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Integrating Requirements and Models at P&G

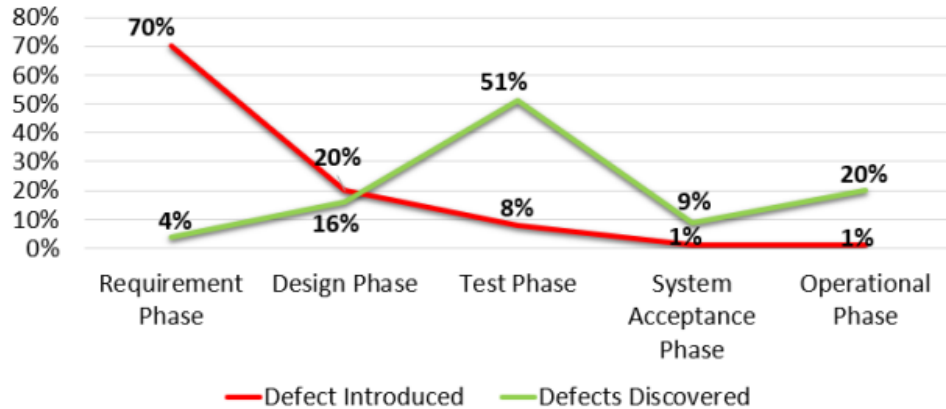
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Juan Llorens (TRC)

Monday, 28 January 2019

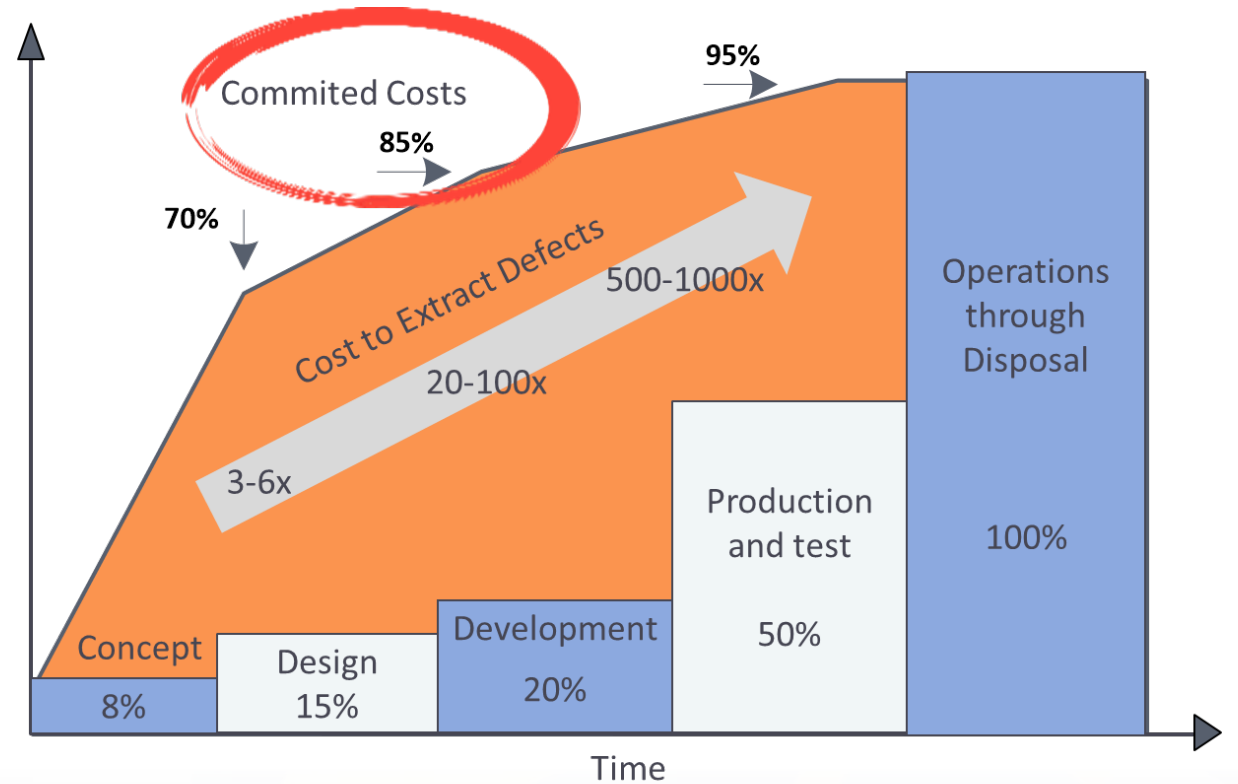
Motivation

REQUIREMENTS are the reason for FAILURE

When errors are introduced vs. when they are discovered during the system life cycle



