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TUNIV approach to knowledge-based learning material design

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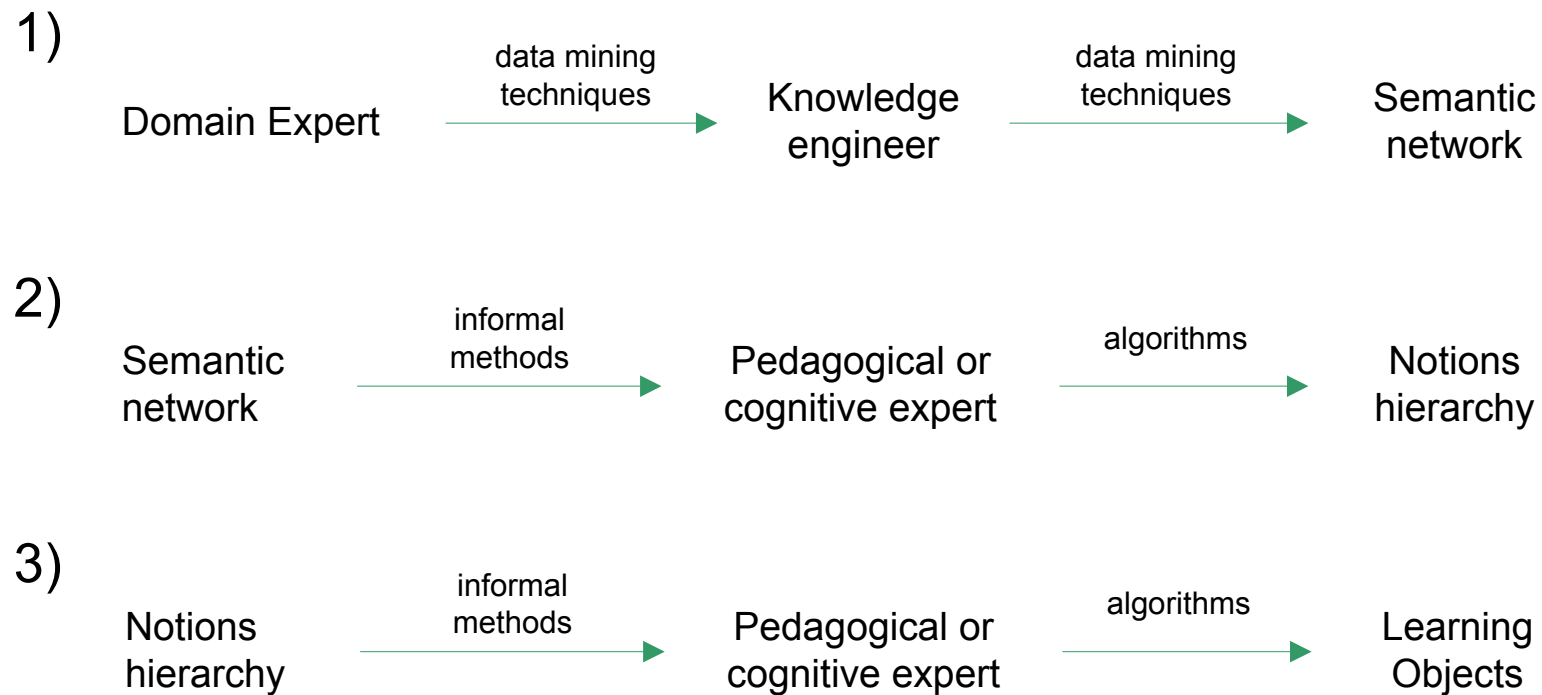


**FINAL SEMINAR 21.-22.9.2006
SZCZECIN, POLAND**



Didactical material creation

Knowledge-flow-diagram





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Didactic material structure definition

Title: Planning and Simulation of Manufacturing Processes

I. Semantic analysis of the title

Notions: [*planning, simulation, manufacturing processes*]

II. Notions depth analysis

planning: [*strategic, tactical, operational*]

simulation: [*discrete, continuous, dynamic, static*]

manufacturing
processes: [*discrete, continuous*]



