

## Next Challenges for Semantic Technologies in Corporate Knowledge Management

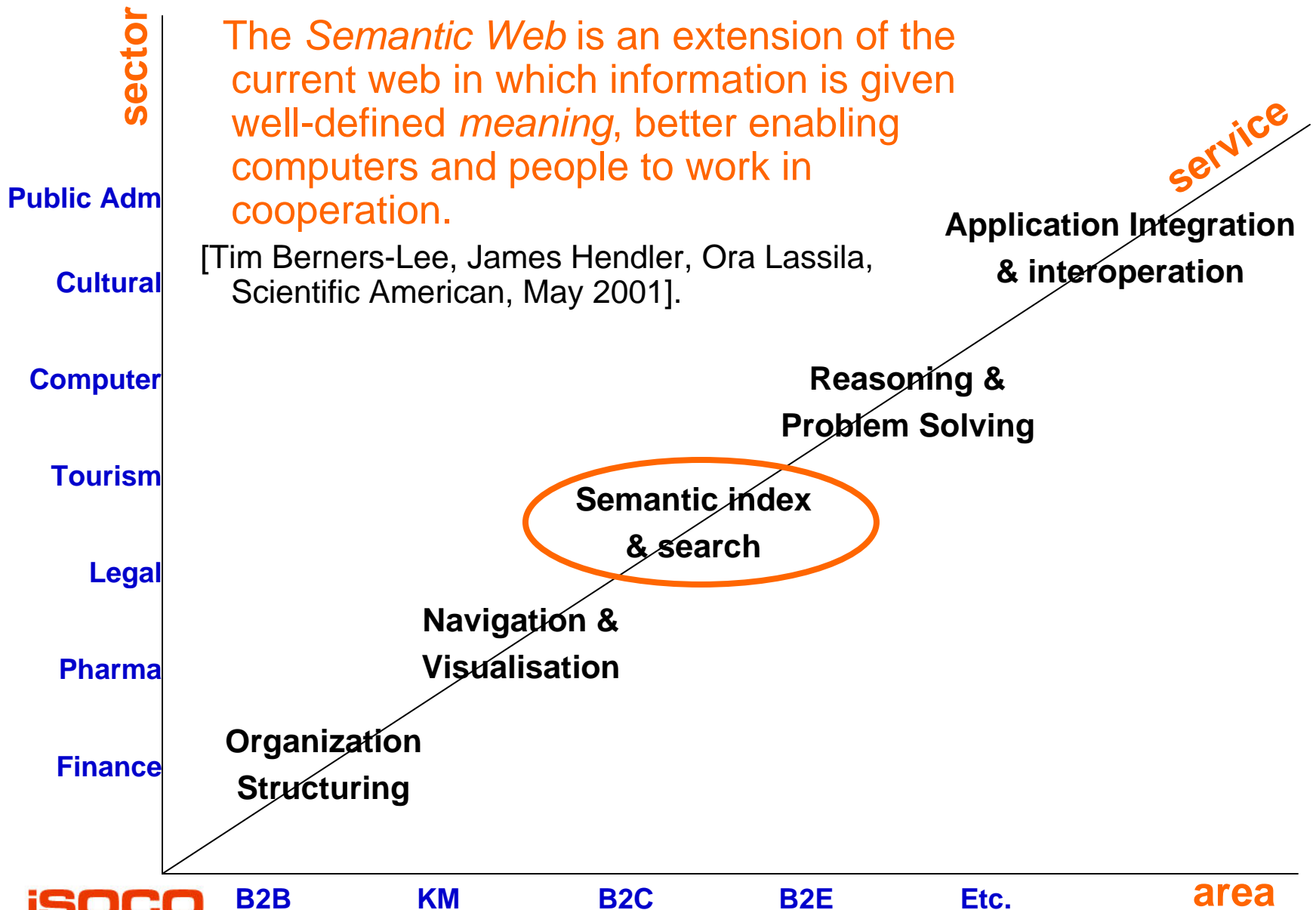


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# Types of Semantic Web Applications



