Working Title:
Why is BPMN not enough for process maps?

Background:
Process map is an abstract visual representation of company's business processes. Process maps depict how all processes of one organization are related to each other. Beyond processes, typical concepts shown in a process map are process categories, inputs/outputs, actors, resources, etc. Business Process Model and Notation (BPMN) is becoming the standard for business process modeling. It has a very rich palette of symbols for fine-granular modeling of business processes. While BPMN is mostly used when modeling singular business processes, practitioners typically do not use this language when modeling their process maps. Instead, they use other tools (e.g. PowerPoint) not originally designed for process modeling purposes when undertaking this task.

Research problem:
Given a meta-model for process map design:
- Use the principles of the representation theory to demonstrate the cause of BPMN not being enough for the design of process maps. Evaluate BPMN in terms of:
  - Completeness: BPMN is complete, hence suitable for designing process maps, if and only if it contains all constructs that enable to depict all concepts that are shown in our extended process map meta-model.
  - Clarity: BPMN is clear if and only if each of its constructs has a one-to-one correspondence with one of the concepts shown in the extended process map meta-model.

Initial reading:

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