



# Semantic Wikis

The Role of Techno-Social Collaboration in  
Building DRM 3.0 and Web 3.0 for Managing Context  
Across Multiple Documents and Organizations

SICOP Special Conference

February 6, 2007

Mills Davis, Project10X  
mdavis@project10x.com



# Topics

- + Role of techno-social collaboration in managing context across multiple documents, models, software systems, and organizations  
*Mills Davis, Project10x*
- + Semantic vocabulary management for service oriented architecture  
*Michael Lang, Revelytix*
- + Policy wikis and semantic agent wikis for engineering  
*Kyle Recsky, Visual Knowledge*
- + Applying ontology and linguistics to automate reading, writing, and reporting of knowledge and information in a semantic wiki  
*Chuck Rehberg, Semantic Insights*
- + NSF support for semantic research  
*Frank Olken, NSF*



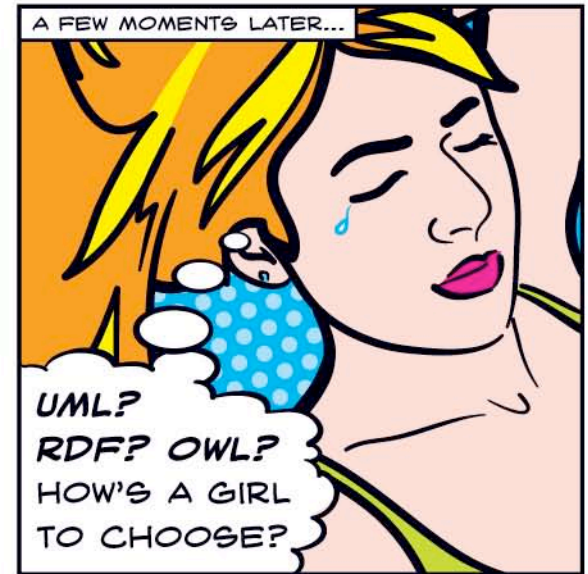
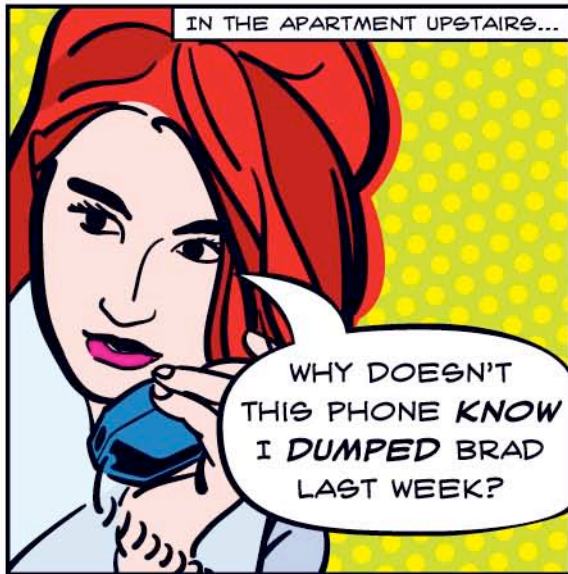
# Mills Davis