Source: IBM Business research 2017

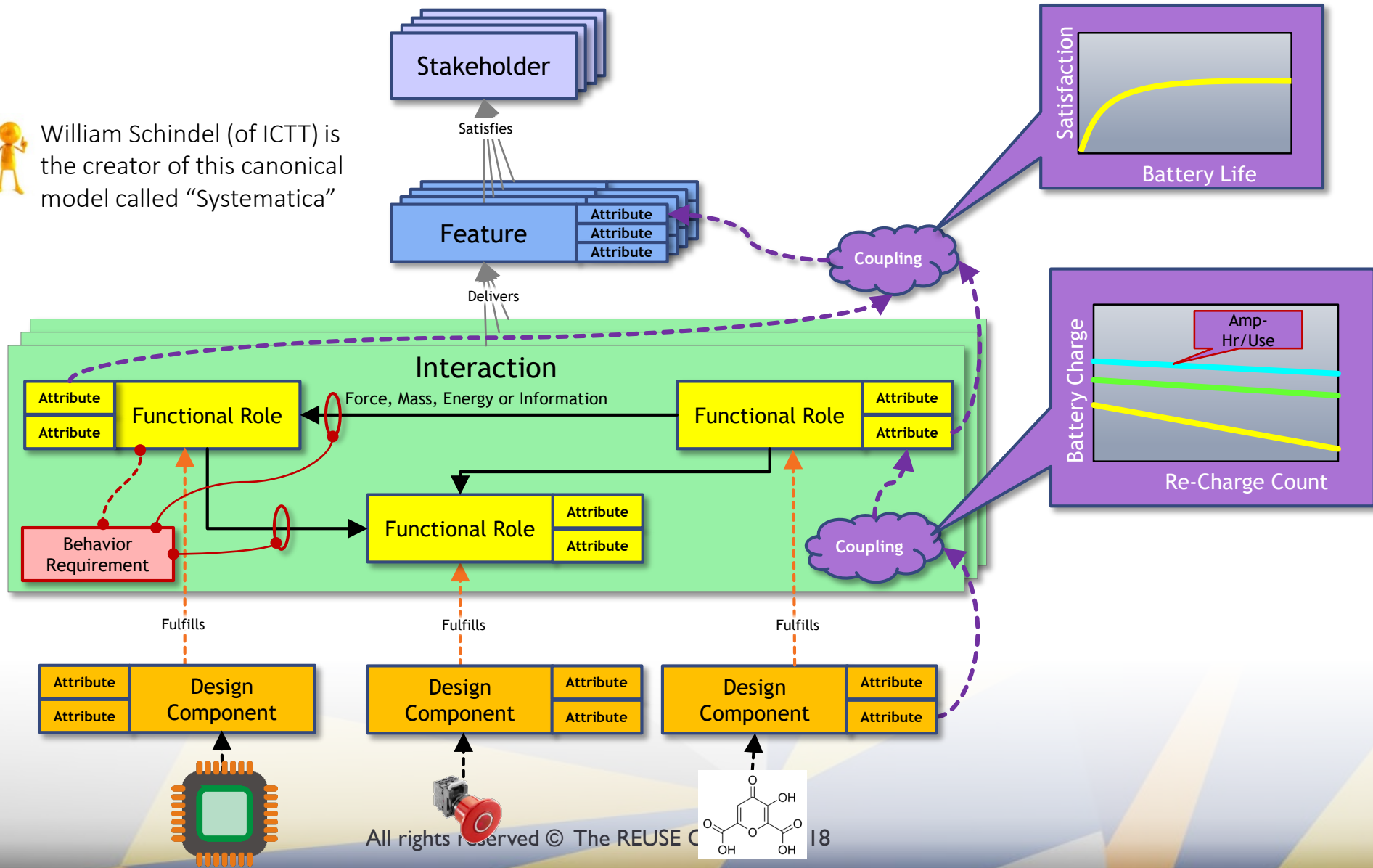


Source : INCOSE SE Handbook V4

