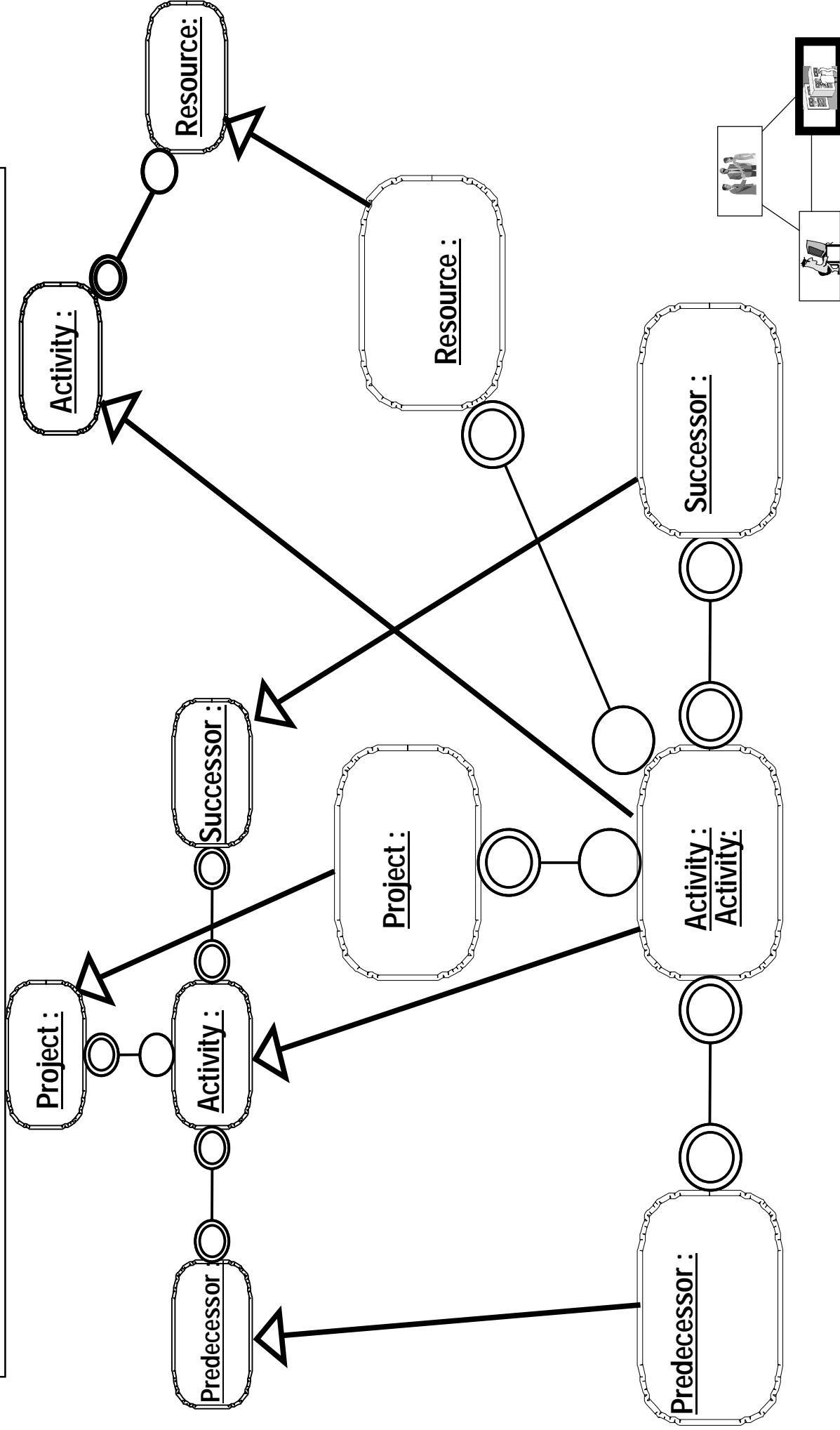
# Reserve Resources (OOram notation)

