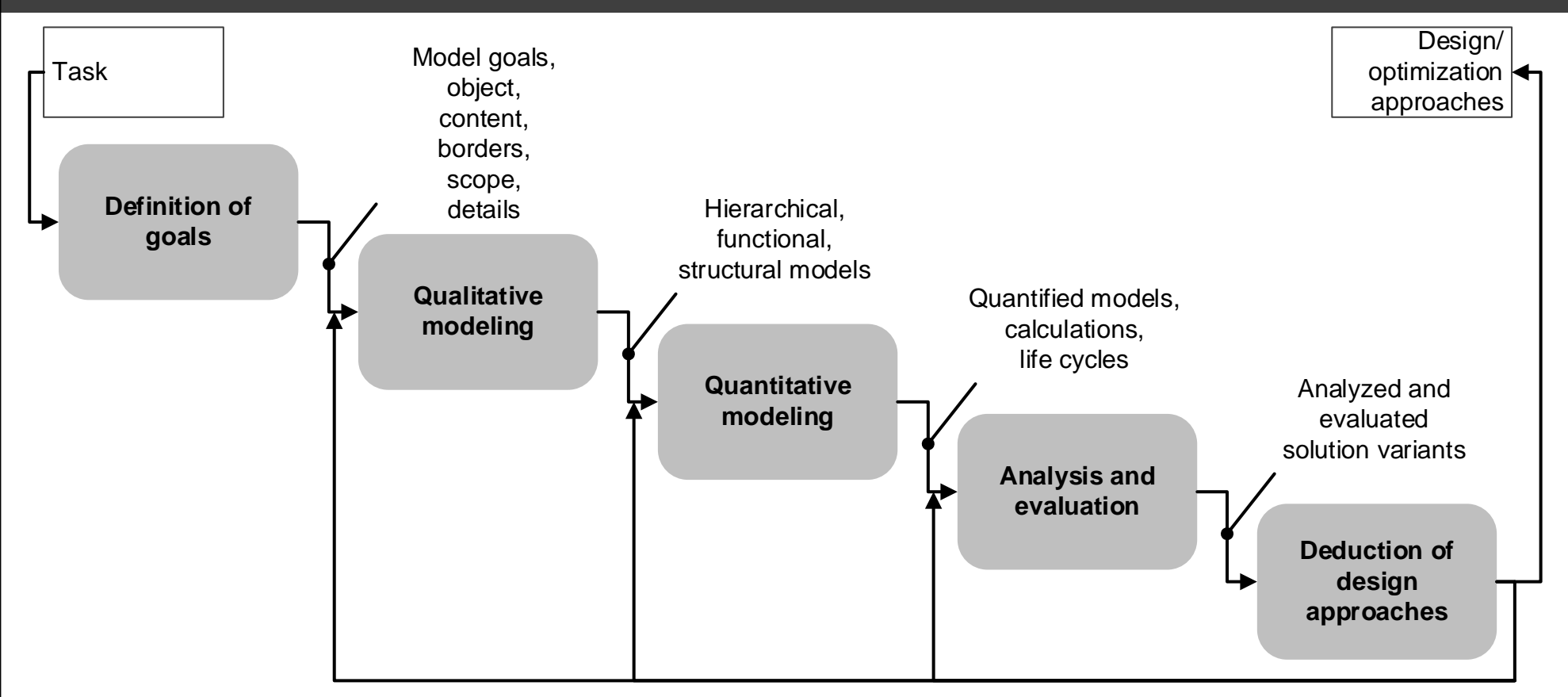


Reference Card FSM_{ER}

Procedure

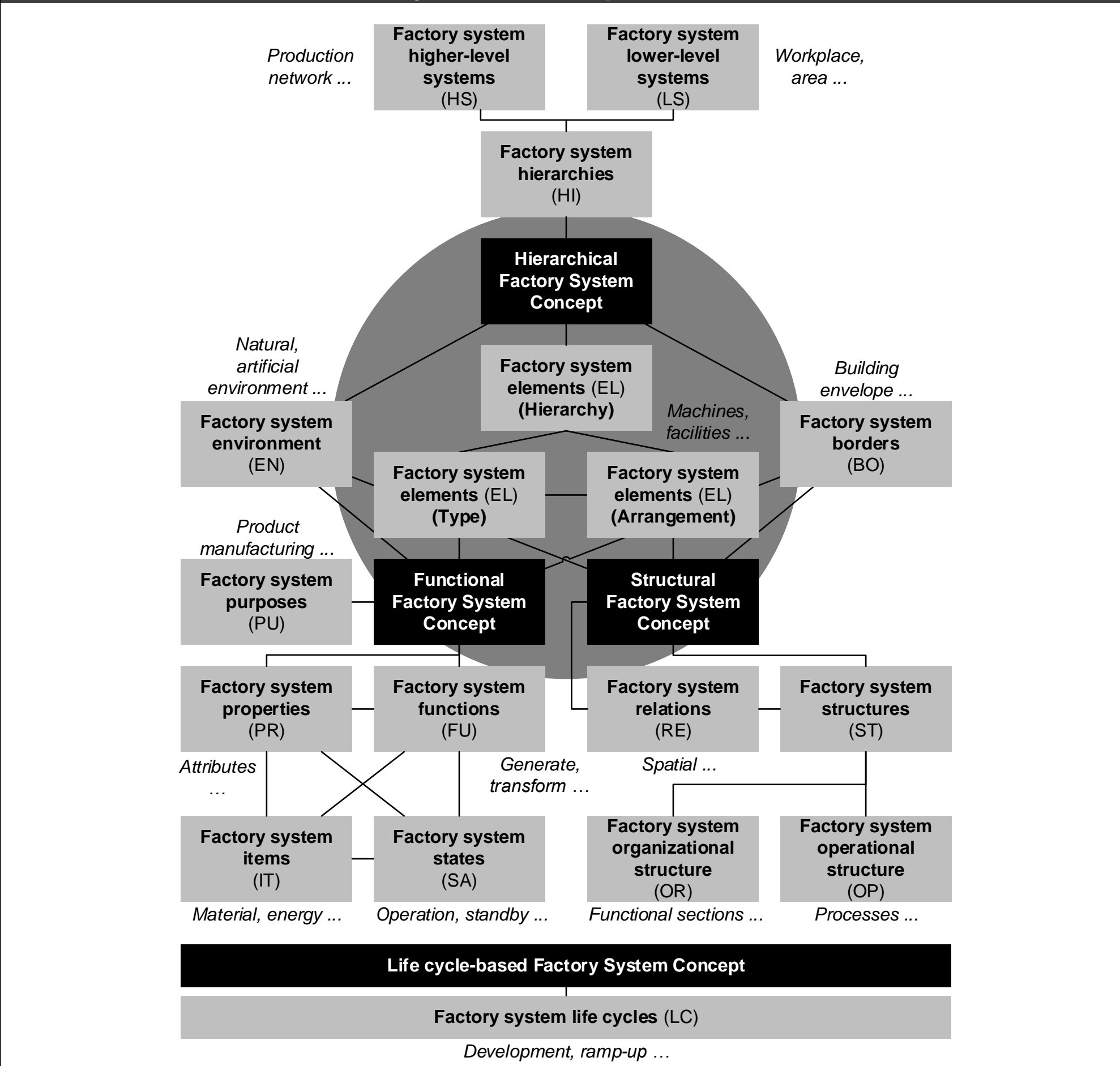


Step-by-step approach for modeling

The fundamental elements for modeling with FSM_{ER} are summarized in this reference card. It can be used to model factory systems and its components in a graphical form.

The underlying method FSM_{ER} aims at the holistic, methodical and model-based description, explanation and design of factory systems focusing on the objectives energy and resource efficiency.