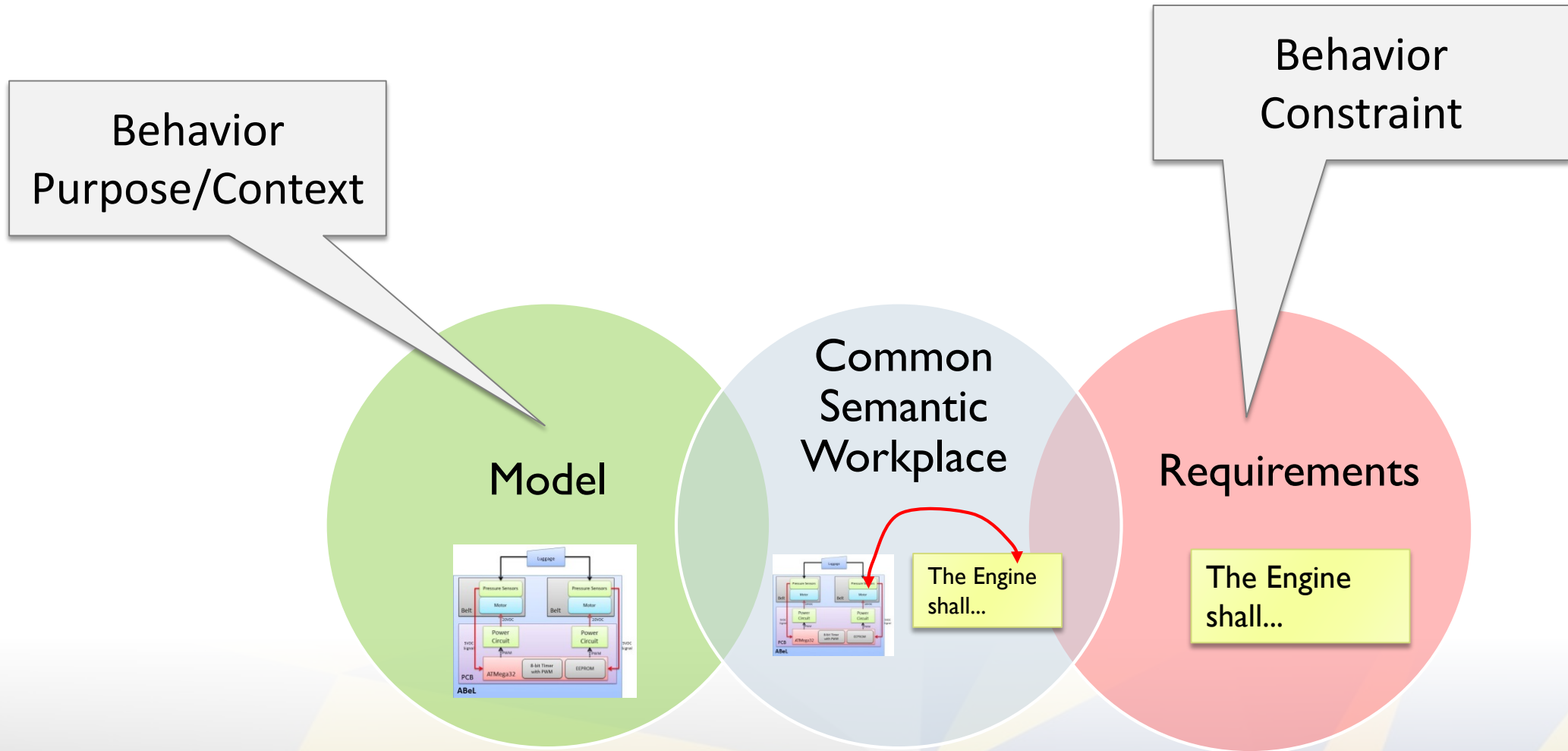
Systems Model Context for Requirements



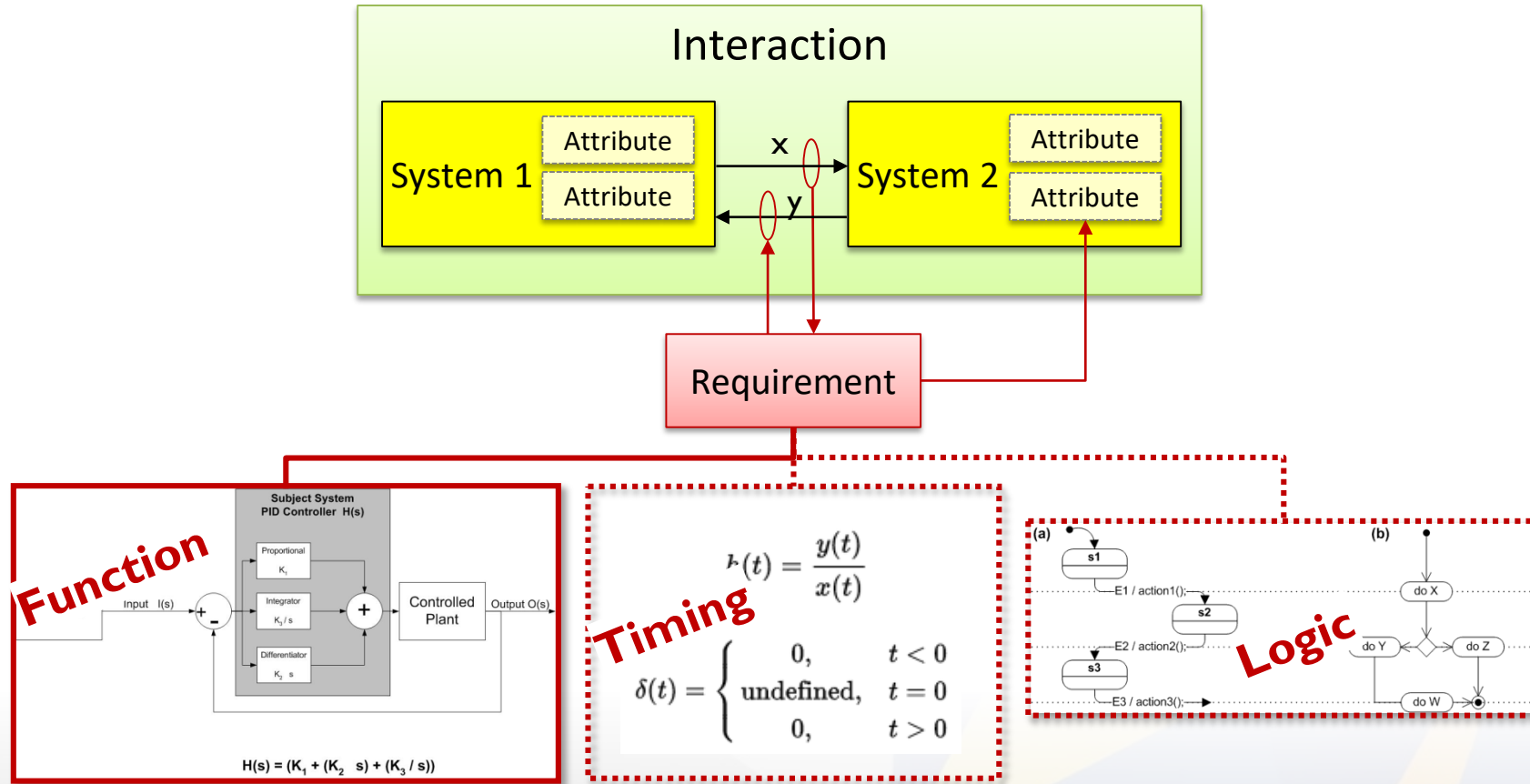
William Schindel (of ICTT) is the creator of this canonical model called "Systematica"



