



Domain Modeling

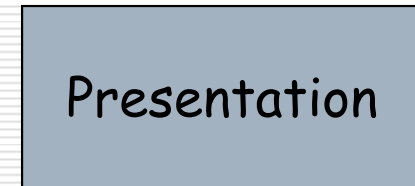
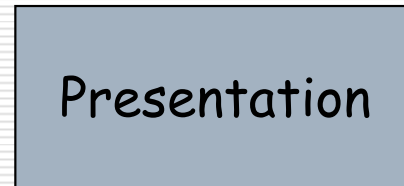
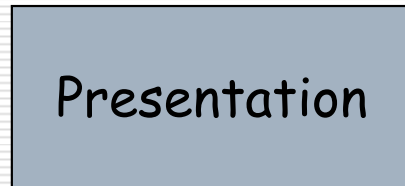
Vincentx@BJUG

Agenda

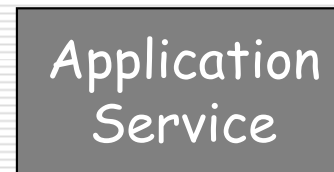
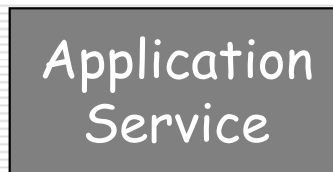
- Basic Concept
 - An Introduction to Peter Coad's Approach
 - My Approach
 - Ruminations on DAO and Service (Domain Lifecycle)
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Basic Concept — Layered Architecture

