

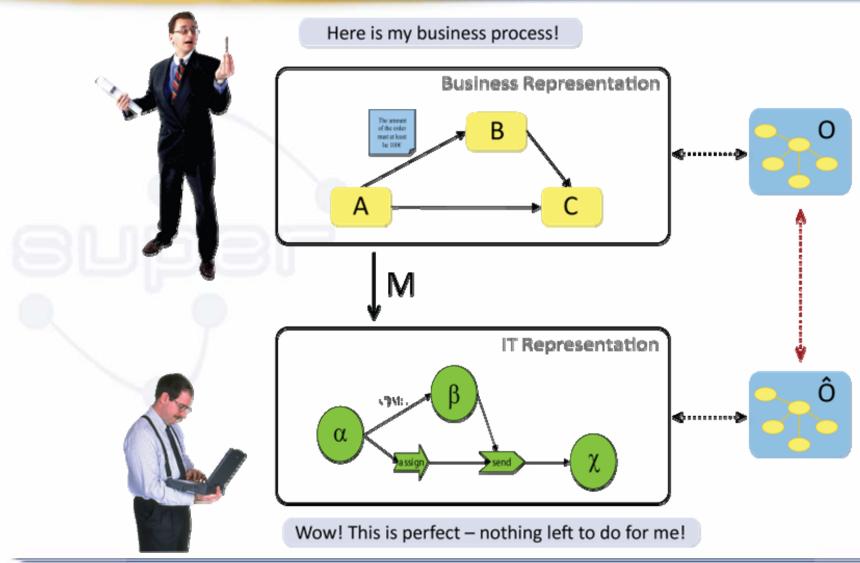
Organization Structure
Description for the
Needs of Semantic
Business Process
Management

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Introduction to SBPM





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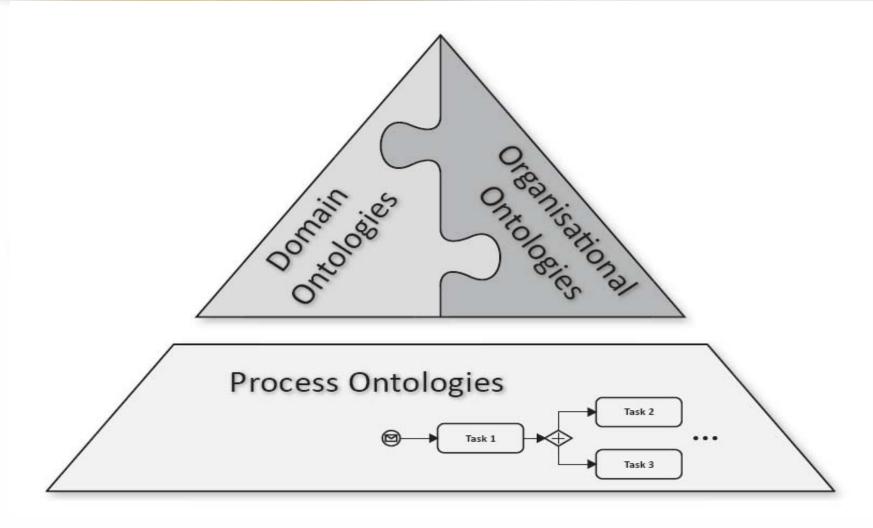


Business Process as Organisational Activity

- Business process a set of related, ordered activities that contribute to the production of good(s) or the delivery of some service
 - emphasises how the work is done within an organization and by its organization members
- Organization context
 - used resources,
 - ▶ strategies,
 - enterprise structure
 - ▶ roles
 - **▶** functions