202-667-6400 • mdavis@project10x.com

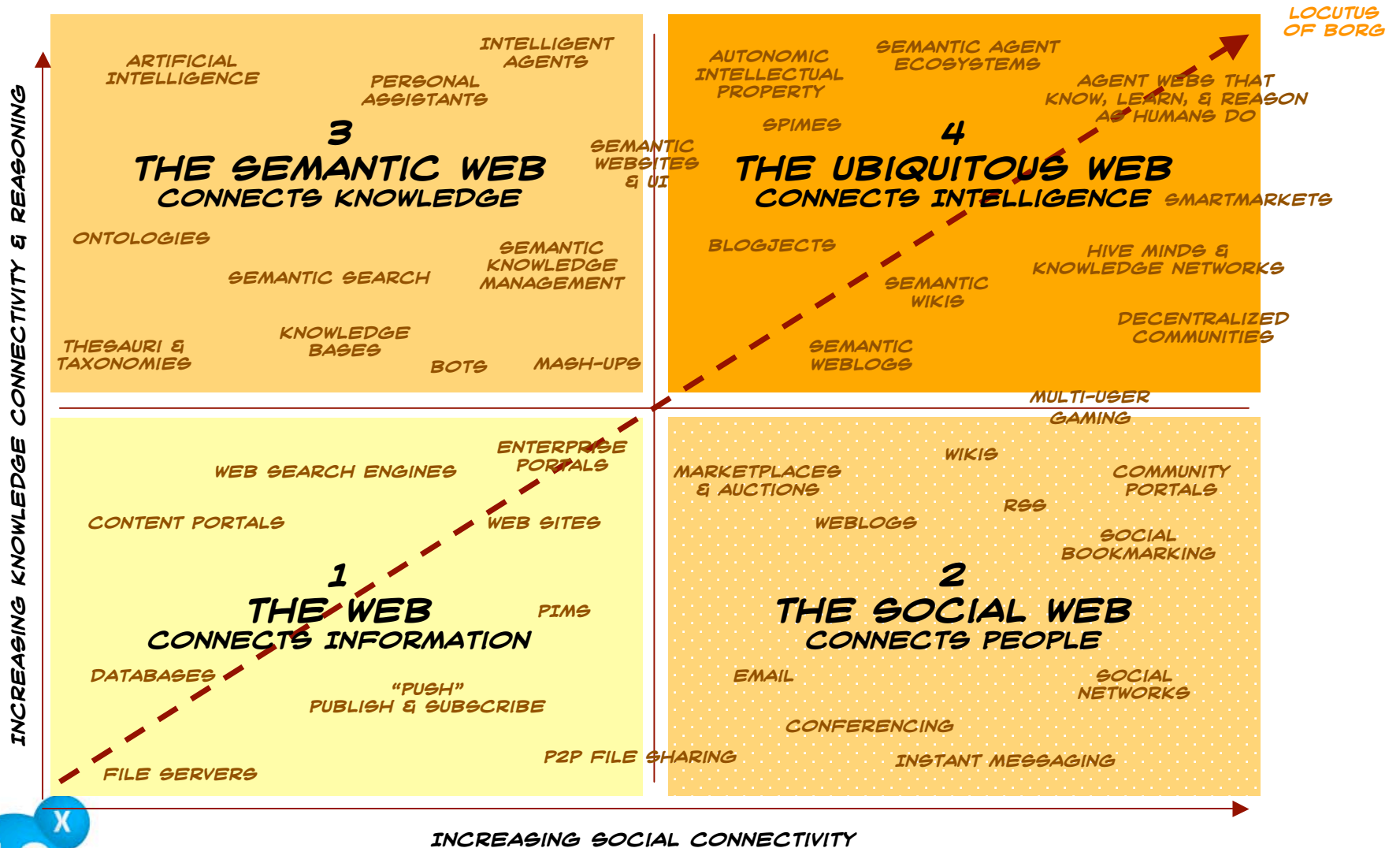
- + Mills Davis is **Project10X**'s founder and managing director for industry research and strategic programs. He consults with technology manufacturers, global 2000 corporations, and government agencies on next-wave semantic technologies and solutions.
- + Mills serves as co-chair of the Federal CIO council's **Semantic Interoperability Community of Practice (SICoP)** where he leads research into the business value of semantic technologies and the Semantic Wikis for Information Management (SWIM) working group. Also, Mills is a founding member of the AIIM interoperable enterprise content management (iECM) working group, and a founding member of the National Center for Ontology Research (NCOR).
- + A noted researcher and industry analyst, Mills has authored more than 100 reports, whitepapers, articles, and industry studies.



So, what happens when you have lots of web, lots of semantics, & lots of social interaction with it?



# Internet Evolution



What is the role of techno-social collaboration in managing context across multiple documents, models, software systems, and organizations?

