

Say YES to Semantic Similarity and Relatedness



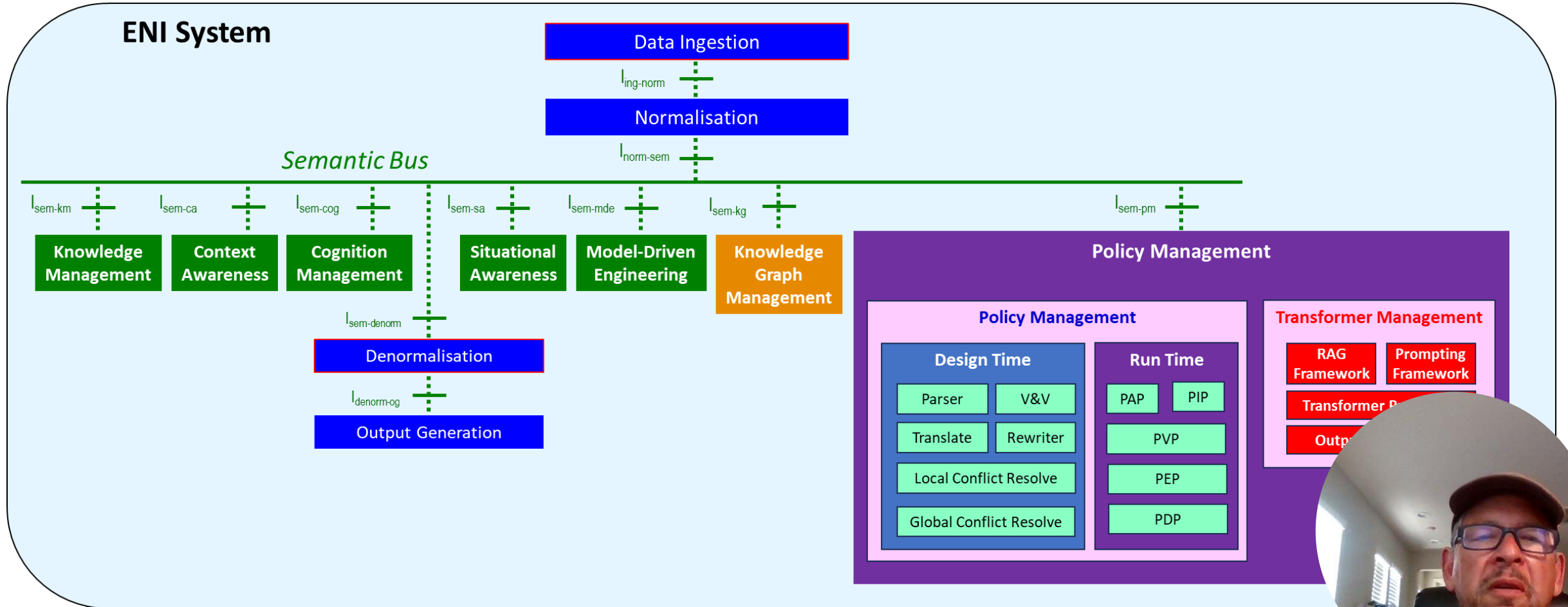
Image created using DALL-E-3 by the author