Structuring Requirements: Semantic Integration

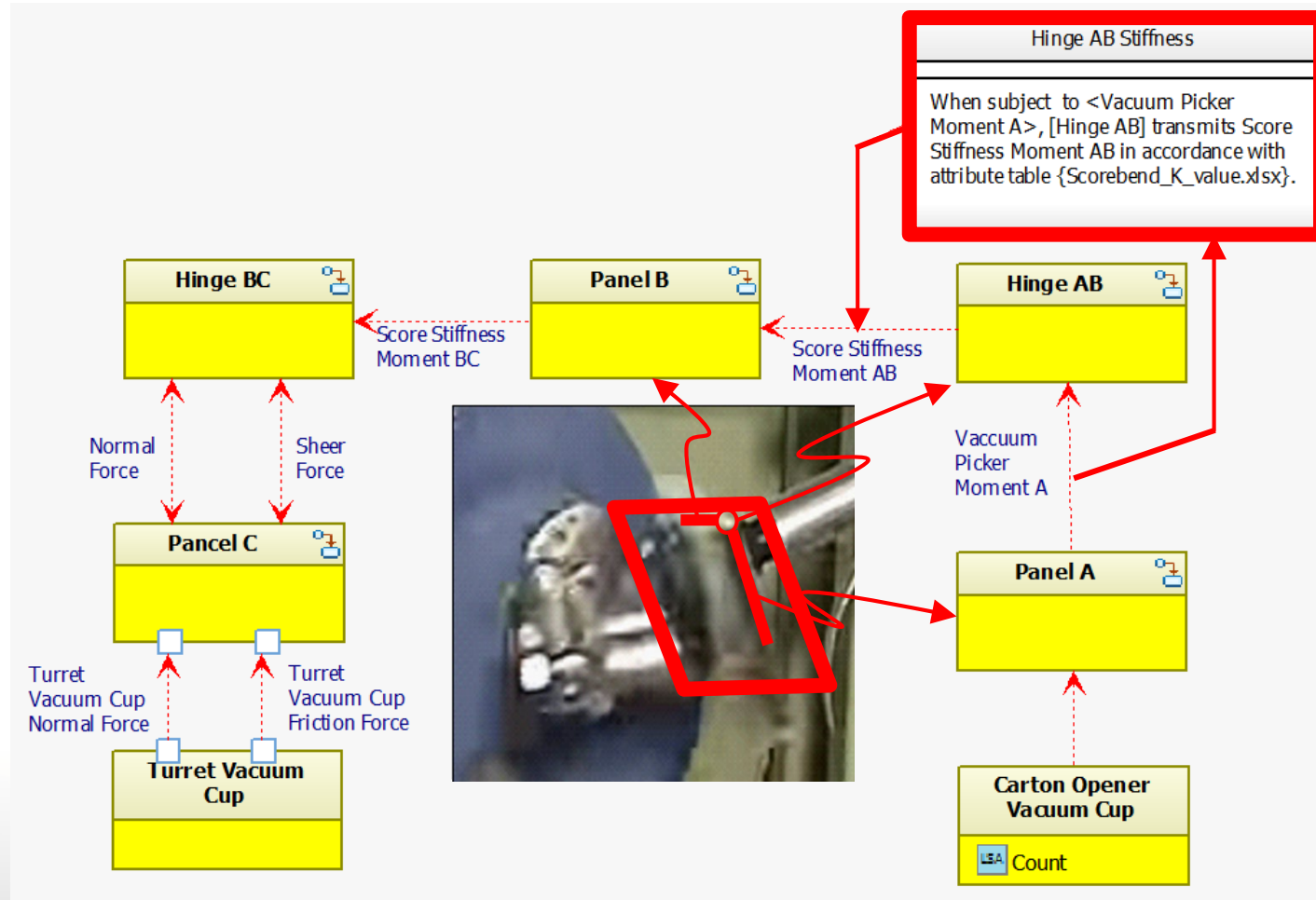


Structuring Requirements: Purpose, Context & Anatomy of a Requirement



Bill Schindel (of ICTT):
"Requirements are Transfer Functions"

Structuring Requirements (Transfer Function)



Structuring Requirements (Transfer Function)

When subject to **Vacuum Picker Moment A**, **Hinge AB** shall **transmit Score Stiffness Moment AB** in accordance with attribute table: **Scorebend_K_Value_Table**.