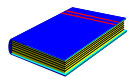
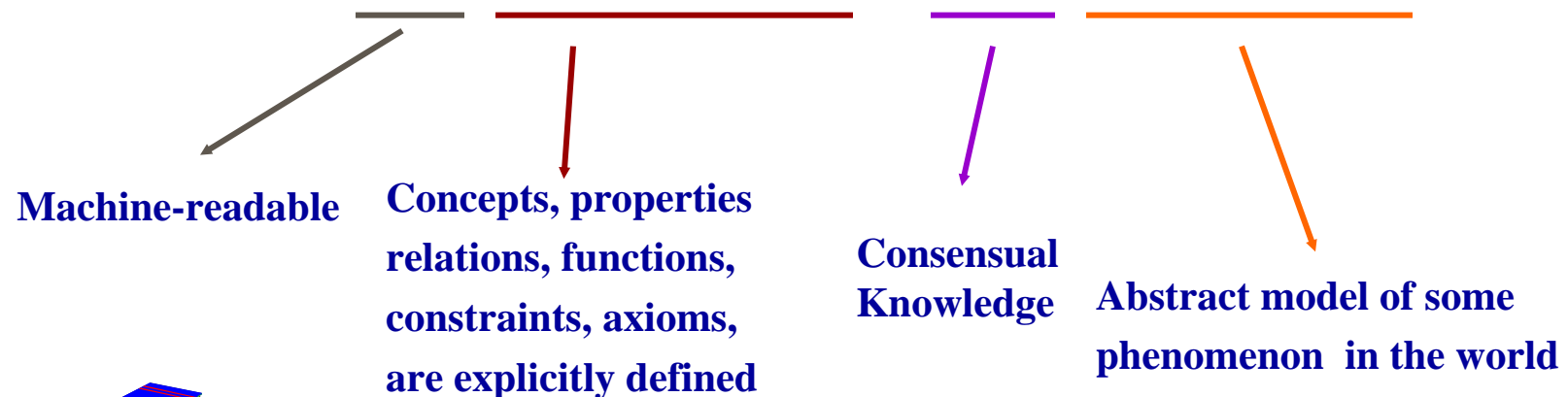


# KNOWLEDGE

- Knowledge is the most important asset to be managed by semantic applications
- However, knowledge needs to be explicitly represented in order to be automatically exploited by machines