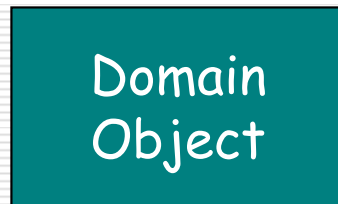
Presentation Layer



Application Layer



Domain Layer



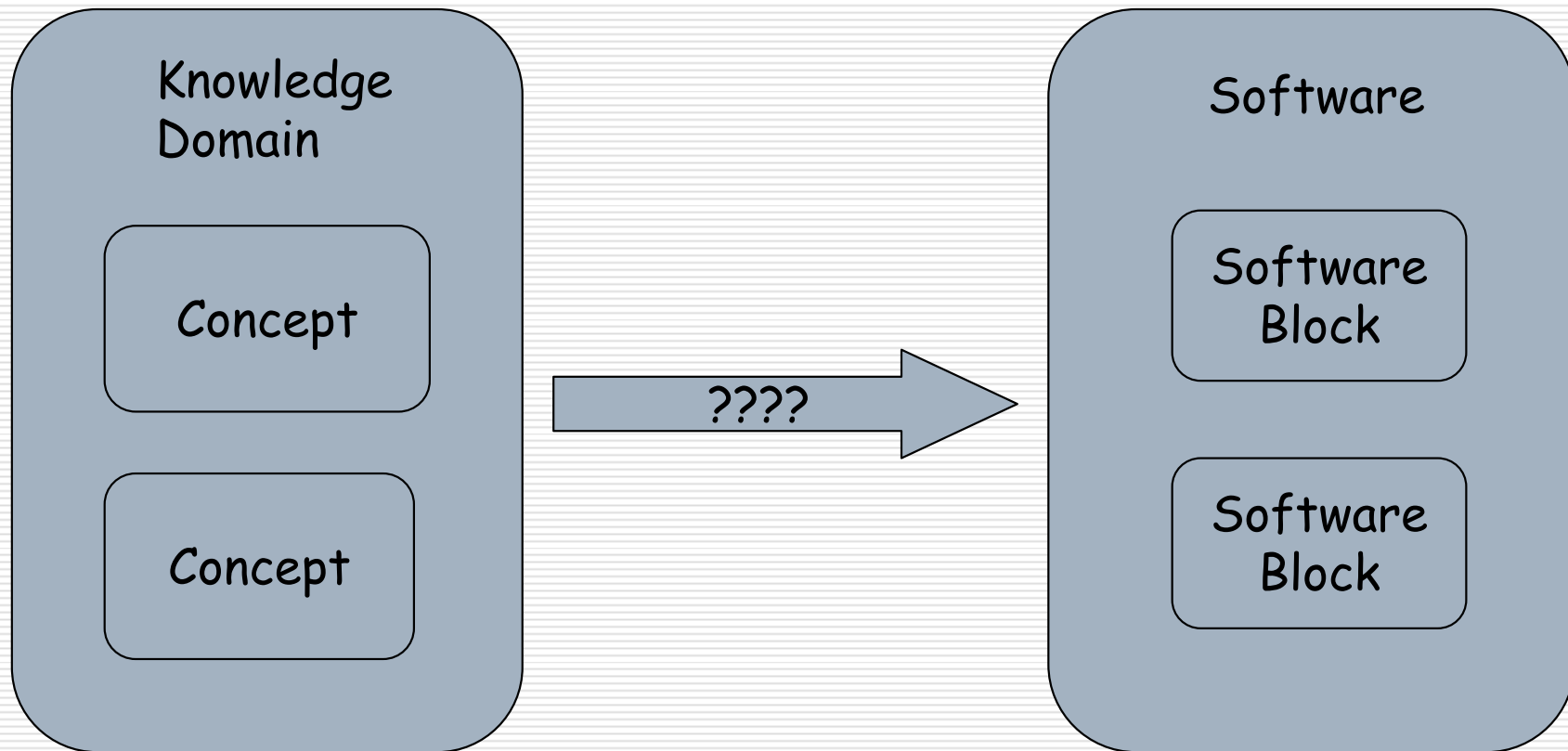
Basic Concept — Layered Architecture

- ❑ Responsible for representing concepts of the business, information about the business situation. [DDD]
 - ❑ More accurately, representing concepts which is used in application layer.
 - ❑ Not a matter of making as "realistic"
 - ❑ A suitable abstraction.
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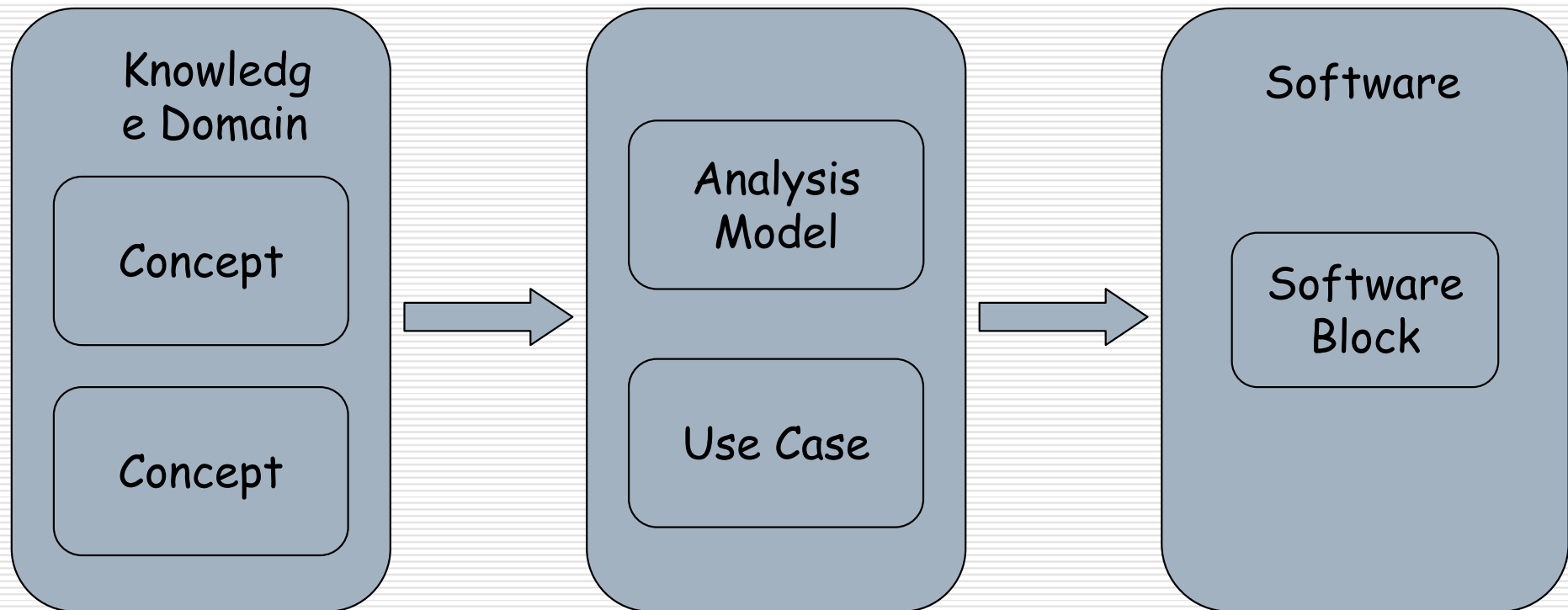
Why Domain Modeling So Difficult?

