## Global Software Development Workshop ICSE - 9 May 2003

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D-Meeting: an Object-Oriented Framework for Supporting Distributed Modeling of Software

### Problem

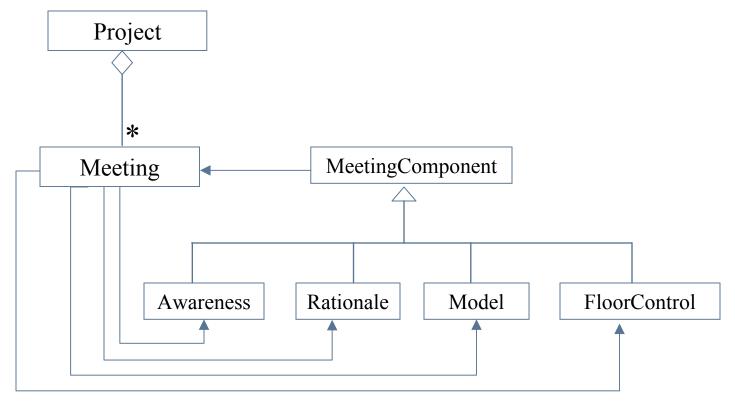
- Supporting Distributed Modeling of Software
  - Sharing artifacts (e.g., models) in sametime/different-location
  - Discussing different decisions/alternatives
  - Rationale behind decisions



- Informal/formal communication
- Knowledge capture and management
- Group Awareness
- Floor control policies
- Heterogeneity

# Approach (1): Object-Oriented Framework

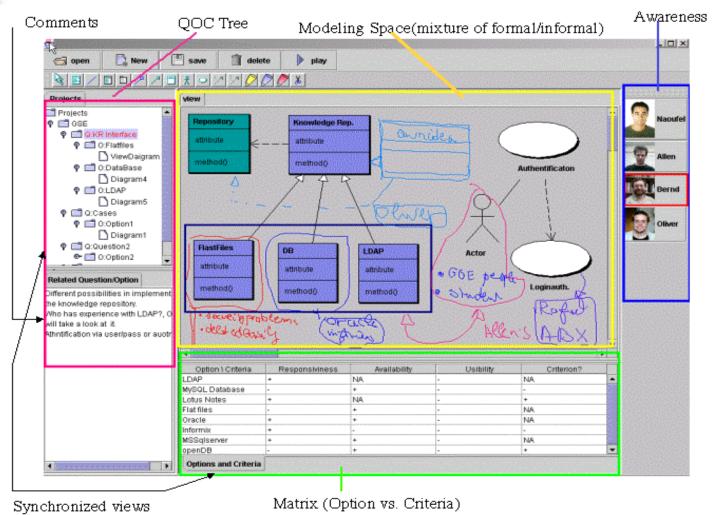
D-Meeting Framework



# Approach (2): Framework components

- Reference implementation provided
- Reuse through sub-classing of the meeting class
- Flexibility in deployment of the different components (add/remove)
- Extending the framework through composition

## A Solution: D-UML: an instance of D-Meeting





#### **Evaluation**

- Approach: case studies with different types of environments
  - Researcher Meetings
  - CSCW course
  - Software Engineering Project Course



- Interaction must be simple and responsive
  - During brainstorming,
  - Fingers as input device
  - ⇒ Light-weight event notification for replication
- Activity and object of interest must be shared
  - Single selection, single cursor, awareness indicators
- Hard to remember the context of brainstorming
  - Post-processing (UML/Rationale) needs to occur right after the meeting



## Thank you for your attention!



### Framework: additional details