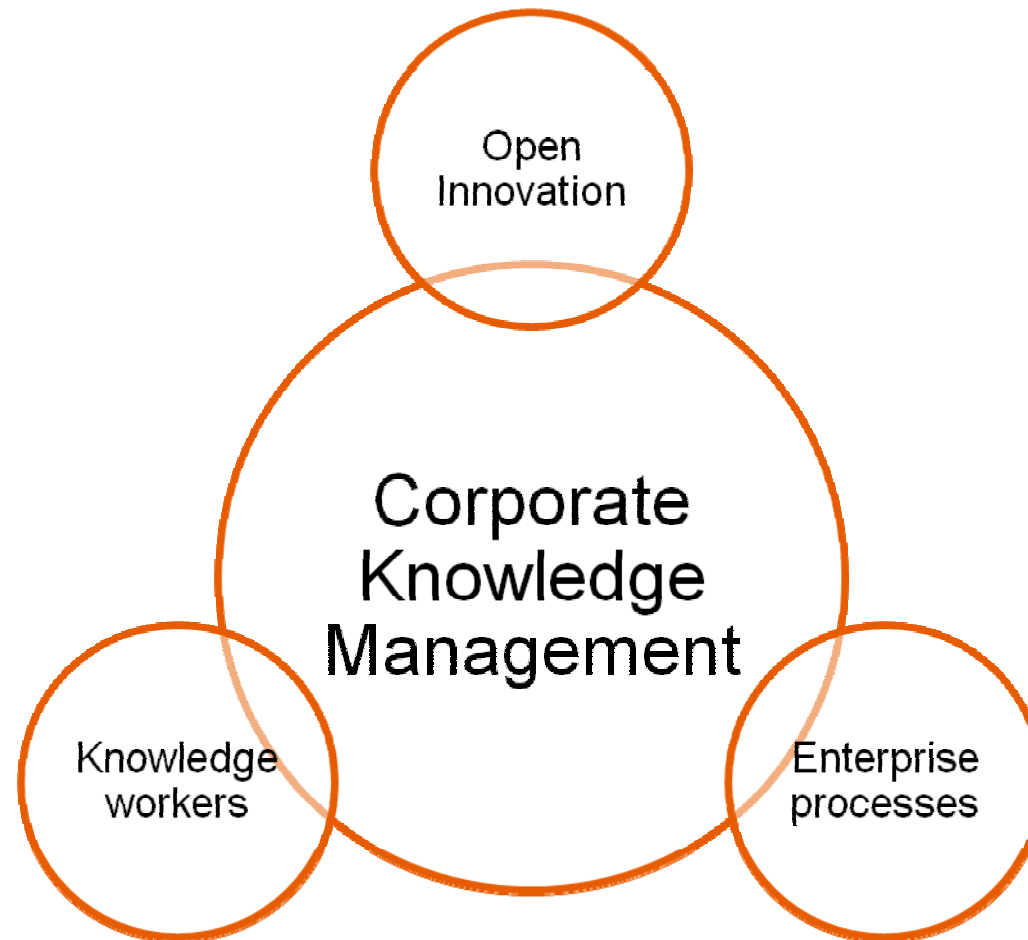
# ONTOLOGIES

**“An ontology is a formal, explicit specification of a shared conceptualization”**



# Next challenges for semantic technologies ■

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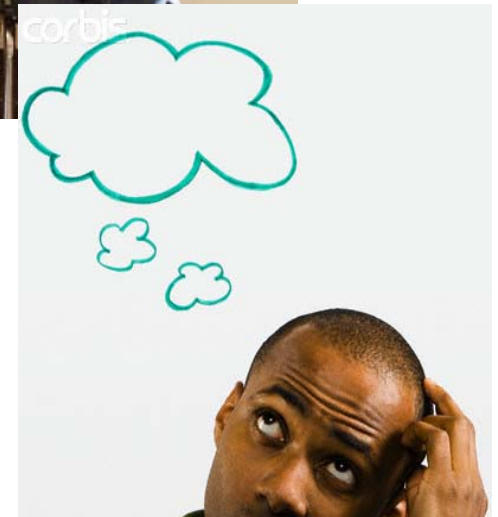




**employees**



**providers**



**clients**

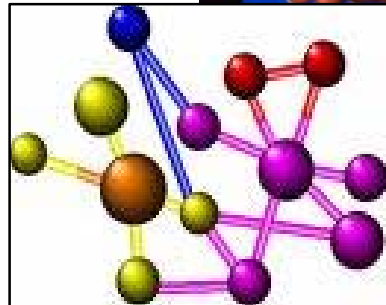
# Information that we own... and lose



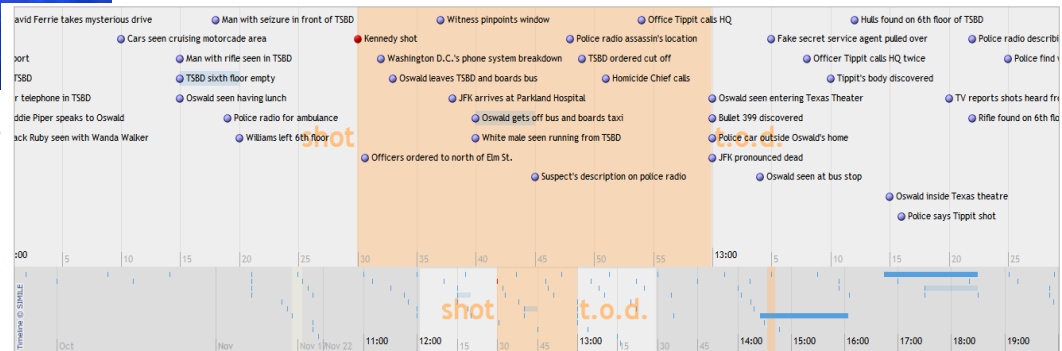
experts



relations between concepts (vs tags)

