IKS

Project ID: 231527
Funded under: FP7-ICT

Interactive Knowledge Stack for small to medium CMS/KMS providers

From 2009-01-01 to 2012-12-31, closed project | IKS Website

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>Topic(s):</th>
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<tr>
<td>EUR 8 650 054</td>
<td>ICT-2007.4.4 - Intelligent content and semantics (ICT-2007.4.4)</td>
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<th>EU contribution:</th>
<th>Call for proposal:</th>
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<tr>
<td>EUR 6 579 998</td>
<td>FP7-ICT-2007-3 See other projects for this call</td>
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<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

A Semantic-based Open Source Platform for Small to Medium CMS Providers

IKS will raise the semantic capability of European software houses to develop intelligent content management solutions for their customers.

What is IKS?

IKS is an integrating project targeted at the hundreds of SMEs in Europe, which are providing technology platforms for content and knowledge management to thousands of end user organisations. Downstream, hundred-thousands of corporate end users and millions of content consumers are affected by the quality of service provided through these platforms. The majority of these platforms lack the capability for making use of semantic web enabled, intelligent content, and therefore, lack the capacity for users to interact with the content at the user's knowledge level!

The major technological result of the project will be the “Interactive Knowledge Stack”, a layered set of software components and specifications which will make traditional content management platforms capable of dealing with the future “Semantic Web”.

IKS will close the ...

• engineering gap for CMS architectures: the Interactive Knowledge Technology Stack will enable many open source CMS frameworks to become semantically enabled
• research gap on user interaction with knowledge objects: the use of semantics to support direct user interaction with knowledge content will be a focus of Interactive Knowledge
• research gap on empirical validation: we involve a group of six technology providers and further 50 smaller CMS/KMS providers for controlled engineering experiments to ensure quantitative analysis of requirements and of subsequent technology validation for semantically enabled, interactive knowledge and content management systems.
• ... impact gap for industrial take-up: starting with six industrial partners in the consortium, we will recruit 50 more European CMS/KMS providers and activate a dozen relevant open source communities to embrace IKS specifications, and be present in standards bodies (W3C,OASIS, etc).

IKS invites all stakeholders to work towards bringing European CMS/KMS providers to the leading edge of innovation in knowledge technologies, for the benefit of all users.

IKS Approach

IKS has developed a working hypothesis which we call the Interactive Knowledge Stack. We are trying to start a dialogue in the developer community, about the need for a conceptual layering. As a start, we developed the following concepts, visualized in the diagrams.
IKS does not say anything about implementation technology, but it tries to say something about translation from behavioural layers (at the level of interfaces) to descriptional layers (in the middle) and to distribution and data storage layers (at the level of repository backends).

**Objective**

Interactive Knowledge (IKS) is an integrating project whose target are the hundreds of SMEs in Europe providing technology platforms for content and knowledge management to thousands of end user organisations. Downstream, hundred-thousands of corporate end users and millions of content consumers are affected by the quality of service provided through these platforms. The majority of these platforms is built under the "Linux/Apache/mySQL/php" paradigm known as the LAMP stack. More advanced CMS platforms are provided by firms with a software engineering background using frameworks such as .NET and JEE5. All of these frameworks lack the capability for semantic web enabled, intelligent content, and therefore lack the capacity for users to interact with the content at the user's knowledge level! Interactive Knowledge will close the engineering gap for CMS architectures: the Interactive Knowledge Technology Stack will enable many open source CMS frameworks to become semantically enabled- research gap on user interaction with knowledge objects: the use of semantics to support direct user interaction with knowledge content will be a focus of Interactive Knowledge- research gap on empirical validation: we involve a group of six technology providers and further 50 smaller CMS/KMS providers for controlled engineering experiments to ensure quantitative analysis of requirements and of subsequent technology validation for semantically enabled, interactive knowledge and content management systems.- impact gap for industrial take-up: starting with six industrial partners in the consortium, we will recruit 50 more European CMS/KMS providers and activate a dozen relevant open source communities to embrace IKS specifications, and be present in standards bodies (W3C,OASIS, etc).

INTERACTIVE KNOWLEDGE invites all stakeholders to work towards bringing European CMS/KMS providers to the leading edge of innovation in knowledge technologies, for the benefit of all users.

**Related information**

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<th>Documents and Publications</th>
<th>IKS Annual Report 2010</th>
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<tr>
<td></td>
<td>IKS Publishable Summary 2011</td>
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<td>IKS Publishable Summary 2012</td>
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<td>IKS Flyer</td>
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<td>IKS Annual Report 2009</td>
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Information Processing and Information Systems - Information and Media - Telecommunications