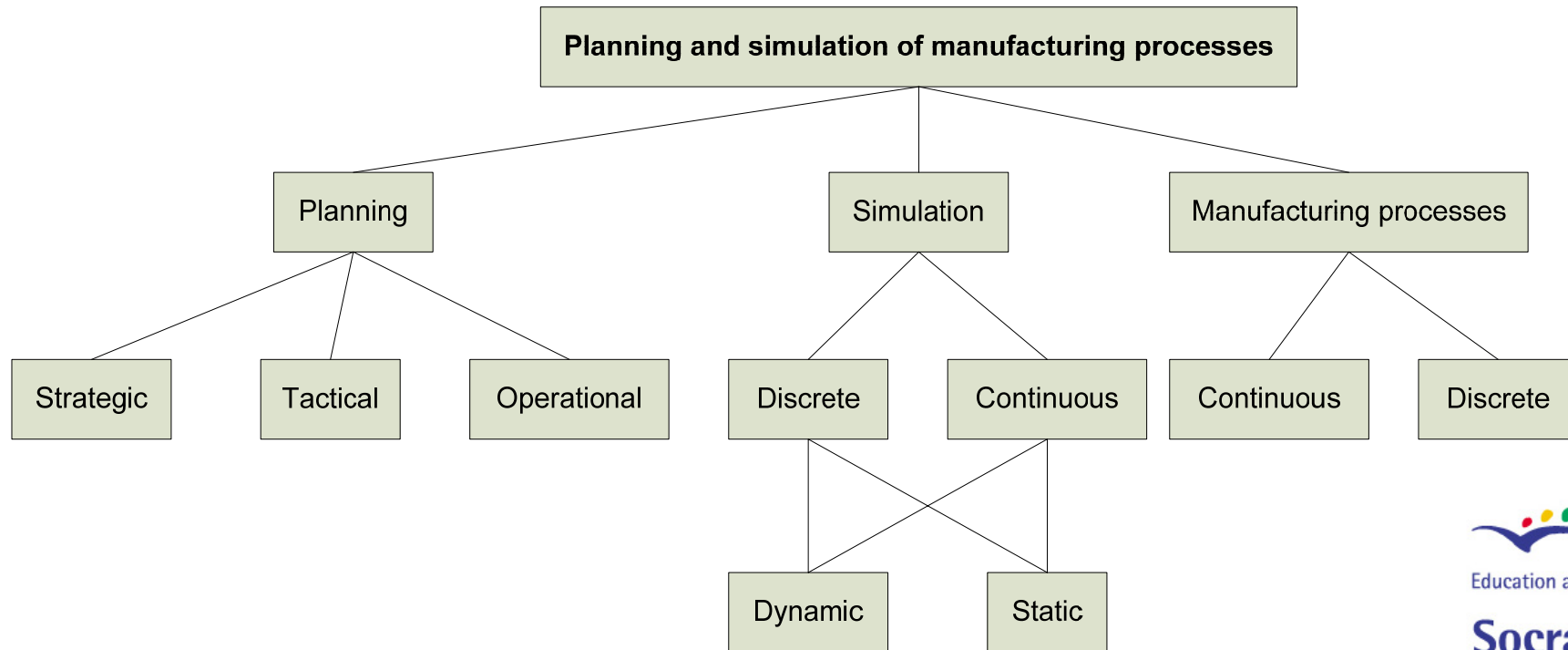
Education and Culture

Socrates





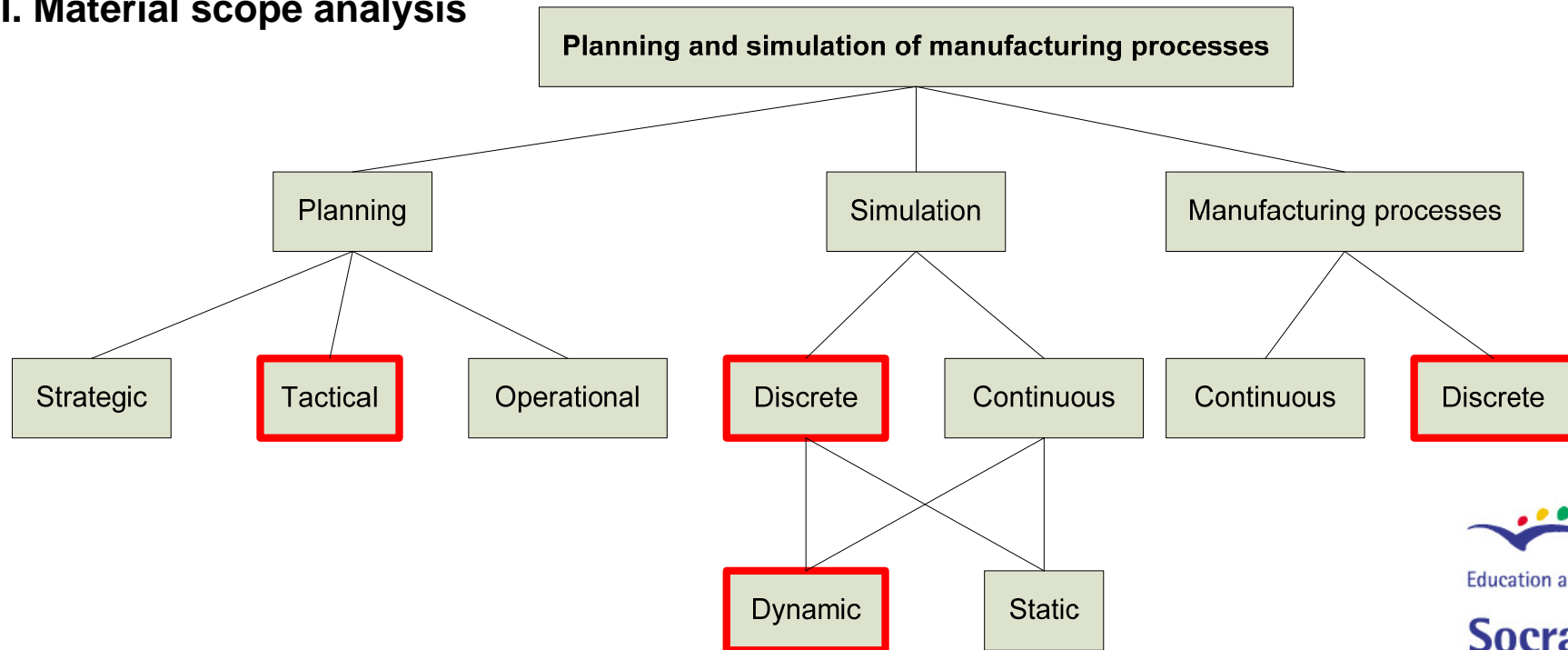
Notions depth analysis





Didactic material size analysis

III. Material scope analysis



Analysis result: Tactical planning and discrete, dynamic simulation of the discrete manufacturing processes

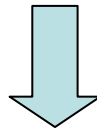


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Methodology of teaching a material of given size

Planning and Simulation of Manufacturing Processes



Tactical planning and discrete, dynamic simulation of the discrete manufacturing processes

Fundamental knowledge (<i>what?</i>):	10%		40%
Procedural knowledge (<i>how?</i>):	40%	or	30%
Project (<i>where?</i>):	50%		30%

