

Modeling for Reliability Engineering

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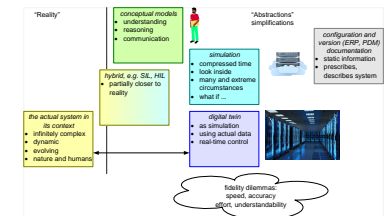
Abstract

Reliability engineering may gain from using executable models such as simulations. However, core in achieving reliability is understanding of the system, and its behavior in its actual context. This requires conceptual models complementing executable models.

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October 5, 2019
status: finished
version: 0

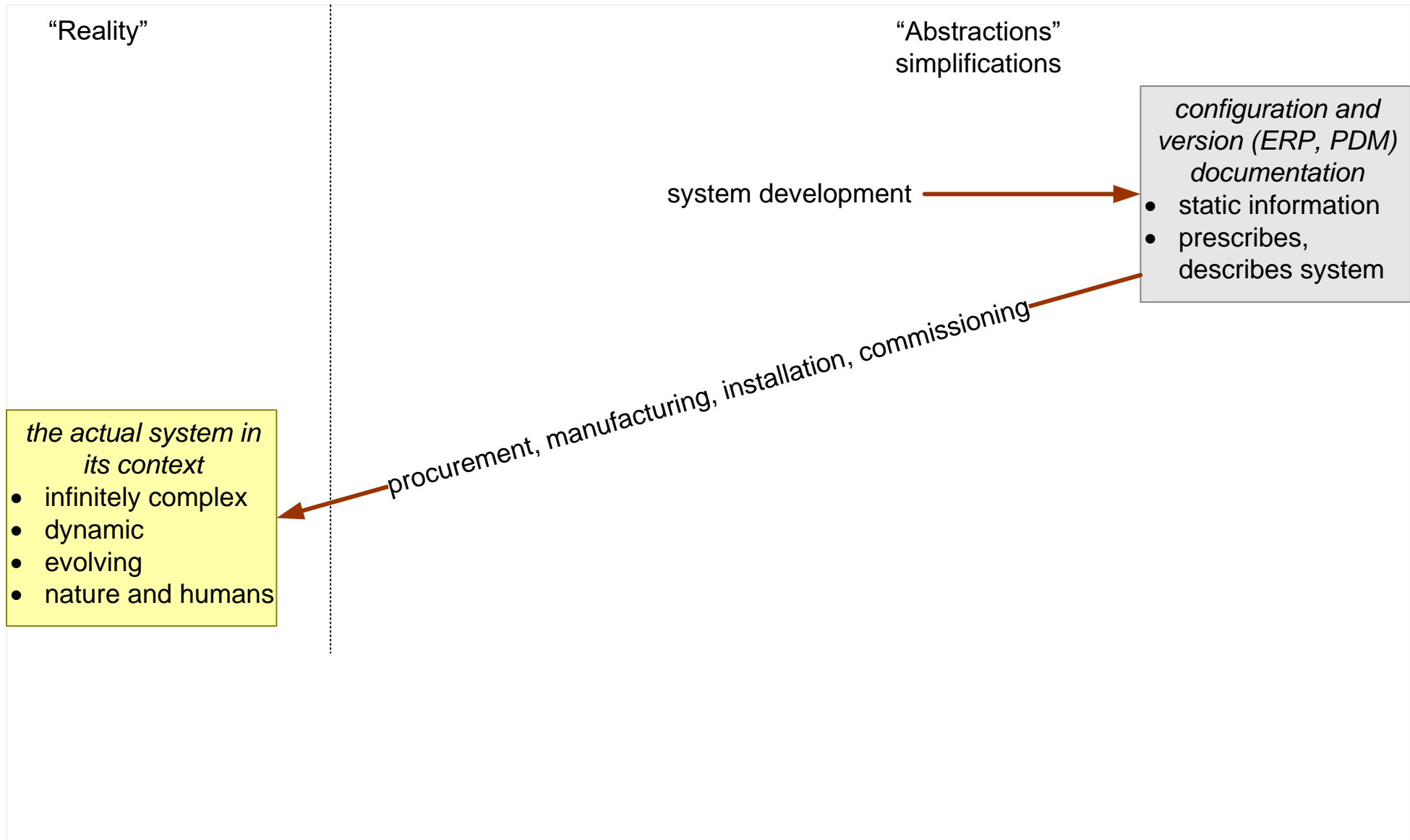


The system

