FIPA Methodology

Methodology Scope and Initial Set of Disciplines

31st FIPA Meeting, Barcelona, 18 March 2004

Agenda & Objectives

Agenda:

- Problem definition
- Mixed approach to define FIPA methodology
- Considerations about the scope of AUML
- Discussion about candidates for covered disciplines

Objectives

- FIPA Methodology scope in terms of covered disciplines

Problem Definition

What is the scope of FIPA Methodology?

- Is is a methodology just for AUML modeling or also other modeling and specification techniques can be supported?
- Will the FIPA methodology represent a part of some larger (OOSE) methodology (e.g. RUP) or will it be a “standalone” methodology?
- What disciplines it will cover?
- What theories and SW engineering approached will be supported? (e.g. goal-based requirements, use case modeling, CRC, database design, BDI or UML-based behavior, etc.)
- What conceptual and technical application aspects (mechanisms) will be covered? (e.g. persistence, concurrence, distribution, security, etc.)

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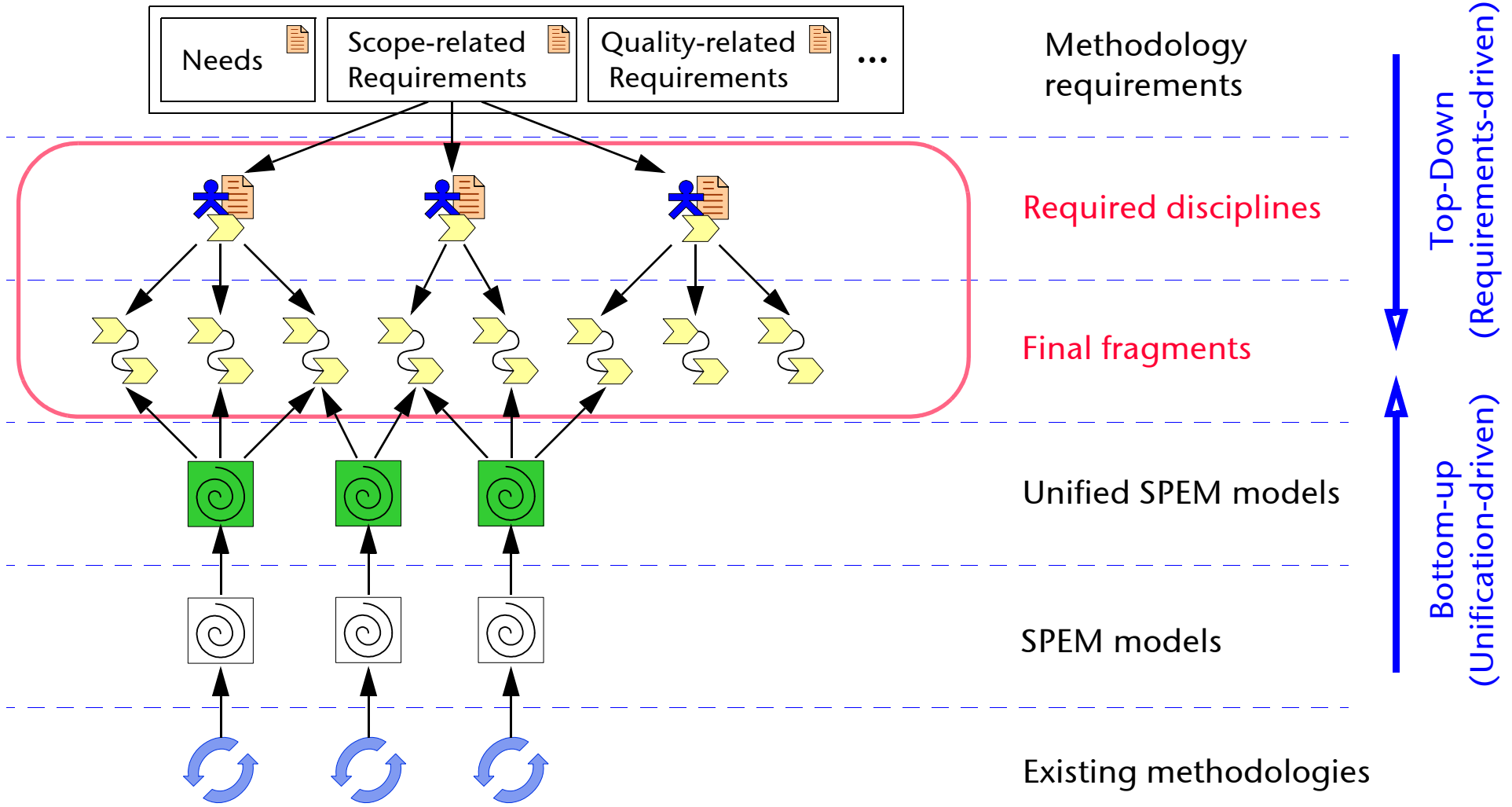
Mixed Approach



Scope of AUML

AUML specifications

- Class Diagrams - agent class, role, agent, group (capability, service description)
  - agent physical classifier
  - agent role classifier
  - agent
  - group (agentified, non-agentified)
- Interaction Diagrams
  - interaction
  - interaction protocol

-> AUML can be used mostly in analysis and early design, but also business modeling and requirements (domain model modeling) can be supported as well

Disciplines

- Business Modeling - understand the target organization (RUP)
- Requirements - define what the system should do (RUP, PASSI, GAIA?)
  - Preliminary Requirements (ADELFE)
  - Final Requirements (ADELFE)
- Analysis - formulate a model of the problem domain. Analysis focuses on what to do (RUP, ADELFE, GAIA)
  - Agent Society (PASSI)
  - Agent Implementation (PASSI)
- Design - decide how the system will be implemented (RUP, ADELFE, GAIA?)
  - Agent Implementation (PASSI)
  - Code (PASSI)

Disciplines (cont.)

- Implementation - implement software components (RUP)
  - Code (PASSI)
- Test - test the system (RUP)
- Deployment - ensure a successful transition of the developed system to its users (RUP)
- Configuration & Change Management (RUP)
- Project Management (RUP)
- Environment (RUP)

Next Steps

- Define and manage the FIPA methodology requirements
- Refine a list of disciplines and define their content
- Identify further method fragments (mixed approach)