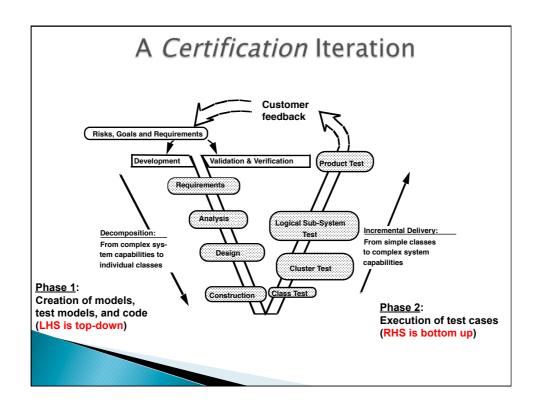
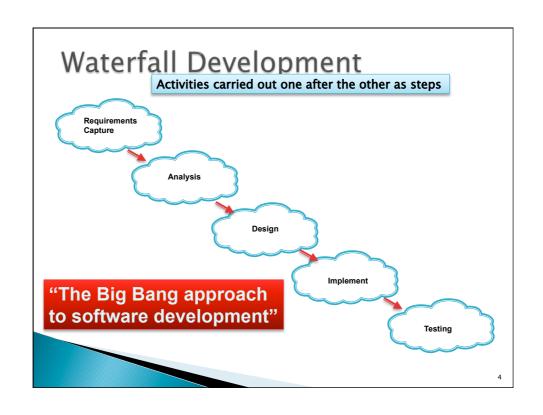
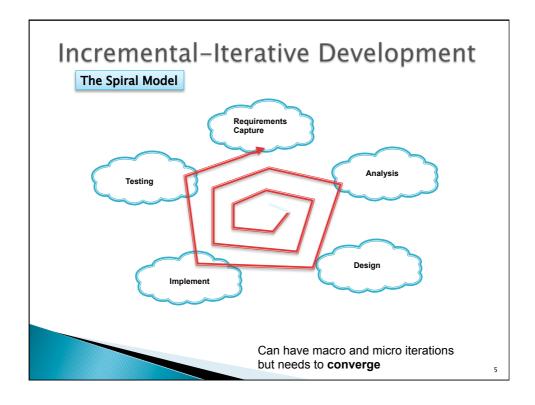
# Activities, Process, and Models

**OO** Development Overview Requirements Doc. Requirements Use Cases/Stories Models Requirements Capture **Domain Objects Objects** -structure Analysis Analysis Models -scenario -behavior Design **Objects** Design Models -structure -scenario -behavior Implementation Implement Models Code Test **Test Plan, Test Cases** Testing Models **Test Drivers & Results** 

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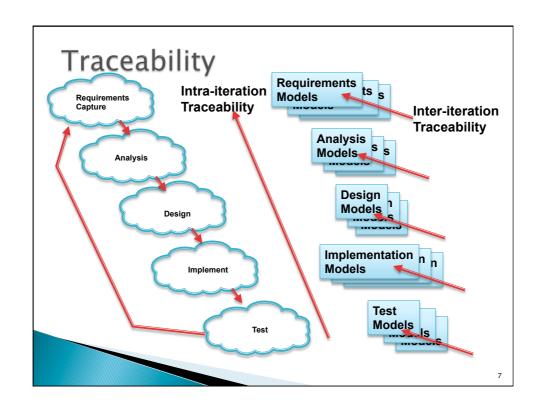


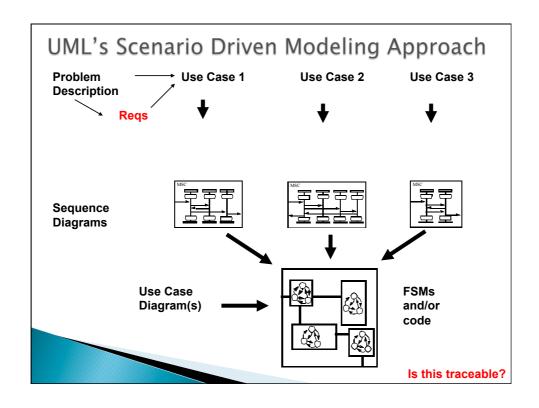


## Aiming for Traceability

- Traceability is required to achieve convergence:
  - We must document the continuity that must exist between the workproducts of different activities.
    - · At least required for regression testing
  - In turn, continuity enables completeness and consistency checks.
- Within a particular activity, the work-products must be consistent.
  - e.g., the structural, scenario and behavior models must be consistent
    - For example, if an interaction diagram shows an object receiving a message, then the statechart of this object must reflect this possibility
- Work-products must also be complete with respect to the current requirements.

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### The Agile Manifesto-a statement of values Individuals and over Process and tools interactions Comprehensive Working software over documentation Customer Contract negotiation over collaboration Responding to over Following a plan change Source: www.agilemanifesto.org

## The Core of Agile Modeling

#### Some Core Principles

- Assume Simplicity
- Expect Incremental Change
- Enabling the Next Effort is Your Secondary Goal
- Model With a Purpose
- Use Multiple Models
- Maximize Stakeholder Investment
- Value Quality first
- Get Rapid Feedback
- Software Is Your Primary Goal

#### Some Core Practices

- Active Stakeholder Participation
- Apply the Right Artifact(s)
- Collective Ownership
- Create Several Models in Parallel
- Create Simple Content
- Depict Models Simply
- Display Models Publicly
- Model in Small Increments
- Model With Others
- Prove it With Code
- Use the Simplest Tools