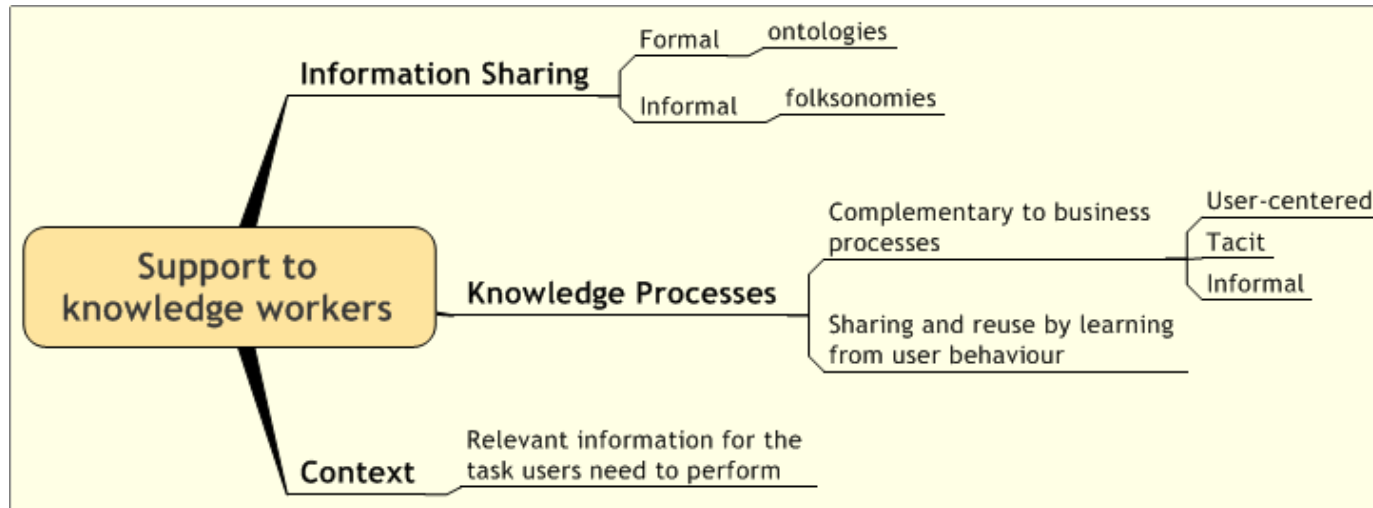
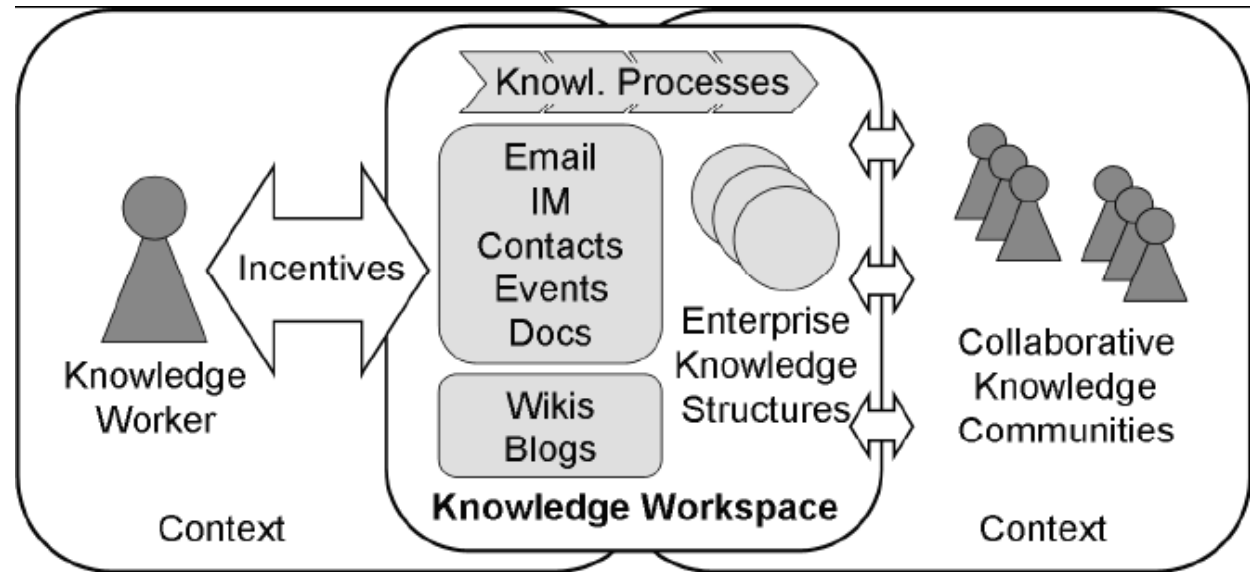