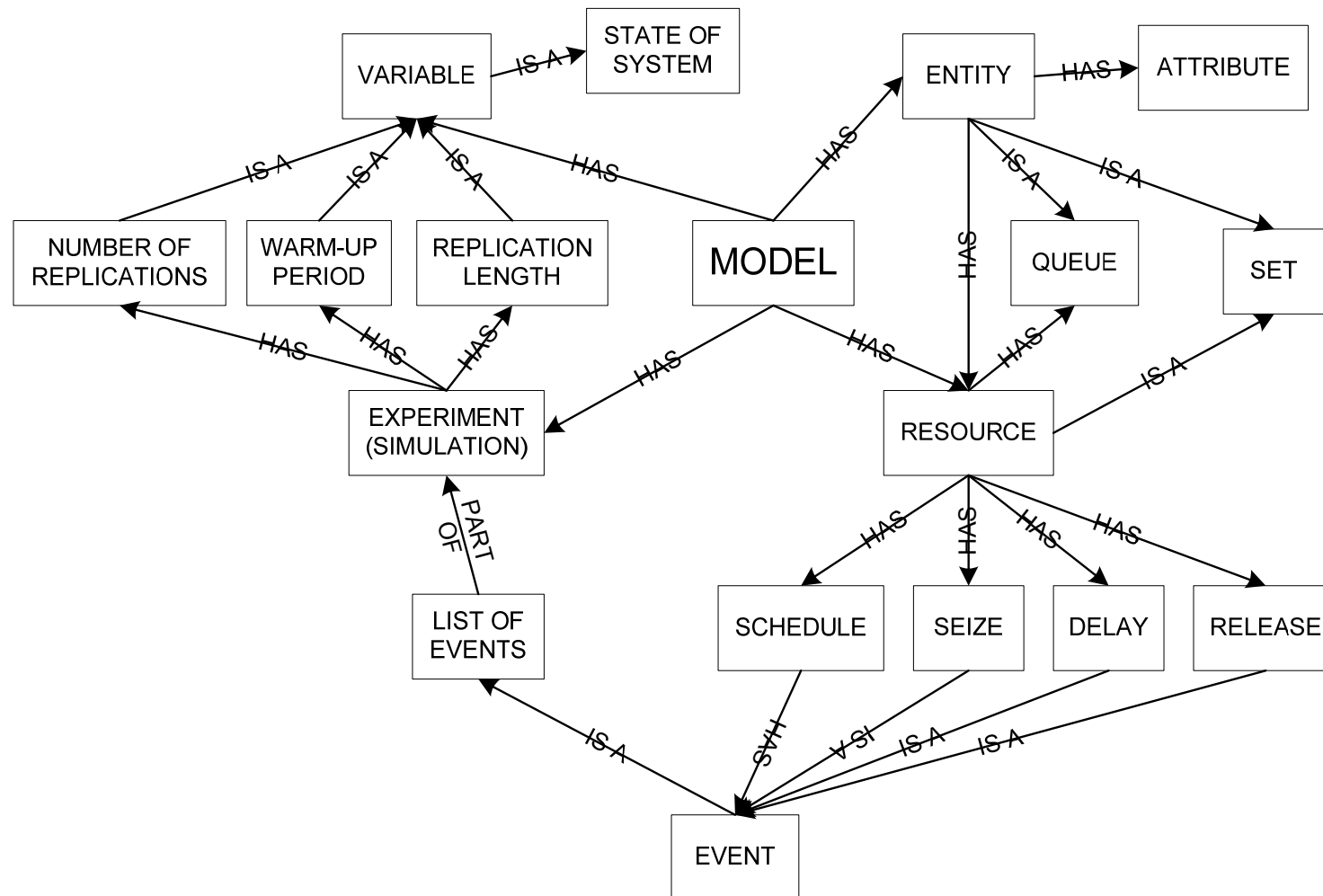


Socrates



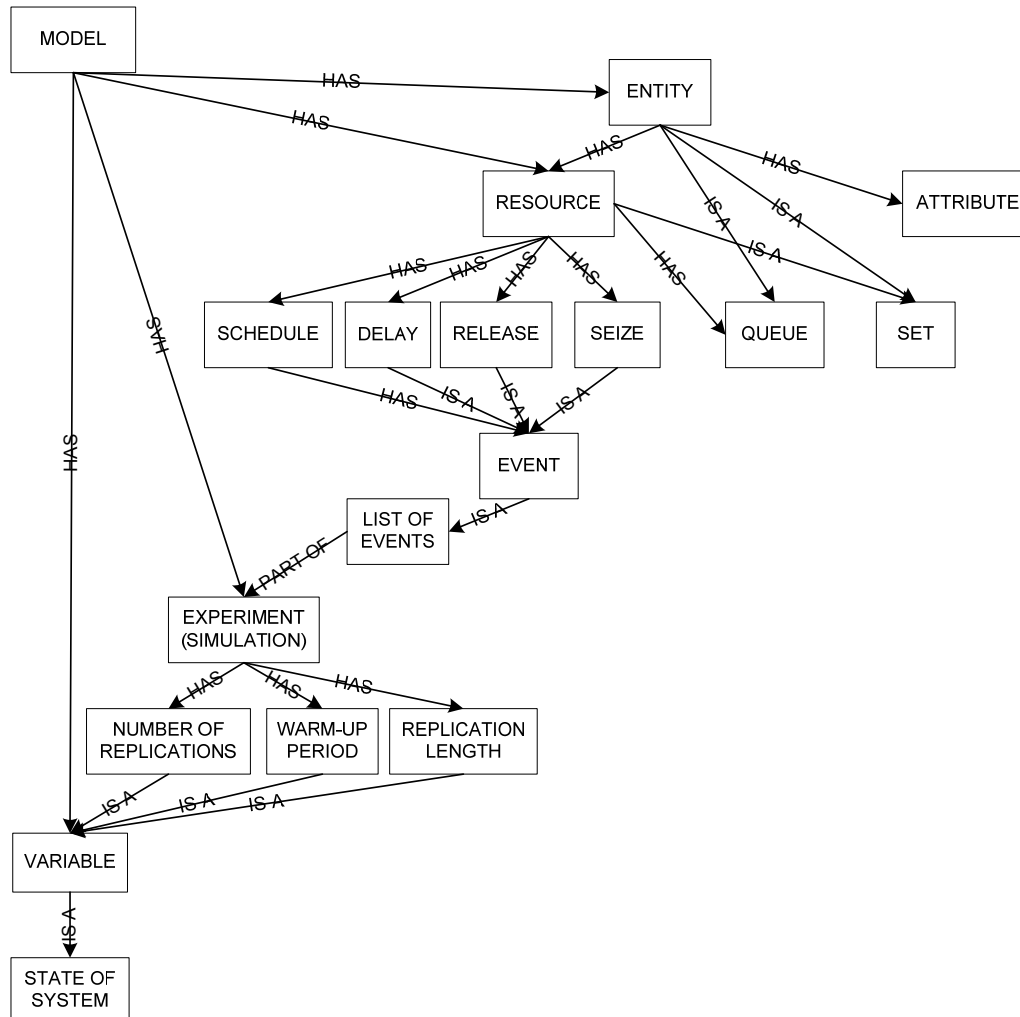


