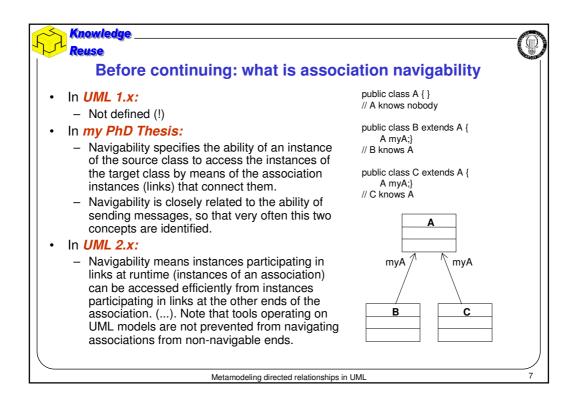
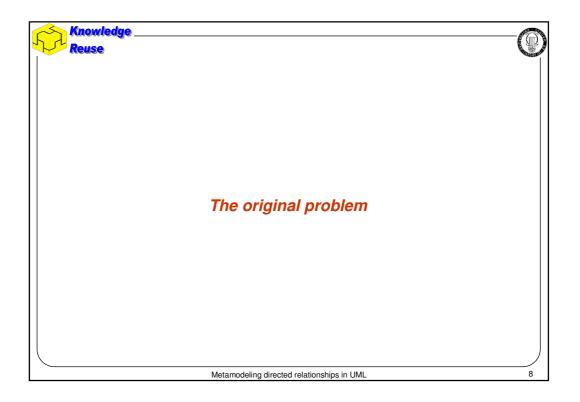
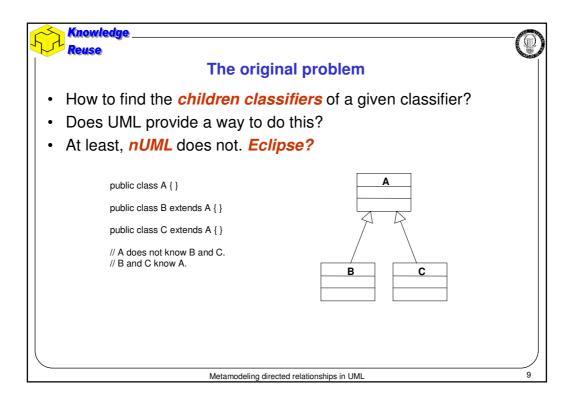
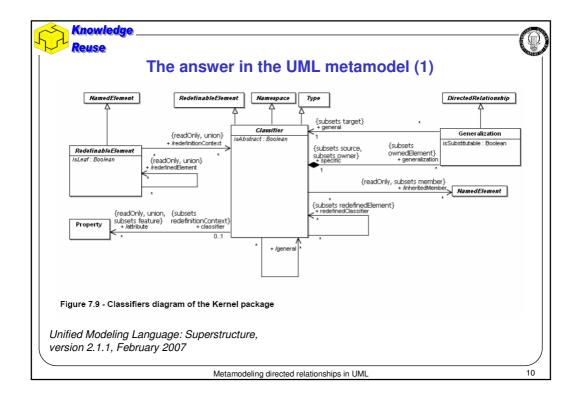


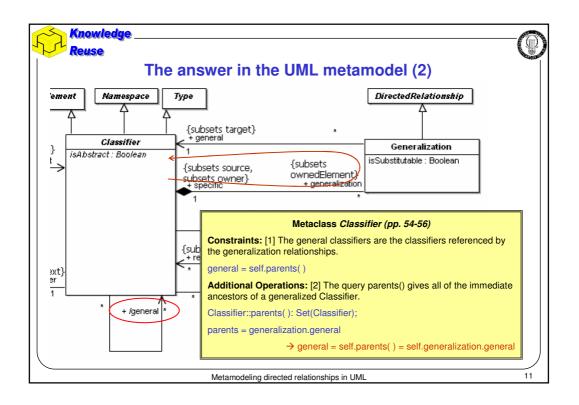
Knowledge	Ð
Purpose	
 The original problem: How to find the <i>children classifiers</i> of a given classifier? Does UML provide a way to do this? The problem is found in any tool that manipulates models. <i>CASE tools</i>: if I modify a class, which subclasses will be affected? <i>Retrieval tools</i>: if I search for a class in a repository, shall I be satisfied by any answer that contains the subclasses as well? 	
 My purpose is to "convince" the audience that: There is <i>a flaw</i> in the UML metamodel, and The source of this flaw is <i>a misunderstanding</i> of metamodeling levels. In order to "really" convince, I expect from the audience: Skepticism (maybe I am wrong), and Openmindedness (maybe I am right!). 	
Metamodeling directed relationships in UML	6