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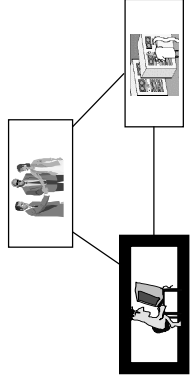
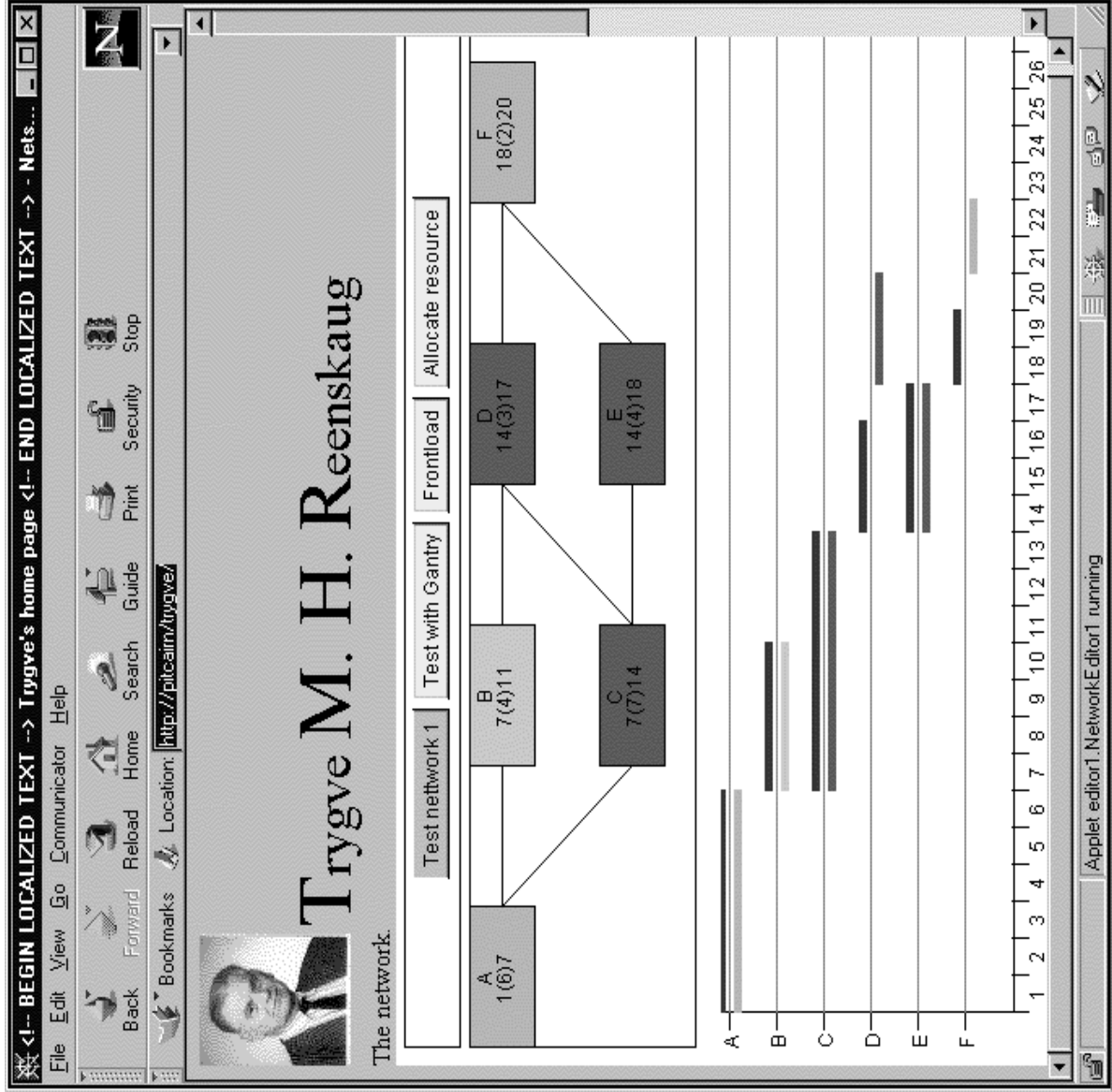


