



## **D1.6.4 Portal contents releases**

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**Abstract.**

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## Changes

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0.1	16-05-2005	M. Carmen Suárez-Figueroa	First Draft
0.2	15-06-2005	Ángel López-Cima	Statistics of instances
0.3	20-06-2005	Ángel López-Cima Asunción Gómez-Pérez	First Revision
0.4	30-06-2005	M. Carmen Suárez-Figueroa	Second Draft
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0.6	05-07-2005	M. Carmen Suárez-Figueroa	Third Draft
0.7	11-07-2005	Rosario Plaza-Arteche	Third Revision
0.8	15-07-2005	Jens Hartmann M. Carmen Suárez-Figueroa	Changes proposed by the Quality Controller
1.0	26-07-2005	Angel Lopez-Cima	Final Version

## Executive Summary

This deliverable presents the summary of the Knowledge Web<sup>1</sup> Portal Content.

The Knowledge Web Portal Content is described using different ontologies (*Documentation, Person, Event, etc.*), which allow to manage the Knowledge Web NoE. Such Portal Content (that is, the instances of concepts) is continuously changing because people and organizations involved in the NoE can insert new instances (*articles, students, meetings, etc.*) at any time. For this reason, the Portal Content is not the result of different concrete content releases, but is the result of the evolution (or history) of the number of instances of concepts.

This document presents firstly the statistics of the six ontologies managed by the Knowledge Web Portal (see Section 1). And secondly (in Section 2), the deliverable summarizes the evolution of the number of instances (*articles, people, meetings, etc.*) within the Knowledge Web Portal (from June 2004 until June 2005).

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<sup>1</sup> <http://knowledgeweb.semanticweb.org>

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## 1. Knowledge Web Portal Statistics

As stated in the deliverable *D.1.6.1 "Portal requirements analysis and system design"*, the Knowledge Web (KW) Semantic Portal<sup>2</sup> is built by reusing and improving the technology produced in the Esperonto (IST-2001-37343) project.

Such technology is called ODESeW [1], which is an ontology-based application built within the WebODE ontology engineering workbench<sup>3</sup>. ODESeW allows managing knowledge-intensive ontology-based Intranets and Extranets. The first version of ODESeW was developed in the framework of the Esperonto project for building the Esperonto Semantic Portal.

The Knowledge Web (KW) Semantic Portal is running since March 1<sup>st</sup>, 2004. This semantic portal is able to manage multiple ontologies. For the time being, six domain-specific ontologies (*Documentation, Event, Organization, Person, Project, and T-REX*) have been developed to be included in the KW Portal. These ontologies are intended to support the Knowledge Web NoE management, the result dissemination, and the different exchanges within the network. The six ontologies have been developed with METHONTOLOGY [2] and the WebODE ontology editor<sup>4</sup>, and have been evaluated with ODEval [3]. Such ontologies are available in RDFS and OWL at <http://knowledgeweb.semanticweb.org>. Five of the six ontologies used are presented in detail in the deliverable *D.1.6.2 "Portal Ontology"*.

The statistics of the six ontologies (number of concepts, attributes, and ad-hoc relations) on 30<sup>th</sup> May 2005 are shown in table 1.

	<i>Documentation Ontology</i>	<i>Event Ontology</i>	<i>Organization Ontology</i>	<i>Person Ontology</i>	<i>Project Ontology</i>	<i>T-REX Ontology</i>
<b>Concepts</b>	36	12	4	18	5	4
<b>Instance Attributes</b>	37	10	9	13	26	6
<b>Ad-hoc relations</b>	13	4	9	7	20	2

**Table 1.** KW Ontology Statistics

<sup>2</sup> <http://knowledgeweb.semanticweb.org>

<sup>3</sup> <http://webode.dia.fi.upm.es/>

<sup>4</sup> <http://webode.dia.fi.upm.es/>

## 2. Knowledge Web Content Evolution

The content (that is, the instances) of the six ontologies included in the KW Portal is available in RDF at <http://knowledgeweb.semanticweb.org>.