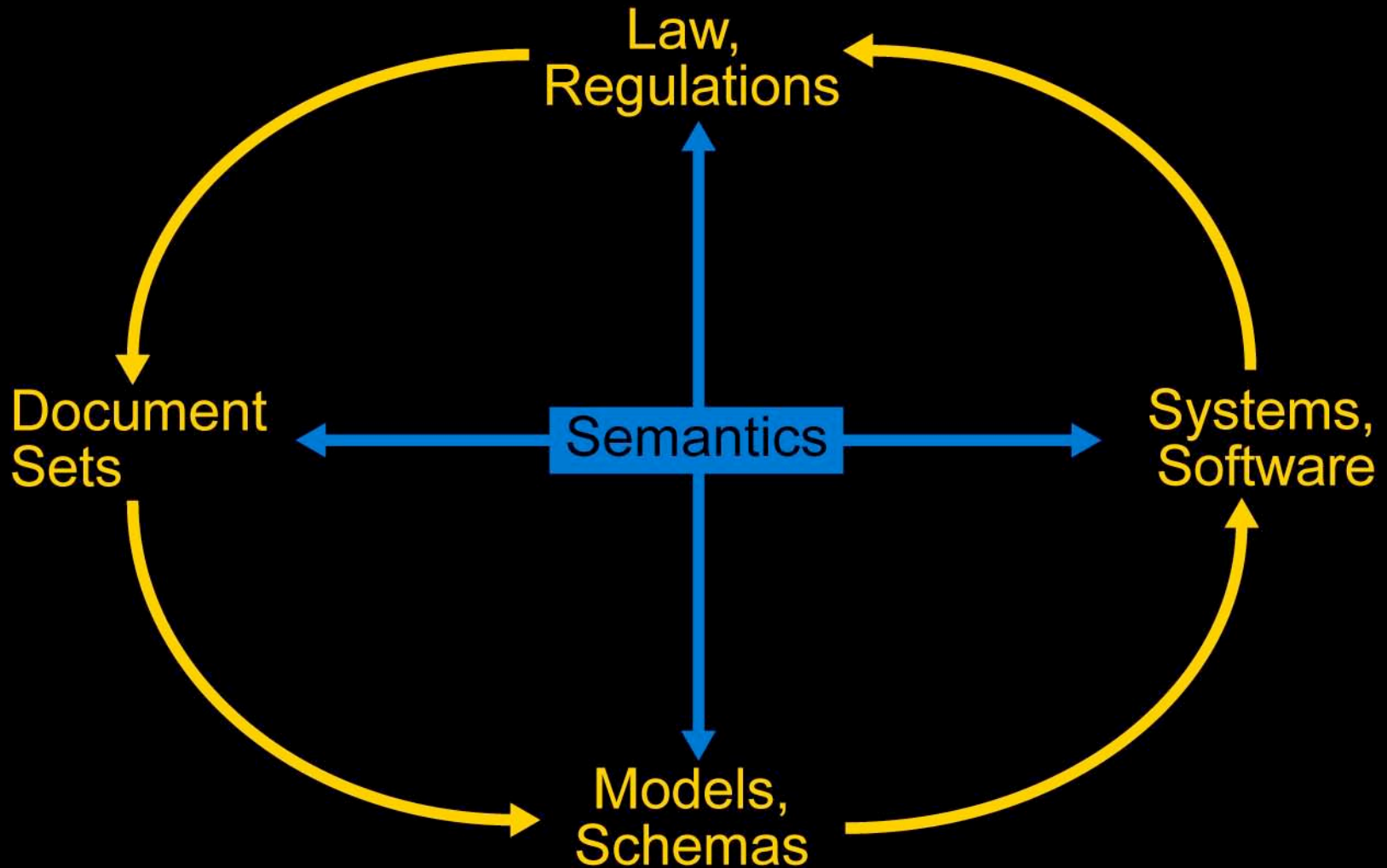


We have plenty of experience encoding our thoughts and meanings using different forms of language...

