



Korean participation in the Large Knowledge Collider (LarKC)

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The Large Knowledge Collider

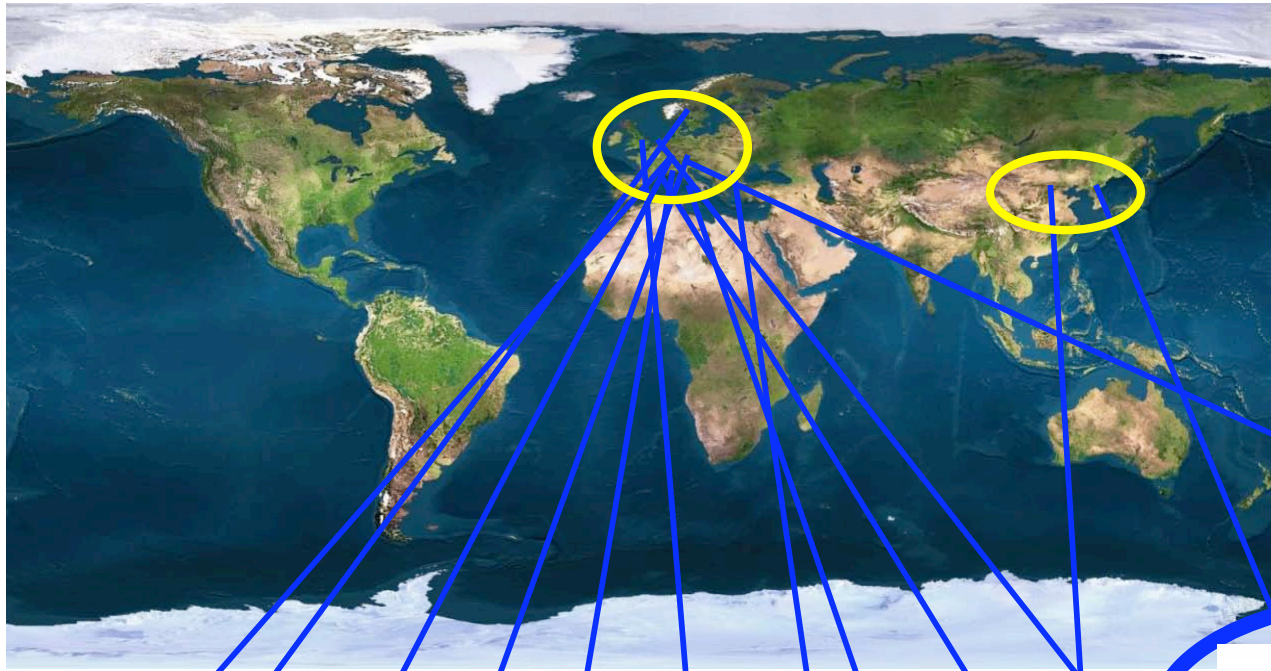


- 10M€ budget
- 7M€ EU contribution
- 3.5 years
- 80 person years
- 3 case studies
- 14 partners,
12 countries,
3 continents

- project nr. FP7 – 215535



The consortium



STI · INNSBRUCK

AstraZeneca 

 SIEMENS

 MAX-PLANCK-GESELLSCHAFT

 The University Of Sheffield.

 Web Intelligence Consortium 2002

 ontotext Semantic Technology Lab

 cyCorp

 H L R I S

 CEFRIEL FORGING INNOVATION

 vrije Universiteit

 Saltlux

Why would EU projects need Korean partners?



- Partners from Korea provide an opportunity to play a key role in **developing, disseminating and exploiting** leading-edge technologies derived from EU projects.
- This collaboration can facilitate the creation of **industrial relationships** between Asia, EU and beyond.
- European projects can take advantage of **worldwide information infrastructures**, with a Korean domestic market of 40 million Internet subscribers, 40 million cellular phone users and advanced ubiquitous information services
- Korea has the ability to provide an ideal environment to **demonstrate the added value of technologies** developed in Europe and applied to the resolution of a wide variety of problems associated with current IT systems.

LarKC is *already* cooperating with a Korean partner:



and the main reason is that...

- **Saltlux** is a leading Korean company in ontology and Semantic web technologies.
- **Saltlux** delivered many ontology-based products and many national projects in this area.
- **Saltlux** is a key partner with major telecom companies in Korea (KT and KTF).
- **Saltlux** has experience with several projects which require very large scale reasoning facilities

What is LarKC about?



- European is leading the world in research on the **Next Generation Internet**
- This Next Generation Internet is characterised by computers that can **process the meaning** of information on the Internet.
(Currently, all the information on the web is only interpreted by people, who read text and understand pictures.)
- Such a more "semantic" Next Generation Internet will require facilities for **very large scale manipulation of information** ("semantic computing at web scale").

- LarKC aims to develop the **"Large Knowledge Collider" (LarKC)**, a platform for massive distributed reasoning that will remove the scalability barriers of existing systems.

What is the role of SaltLux in LarKC?



- LarKC is building new infrastructure for very large scale reasoning on the Web
- the **Saltlux** case-study aims at providing information to mobile phone users based on personalised data (= matching data against personal profiles).
- **Saltlux will test the limits of what can be achieved** by the consortium
- **Saltlux** provides LarKC with an ideal environment to **demonstrate the real added value**, by resolving problems of current IT systems for telecommunications
- **Saltlux** provides a **global dimension to LarKC's dissemination programme**

What is the role of SaltLux in LarKC?



- **Saltlux** already has experience with delivery of **personalised and contextualised information and personalised and contextualised services to mobile phone users**, based on
 - their personal preferences,
 - their current location,
 - the time of day,
 - the location of their social contacts, etc.
- This requires **reasoning about the profiles, preferences, locations and contacts of millions of mobile phone users**.

- This will push the the performance of the LarKC platform to the limits.

How can any other interested Korean party contribute?



- The Large Knowledge Collider is an **open, and configurable platform**.
 - The first public version of the Large Knowledge Collider will be **available in a year from now**.
1. Organisations from outside the consortium can **use the LarKC platform** for their own purposes,
 2. LarKC will form an "**early adapters group**".
 - LarKC will **actively support** this group in use the Large Knowledge Collider platform.
 - This group will be given **access to a high-performance computing-cluster** in Germany for running LarKC on their own problems.

Korean parties (both academic and commercial) are welcome to contact us on this opportunity.

How to find out more? How to contact us?



- **website**

- project flyer
- mission and vision paper
- RSS feed



- **contacts:**

- project coordinator: Dieter Fensel
- scientific director: Frank van Harmelen
- project manager: Alice Carpentier



- **Korean students:** take part in the European Master Programme in Semantic Web



- **Korean researchers:** become visiting researchers at any of the LarkC participating academic groups