In order to show how the content in the KW Portal has evolved, we provide the history (from June 2004 until June 2005) of the number of instances of the following issues (concepts):

- Number of total publications, divided into the different kind of articles and the books. The evolution of the number of instances is shown in table 2 and in figure 1.
- Number of KW meetings, divided into the three types of area meetings and plenary meetings. The evolution of the number of instances is shown in table 3 and in figure 2.
- Number of persons involved in KW, divided into university staff, company staff, and students. The evolution of the number of instances is shown in table 4 and in figure 3.
- Number of exchanges within KW (T-REX ontology). The evolution of exchanges is shown in table 5 and and figure 4.

	<i>Jun 2004</i>	<i>Jul 2004</i>	<i>Aug 2004</i>	<i>Sep 2004</i>	<i>Oct 2004</i>	<i>Nov 2004</i>	<i>Dec 2004</i>	<i>Jan 2005</i>	<i>Feb 2005</i>	<i>Mar 2005</i>	<i>Apr 2005</i>	<i>May 2005</i>	<i>Jun 2005</i>
<b>Publication</b>	1	6	9	0	10	32	19	2	0	3	0	0	2
<b>Article</b>	1	6	9	0	10	28	13	2	0	3	0	0	2
<b>Article in Book</b>	0	0	0	0	1	0	2	1	0	0	0	0	0
<b>Article in Conference</b>	0	3	4	0	4	13	9	0	0	3	0	0	1
<b>Article in Journal</b>	0	2	1	0	1	4	1	1	0	0	0	0	0
<b>Article in Workshop</b>	1	1	4	0	4	11	1	0	0	0	0	0	1
<b>Book</b>	0	0	0	0	0	4	6	0	0	0	0	0	0