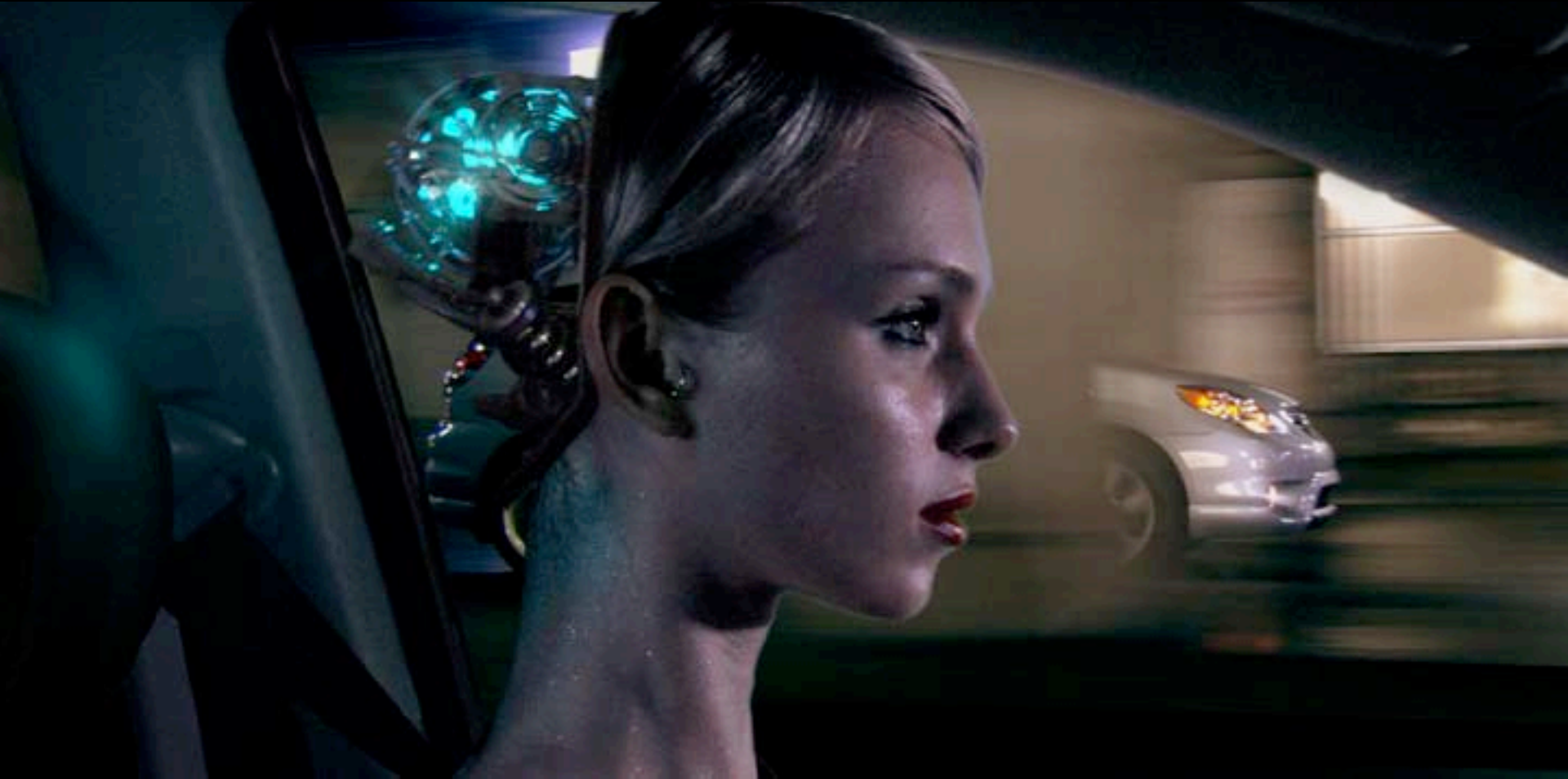
Natural language	Documents, speech
Visual language	Tables, graphics, charts, maps
Formal language	Models, schema, logic, mathematics, professional and scientific notations
Behavior language	Software code, declarative specifications, functions, algorithms,
Sensory language	User experience (UX), human-computer interface