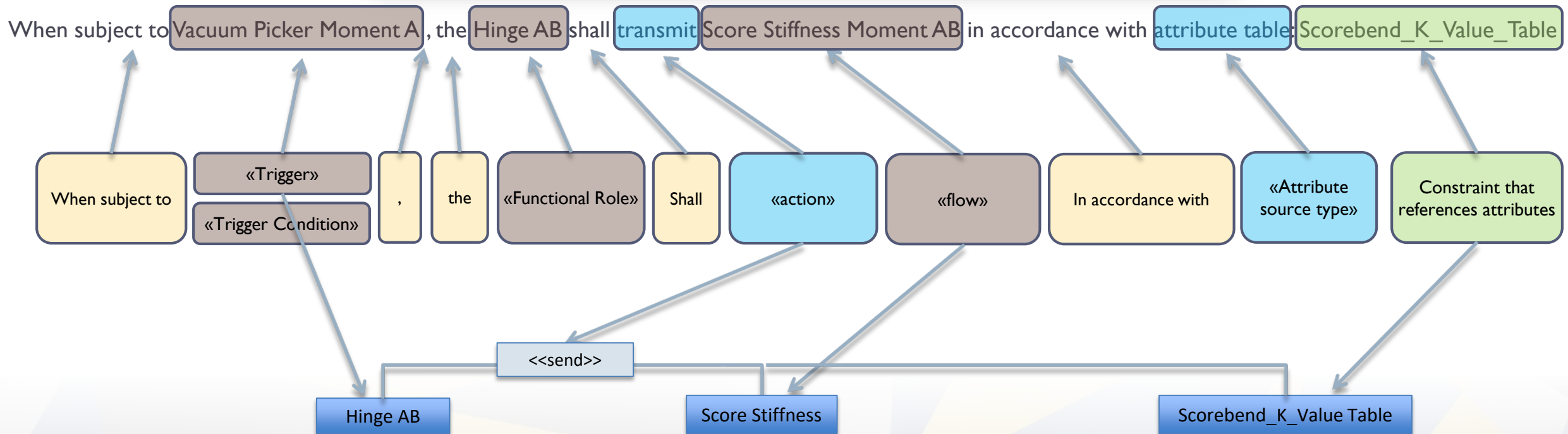
|“When subject to” <Trigger> |Trigger Condition||, “the/The” <functional role(s)> “shall” <action> <flow> “in accordance with” <constraint that references attributes>.

