



SEKT

SEmantic Knowledge Technology

<http://www.sekt-project.com/>

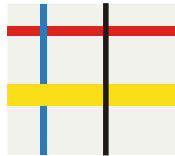
- addressing the semantic knowledge technology research agenda
- EU 6th framework Integrated Project
 - start date 1/1/2004
 - 36 months, €12.5m

- To deliver next generation semantic knowledge technology through:
 - *Foundational research*
 - (Semi-)automatic ontology generation and population
 - Ontology management (mediation, evolution, inferencing)
 - *Innovative technology development*
 - A suite of knowledge access tools
 - Open source ontology middleware platform
 - *Validated* by 3 case studies and benchmarking/usability activities
 - *Supported* by a methodology

The SEKT partners



University of Sheffield



kea-pro



BT



Semantic knowledge
management classifies, finds,
distributes, shares and uses
knowledge based on meaning
not the particular words used to
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Words and meanings

same word, different meanings

Jaguar

different words, same meaning

disability legislation

equal opportunity laws

different words, related meaning

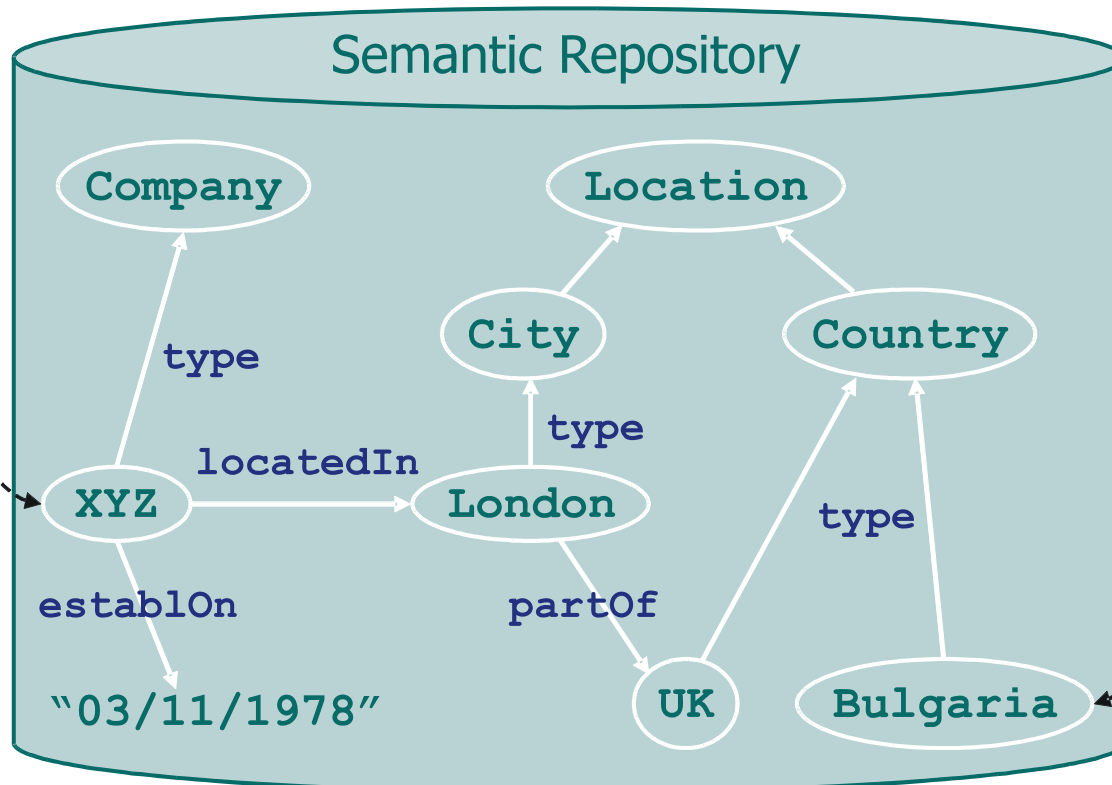
organisations

company

charity

public sector organisations

XYZ announced profits in Q3, planning to build a \$120M plant in Bulgaria, and more and more and more and more text...



Semantic Browsing



BBC NEWS | Business | South Korea fines Microsoft \$32m - Microsoft Internet Explorer

File Edit View Favorites Tools Help

KIM Plugin

Annotate Clear About

- Entity
 - Abstract
 - ContactInformation
 - GeneralTerm
 - Language
 - Number
 - Topic
 - BusinessAbstraction
 - NaturalPhenomenon
 - SocialAbstraction
 - TemporalAbstraction
 - Happening
 - Event
 - Situation
 - TimeInterval
 - Object
 - Agent
 - Location
 - Product
 - Service
 - Statement
 - Account
 - Brand

Classes Entities

Place Links

BBC NEWS

UK Version International Version About the versions | Low Graph

Last Updated: Wednesday, 7 December 2005, 09:56 GMT

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South Korea fines Microsoft \$32m

Microsoft has been fined 33bn won (\$32m; £18.4m) following an antitrust ruling by South Korean regulators.