**Table 2.** History of the Number of Publications



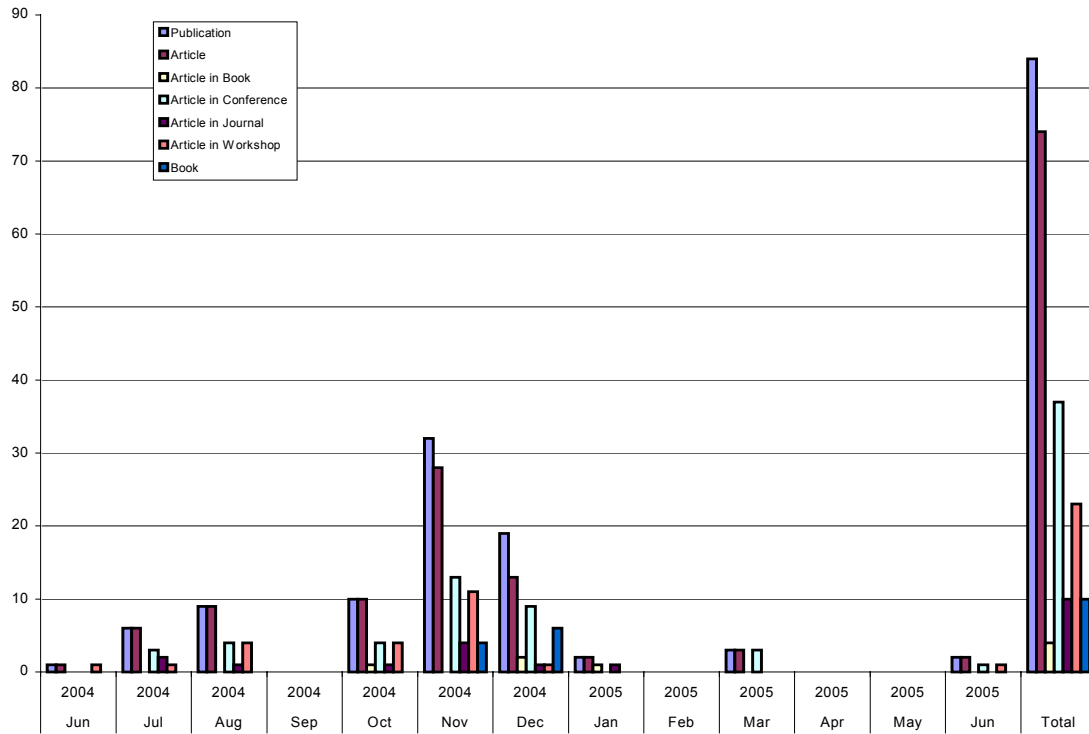


Figure 1. Graphic of the Evolution of the Number of Publications

	<i>Jun 2004</i>	<i>Jul 2004</i>	<i>Aug 2004</i>	<i>Sep 2004</i>	<i>Oct 2004</i>	<i>Nov 2004</i>	<i>Dec 2004</i>	<i>Jan 2005</i>	<i>Feb 2005</i>	<i>Mar 2005</i>	<i>Apr 2005</i>	<i>May 2005</i>	<i>Jun 2005</i>
<b>KW Area Meeting</b>	3	2	0	2	0	2	4	0	2	0	0	0	3
<b>Industry Area Meeting</b>	1	1	0	0	0	1	2	0	1	0	0	0	1
<b>Research Area Meeting</b>	1	1	0	0	0	0	1	0	0	0	0	0	0
<b>Education Area Meeting</b>	1	0	0	2	0	1	1	0	1	0	0	0	2
<b>KW Plenary Meeting</b>	0	2	0	0	0	0	1	0	1	0	0	0	0