Machine readable and understandable requirement statement

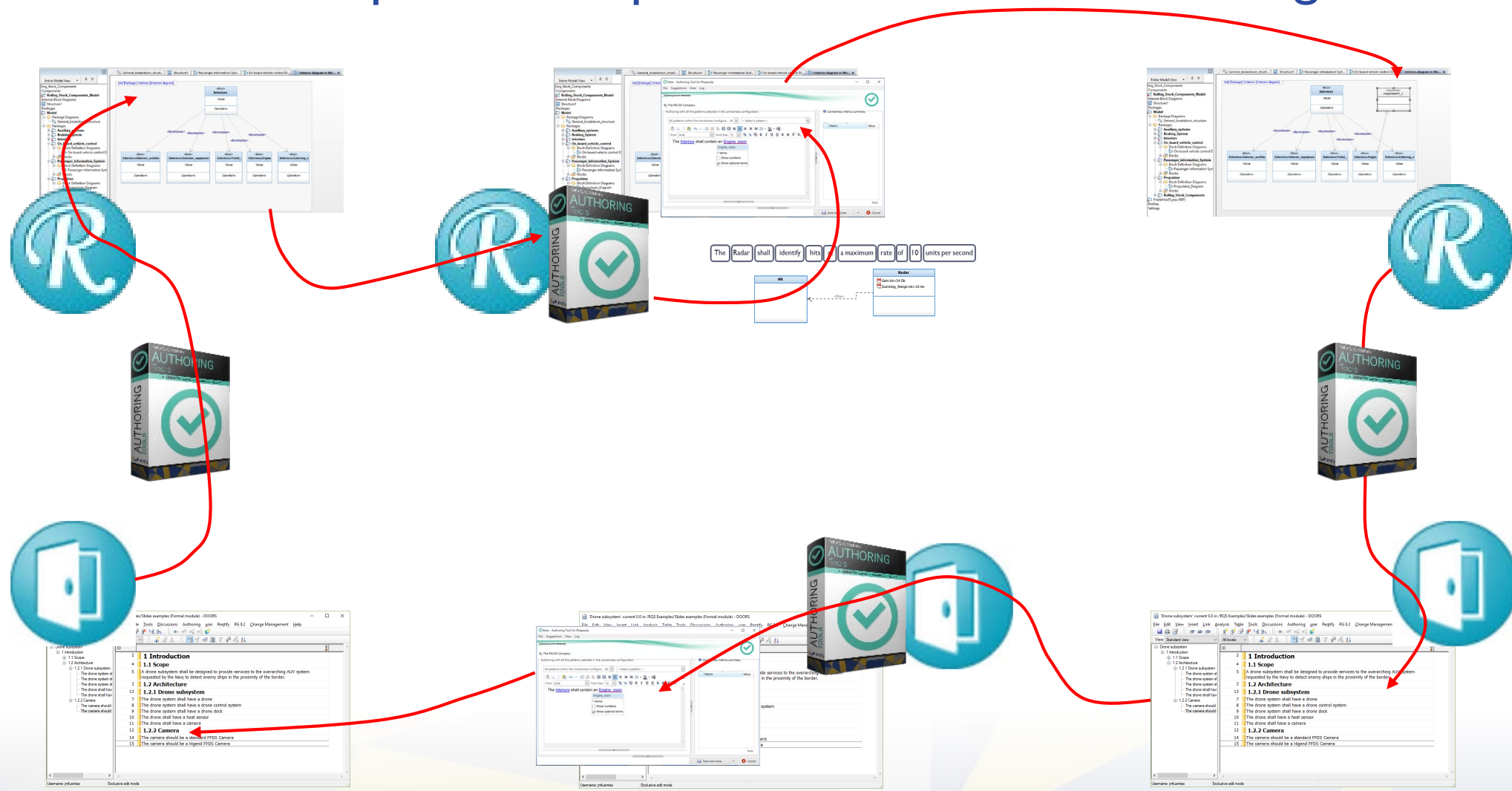
Structuring Requirements

A formal representation

When subject to **Vacuum Picker Moment A**, **Hinge AB** shall **transmit Score Stiffness Moment AB** in accordance with **attribute table: Scorebend_K_Value_Table**.