- Crunching knowledge is full of difficulties.
 - O.O methodology
 - A.Turing
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Domain Modeling



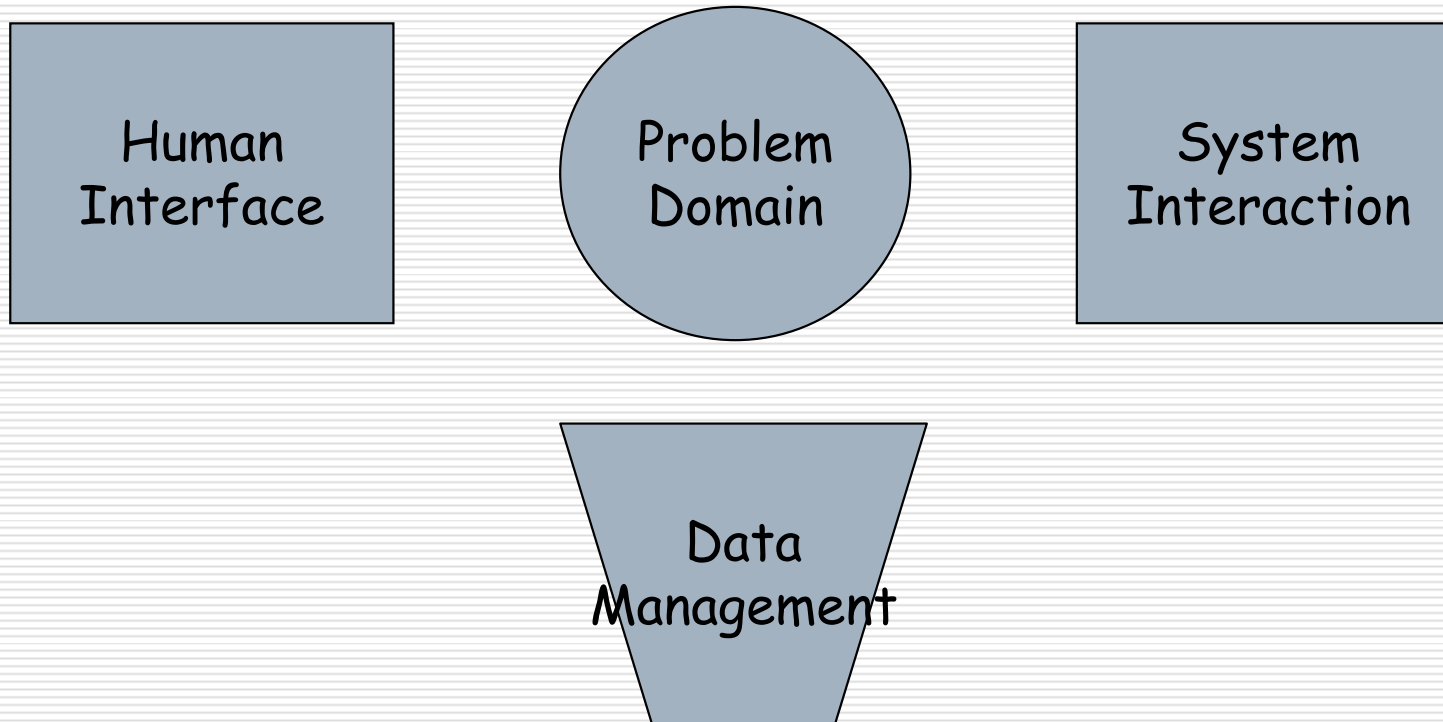
Classical OOA/D Approach



OO Modeling Approach

- OOSE,Booch,OMT
 - GRAPS
 - OORam/Catalysis
 - Peter Coad's Approach
