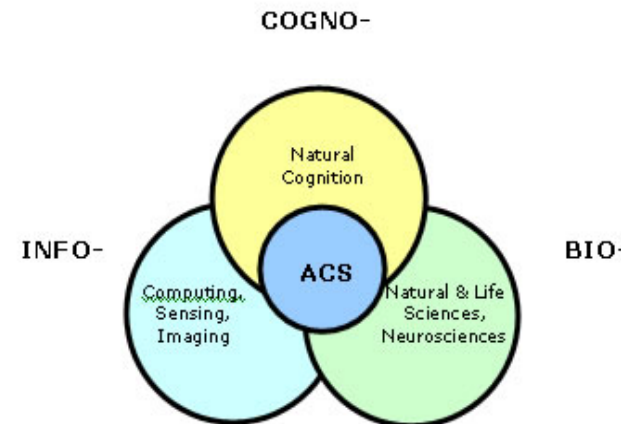
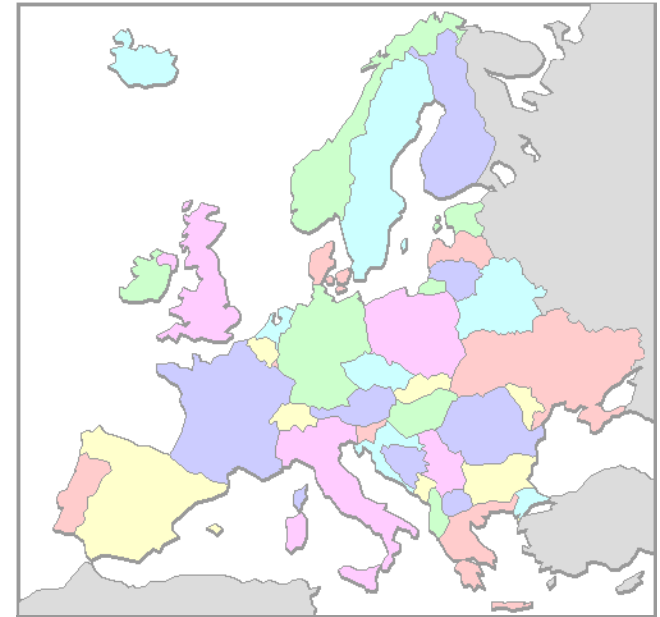


# Open source initiatives in the EU cognition program



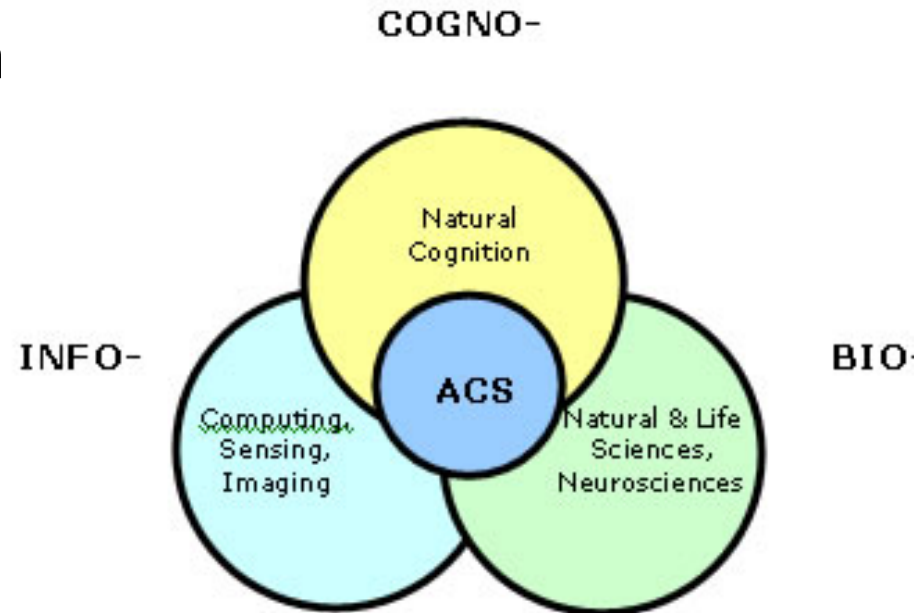
Patrick Courtney

- European Union research programme
  - Significant investment and momentum
  - Open to participation from USA, Japan
- Cognitive systems as a way of overcoming **uncertainty** due to interaction in real world
- Seeking to establish necessary theory
- Open source platforms to share experiences and run larger scale experiments.