Simulation semantic network



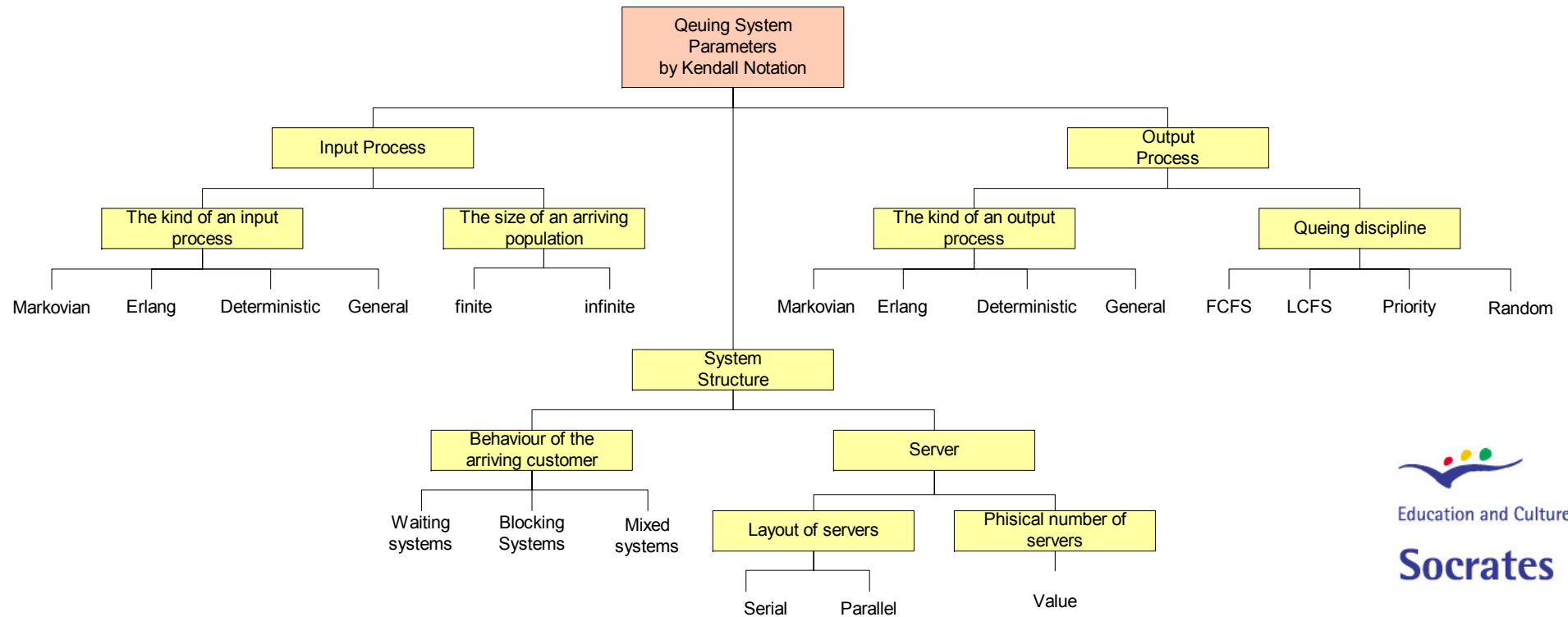


Simulation semantic network