Table 3. History of the Number of KW Meetings

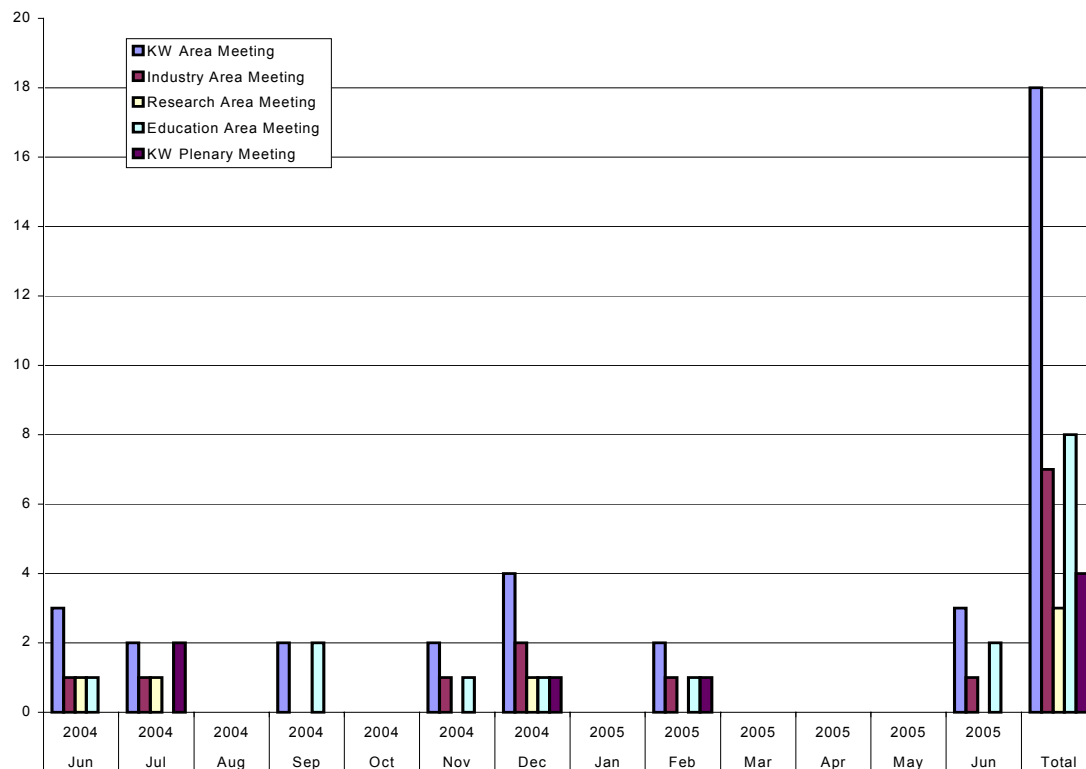
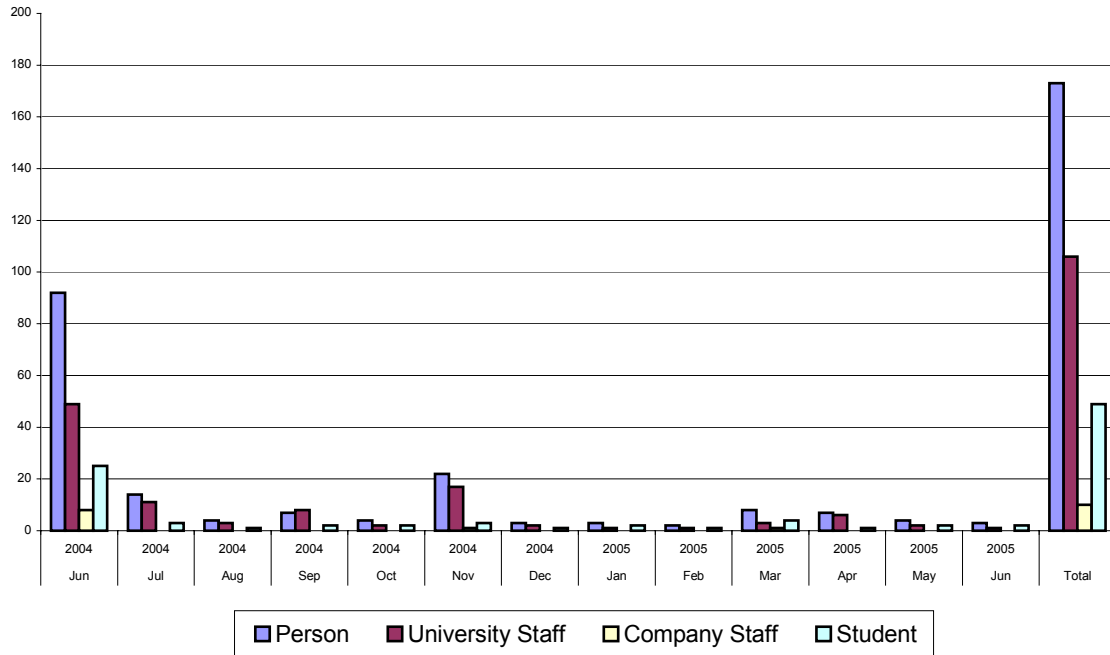


Figure 2. Graphic of the Evolution of the Number of KW Meetings

	<i>Jun 2004</i>	<i>Jul 2004</i>	<i>Aug 2004</i>	<i>Sep 2004</i>	<i>Oct 2004</i>	<i>Nov 2004</i>	<i>Dec 2004</i>	<i>Jan 2005</i>	<i>Feb 2005</i>	<i>Mar 2005</i>	<i>Apr 2005</i>	<i>May 2005</i>	<i>Jun 2005</i>
<b>Person</b>	92	14	4	7	4	22	3	3	2	8	7	4	3
<b>University Staff</b>	49	11	3	8	2	17	2	1	1	3	6	2	1
<b>Company Staff</b>	8	0	0	0	0	1	0	0	0	1	0	0	0
<b>Student</b>	25	3	1	2	2	3	1	2	1	4	1	2	2