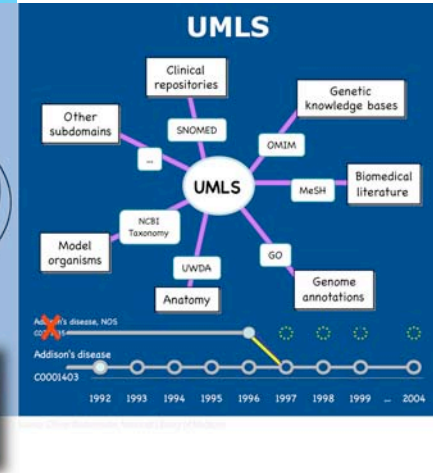
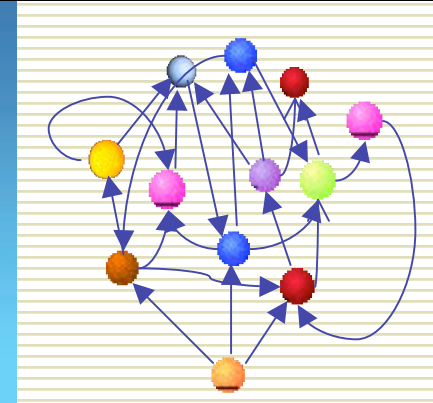
Semantic wikis give us tools to make these different forms of knowledge interoperable and executable



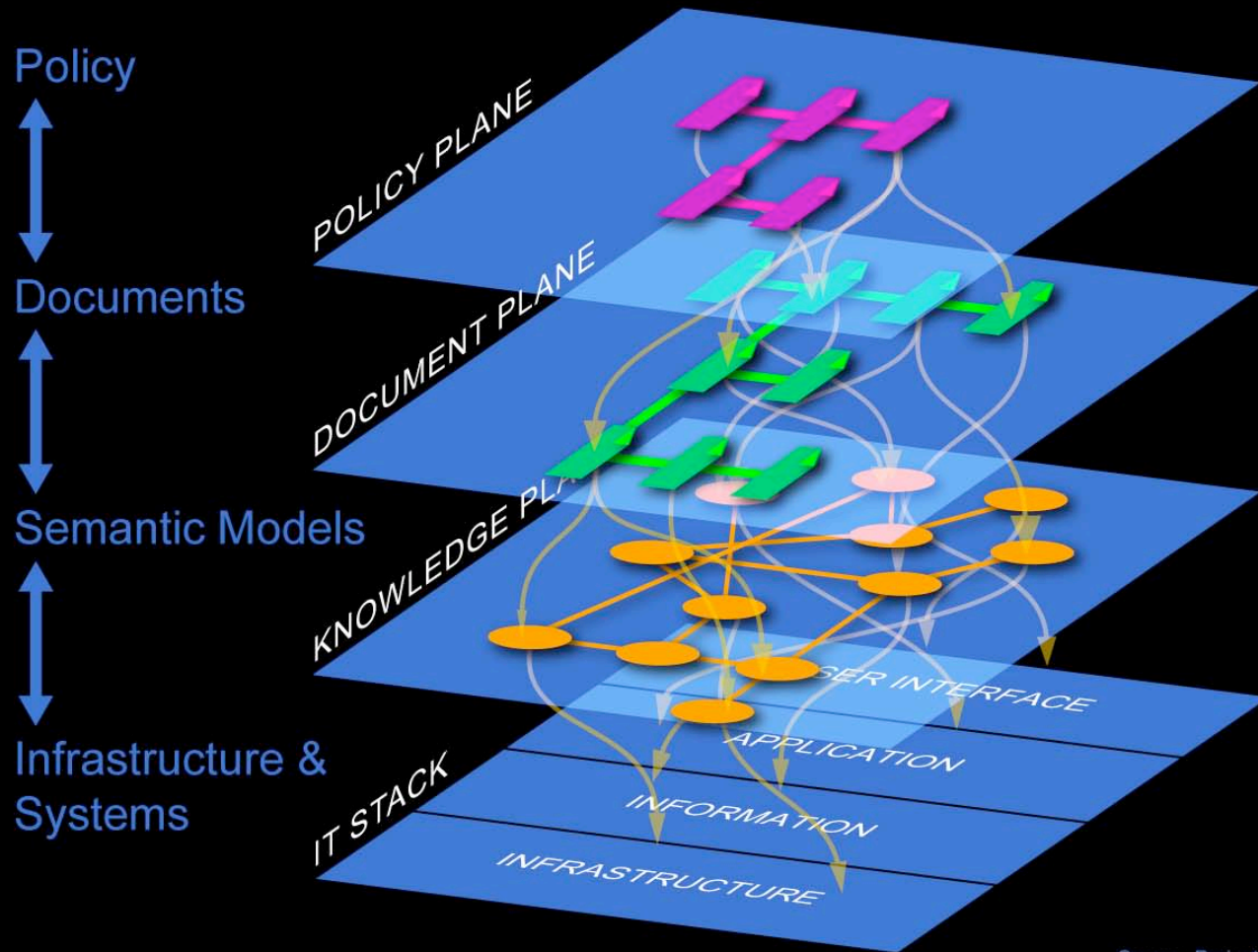
Semantic technologies represent meanings & knowledge about things so that **both** computers and people can work with it...



