Potential Future Patterns WG Projects That Came Up in July 28 2025 IS2025 PWG Meeting 1

For further discussion/improvement during July 29 meeting

V1.1.2

Summary of suggestions implied by July 28 meeting—Rough notes for discussion and elaboration

1. Support / collaborate with DEIX WG (and INCOSE Standards team) on STEM-based Systems Ontology to support DE Ontology, (extracted in OWL from S*Metamodel) and traced to upper formal ontologies. (Joe Marvin, Joe Gregory, Leslie McKay, POCs)
2. Support SysML V2 team with examples or feedback concerning use of Stakeholder Features as applied in S*Models and S*Patterns. (Sandy Friedenthal, Adam Skrzypczak, POCs)
3. Create a formal mapping from S*Metamodel to SysMLV2 (multilayer) schema, similar in intent to existing mapping document to V1. (Brian Larson, POC)
4. Elaborate examples of System Dynamics views (causal loop diagram CLD, stock and flow diagram, behavior over time graph BOTG) in S*Models of systems, with the interest in what can be done concerning representation of emergent and poorly understood/unknown behaviors. (Ken Cureton, [Maybe: Ivan Taylor], Bill Schindel, POCs)
5. Support SysML V2 team interest in Interface Patterns, particularly in connection with that section of S*Metamodel as used in Interface Patterns aspects of ST4SE project with JPL/ESA. (Troy Peterson, _____, POCs)
6. Continue extensions of (Innovation Ecosystem (ASELCM) Pattern's bulk Consistency Management content. (Existing project led by Bill Schindel)