Modeling and Analysis: Applications and Variations

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Abstract

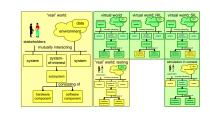
Models are used for a wide variation of purposes. Stakeholders can get confused between "reality" and the virtual counterparts. In practice, many hybrids between "real" and virtual systems exist. For example, planning and training systems using real algorithms and data, and physical systems using a world model for situation awareness.

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June 5, 2018 status: preliminary draft

version: 0.1



Model Applications and Variations

sales acquisition

capability analysis

Systems of Systems apply all asynchronously

development

verification validation

operation

understanding exploration optimization

test data comparison trouble shooting

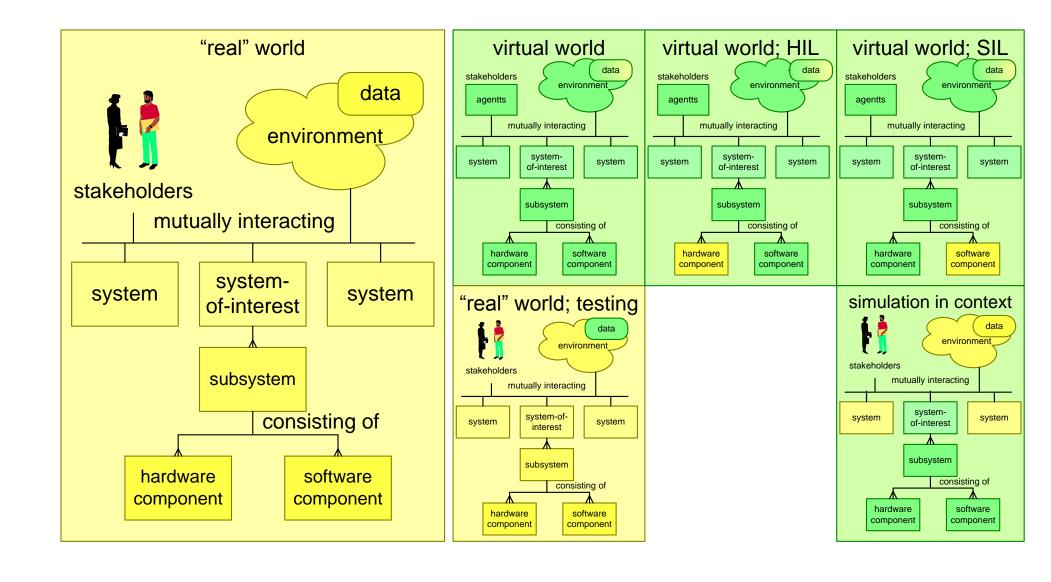
mission planning training health monitoring

in system situation awareness planning training health monitoring

evolvability all phases repeat with same needs



Spectrum from Real to Virtual Systems





Architecting for Variations