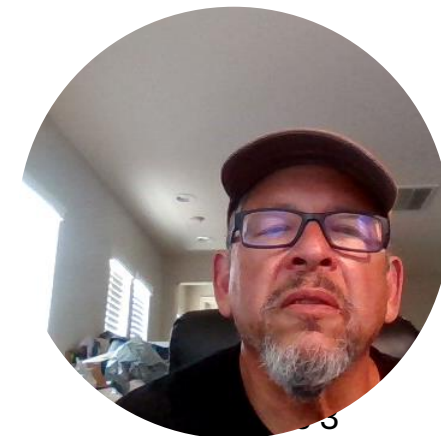
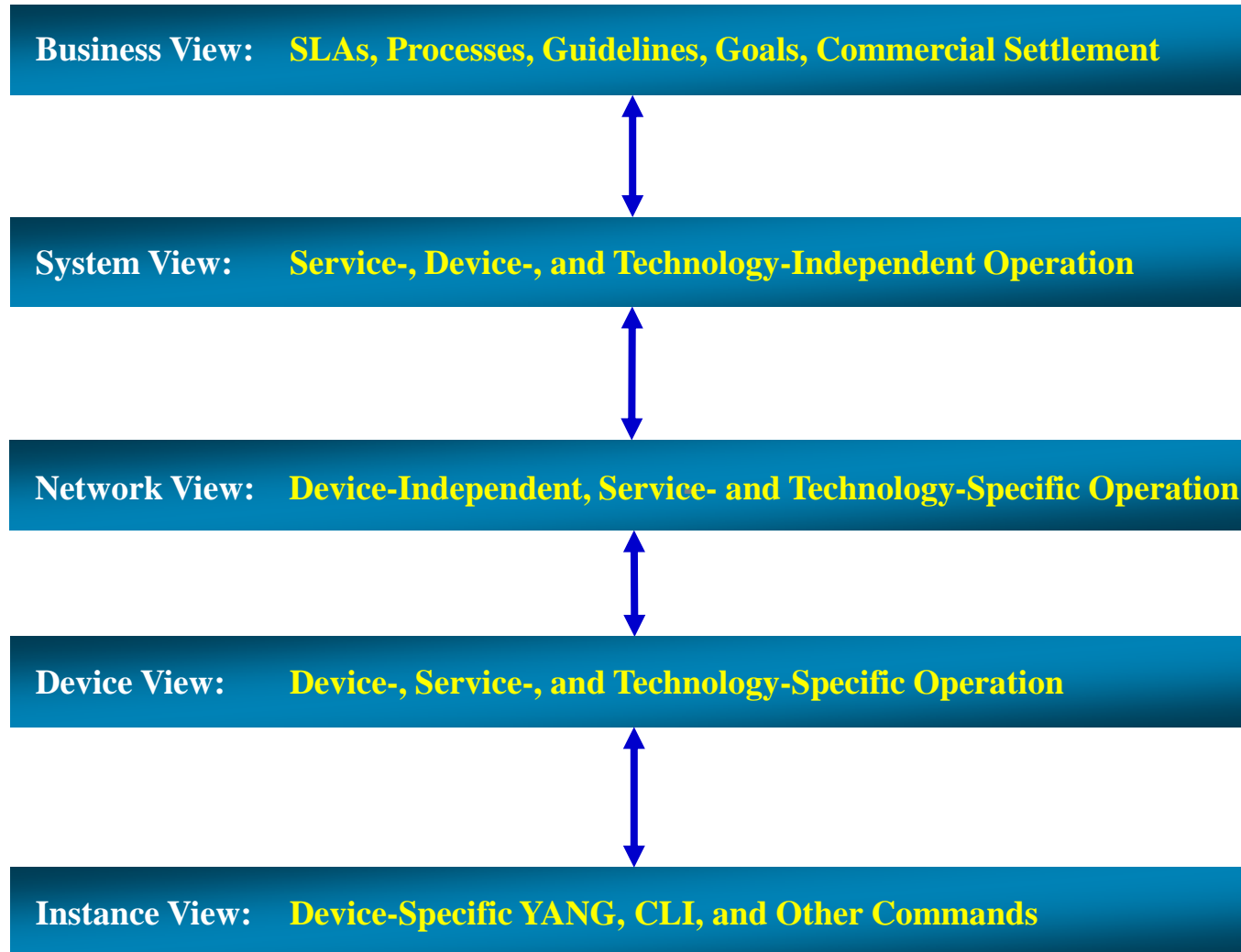
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