# Ooram Role Model Synthesis





# Example: Simple scheduling

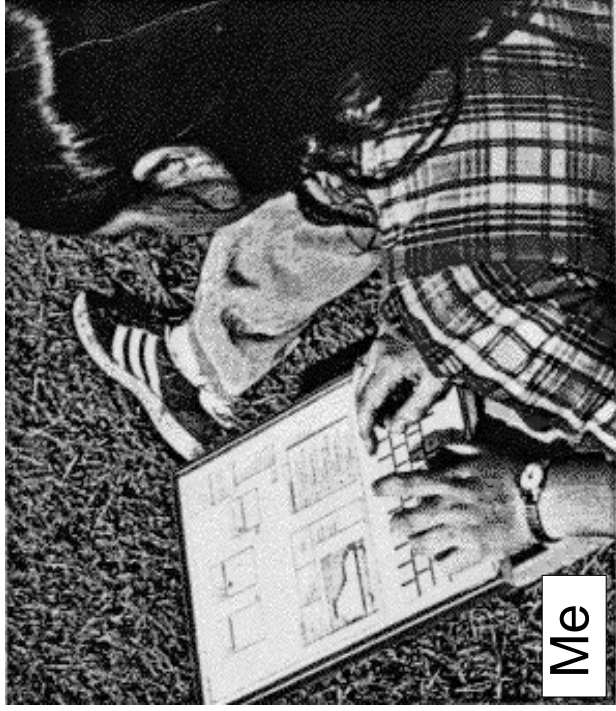






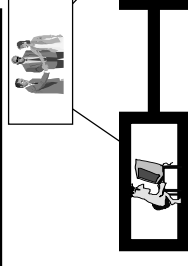
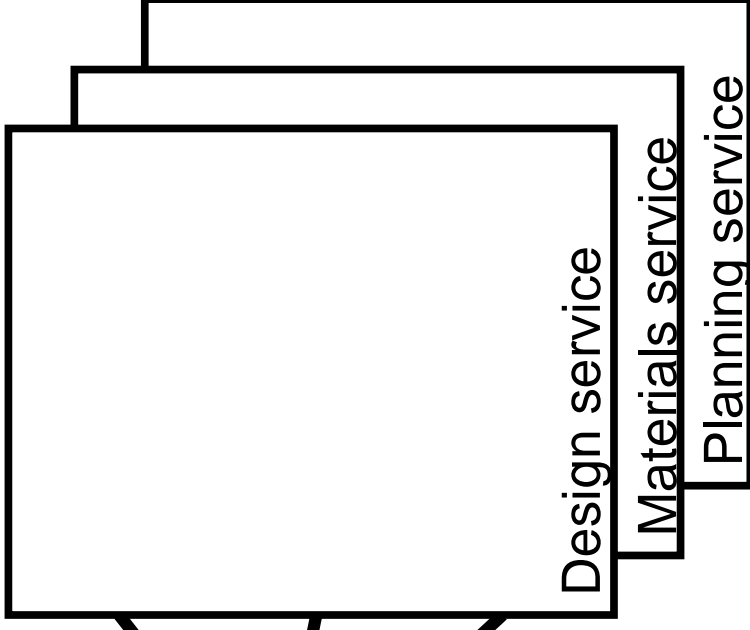
# Person - Enterprise dichotomy