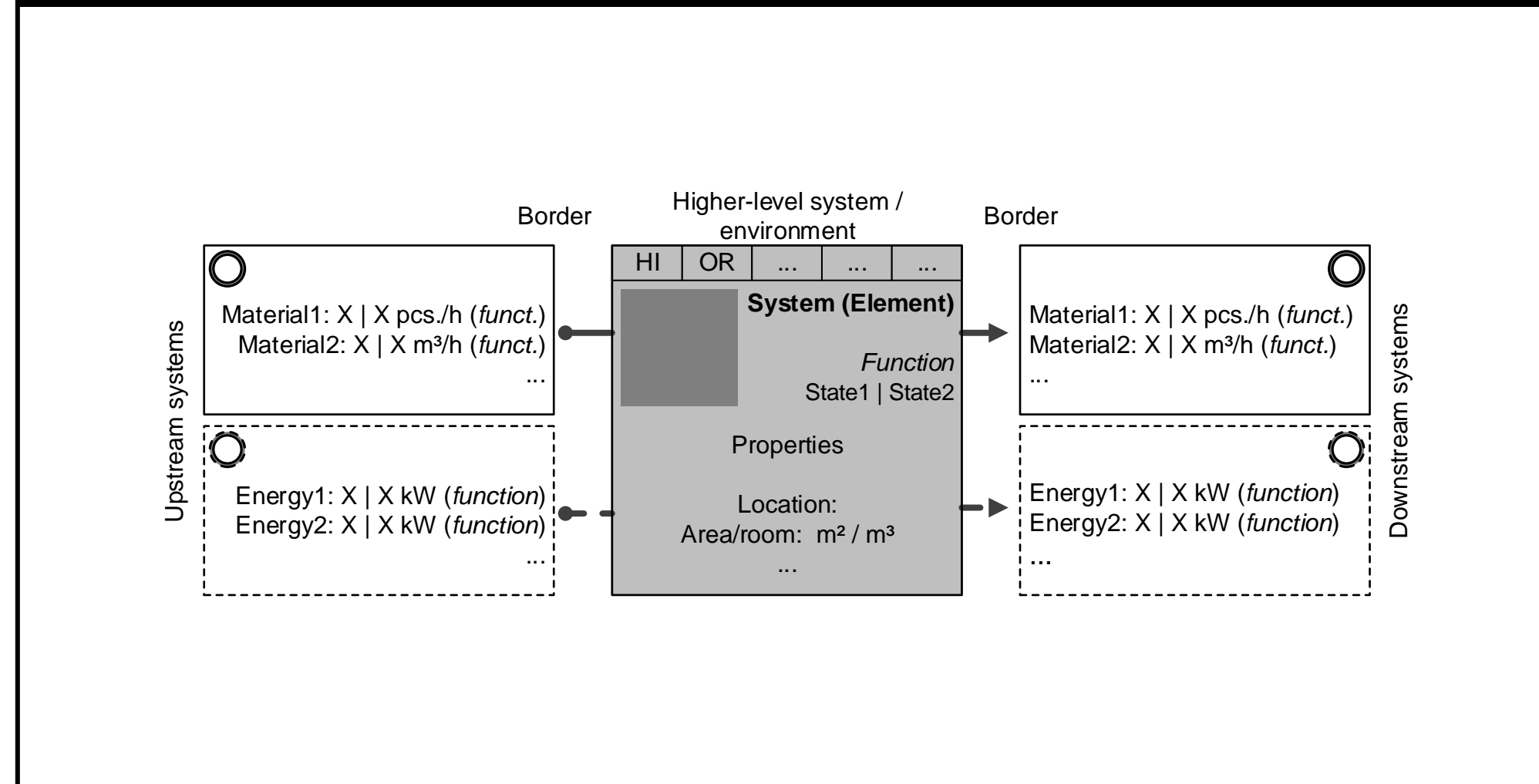
System components



Interrelated system concepts (views) and individual components of the system