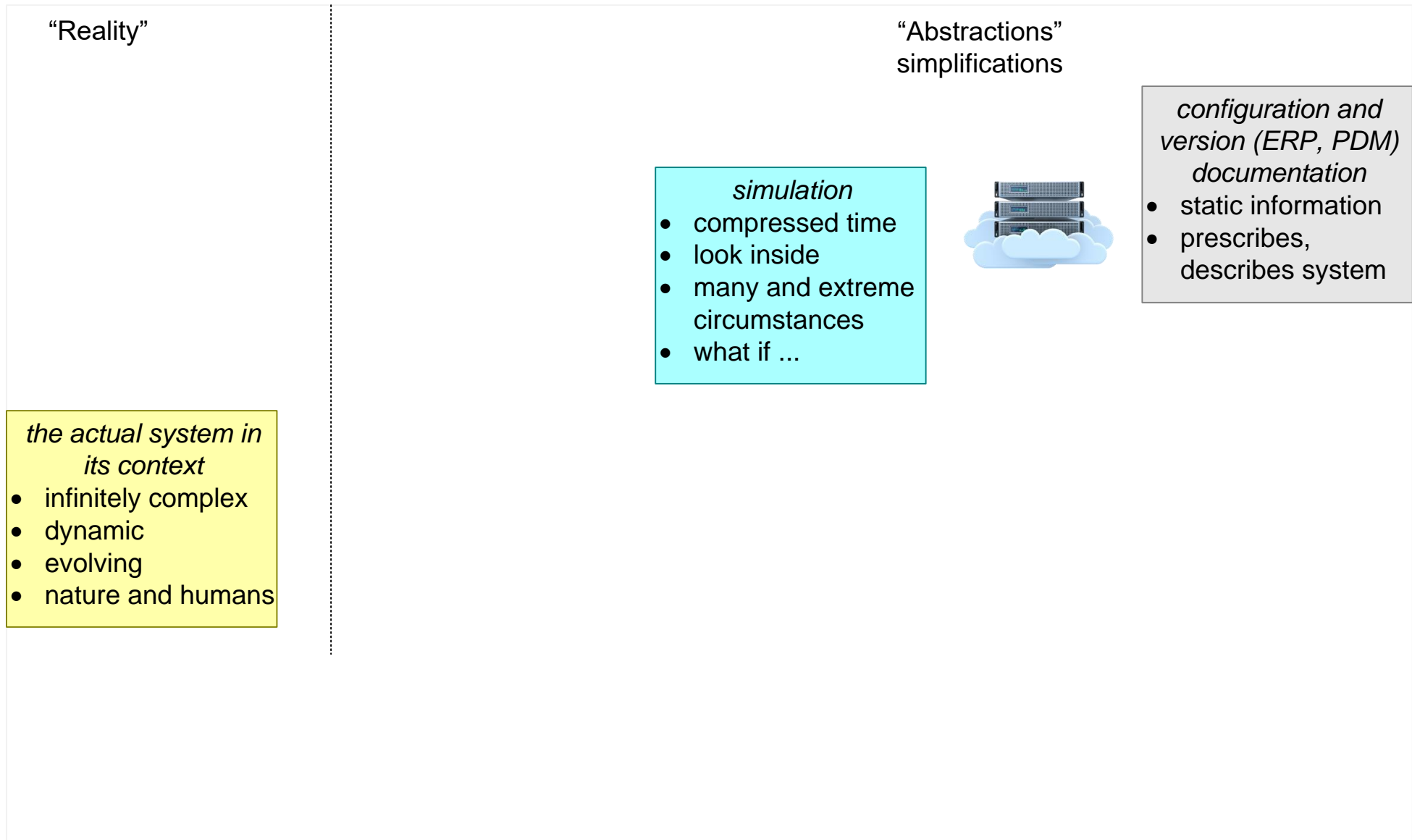
*the actual system in
its context*

- infinitely complex
- dynamic
- evolving
- nature and humans

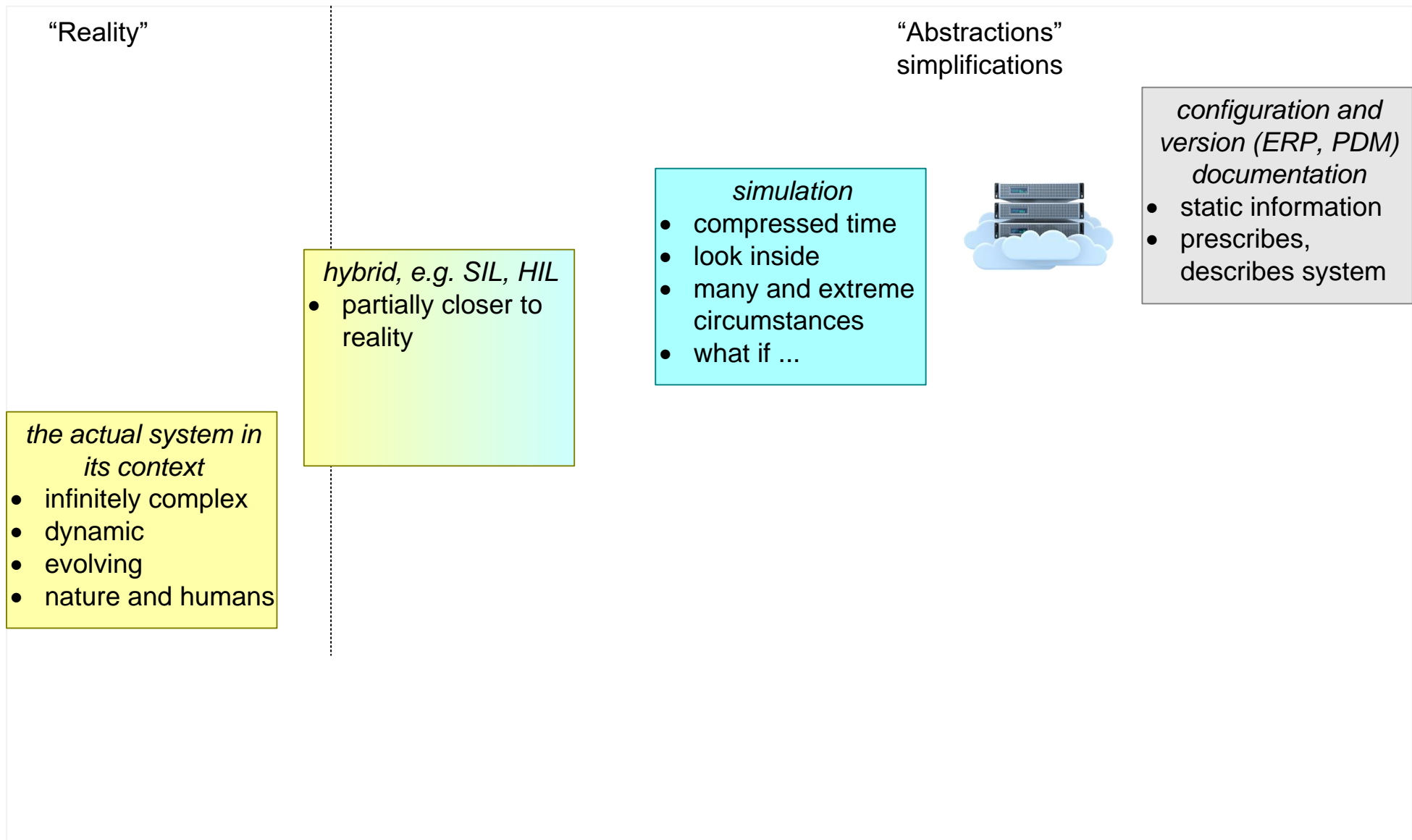
Developing, Building and Operating