*Personal Information  
Environment  
invokes many services*



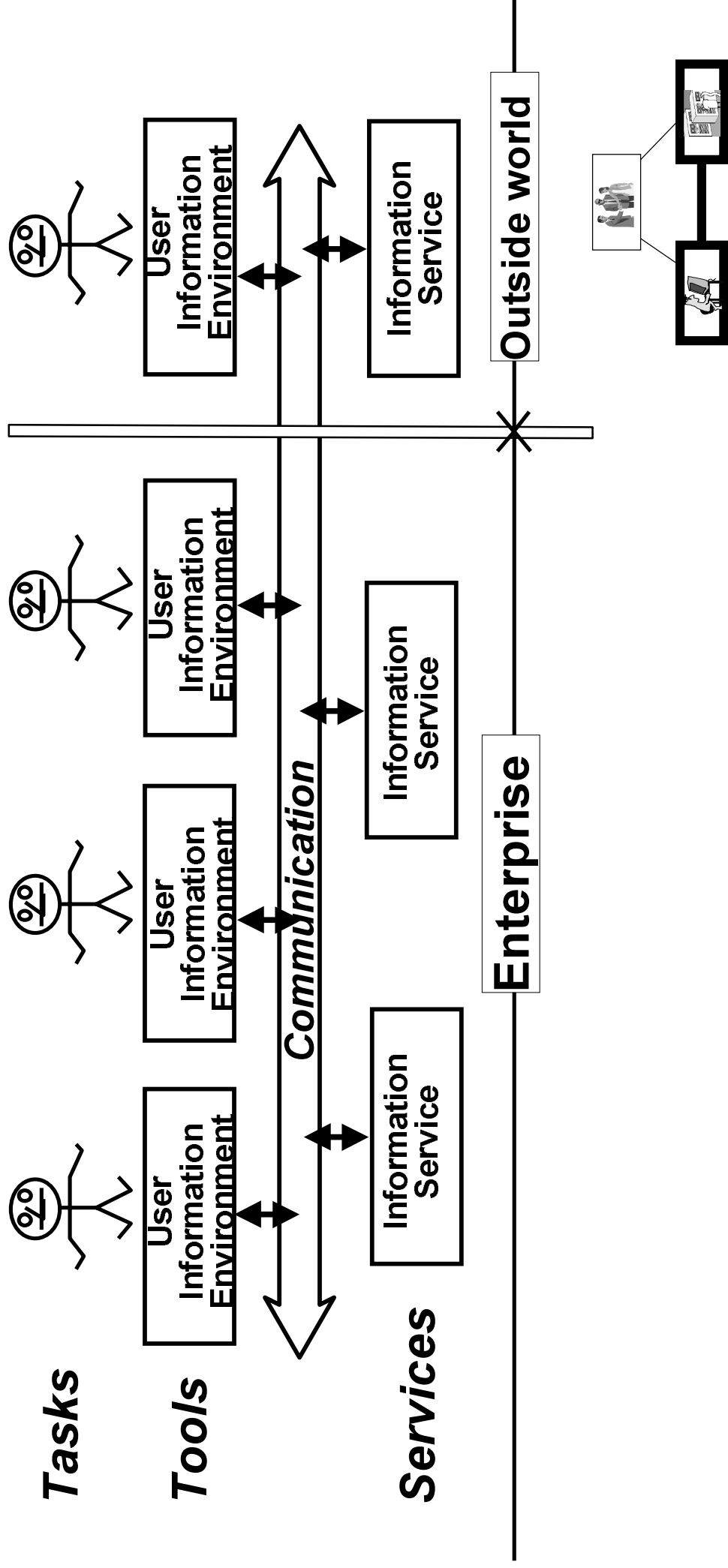
You

*Enterprise services  
for different domains*





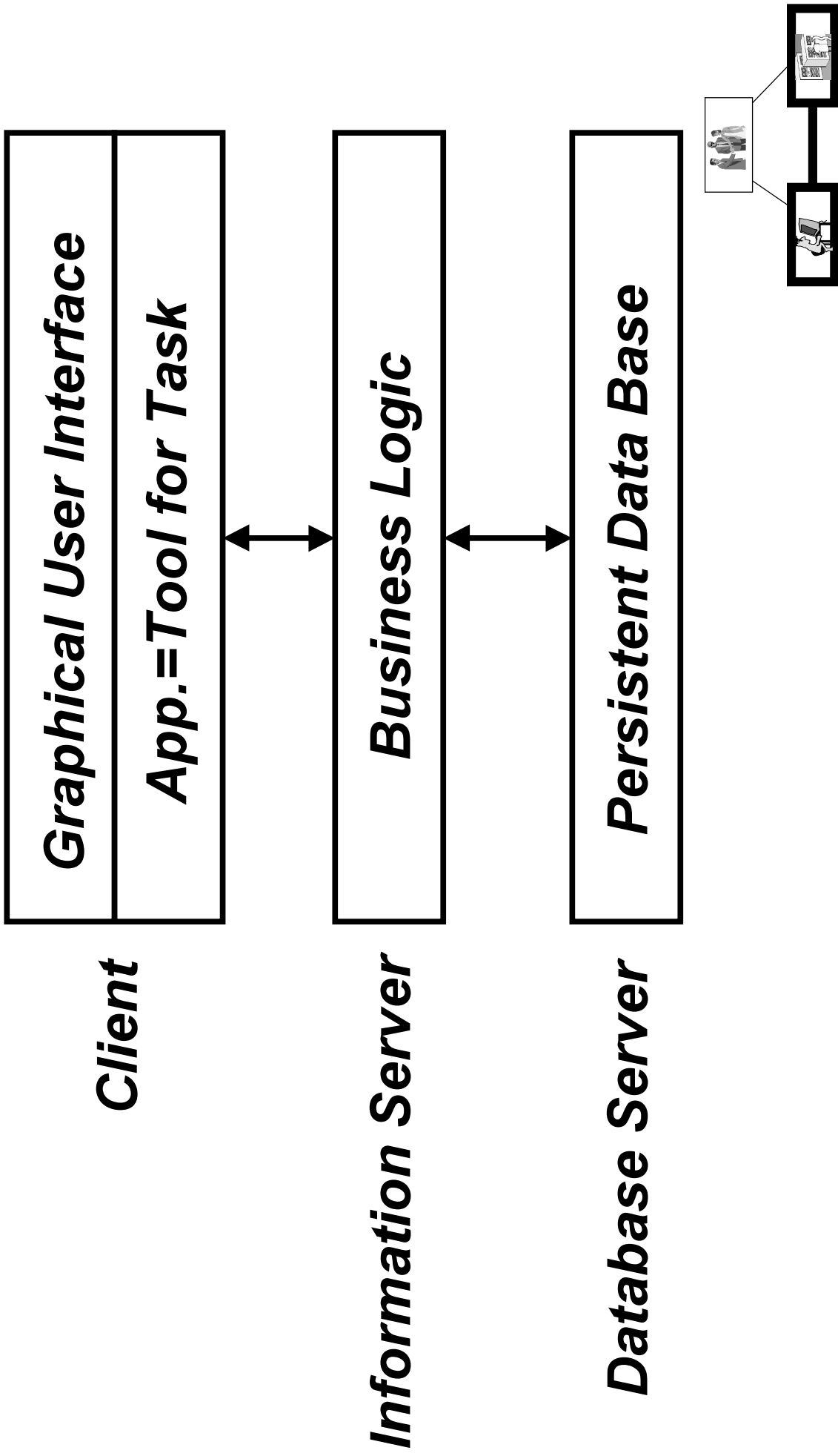
