

# From Patterns to Languages



#### Business Processes Modeling

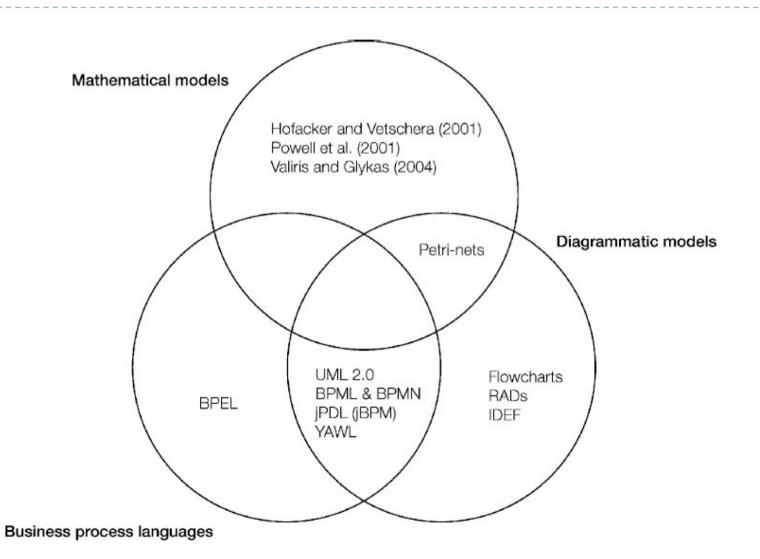
- Include modeling of activities and their casual and temporal relationships as well as specific business rules that process executions have to couple with.
- Deals with the activity of representing processes of an enterprise, so that the current process may be analyzed and improved
- This task takes place with the help of graphic notations more or less structured
- The used notation should be as comprehensible as possible for all involved parts

## Business Processes Modeling Techniques

- Graphical models involves business process models that sketch a business process using a visual diagram
  - Integrated DEFinition Method 3 (IDEF3)
  - Role Activity Diagram (RAD)
  - Resource-Event-Agent (REA)
  - Event driven process chains (EPC)
  - Unified Modeling Language 2.0 (UML) Activity Diagram (AD)
  - Business Process Modeling Notation (BPMN)
- Mathematical models corresponds to models in which all the elements have a mathematical or a formal underpinning
  - Petri Nets
  - YAWL
  - Process Algebra
  - Automata
- **Script base model -** contains software-based languages that support business process modeling and most of the times process execution
  - Business Process Execution Language (BPEL)
  - RosettaNet
  - ebXML
  - XPDL
  - BP4PEOPLE



#### Classification





### Languages

- Business Process Modeling Notation
- Event Driven Process Chain
- Petri Nets
- Workflow Nets
- YAWL