

Requirements Engineering with Viewpoints

Group 2

Presented by
Emirald Matelli
Luka Popovic

ViewPoints

- Different stakeholders have different views
- Opposing views lead to conflicts
- ViewPoints create framework to deal with such conflicts
- Traceability is important



Inconsistencies

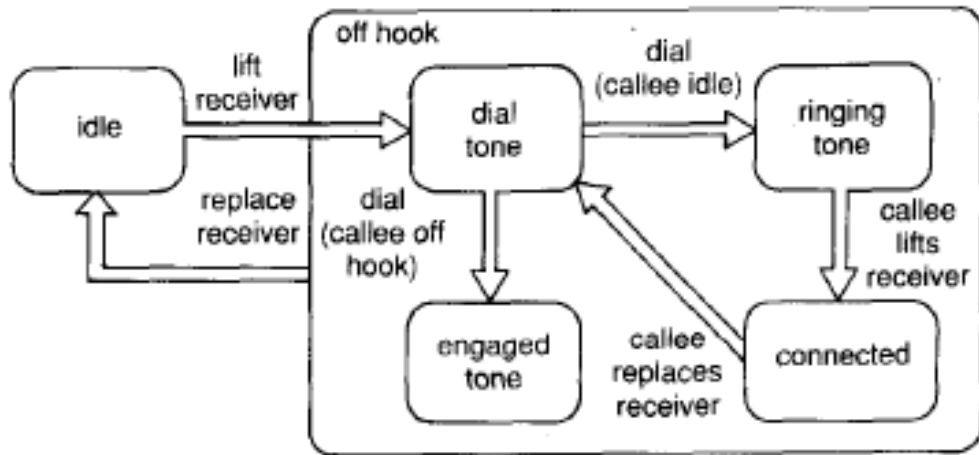
- Relationship between parts of specification
- How inconsistencies arise
- Inconsistencies $\Rightarrow$ Missing information
- Inconsistencies & ViewPoints



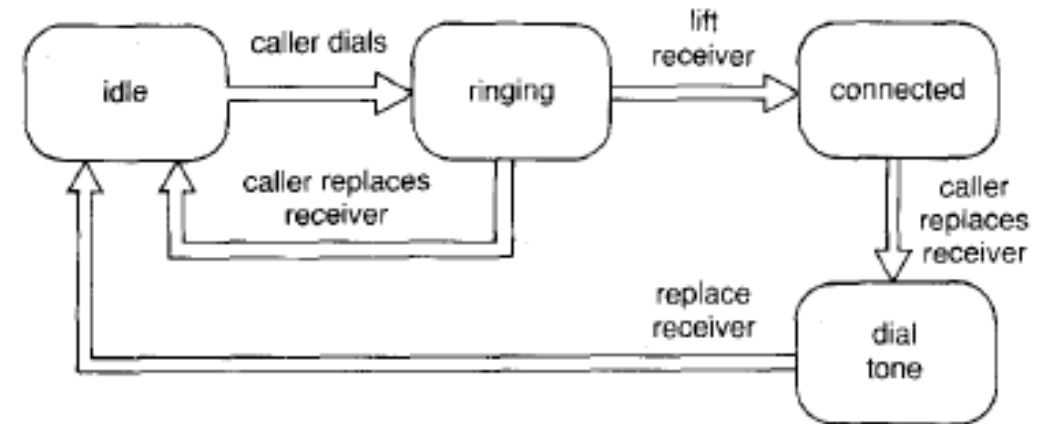
ViewPoint methods

- ViewPoints using state notation
- Inconsistency management
- Resolution of inconsistencies

A (owner=Anne; domain=telephone/calling)