# Cognitive systems as the intersection of three domains

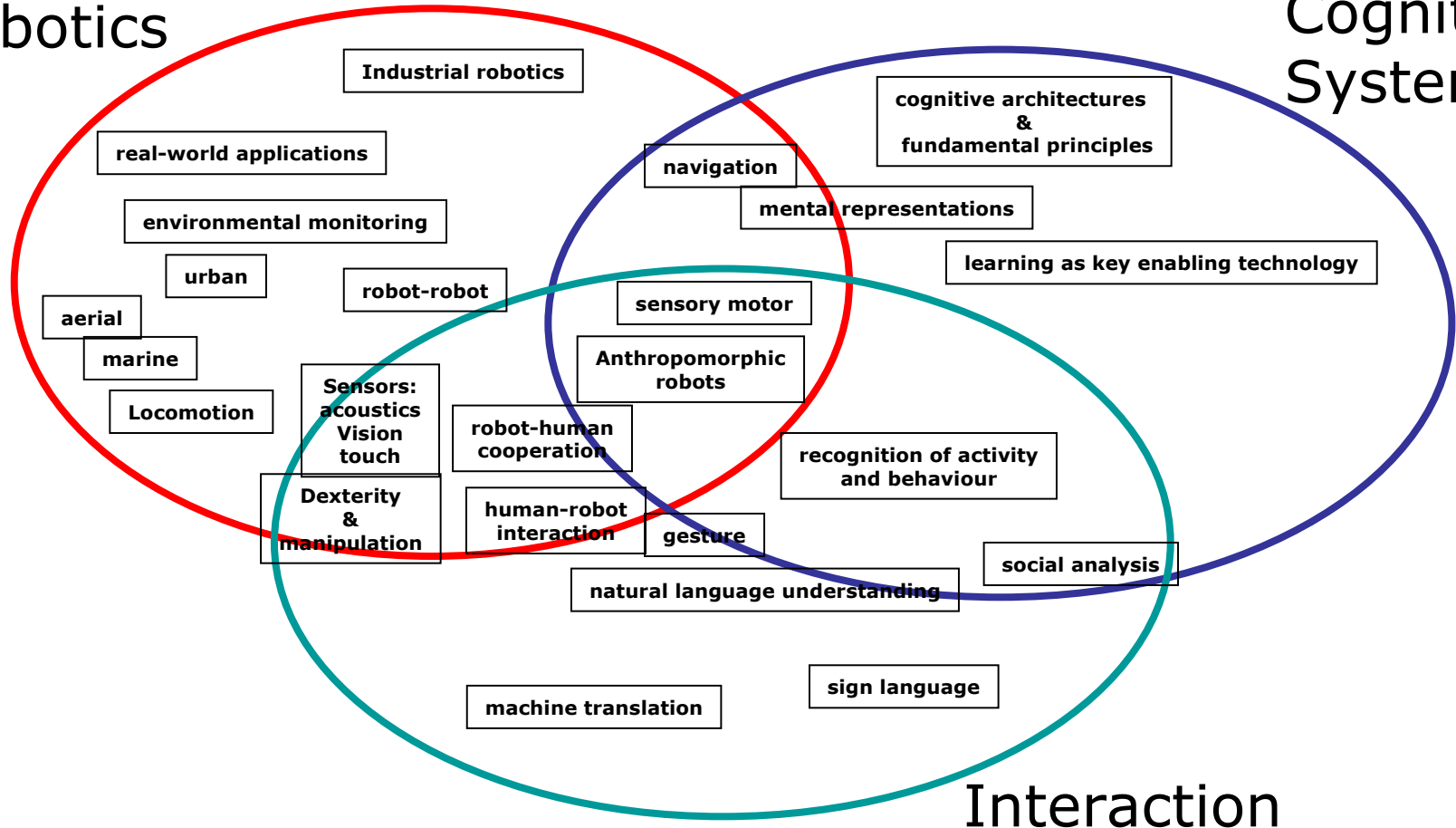
- New advances in related fields...
  - Psychology (young children, number systems, non-human...)
  - Neuroscience (mirror neurons, spiking neurons...)
- Various models for cognition
  - Classical symbolic
  - Emergent
  - Embodied
  - Cooperative and interacting