The US software giant was ordered to unbundle its messaging service from its Windows software by South Korea's Fair Trade Commission.

Microsoft was accused of "hurting the interest of consumers"

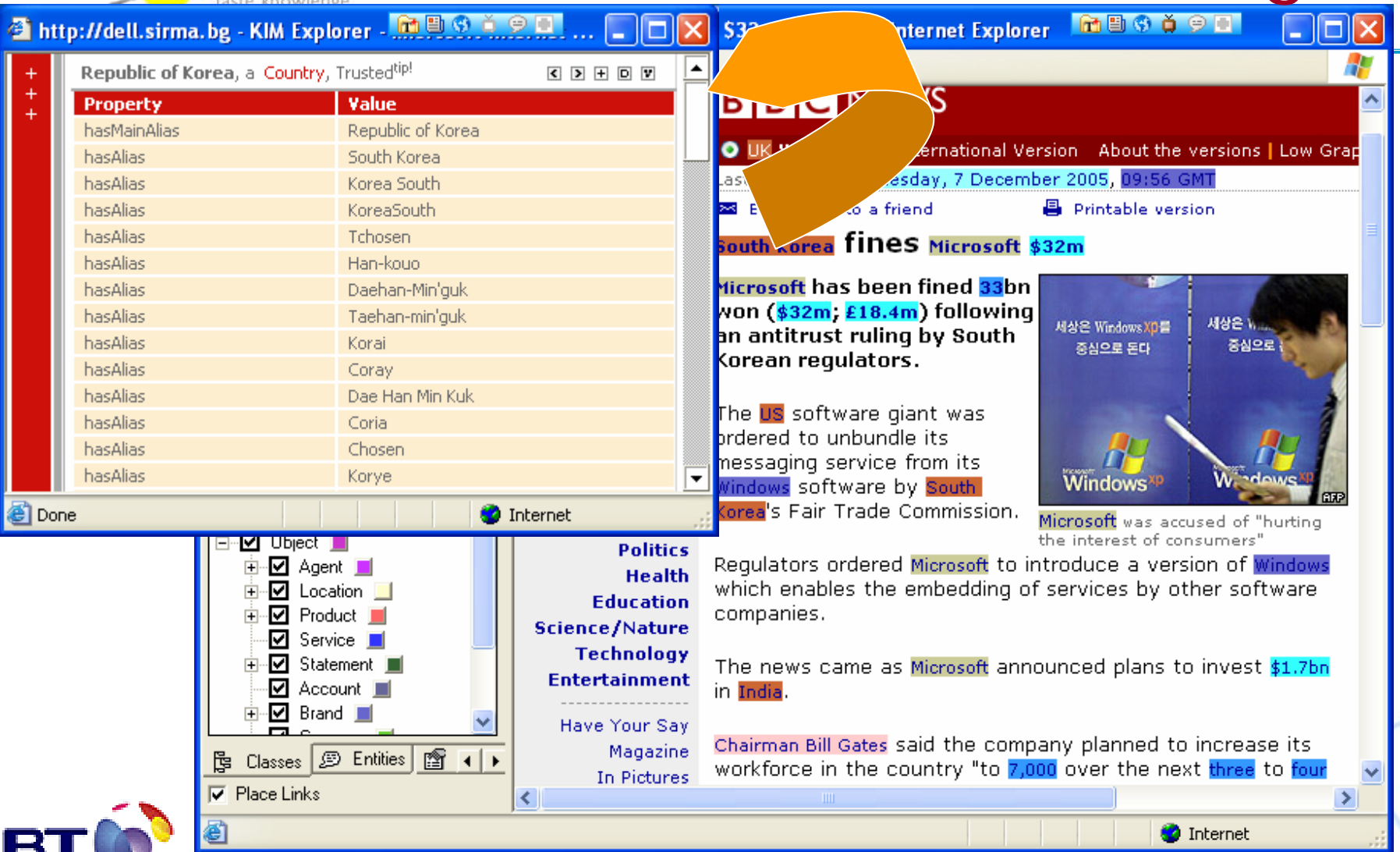
Regulators ordered Microsoft to introduce a version of Windows which enables the embedding of services by other software companies.

The news came as Microsoft announced plans to invest \$1.7bn in India.