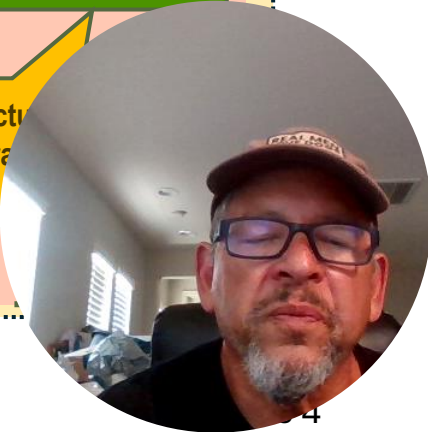
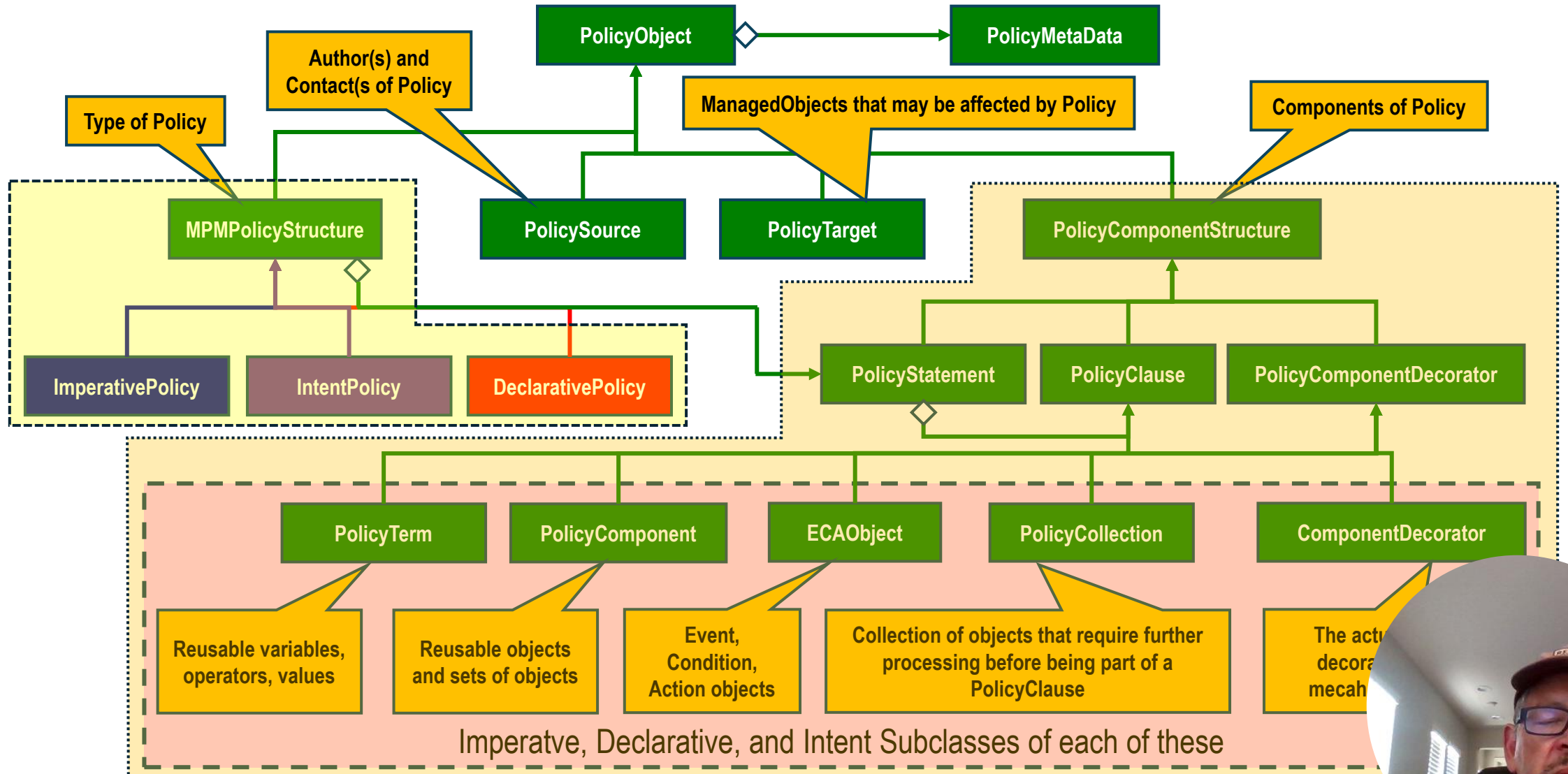
ENI System Architecture in Release 4 (2)



