



# SEMANTIC WIKIS

**OPEN COLLABORATION:  
NETWORKING SEMANTIC INTEROPERABILITY  
ACROSS DISTRIBUTED ORGANIZATIONS  
AND THEIR ONTOLOGIES**

**5D  
SEMANTIC WIKI**

**AUGUST 15, 2006**

**MILLS DAVIS  
MANAGING DIRECTOR  
PROJECT10X  
CO-CHAIR, SICOP**

**CONOR SHANKEY  
CEO  
VISUAL KNOWLEDGE  
TECHNICAL LEAD,  
SICOP/SWIM**

# MILLS DAVIS

202-667-6400 MDAVIS@PROJECT10X.COM

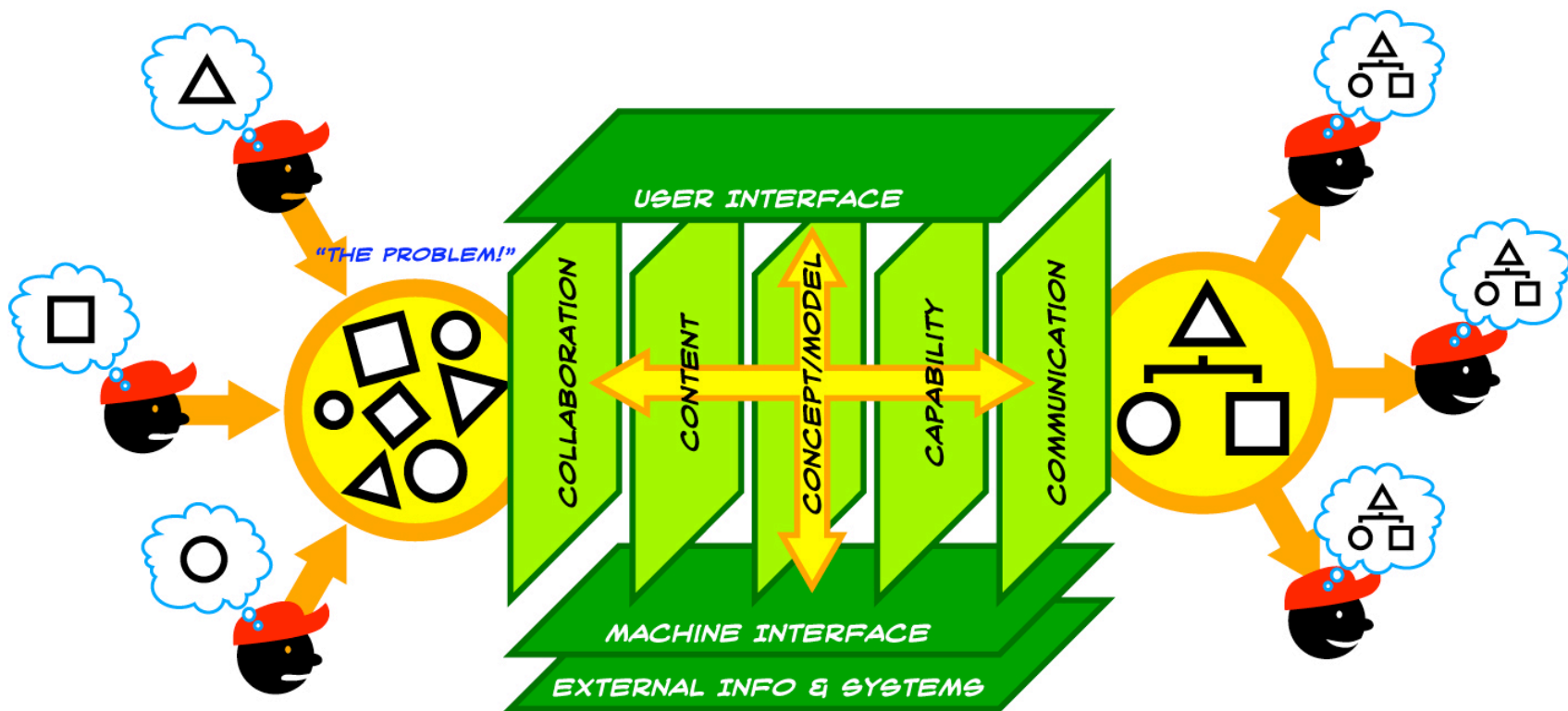
- MILLS DAVIS IS **PROJECT10X**'S FOUNDER AND MANAGING DIRECTOR FOR INDUSTRY RESEARCH AND STRATEGIC PROGRAMS. HE CONSULTS WITH TECHNOLOGY MANUFACTURERS, GLOBAL 2000 CORPORATIONS, AND GOVERNMENT AGENCIES ON NEXT-WAVE SEMANTIC TECHNOLOGIES AND SOLUTIONS.
- MILLS SERVES AS CO-CHAIR OF THE FEDERAL CIO COUNCIL'S **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.