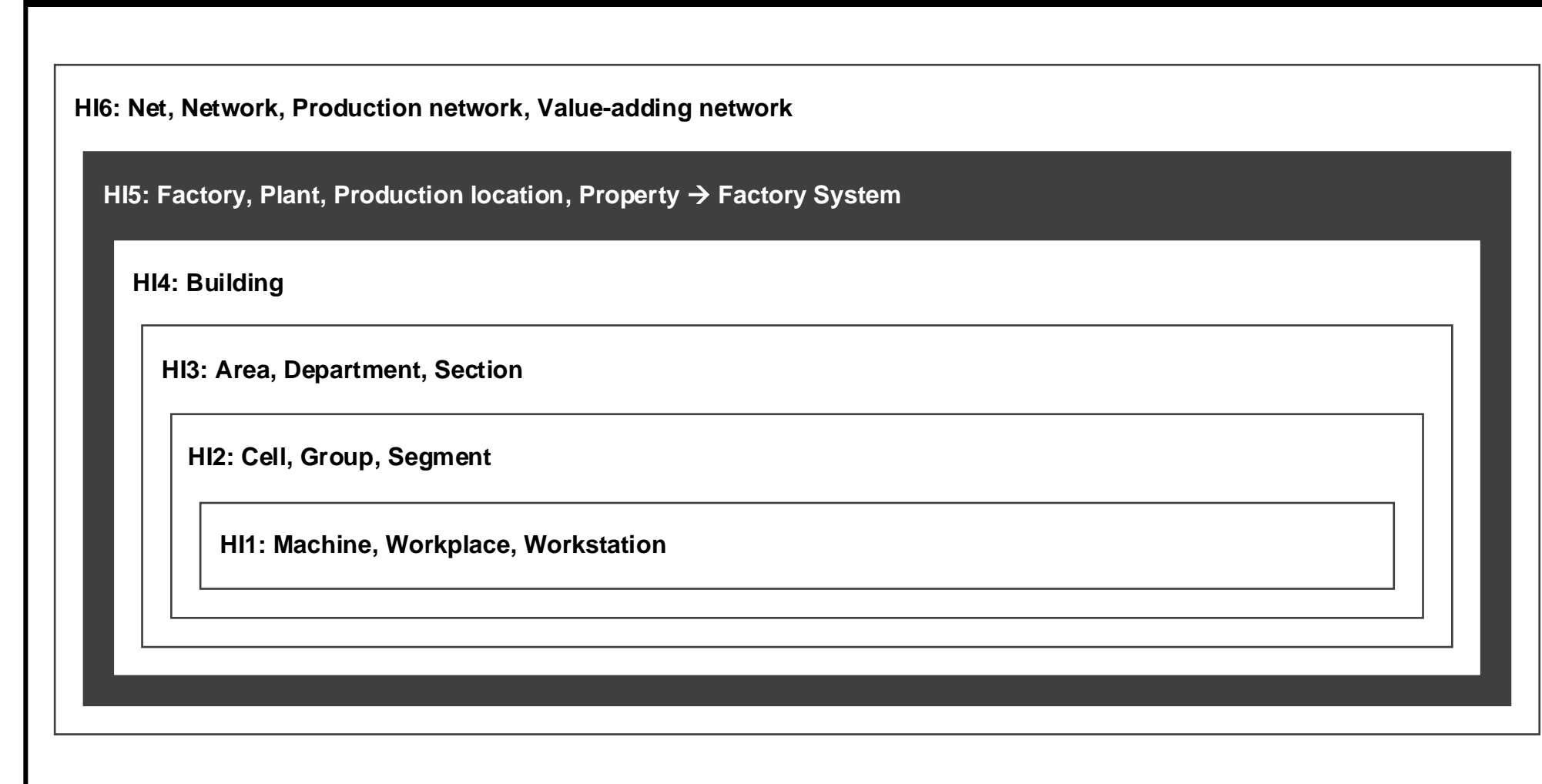
Relationship between a system (or process) and its environment