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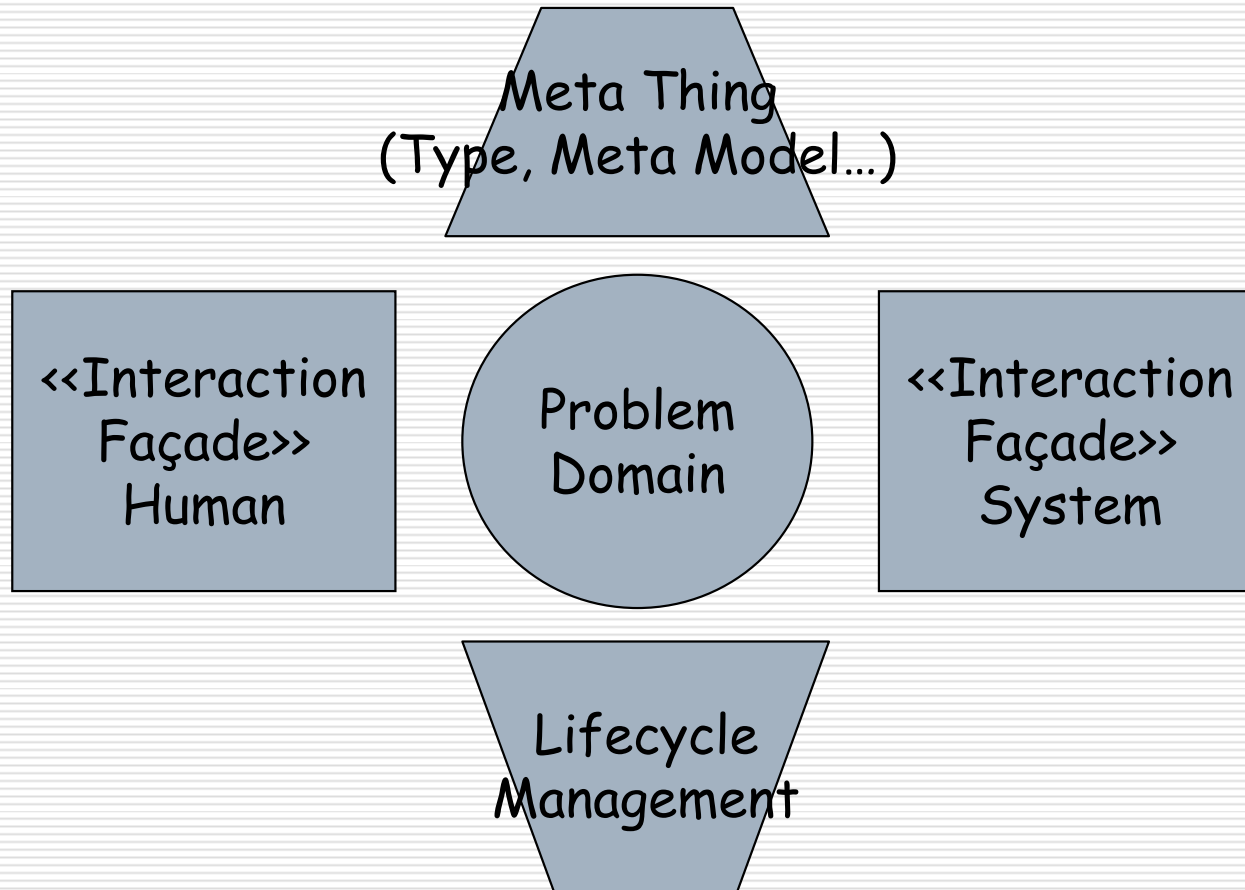
Peter Coad's Approach — T Model



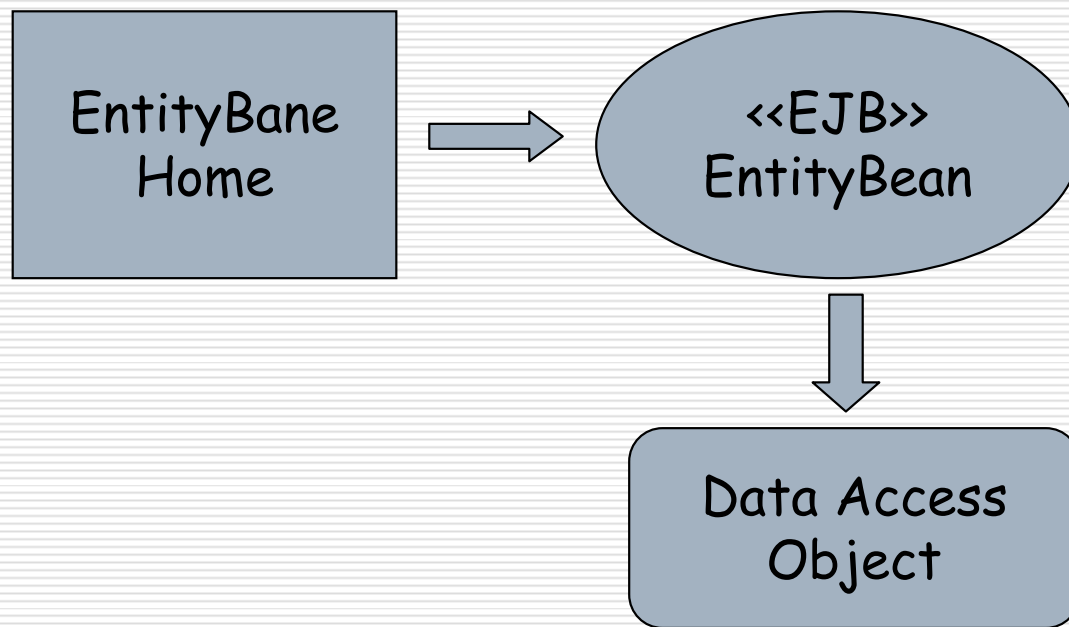
Peter Coad's Approach

- Powertype (Sterotype, MetaModel...)
 - Moment-Interval
 - Role
 - Party-Place-Thing
 - Description
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Vincent's Approach — Cross Model