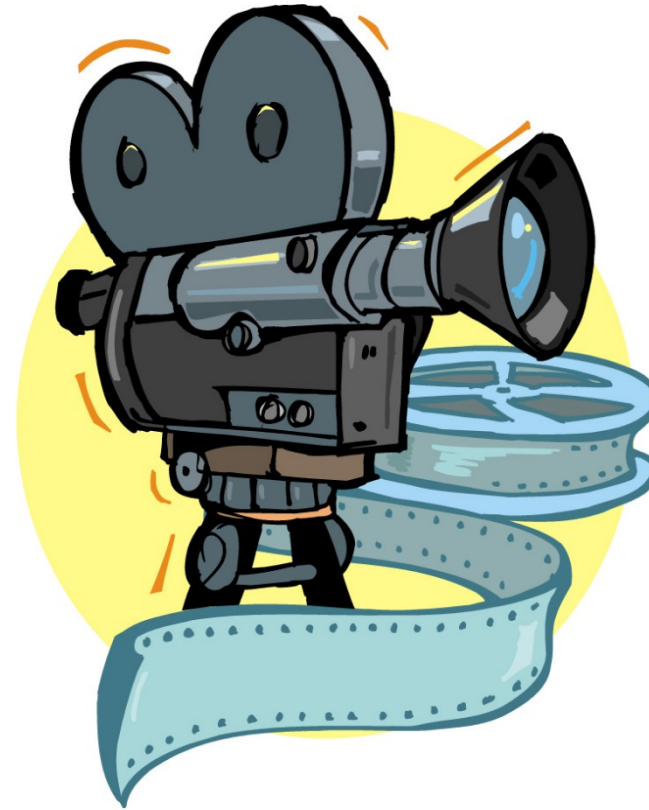


A practical Implementation: Smart Authoring

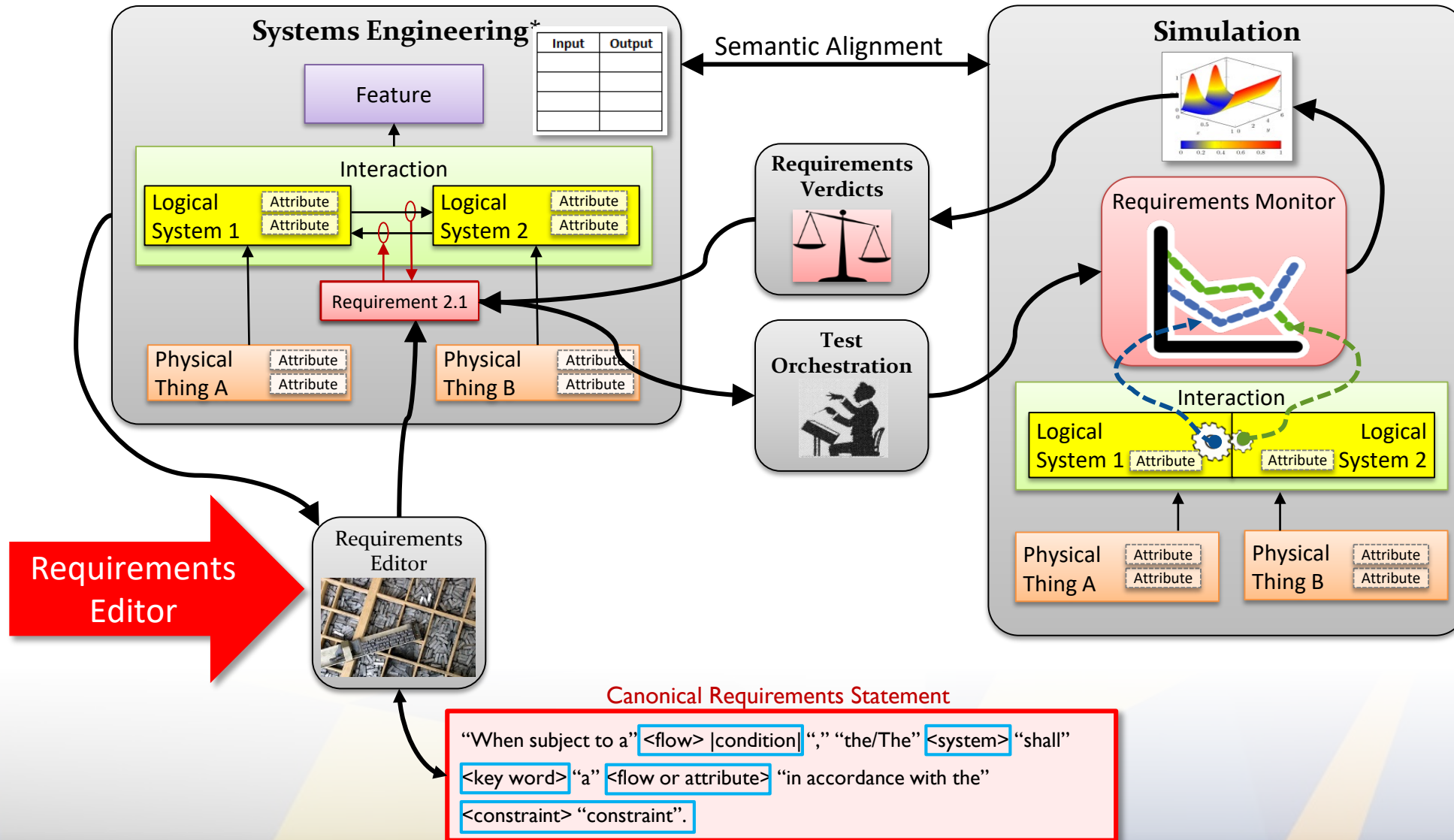


Rhapsody/RAT/DOORS Integration Demo

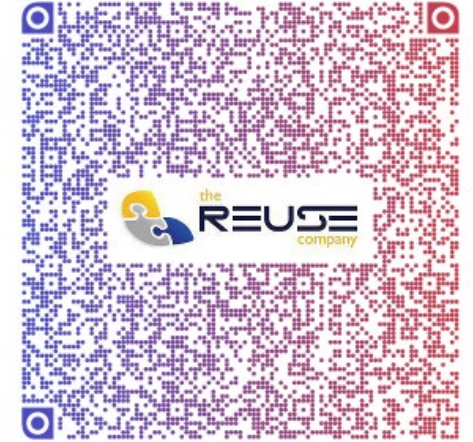
Demo Video Placeholder



Verification of Requirements



Any
Questions



THANK
YOU!

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