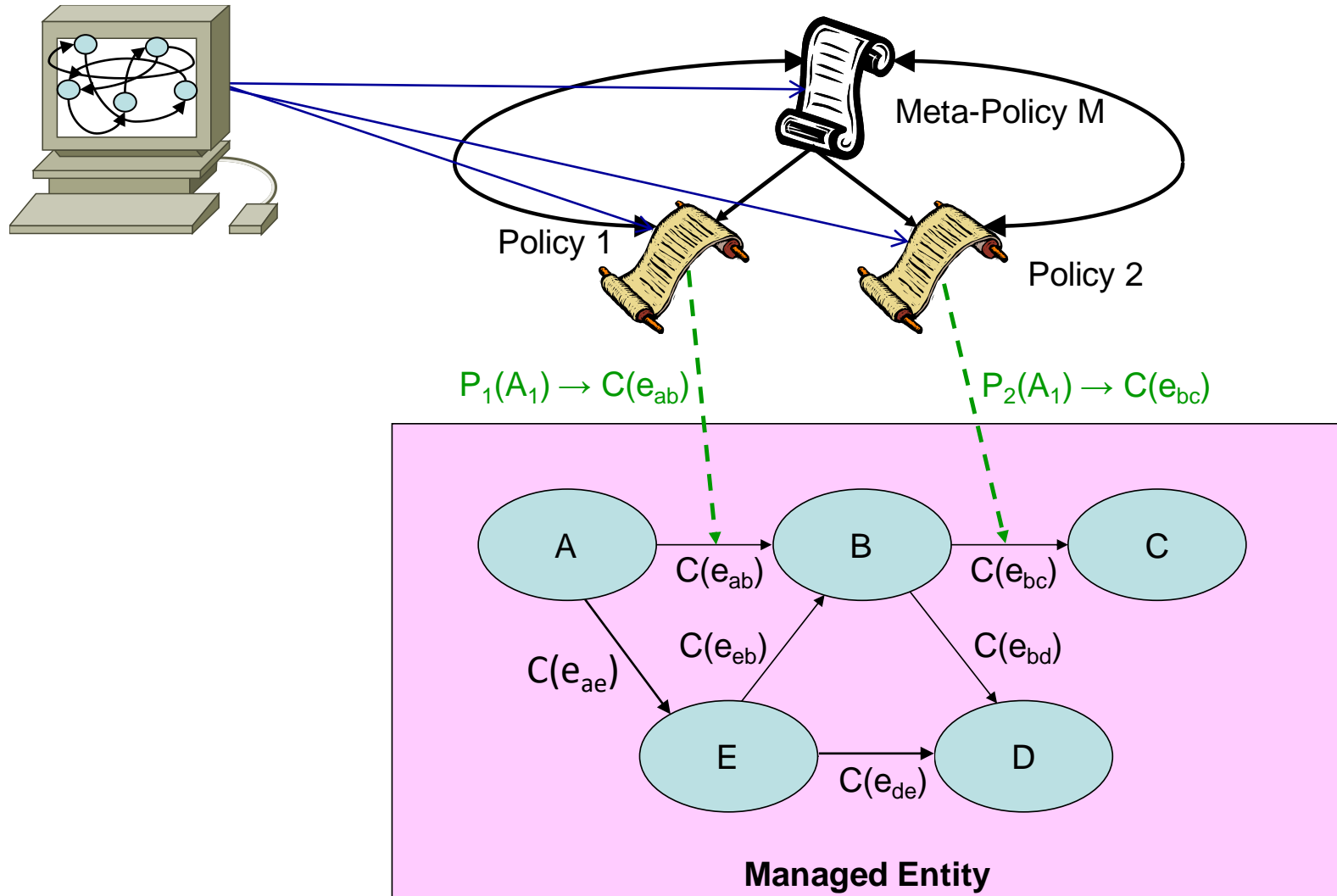
The Policy Continuum



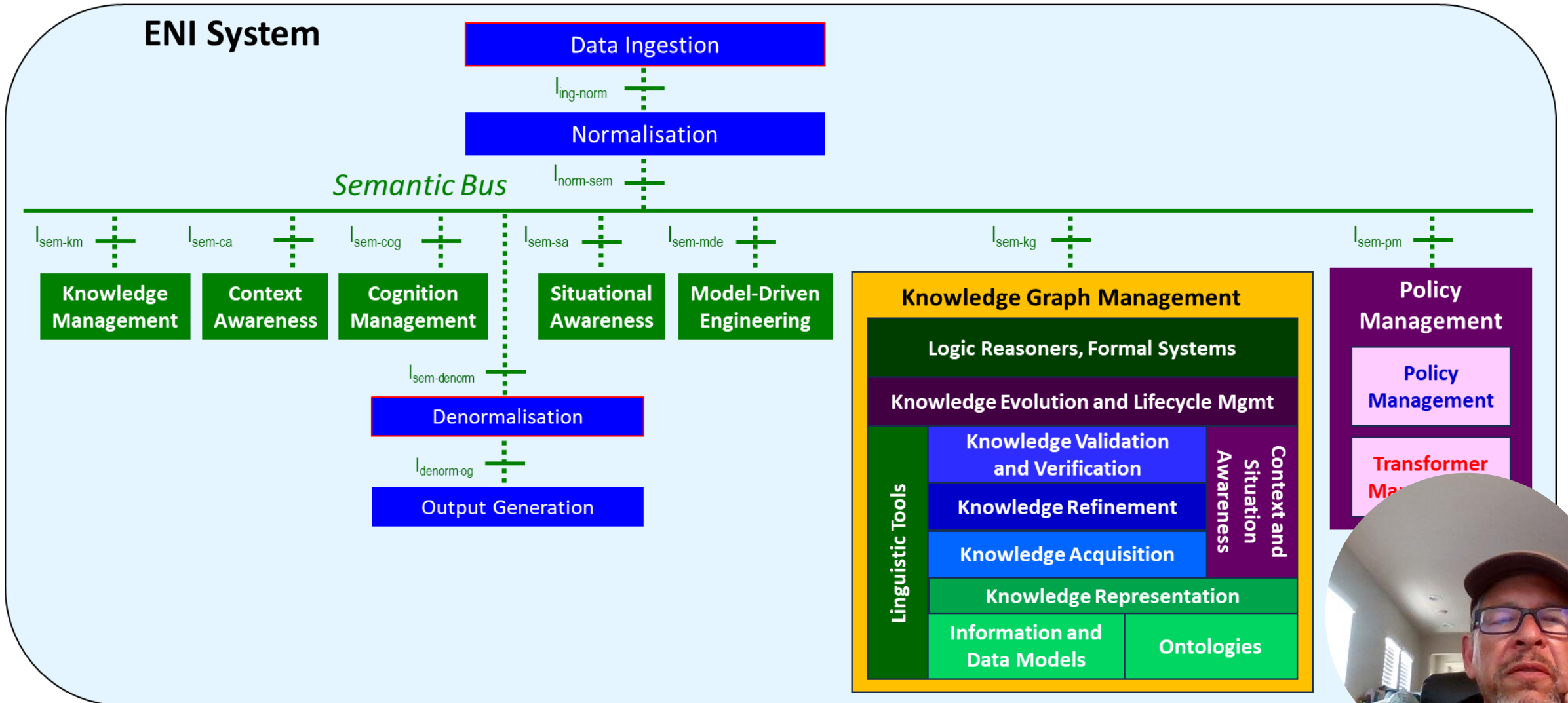