Semantic technologies model knowledge about infrastructure, information, behavior, & domain expertise **separately** from programs, data, & documents

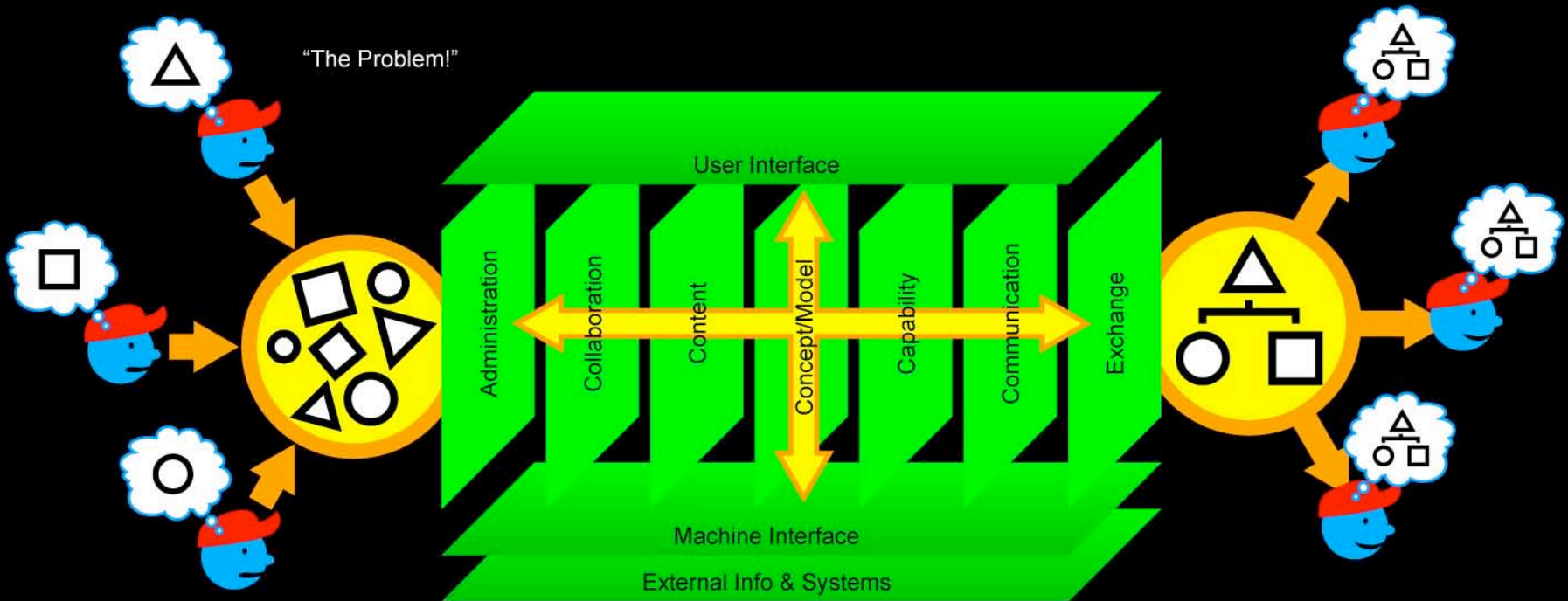


Semantic wikis enable us to manage knowledge at a conceptual level across documents, models, software systems, and infrastructure



Source: Project10X

Techno-social collaboration using semantic wikis provides tools to map, align and harmonize different “truths” and points of view

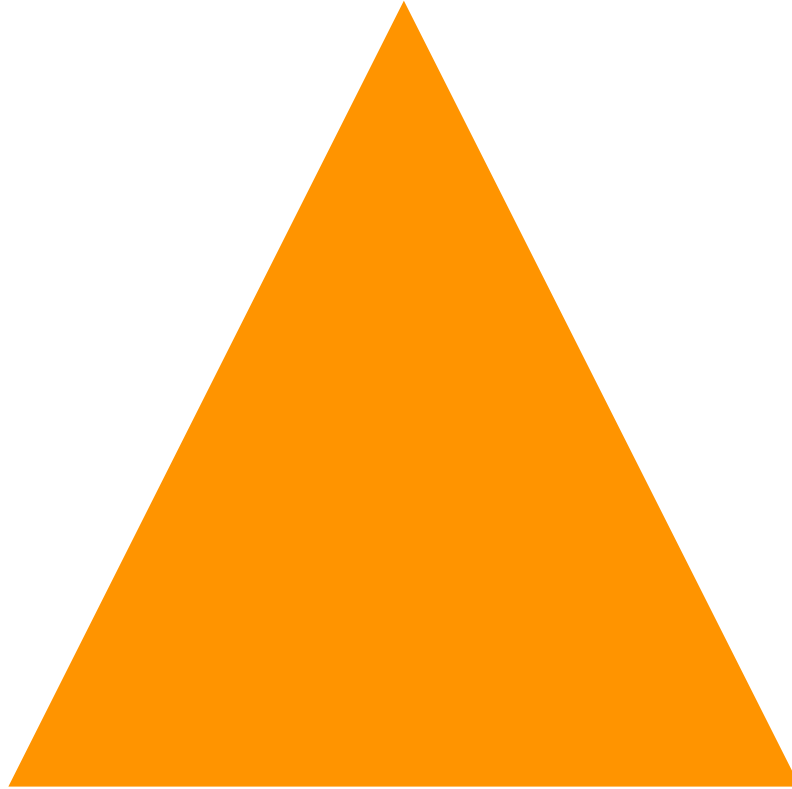


Source: Project 10X

*VALUE*

*LOGIC*

*LANGUAGE*



# Topics

- + Role of techno-social collaboration in managing context across multiple documents, models, software systems, and organizations  
*Mills Davis, Project10x*
- + Semantic vocabulary management for service oriented architecture  
*Michael Lang, Revelytix*
- + Policy wikis and semantic agent wikis for engineering  
*Kyle Recsky, Visual Knowledge*
- + Applying ontology and linguistics to automate reading, writing, and reporting of knowledge and information in a semantic wiki  
*Chuck Rehberg, Semantic Insights*
- + NSF support for semantic research  
*Frank Olken, NSF*