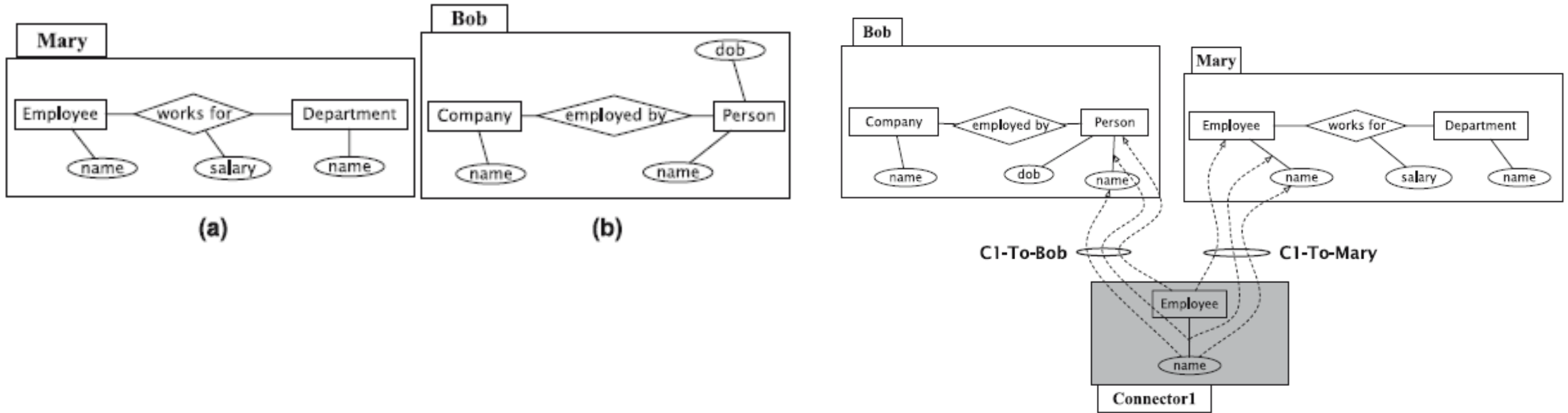
B (owner=Bob; domain=telephone/incoming call)