# Essential System Components





# A four-tier Architecture

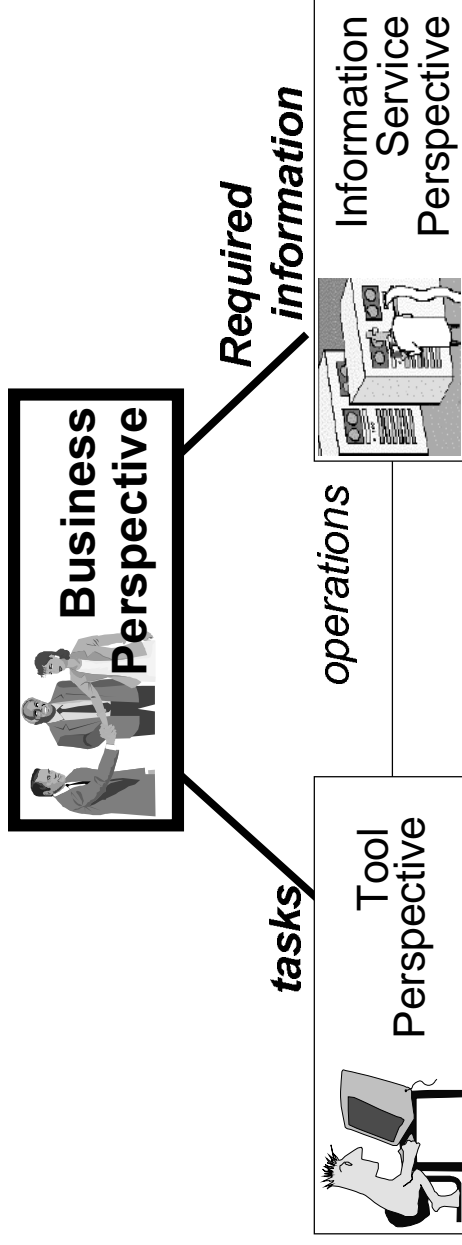
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# Summing up