Functional model

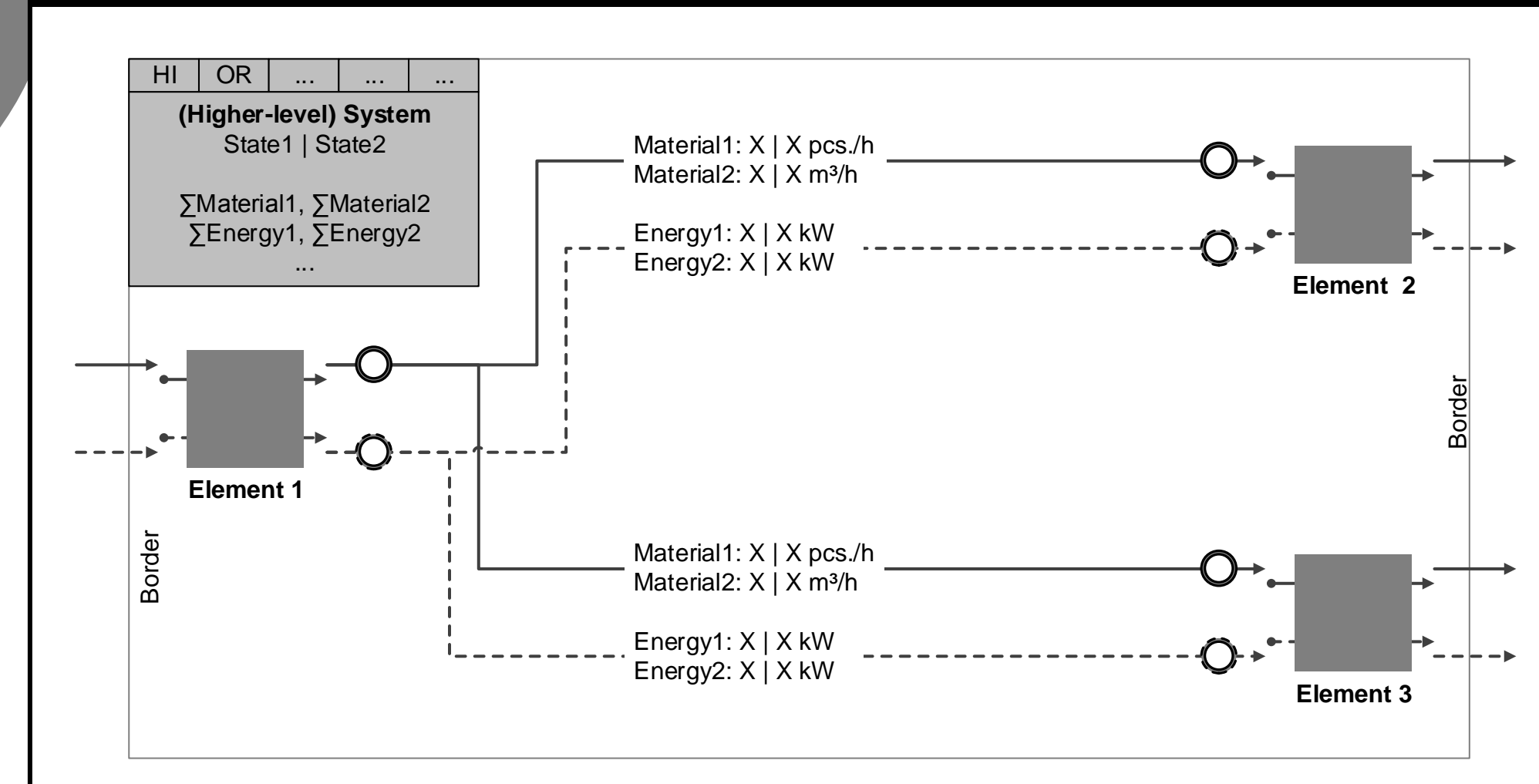


Integration of a system into higher-level systems and separation into lower-level systems

