The IDA Technology

Stan Franklin and the 'Conscious' Software Research Group







Introducing IDA



An intelligent software agent capable of entirely automating human information agents

- Customer Service Agents
- Travel Agents
- Insurance Agents
- Loan Officers



IDA Negotiates





IDA negotiates with clients in natural language—English



IDA Accesses Databases





IDA locates and understands information from databases



IDA Adheres to Policies





IDA understands and adheres to numerous company policies



IDA Makes Decisions





IDA makes sophisticated decisions involving deliberation and constraint satisfaction



IDA Produces a Product





IDA can produce useful products

- Airline tickets
- Loan papers
- Insurance policies



IDA Generates Hypotheses





IDA generates hypotheses about how minds work to guide cognitive scientists and neuroscientists

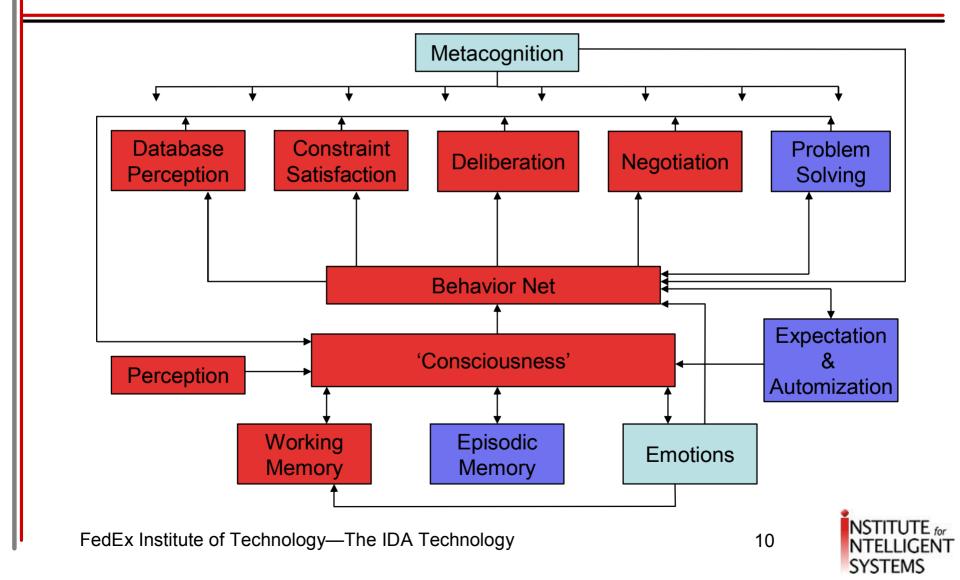


IDA'S Modules and Mechanisms

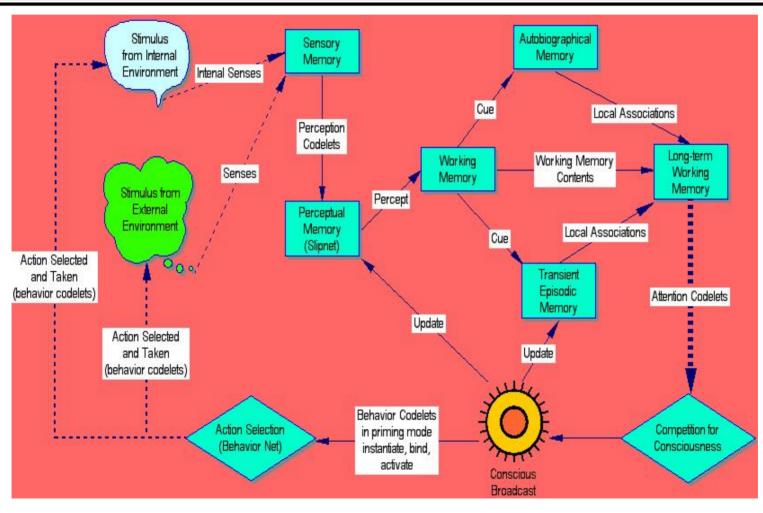
- Perception—Copycat Architecture—Hofstadter
- Action Selection—Behavior Net—Maes
- Episodic Memory—Sparse Distributed Memory—Kanerva
- Emotions—Pandemonium Theory—Jackson
- Metacognition—Fuzzy Classifier Systems—Holland
- Learning—Copycat Architecture, Reinforcement
- Constraint Satisfaction—Linear Functional
- Language Generation—Pandemonium Theory
- Deliberation—Pandemonium Theory
- 'Consciousness' —Pandemonium Theory



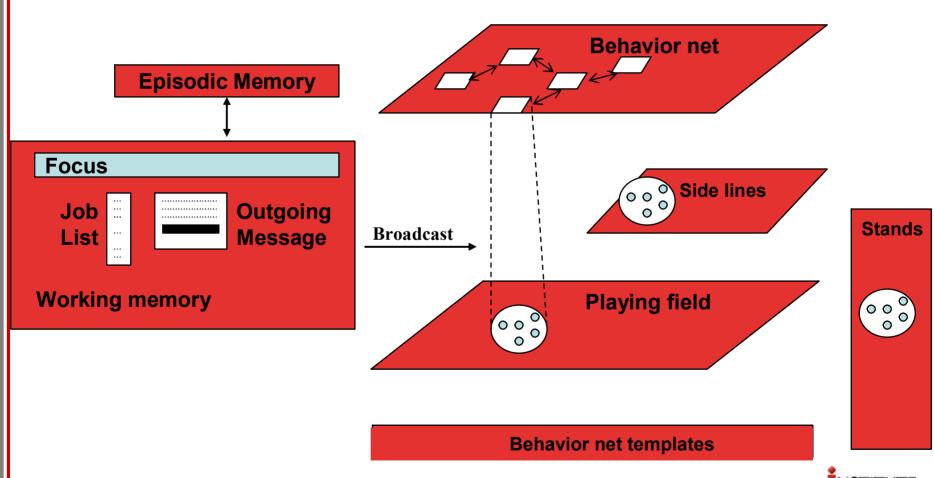
IDA's Architecture



IDA's Cognitive Cycle



IDA' Technology in Action





Is IDA Conscious?





IDA is functionally 'conscious', but what about subjective experience?

Is IDA the world's first conscious artifact?