Part of the ENI Policy Model



Policy-Based Orchestration

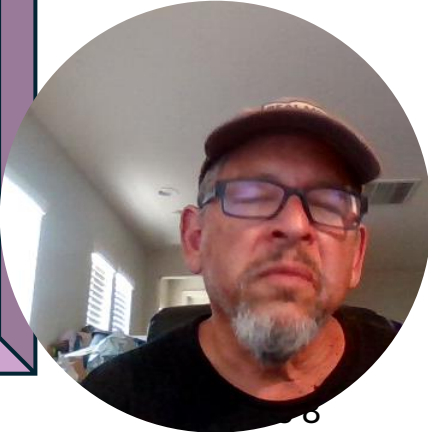
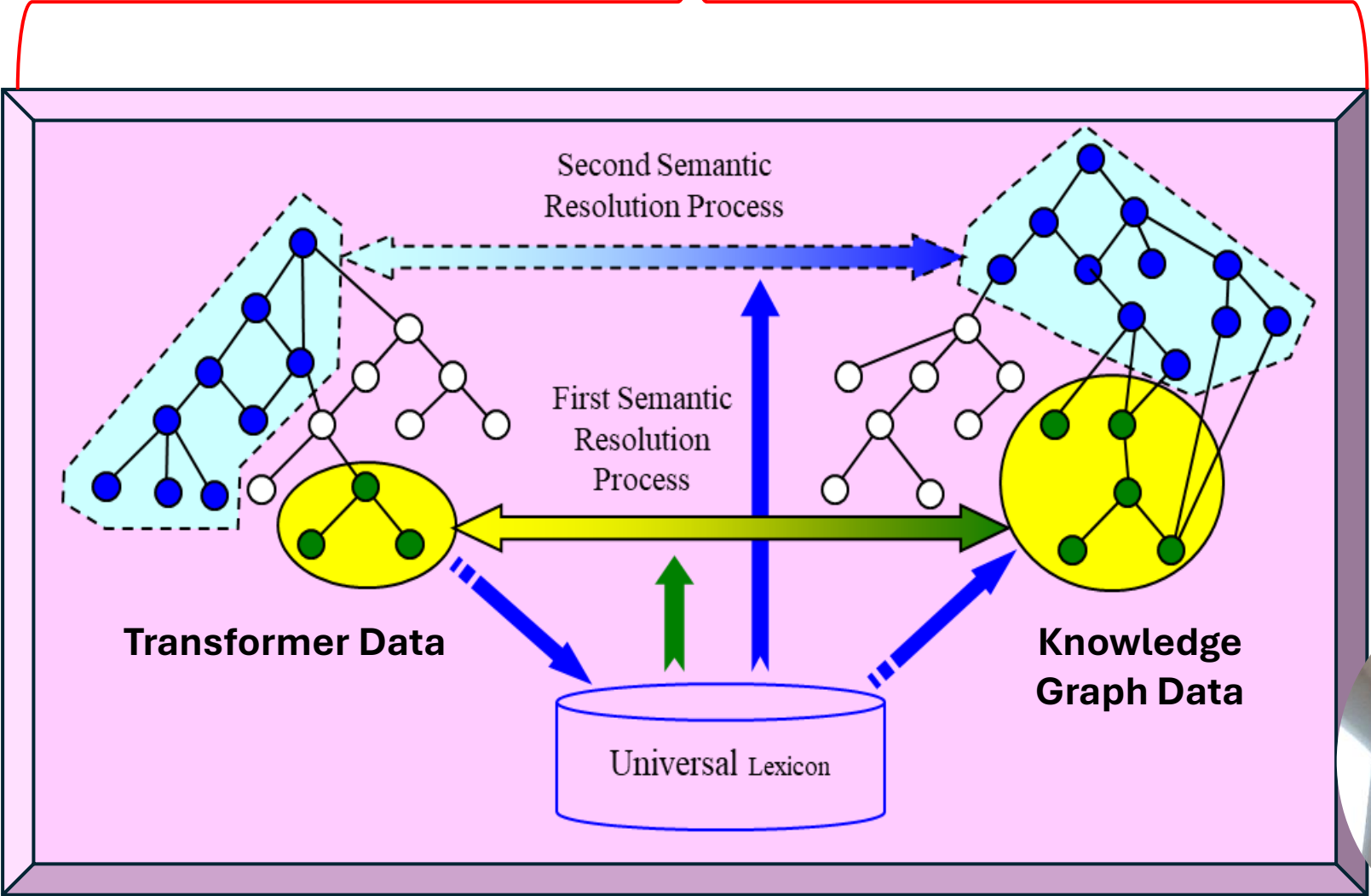


ENI System Architecture in Release 4 (3)