Business Process as Organisational Activity







Organisational Ontologies

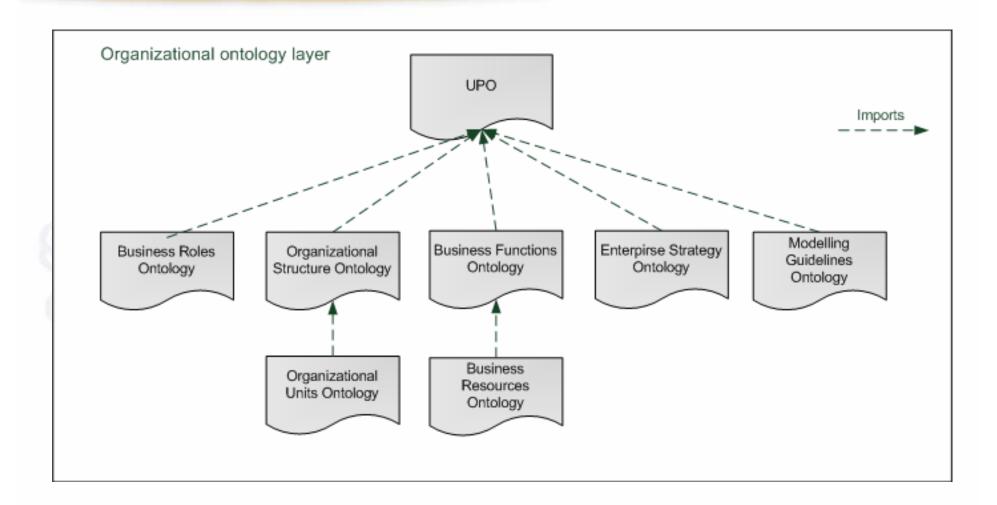
Business Functions

- vocabulary for describing the hierarchy of different functions like, Marketing, Finance, Human Resources
- Business Roles
 - ▶ representing roles in the organisation like, Designer, Process Modeller, Manager
- Organizational Structure and Organisational Units Ontologies
 - presenting detailed view on the organisational structure
- Process Resources
 - describing resources (physical or not) that are required for carrying out processes
- Enterprise Strategy
 - strategy, targeted markets, beneficiaries of the company and external aspects that influence the processes carried out in a company
- Modelling Guidelines
 - used to describe policies and rules that should be taken into account during process modelling





Organisational Ontologies (2)

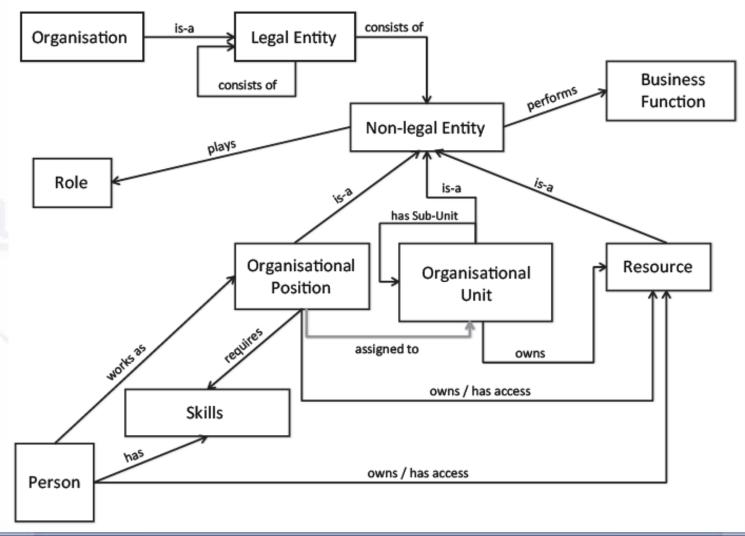




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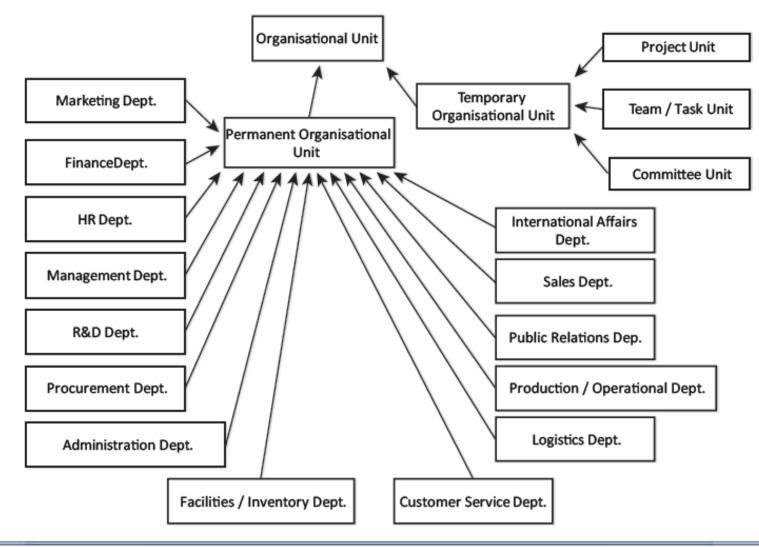
Organisational Structure Ontology