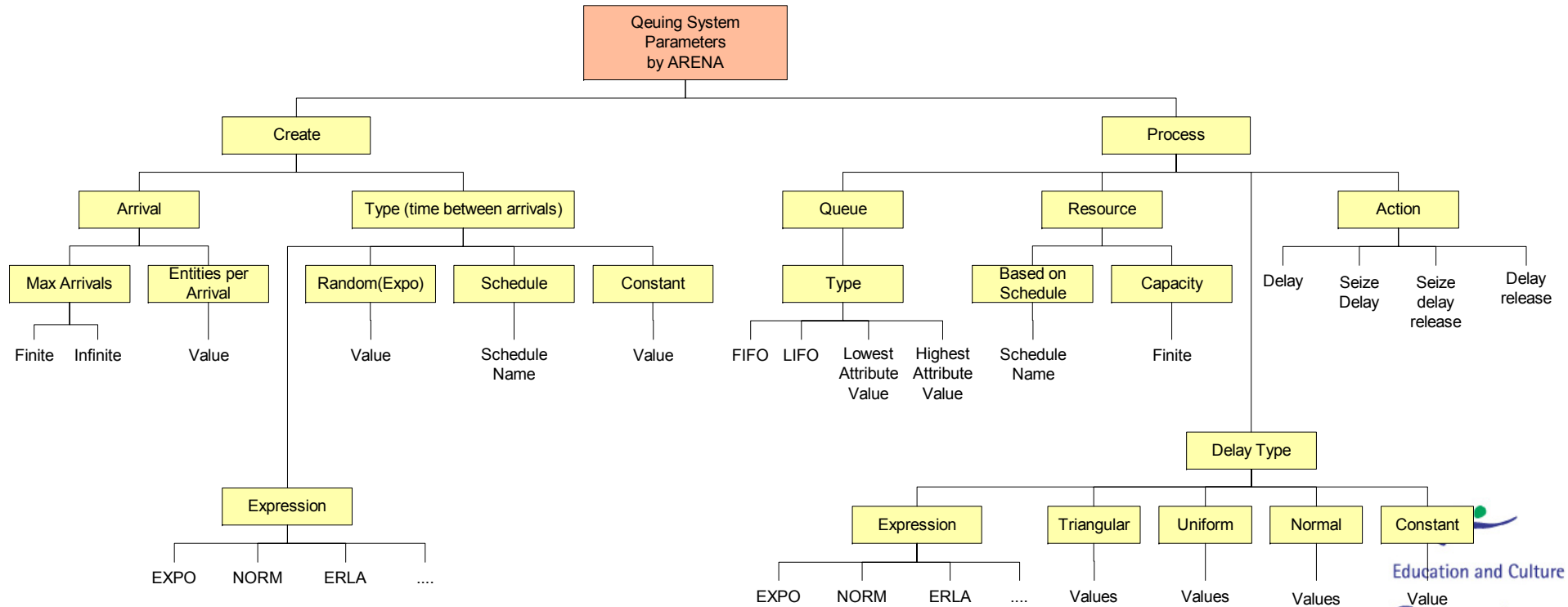


Queuing systems hierarchy





Simulation hierarchy





Concepts mapping