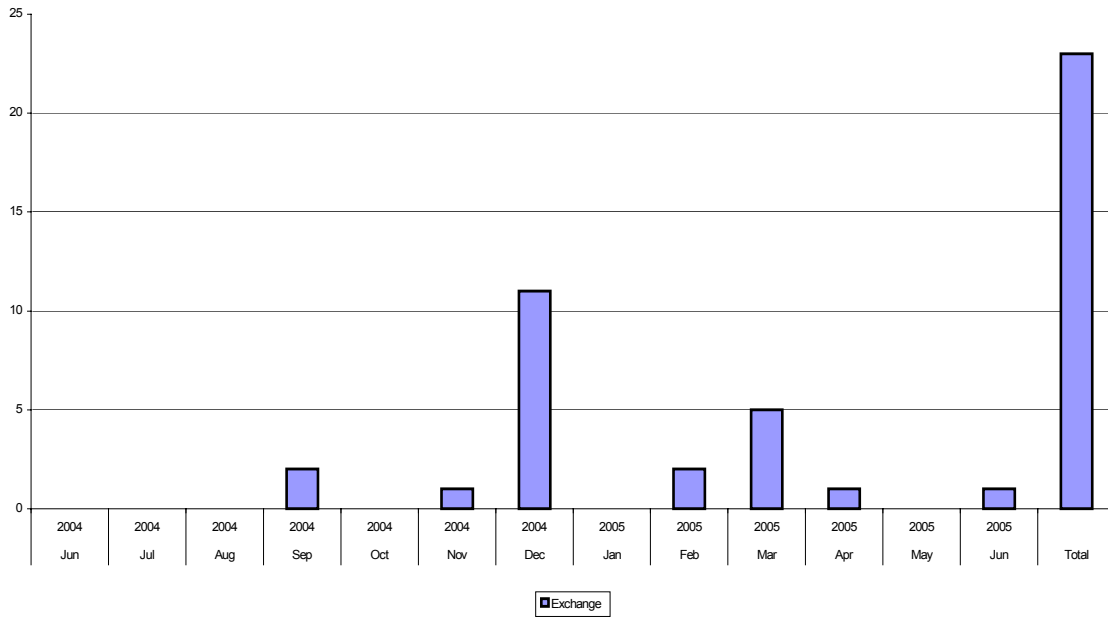
Table 4. History of the Number of Persons



**Figure 3.** Graphic of the Evolution of the Number of Persons

	<i>Jun 2004</i>	<i>Jul 2004</i>	<i>Aug 2004</i>	<i>Sep 2004</i>	<i>Oct 2004</i>	<i>Nov 2004</i>	<i>Dec 2004</i>	<i>Jan 2005</i>	<i>Feb 2005</i>	<i>Mar 2005</i>	<i>Apr 2005</i>	<i>May 2005</i>	<i>Jun 2005</i>
<b>Exchange</b>	0	0	0	2	0	1	11	0	2	5	1	0	1

**Table 5.** History of the Number of Exchanges



**Figure 4.** Graphic of the Evolution of the Number of Exchanges

### 3. Conclusions

In this deliverable we have presented the history (or evolution) of the number of instances of those issues, that we think they are the most interesting for the Knowledge Web management. Such issues are: *publications*, *people*, *meetings* and *exchanges*.

Regarding *publications*, we can see in figure 1 that there is a burst in the statistics (November and December 2004). This fact could be because of a mail sent to the mailing list in order to encourage Knowledge Web partners to populate the portal, specially papers in which such partners acknowledge KW.

In the case of *people*, we can mention there was an important burst at the beginning, and then the changes in the number of people involved in KW have kept more or less constant.

Regarding *meetings* related with the three different areas in KW, we can mention meetings take normally place every two months, so this regular recurrence could be seen in the statistics.

In the case of *exchanges* of people, which facilitate the research collaboration between partners, it is difficult to establish some kind of conclusions, because such exchanges have not a concrete date and period in advance. Furthermore, partners and people involved in the exchanges can decide when the exchange take place and how long it lasts.

Finally, we want to mention that it is difficult to extract conclusions about how is the evolution of the number of instances, because people and partners can update the Portal Content at any time, and this time could be (for example) two or three months after the document publication date or the meeting date.

## 4. References

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