# CONOR SHAKEY

604-730-0086 CSHANKEY@VISUALKNOWLEDGE.COM

- FOUNDER & CEO OF **VISUAL KNOWLEDGE**, 15 YEARS.
- ARCHITECTED **LARGEST** CORPORATE WAN/LAN OF IT'S KIND OUTSIDE US IN 1990
- ARCHITECTED ENTERPRISE TRANSACTIONAL FRAME SYSTEM TO SUPPLEMENT/REPLACE **MISSION CRITICAL** MAINFRAME SYSTEMS OF LARGE POWER UTILITY
- CTO/CO-FOUNDER OF SEVERAL SPIN-OUT COMPANIES FROM VISUAL KNOWLEDGE
- CO-FOUNDER **CLERA PHARMACEUTICALS**, SMALL ANTI-PSYCHOTIC DRUG DISCOVERY COMPANY
- NCOR TECHNICAL COMMITTEE, CHAIR OF 2006 OWL WORKSHOP (INTL SEMANTIC WEB CONFERENCE)

# FIVE DIMENSIONS OF A SEMANTIC WIKI



SOURCE: MILLS DAVIS

# 1. COLLABORATION

- WEB UI
- COMMUNITY MEMBERSHIP
- PARTICIPANT ROLES
- SECURITY MODEL
- PRIVACY, RIGHTS
- GOVERNANCE
- NOTIFICATIONS
- EVENTS
- FEDERATED ACTIVITY
- PROJECT MANAGEMENT
- CHANGE MANAGEMENT

## 2. CONTENT

- WEB UI
- IMPORT / EXPORT
- READ / WRITE
- EDIT / MANAGE
- ALL FORMS OF CONTENT -- UNSTRUCTURED, SEMI-STRUCTURED, & STRUCTURED INFORMATION
- TEXT
- TABLE
- GRAPHIC
- IMAGE
- AUDIO
- VIDEO
- DATABASE

# 3. CONCEPT / MODEL

- WEB UI, IMPORT, EXPORT
- MANUAL, SEMI-AUTOMATIC, & AUTOMATIC METHODS
- EXTRACT CONCEPTS, RELATIONSHIPS, RULES, ETC. FROM CONTENT & DATA SOURCES
- HIGHLIGHT, ANNOTATE, SEMANTICALLY ENABLE & ENHANCE INFORMATION
- REPRESENT & ORGANIZE CONTENT AT CONCEPT LEVEL
- SEMANTIC VS LINGUISTIC MODELS
- VISUALIZE, EDIT, REFACTOR, ALIGN, HARMONIZE SEMANTIC MODELS
- SEMANTIC SEARCH, DISCOVERY, INTELLIGENCE & QUESTION ANSWERING
- SEMANTIC CONTEXT & NAVIGATION

# 4. CAPABILITY

- WEB UI, IMPORT, EXPORT
- MANUAL, SEMI-AUTOMATIC, & AUTOMATIC METHODS
- SPECIFY & WIRE TOGETHER BEHAVIORS AND MODELS
- CREATE, VISUALIZE, MANIPULATE SEMANTIC AGENTS
- VISUAL, DECLARATIVE SPECIFICATIONS VS PROCEDURAL CODED ALGORITHMS
- SEMANTIC SIMULATION & TEST
- AUTOMATED CHANGE MANAGEMENT
- SEMANTIC EXCHANGE OF CAPABILITIES



# 5. COMMUNICATION

- H2C, C2C, C2H
- SEMANTIC DESIGN
- SEMANTIC READING & WRITING
- DYNAMIC GENERATION OF CONTENT, MEDIA FORMATS & INTERACTIVITY FROM SEMANTIC MODELS AND INSTANCE DATA

**5D  
SEMANTIC WIKI  
DEMO**