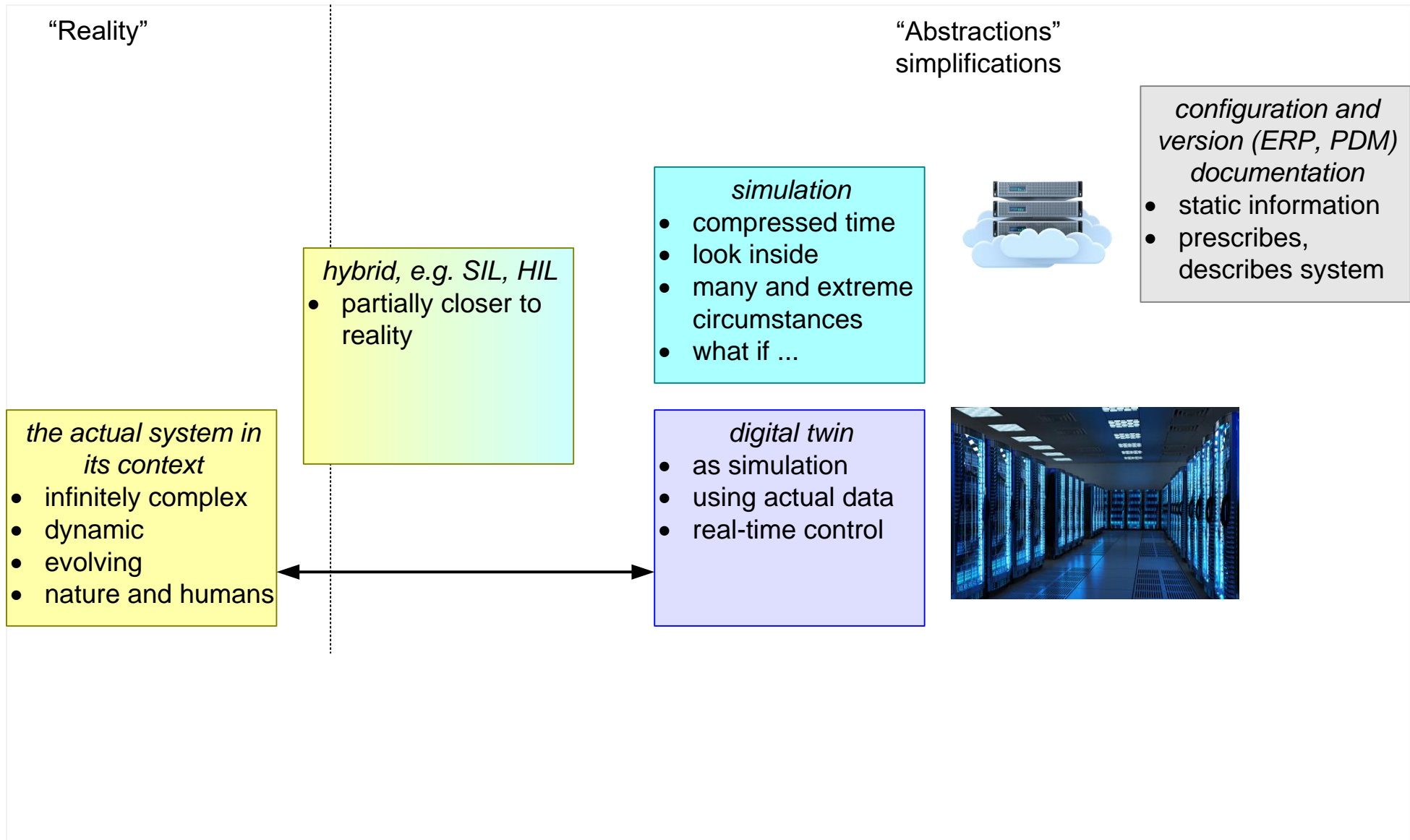
Simulating



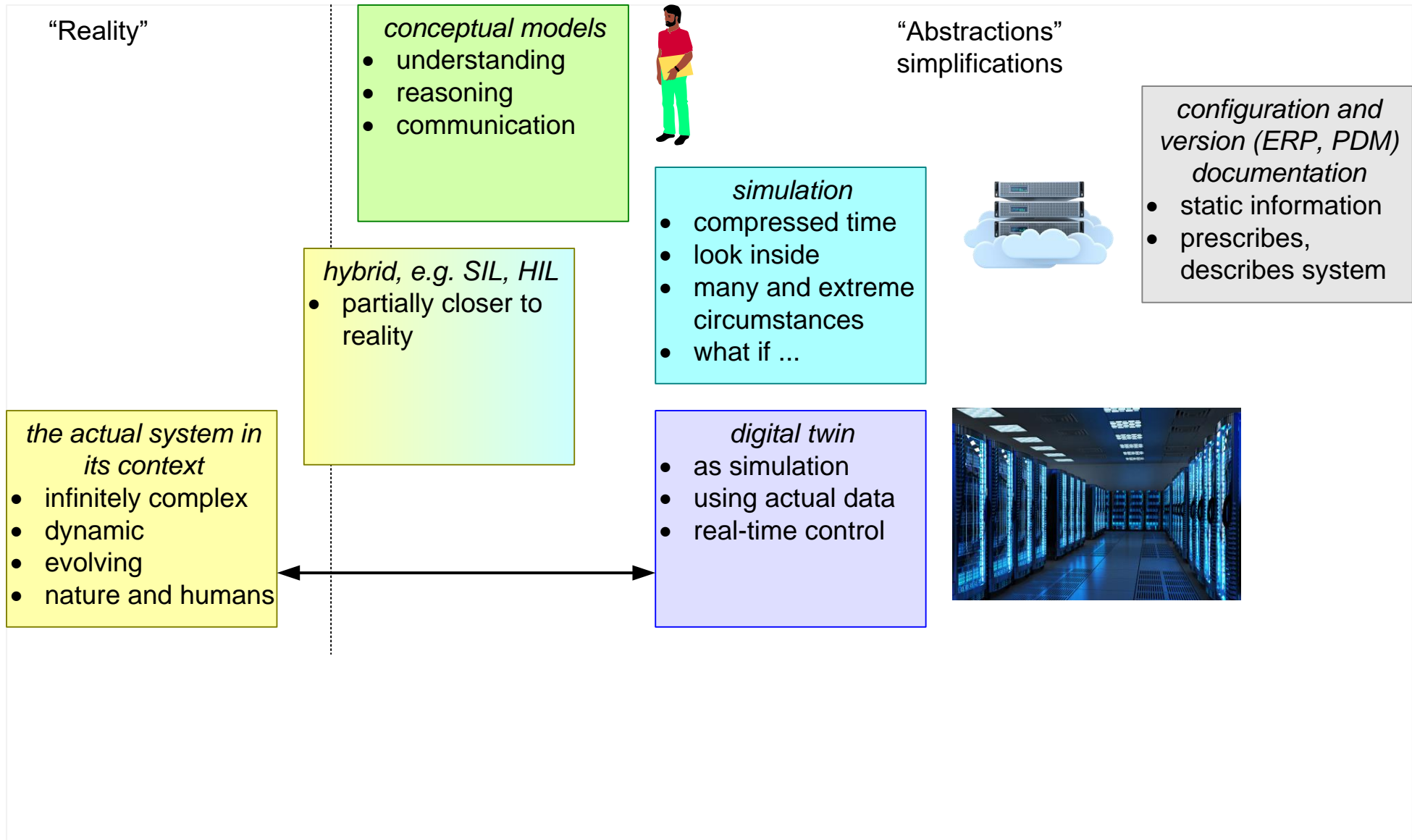
Hybrid simulators



Digital Twin



Conceptual Models



The Modeling Playing Field