relations between ideas



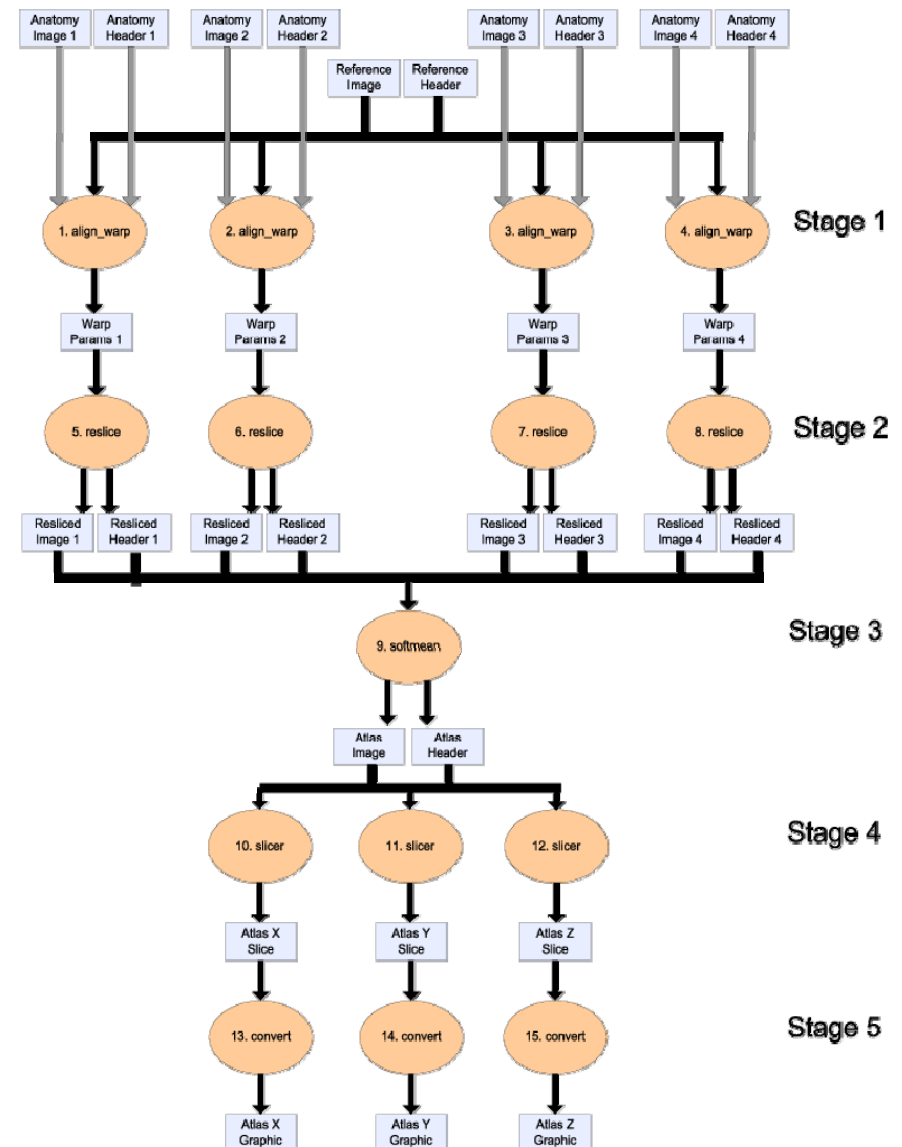
concepts in time

# Supporting knowledge workers



# Enterprise process (discovery and optimization)

- Large externalization of enterprise processes
  - Knowledge distributed amongst various providers
  - High risk of knowledge loss upon change of providers
- Enterprise processes need to be made explicit in order to allow
  - Knowledge preservation
  - Increase understanding of process execution
  - Process optimization
- Several approaches
  - Process mining e.g. ProM
  - Knowledge provenance e.g. KOPE



# Thanks for your attention! ■

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