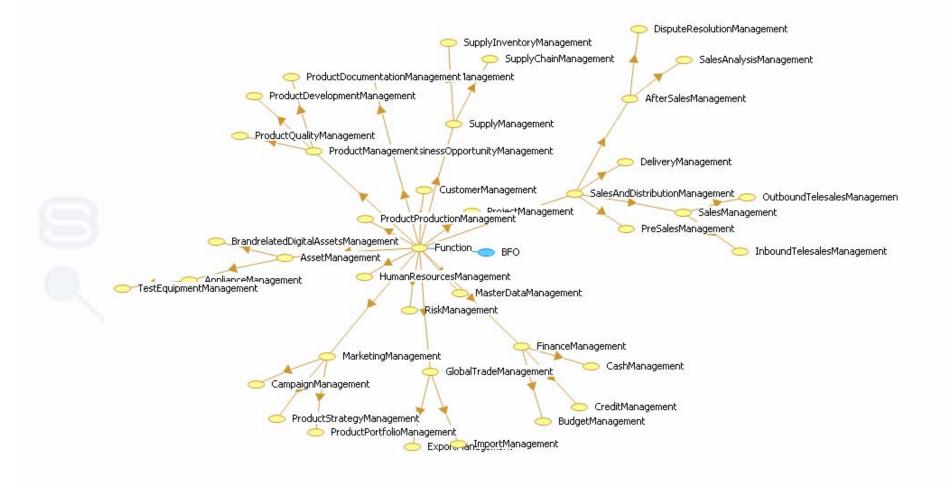
Organisational Units Ontology







Business Functions Ontology

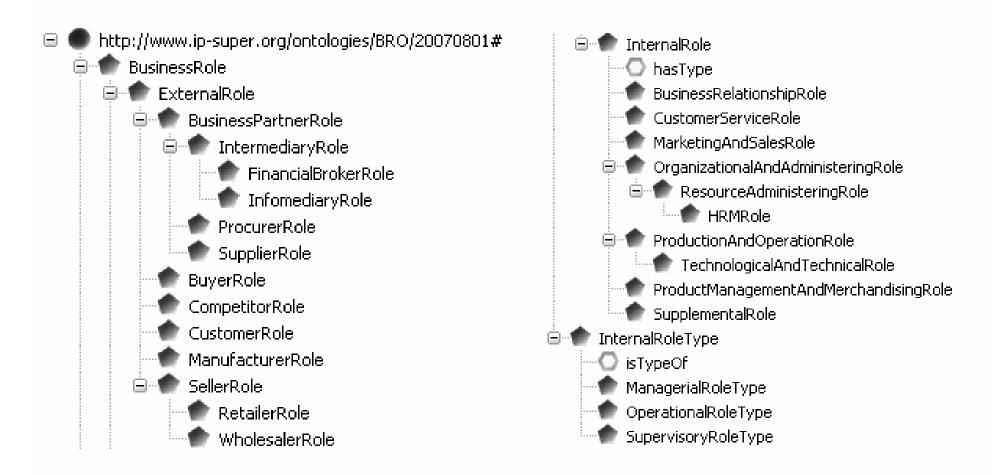




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Business Roles Ontology







Example

```
instance SupplyDistributingRole memberOf bro#SupplementalRole
instance DeliveryMan memberOf oso#OrganizationalPosition
  playsRole hasValue {SupplyDistributingRole}
  assignedTo hasValue {ouo#LogisticsDepartment}
instance MrC memberOf oso#Person
  worksAs hasValue {DeliveryMan}
```

instance NotificationOfDemand memberOf sbpmn#ManualTask
...
hasPerformer hasValue MrsA
...
instance PaperReservation memberOf sbpmn#ManualTask
...
hasPerformer hasValue MrB
...
instance PaperDelivery memberOf sbpmn#ManualTask
...
hasPerformer hasValue MrC
...
Paper reservation
Paper delivery



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Conclusions and Future Work

- Categorization of process models and fragments
- Clear and informed assignment of roles, tasks, and responsibilities
- Supported by automated processing and reasoning
- New possibilities for querying the process space before or after process execution
 - who is responsible for what? Who is doing what? what are the roles/functions associated with specific tasks?
 - which organizational units are responsible for carrying out given functions?
 - which organizational units are participating in a given process?
 - which processes will be affected by changes in the organisation?
- Future work will be devoted to
 - ► Aligning the ontologies with the foundational ontology in SUPER (UPO)
 - ► Integrating the ontologies with the Business Process Analysis layer in SUPER (COBRA, EVO)



Semantics Utilised for Process Management within and between Enterprises



Thanks!