Hierarchical model

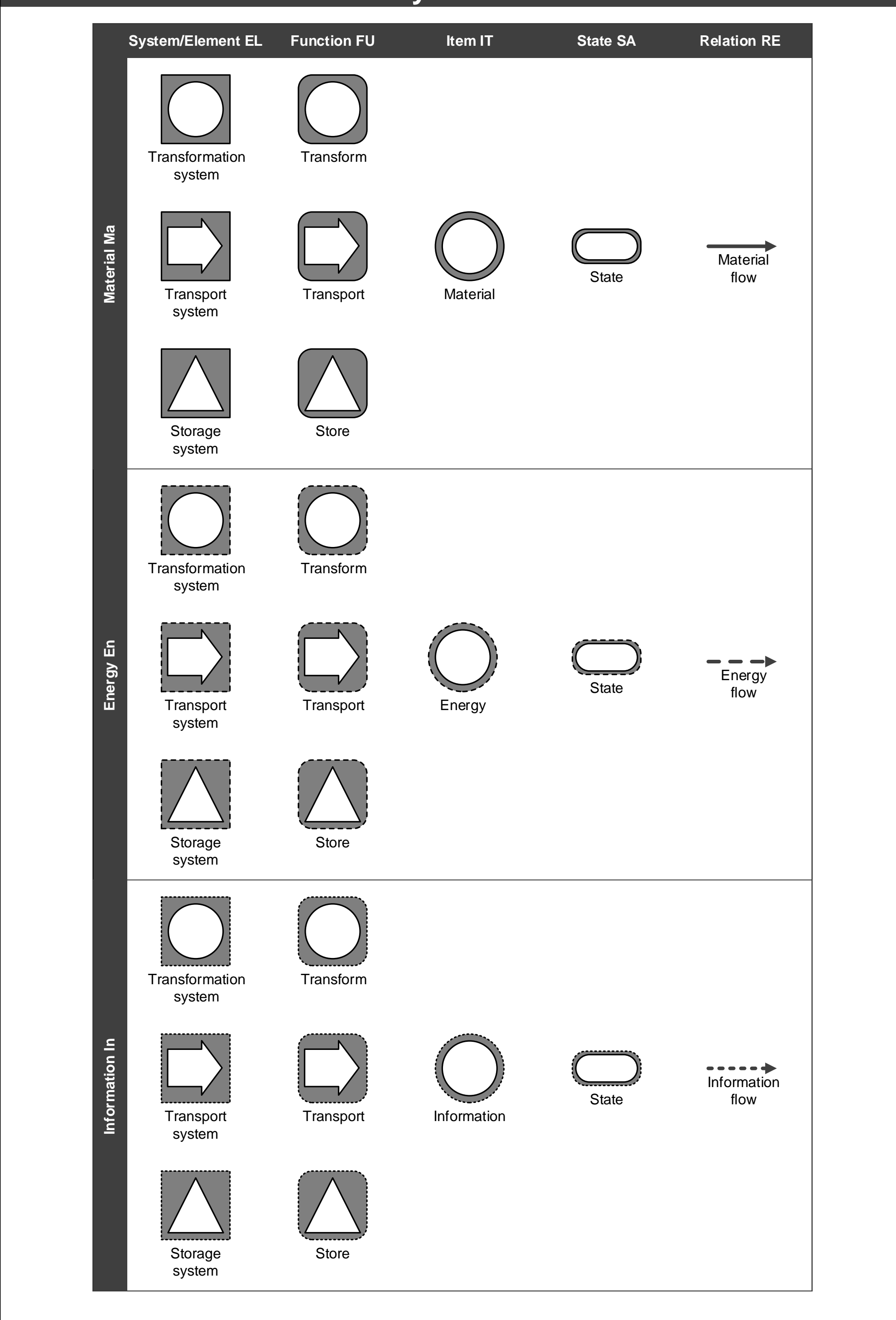


Structural model



Relationship between several systems or between elements of a system or between processes or process steps