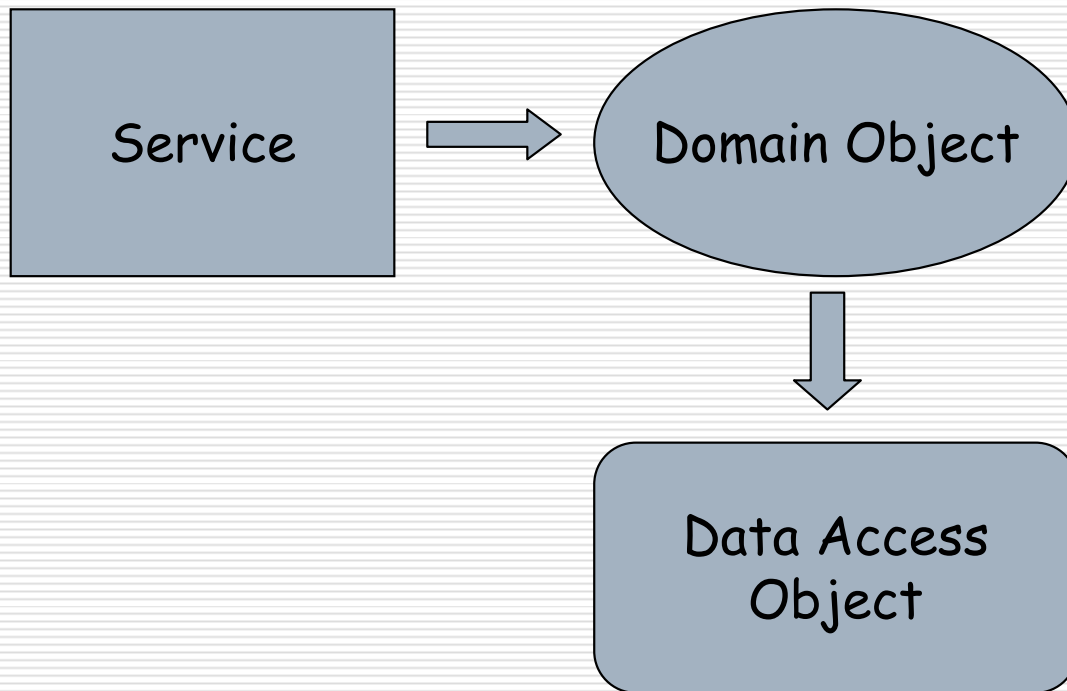


Ruminations on DAO and Service

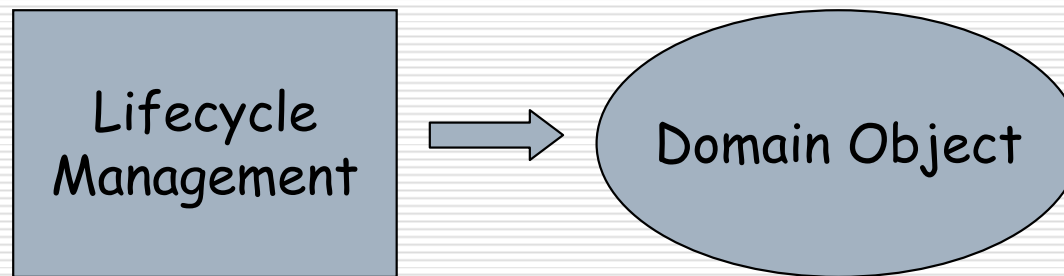


<<Row Data Gateway Pattern>>

Ruminations on DAO and Service



Ruminations on DAO and Service



Approach of Hibernate and EJB 3

Ruminations on DAO and Service

- Creation
 - Factories
 - Domain Container Objects (Aggregate Objects)
 - Class Objects (Meta Things)
 - Retrieve
 - Application Service
 - Domain Container Objects (Aggregate Objects)
 - Class Objects (Meta Things)
 - Update
 - Delete
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To Be Continued

□ Meta Things

- Meta Modeling
- Type/Class Object
- Using MOF in Domain Model

□ Interaction

- Semantic Interaction
 - Window/UI Object and Web Action
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Thanks
