## FUNC BPML

Functional Business Process Modelling Language



## What is Func BPML?

**FUNC BPML** is a functional modelling language to textually **model**, **transform** and **quality assure** business processes in Business-Driven Development

We developed **FUNC BPML**, a functional domain specific language embedded in Haskell, with which:

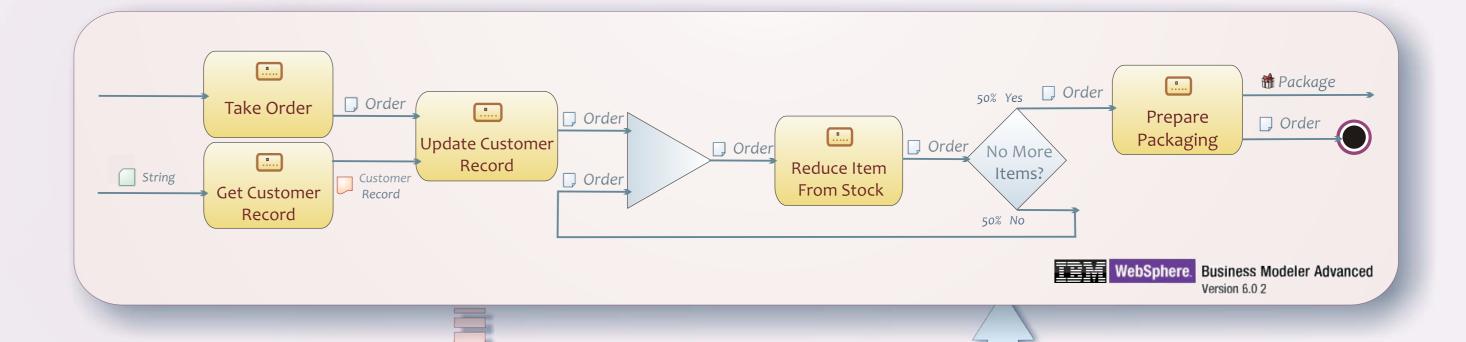
- Models can rapidly be produced in a concise and abstract manner
- Modellers unfamiliar with Haskell can easily grasp the concepts
- Enables focus on the *specifications* rather than the implementation
  - Ensures that all the required details, to generate the executable code, are specified
- Models can be transformed, analyzed and interpreted in various ways
- Quality assures models by carrying out 3 checks:
  - by Haskell's type checker
  - at construction-time
  - by functions that analyze the soundness of models

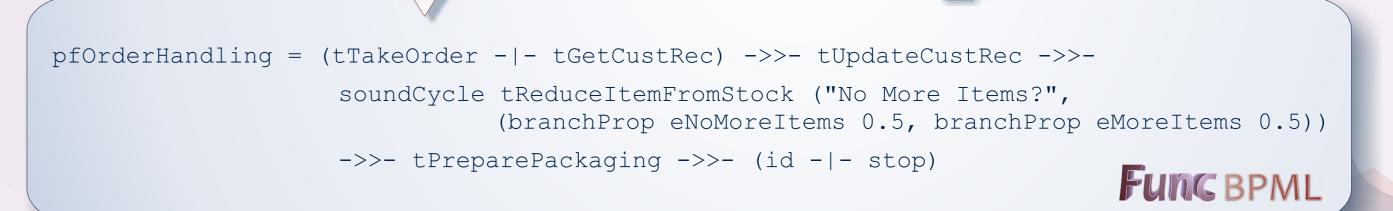
Enables users to define quality assured composite model transformations

**FUNC BPML** captures the domain semantics of IBM's WebSphere Business Modeler Advanced v6.0.2

## Business-Driven Development

Business process models are produced by business analysts to graphically *communicate* the business requirements. In *Business - Driven Development*, the IT solution is *directly derived* from these models





## Strengths of Func BPML

- Programmatically construct complex, yet regular models, concisely
- Provides safe patterns and models to rapidly and safely construct complex models
- Supports user-defined quality assurance checks
- Supports user-defined model transformations
  - Supports user-defined sequential, branching and iterative composite quality assured model transformations



An Embedded Domain Specific Language to *Model*, *Transform* and *Quality Assure*Business Processes in Business-Driven Development