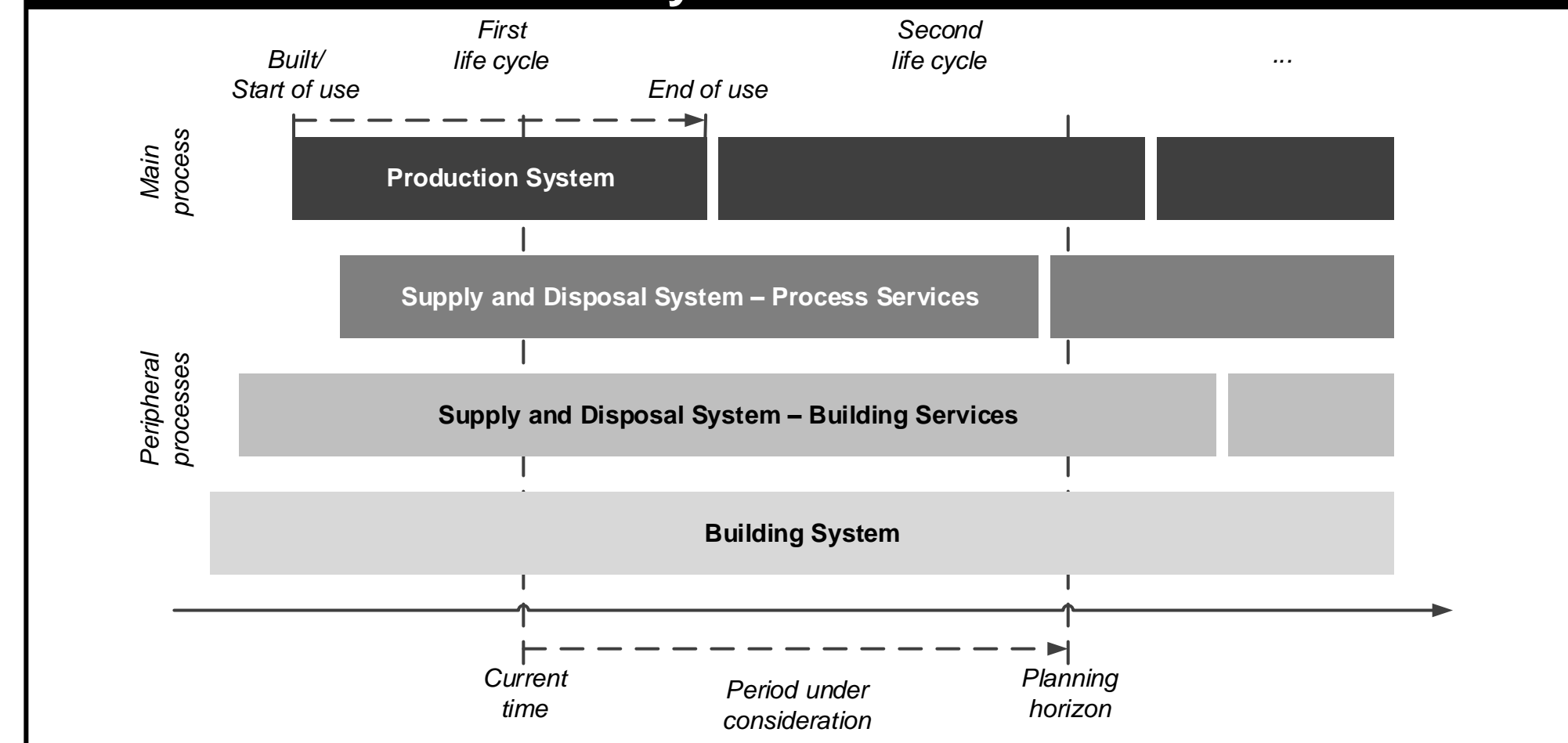
Symbols



Symbols specified by:

- exterior form
- exterior line (by item)
- interior symbol (by function)
- interior letter (by function)
- color (by item)