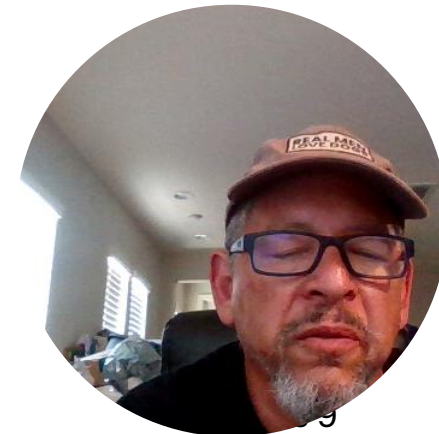
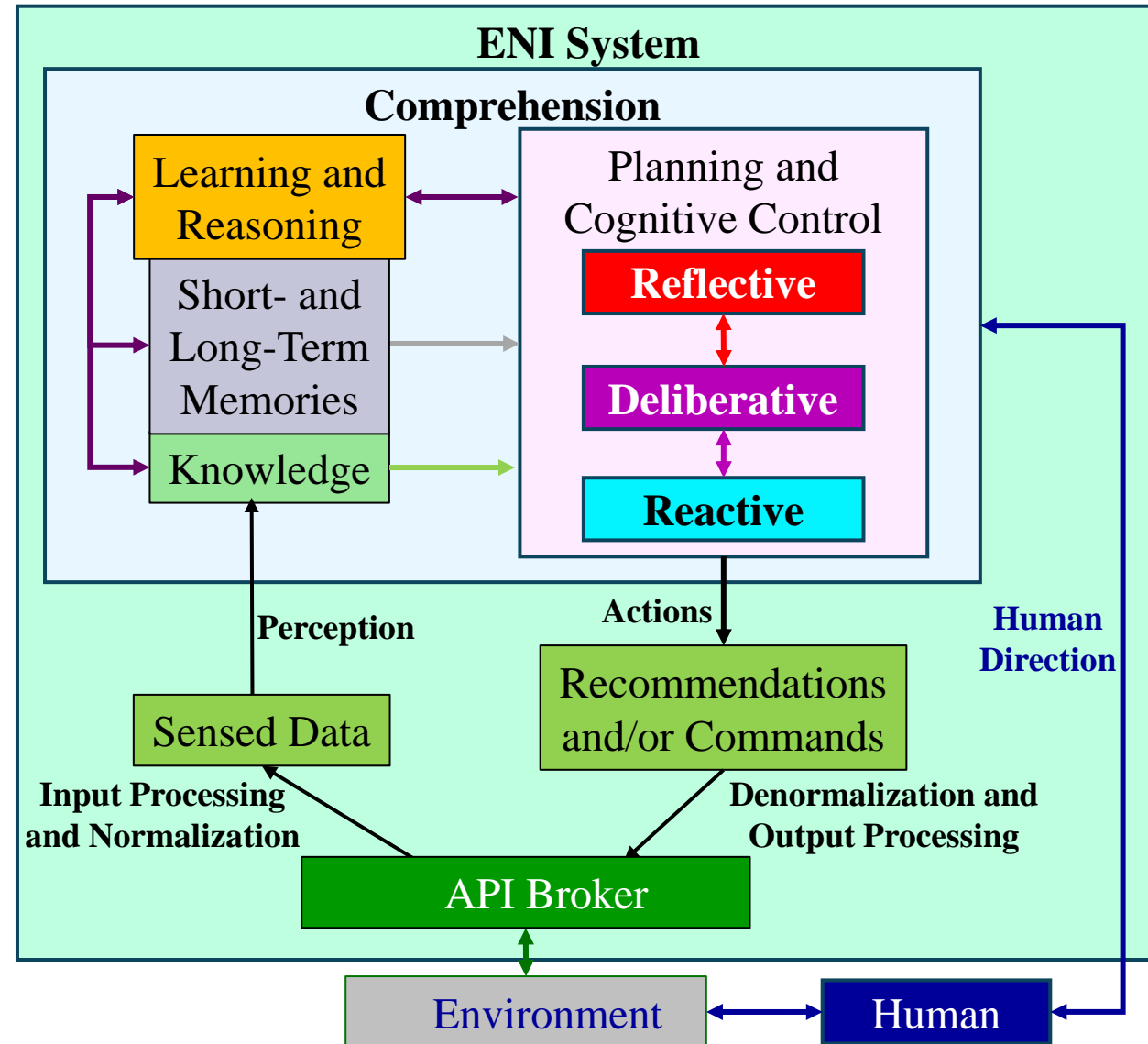