## Business Perspective



### Separation of concerns:

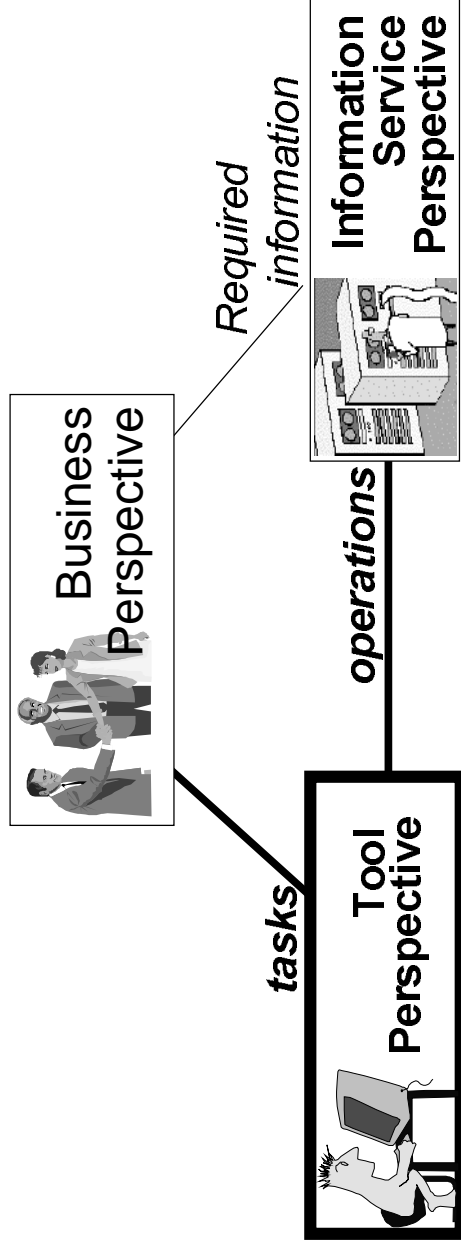
- Business processes --> Tasks --> Use Cases
- Information needs --> Information models