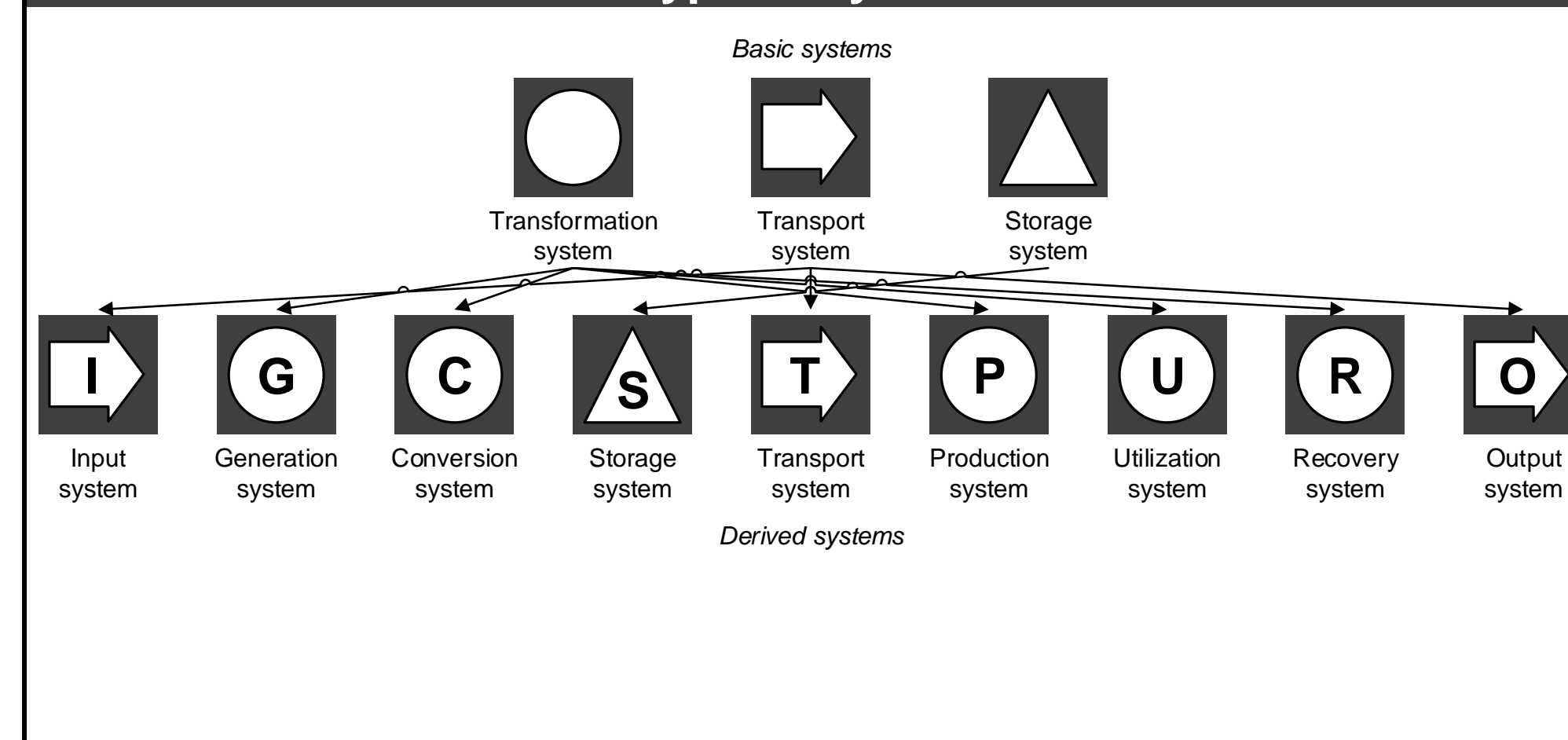
Life cycle-based model



Comparison of individual life cycles

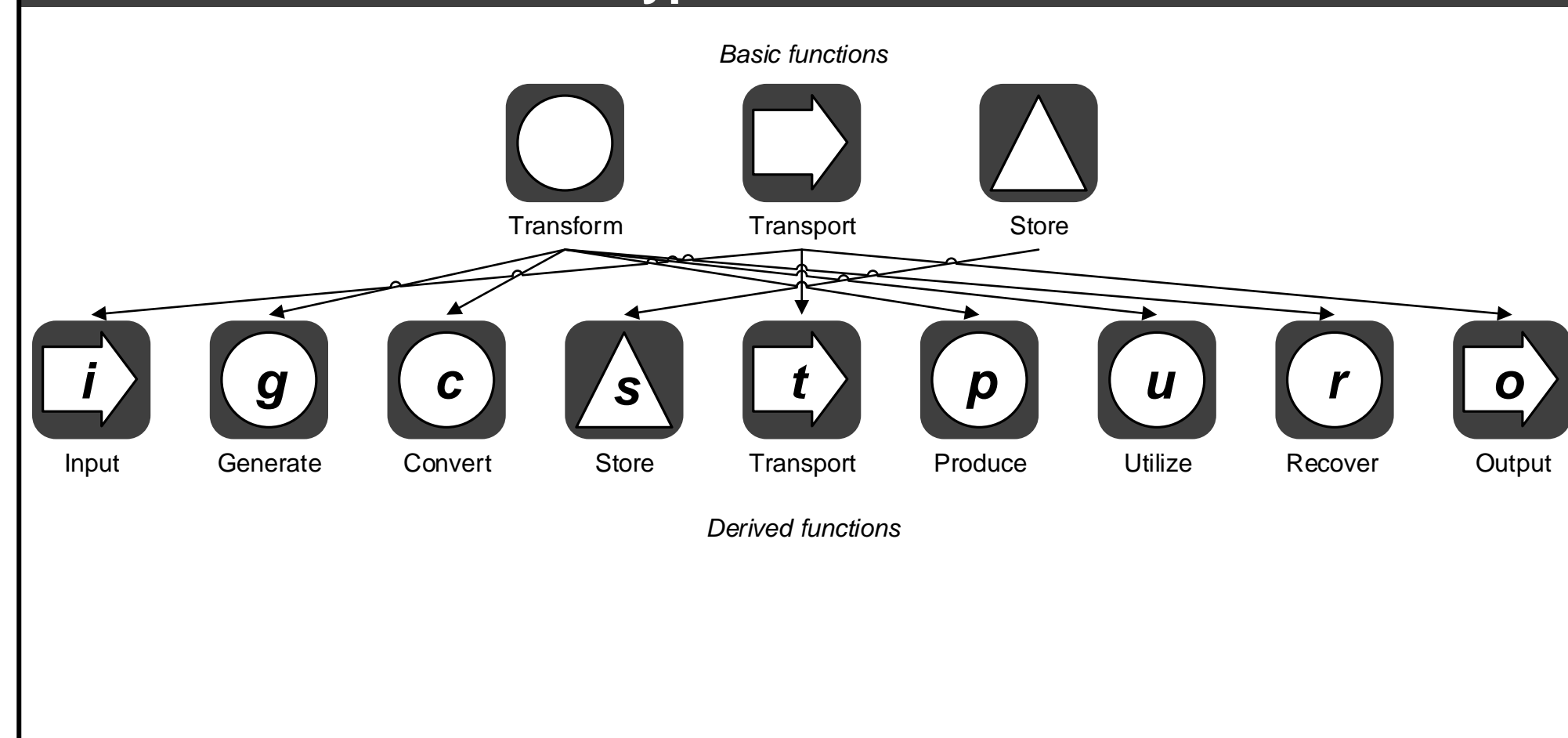
Type of system by primary purpose or function of a system

Type of system



Type of function or process

Type of function



Type of state by utilization of a system and its material/energy demand

Type of state