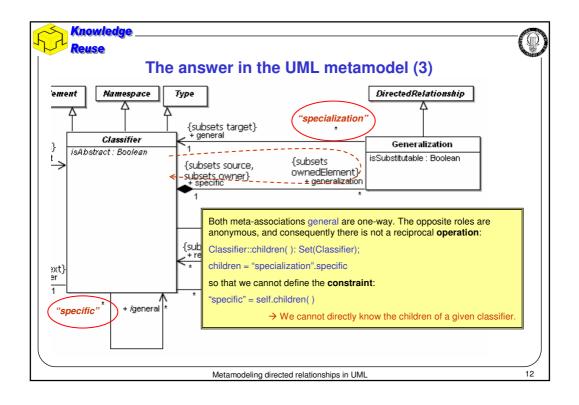


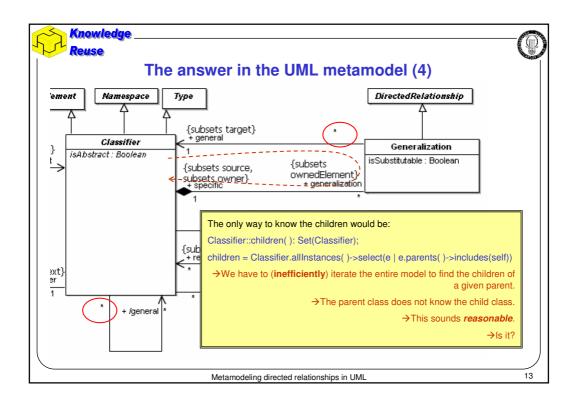


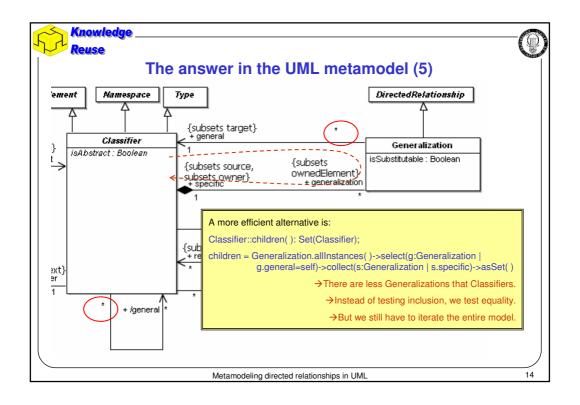


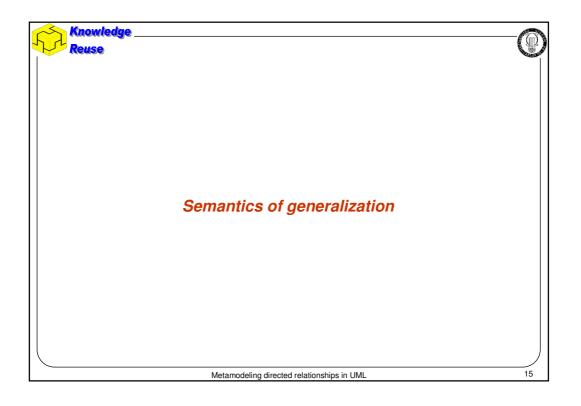


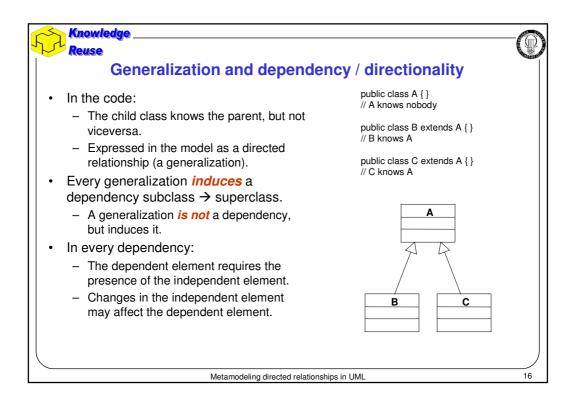


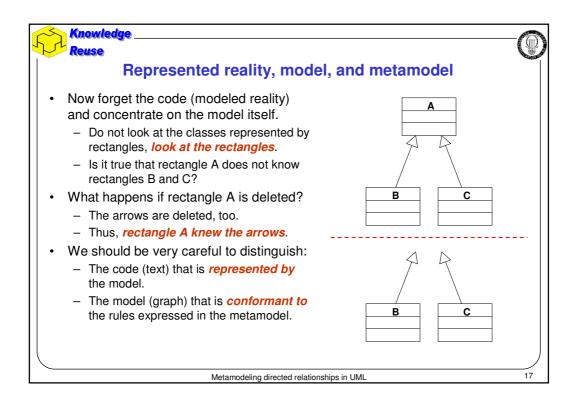


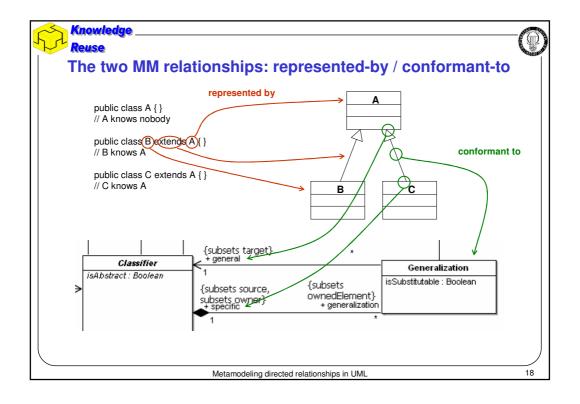


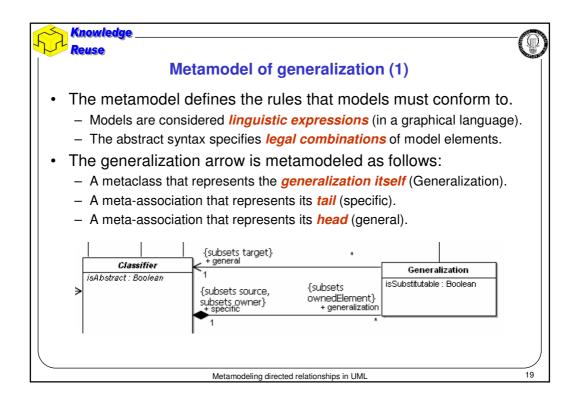


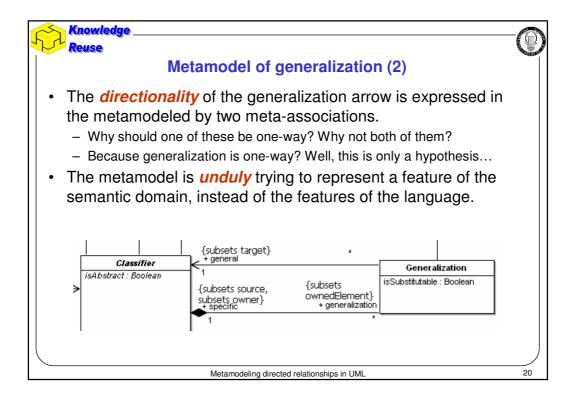


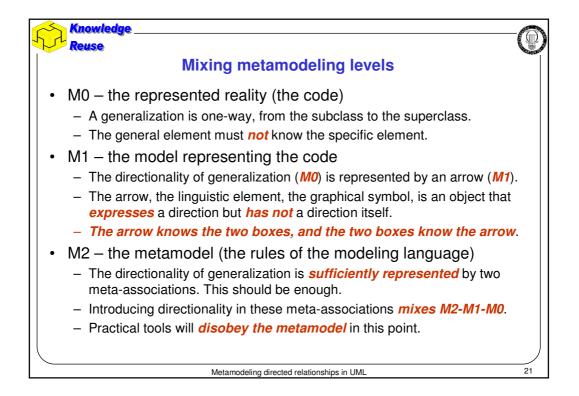


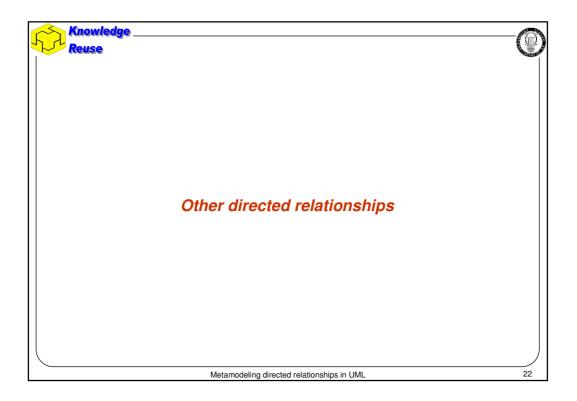


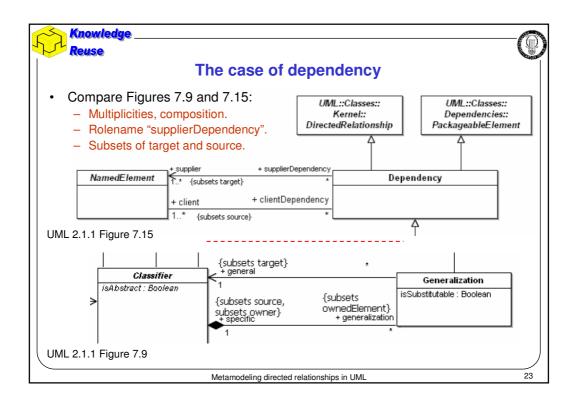












X	Knowledge	
	Reuse	
	Other directed relationships	
•	Chapter 7 (Classes): - Subtypes of dependency: Abstraction, Realization, Substitution, Usage. - PackageMerge, PackageImport, ElementImport. Chapter 8 (Components): - ComponentRealization. Chapter 15 (State Machines) - ProtocolConformance. - But not Transition! Even though it is defined as: "A transition is a directed relationship between a source vertex and a target vertex" (p. 568).	e
•	Chapter 16 (Use Cases) - Include, Extend Chapter 17 (Auxiliary Constructs)	
•	 InformationFlow, TemplateBinding. Chapter 18 (Profiles) ProfileApplication. 	
	Metamodeling directed relationships in UML 2	24