# Summing up

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## Tool Perspective



### Rapidly changing requirements:

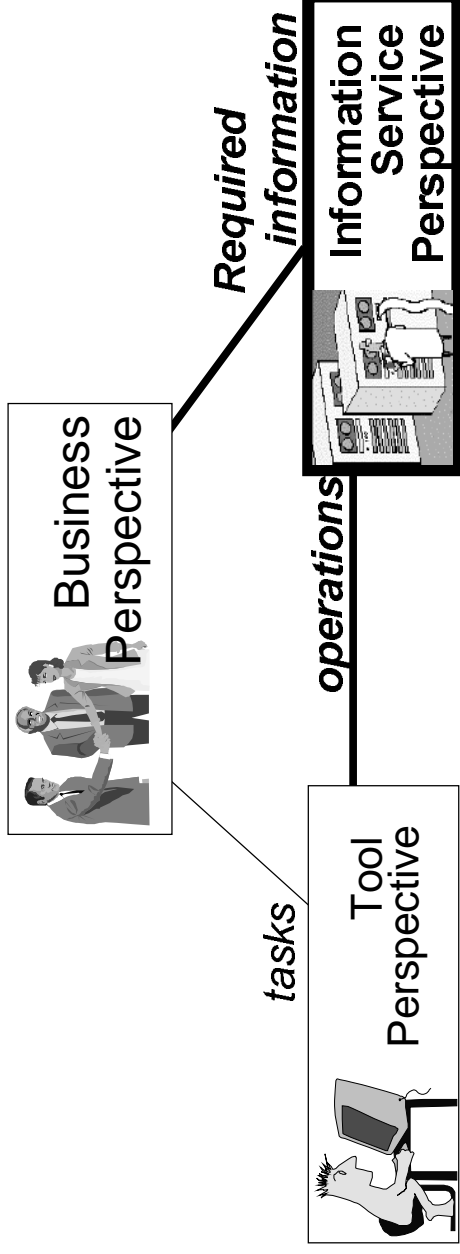
- Tools must be built quickly and easily
- Tools must be easy to use



# Summing up

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## Information Services Perspective



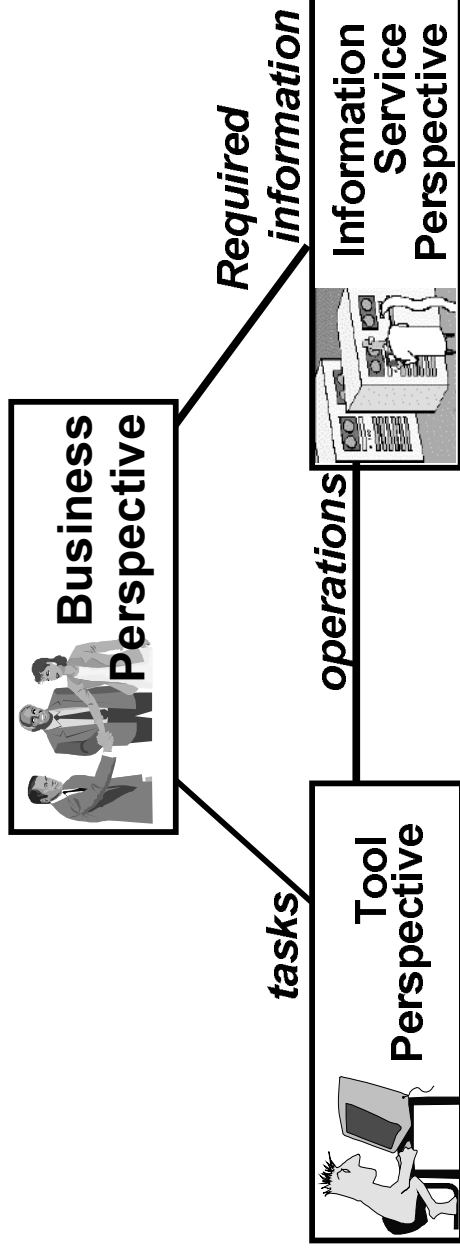
**Services are comprehensive and stable:**

- **Must reflect user perception of information**
- **Must be stable over time**
- **Must be partitioned for  
minimum interdependency  
maximum flexibility**



# How do we get from here to there?

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Given that this is where we want to go:

- Learn technology  
*Java + CORBA + Web*
- Do small, but significant project
- Plan large scale introduction

***What are the information services?***



# References

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- Trygve Reenskaug : *Working with objects: A three-model architecture for the analysis of information systems*. JOOP May 1997.
- Egil P. Andersen: *Conceptual Modeling of Objects. A Role Modeling Approach*. Dr Scient thesis. Dept. of Informatics, University of Oslo. 4 November 1997.
- *Unified Modeling Language (UML)*. Object Management Group. Version 1.1, September 1, 1997. Document numbers 97-08-02 through 97-08-05 define version 1.1: <ftp://ftp.omg.org/pub/docs/ad>