Semantic Hypergraph

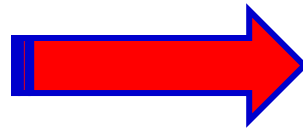
Explanations



Cognitive Learning in ENI



Generating Policies



SKGETR - Strassner

Images created using DALL-E-3 by the author

Summary

- Work in ETSI ISG ENI and ATIS ANA Groups
- A Knowledge Graph Enabled Transformer
 - Policy Continuum represents different users with different concepts having different needs
 - Combines a Transformer with a Knowledge Graph
 - Structured and hierarchical data from the KG can enhance context of Transformer (e.g., network configs and dependencies)
 - Improves predictions by leveraging both the sequential patterns in data and the structured relationships in a KG.
 - Transformer learns entity-relation compositions and contextualizes relational information based on a source entity's neighborhood in a KG
 - Enables reasoning over complex relationships and semantics of KG
 - Formal Logic in KGs can **explain** predictions & recommendations

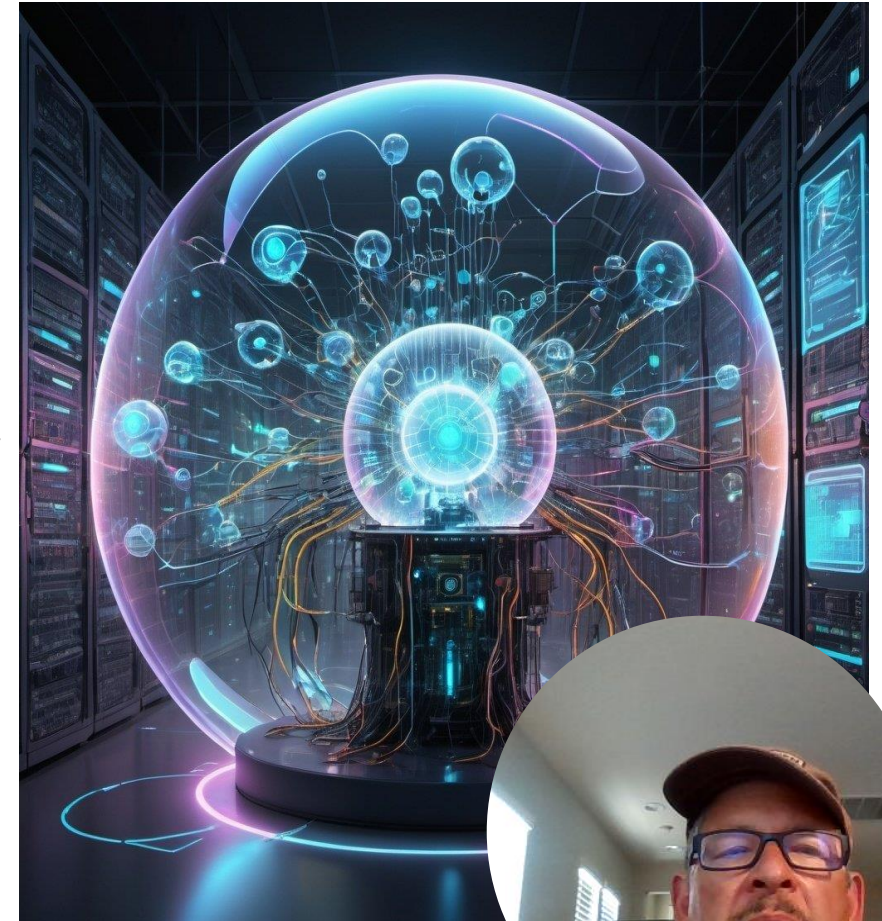


Image created using SDXL



Questions?



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*“Create like a god. Command like a king. Work like a slave
- Constantin Brancusi*