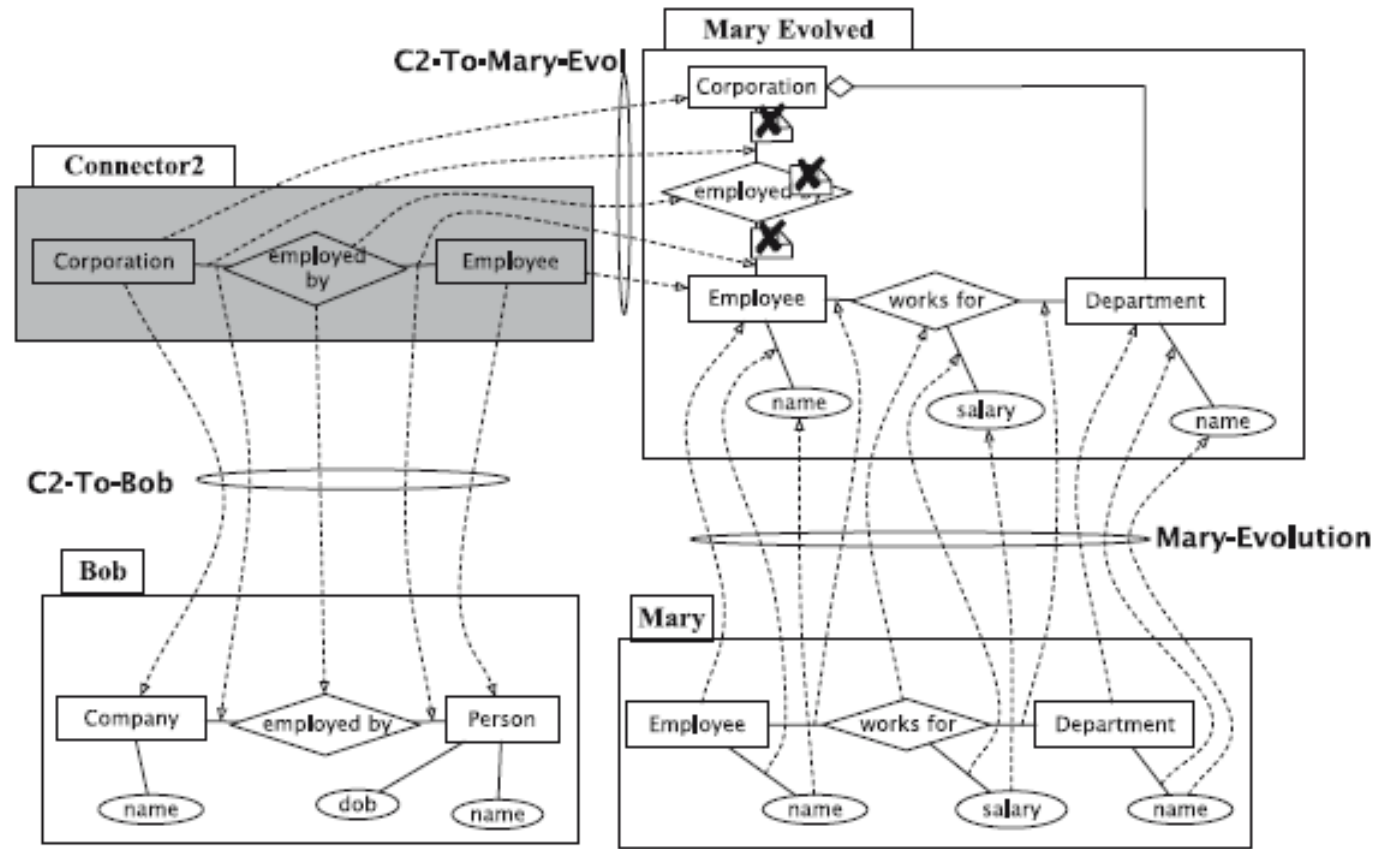
View merging in the presence of incompleteness and inconsistency

