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# Business Process Engineering (BPE)

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# Process Modelling

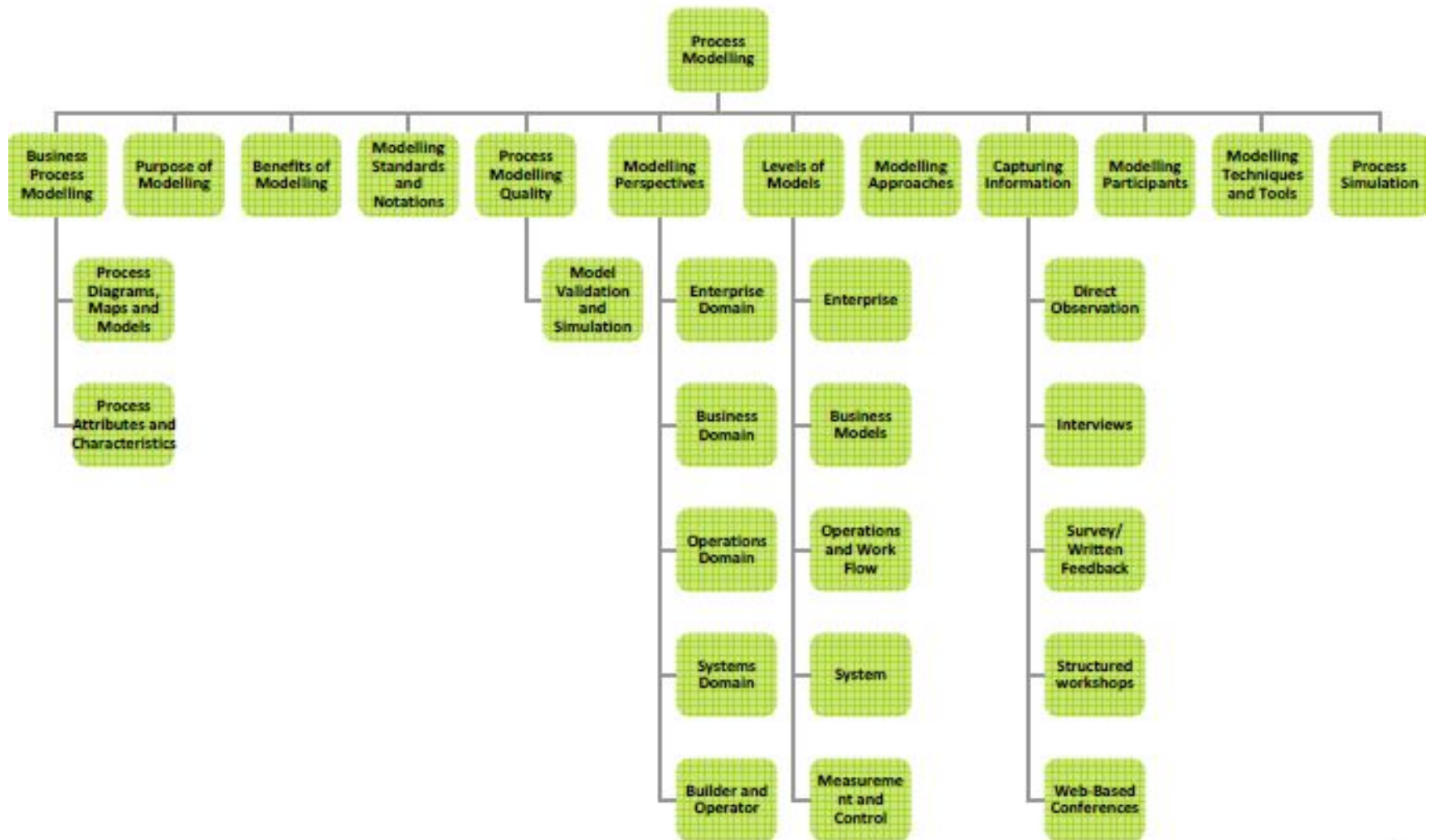
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# Process Modelling

- Set of activities involved in creating representations of business process
    - existing (as-is) or
    - proposed (to-be)
  - Provides an end-to-end perspective of an organisations primary, supporting and management processes
  - Modelling is a means to an end and not an end in itself
    - You model to get results and reach conclusions
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# Process Modelling



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# Process Diagrams

- Process diagram often depicts simple notation of the basic workflow of a process
  - Depicts the major elements of a process flow, but omits the minor details which are not necessary for understanding the overall flow of work
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# Process Maps

- More precision than a diagram
  - More detail about process and important relationships to other elements such as performers (actors), events, results
  - Provide a comprehensive view of all of the major components of the process
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# Process Models

- Represents the performance of what is being modelled
  - Needs greater precision, data about the process and about the factors that affect its performance
  - Often done using tools that provide simulation and reporting capability to analyse and understand the process
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# Process Attributes and Characteristics

- describe the properties, behaviour, purpose and other elements of the process
  - are captured in a tool in order to organise, analyse and manage an organisation's portfolio of processes
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# Process Attributes and Characteristics

## ■ Examples:

- ❑ Inputs/Outputs,
- ❑ Events/Results,
- ❑ Value Add,
- ❑ Roles/Organisations,
- ❑ Data/Information,
- ❑ Probabilities,
- ❑ Queuing,
- ❑ Transmission Time,
- ❑ Wait Time,
- ❑ Arrival
- Patterns/Distributions,
- ❑ Costs (indirect and direct),
- ❑ Entry Rules,
- ❑ Exit Rules,
- ❑ Branching Rules,
- ❑ Join Rules,
- ❑ Work/Handling Time,
- ❑ Batching,
- ❑ Servers (number of people available to perform tasks)

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# Purpose of Process Modelling (1)

- A model is rarely a complete and full representation of the actual process
  - Objective is to create a representation of the process that describes it accurately and sufficiently for the task at hand
  - Models are simplified representations that facilitate understanding of that which is being studied and making decisions about it
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# Purpose of Process Modelling (2)

- Focus on representing those attributes of the process that support continued analysis from one or more perspectives
  - Understanding the business process through the creation of the model
  - Creating a visible representation and establishing a commonly shared perspective
  - Process models are the primary means for
    - Measuring performance against standards
    - Determining opportunities for change
    - Expressing the desired end state preceding a change effort
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# Benefits of Modelling

- Models are relatively fast, easy and inexpensive to complete
  - Models are easy to understand (when compared to other forms of documentation)
  - Models provide a baseline for measurement
  - Models facilitate process simulation and impact analysis
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**End of Lecture**

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