Knowledge in a Wiki

From 2008-03-01 to 2011-02-28, closed project | KIWI Website

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>Topic(s):</th>
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<tr>
<td>EUR 3 801 444</td>
<td>ICT-2007.4.2 - Intelligent content and semantics (ICT-2007.4.2)</td>
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<th>EU contribution:</th>
<th>Call for proposal:</th>
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<tr>
<td>EUR 2 690 002</td>
<td>FP7-ICT-2007-1 See other projects for this call</td>
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<tr>
<th>Coordinated in:</th>
<th>Funding scheme:</th>
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<tr>
<td>Austria</td>
<td>CP - Collaborative project (generic)</td>
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Description

Knowledge management in software development and project management is an exciting problem, as it involves tacit knowledge (e.g. about processes), distributed knowledge (different people, different systems), and many different kinds of semantically rich content (e.g. source code, documentation, tutorials, project work plans) that is strongly connected on the conceptual level. Current knowledge management systems only insufficiently support knowledge management in such areas, as they are not flexible enough to handle and integrate these kinds of content and provide only insufficient support for tacit knowledge.

Objective

The objective of the project KIWI is to develop an advanced knowledge management system (the "KIWI system") based on a semantic wiki. This system will support collaborative knowledge creation and sharing, and use semantic descriptions and reasoning as a means to intelligently author, change and deliver content. A particularly salient aspect of combining wikis with advanced semantic technologies is that the wiki still is a generic and flexible tool, but semantic technologies allow to provide specific support for the user based on domain, context, role, and experience.

The main outcomes of the project will be (1) an enhanced wiki vision (the "KIWI vision") describing how the "convention over configuration" paradigm of wikis combined with semantic technologies can lead to flexible and problem-oriented knowledge management, (2) a collaborative, web-based environment (the "KIWI system") that provides support for knowledge sharing, knowledge creation, and coordination in software and project knowledge management, (3) the evaluation of this system in two concrete, representative use cases at our industry partners, and (4) the "KIWI handbook", describing the project vision, the KIWI system functionalities, as well as giving recommendations and best practices for using the system in concrete knowledge management scenarios.

The KIWI consortium brings together leading research groups (SRFG, AAU, BUT, LMU Munich) in the areas of semantic wikis, reasoning, information extraction, personalisation, and knowledge management for software processes. These are matched by two large international corporations in knowledge intensive areas (Sun Microsystems and WM-data) that offer use cases demonstrating a clear need for the advanced knowledge management we envision in the project, and by a SME specialised in dissemination of semantic technologies to industry.

Related information

Documents and Publications | KIWI Annual Report 2008
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**Subjects**

Information Processing and Information Systems - Information and Media - Telecommunications

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