- Sabetzadeh & Easterbrook introduce a framework for merging incomplete and inconsistent graph-based views.
- Traceability back to the originating views, to the contributing stakeholders, and to the view interrelationship assumptions related to the elements

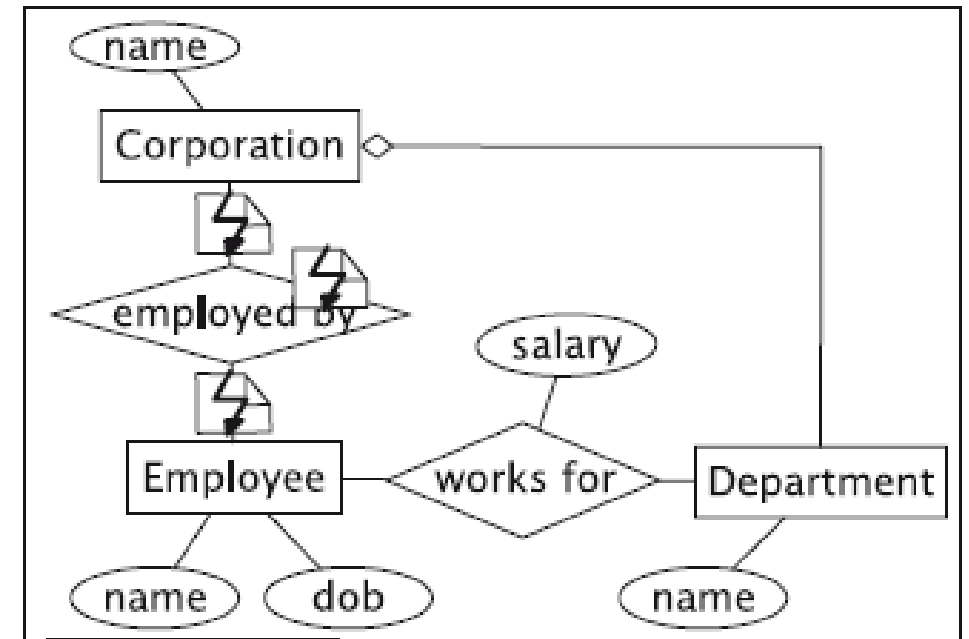
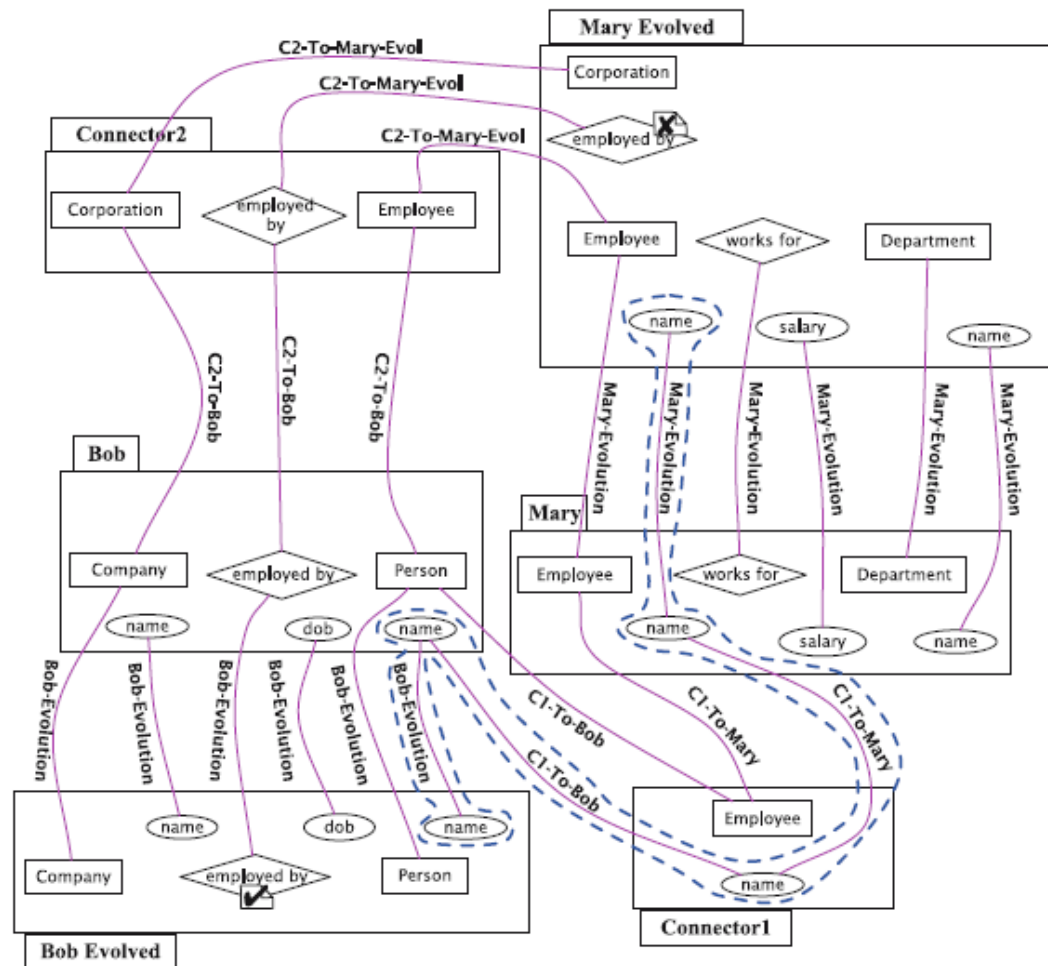
Example



Example (2)



Example (3)