# Scope now covers cognition, robotics and interaction

Robotics

Cognitive Systems



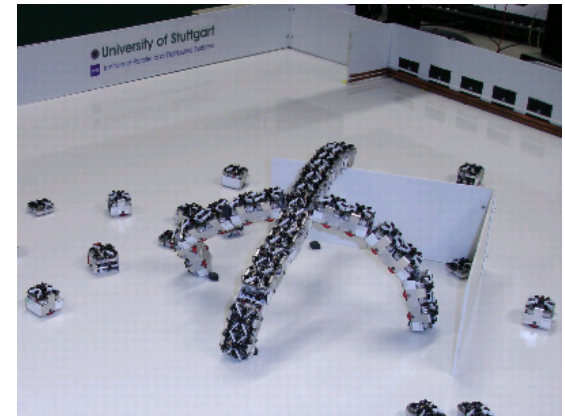
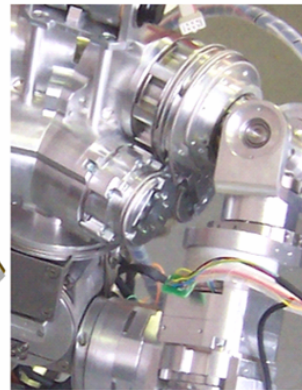
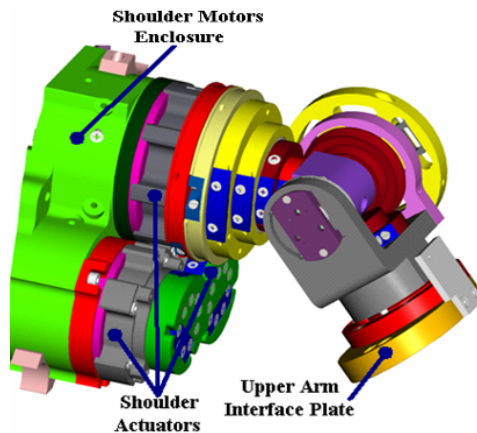
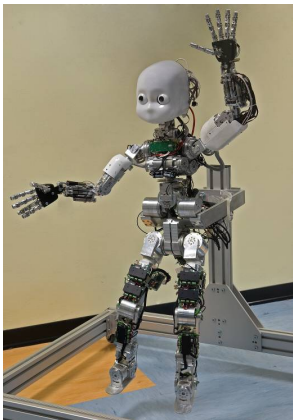
- “EU to double its R&D investment in robotics for 2009-2010 to €400M”

# Session running order

- "The Rat's Life Benchmark: Competing Cognitive Robots" Olivier Michel



- "The iCub humanoid robot an open platform for embodied cognition" Giorgio Metta
- "An Open-Source Simulator for Cognitive Robotics Research:" Angelo Cangelosi



- "Symbiotic Robot Organisms: Replicator & Symbrion Projects" Serge Kernbach
- "Virtual Agent Modeling in the RASCALLI Platform" Christian Schollum
- Supported by EU Cognition unit and euCognition network