

Anton Kolonin Aigents Group http://aigents.com KESW-2015 Conference

**Goal:** Social intelligence platform for real-time evaluation of group belief system for collaborative decision making and opinion delivery in social environments



**Requirement 1:** Distributed (decentralized) storage of knowledge in "peer-to-peer" multi-agent network



**Requirement 2:** Dynamic evaluation of truth value based on social profiling and temporal scoping



Belief systems in social multi-agent environments



Compassion-based artificial psyche (Webmind)



B.Goertzel, A.Kolonin, J.Pressing, C.Pennachin (2000)



Fuzzy Logic: Non-Axiomatic Reasoning System (NARS)



Fuzzy Logic: Separating Strength and Confidence



Social evidence-based cognitive model



Distributed knowledge engineering and (social) evidence-based knowledge representation in multi-agent systems Applying resource constraints to the model



Distributed knowledge engineering and (social) evidence-based knowledge representation in multi-agent systems Approaching distributed multi-agent architecture



Webstructor: Types and functions of agents



Distributed multi-agent (peer-to-peer) architecture http://webstructor.net

Webstructor: Sharing "world" data visible in "views"



#### Webstructor: Distributed visual knowledge editor - 2D



Part of "biological kingdom" of Cyc "upper ontology"

## Webstructor: Distributed visual knowledge editor - 2D



Formula:"If tuna is a fish, it implies it is not an insect or a bird"

Webstructor: Distributed visual knowledge editor - 3D



(implies (isa ?A Animal) (thereExists ?M (and (mother ?A ?M) (isa ?M FemaleAnimal))))

## Webstructor: Distributed visual knowledge editor - 3D





Representing complex spatial data in hyper-space

# Thank you for attention!



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