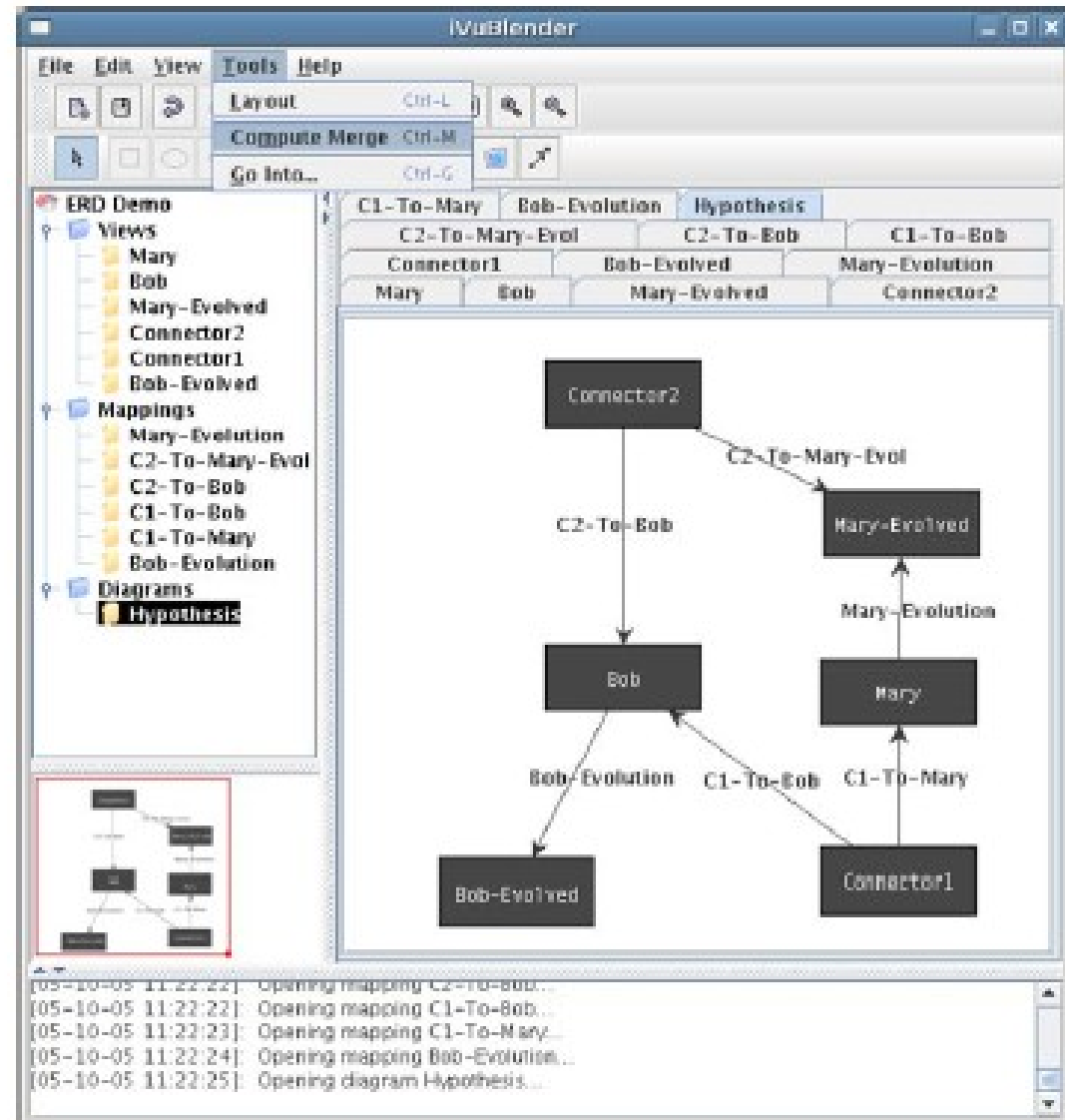


Merged View

M:!!;B:!

iVuBlender

- Java tool
- Merge
 - i* models
 - ERDs
 - state-machines



Case study problem

- Conflicts between Alan and Drocery view.
 - Robot taking food from platform.
- Conflict between Marta and end user
 - Autonomous → Manual mode
- Developers use the results of analyses to refine ideas about the system.

Questions