Chairman Bill Gates said the company planned to increase its workforce in the country "to 7,000 over the next three to four

Internet

Semantic Browsing



The screenshot shows two browser windows. The left window, titled 'http://dell.sirma.bg - KIM Explorer', displays a semantic table for 'Republic of Korea, a Country, Trusted?'. The right window, titled 'Internet Explorer', shows a news article from the BBC with the headline 'South Korea fines Microsoft \$32m'. A large orange arrow points from the KIM Explorer table to the news article, indicating the semantic link between the two.

Property	Value
hasMainAlias	Republic of Korea
hasAlias	South Korea
hasAlias	Korea South
hasAlias	KoreaSouth
hasAlias	Tchosen
hasAlias	Han-kouo
hasAlias	Daehan-Min'guk
hasAlias	Taehan-min'guk
hasAlias	Korai
hasAlias	Coray
hasAlias	Dae Han Min Kuk
hasAlias	Coria
hasAlias	Chosen
hasAlias	Korye

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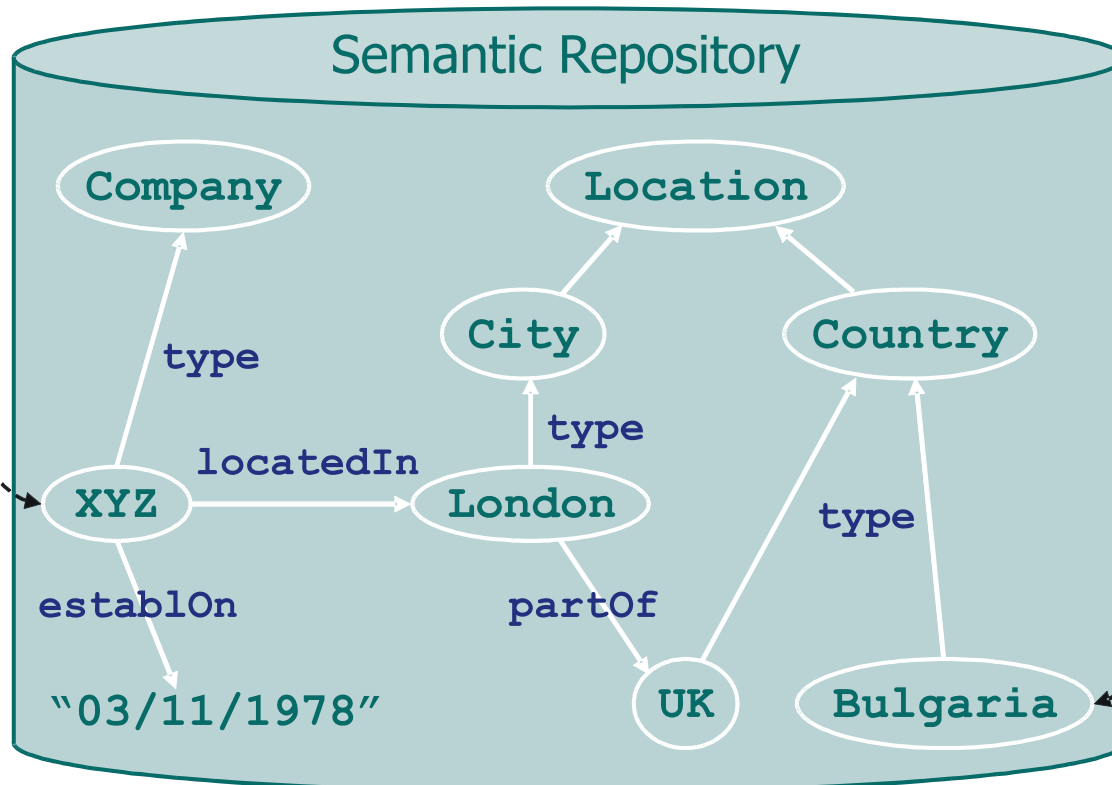
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- Semantic Search can match
 - a query: *Documents concerning a telecom company in Europe, with John Smith as a director,*
 - With a document containing: *“At its meeting on the 10th of May, the board of Vodafone appointed John Smith as CTO”*
- Traditional search engines cannot do the required reasoning:
 - Vodafone is a mobile operator, which is a kind of telecom company;
 - Vodafone is in the UK, which is a part of Europe;
 - CTO is a type of director

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Major research challenges

- Improve **automation** of ontology and metadata generation
- Research and develop techniques for **ontology management and evolution**
- Develop highly-**scalable** solutions
- Research sound **inferencing** despite inconsistent models
- Develop semantic **knowledge access tools**
- Develop **methodology** for deployment



helping newly-
appointed judges



helping IT consultants



a corporate digital library



- Use/refinement of SEKT methodology
- Usability, business benefits and benchmarking

SEKT applications