



Data, Information and Process Integration  
with Semantic Web Services

## **DIP**

*Data, Information and Process Integration with Semantic Web Services*

**FP6 - 507483**

Deliverable

### **WP 9: Case Study e-Government**

#### **D9.7**

Dissemination, Training and Exploitation

Rob Davies, MDR Partners

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## **EXECUTIVE SUMMARY**

A range of activities is planned that will contribute to public sector take-up and indirectly to commercial exploitation of the DIP WP9 prototypes and to raising awareness of the potential benefits of SWS technologies amongst the e-Government stakeholder community; These activities are planned mainly for M30-M36, i.e. for the second half of 2006. This deliverable describes the overall strategy for this work within the resources available to WP9 and links this to specific objectives and then to activities conducted and planned. The deliverable will be updated toward the end of the project.

## Document Information

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<b>Authors (Partner)</b>	MDR Partners			
<b>Responsible Author</b>	Robert Davies		<b>Email</b>	rob.davies@mdrpartners.com
	<b>Partner</b>	MDR	<b>Phone</b>	+44-208-8763121




<b>Abstract (for dissemination)</b>	Describes the general dissemination, awareness raising and exploitation support plans and activities of the e-Government use case and the strategy underlying them.		
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<b>Reviewer</b>	
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<b>Elmar Dorner</b>	Reviewer 1		<b>Email</b>	[elmar.dorner@sap.com]
	<b>Partner</b>	SAP	<b>Phone</b>	
<b>Carlos Pedrinaci</b>	Reviewer 2		<b>Email</b>	C.Pedrinaci@open.ac.uk
	<b>Partner</b>	OU	<b>Phone</b>	

## Project Consortium Information

Partner	Acronym	Contact
National University of Ireland Galway	NUIG 	Dr. Sigurd Harand Digital Enterprise Research Institute (DERI) National University of Ireland, Galway Galway Ireland Email: <a href="mailto:sigurd.harand@deri.org">sigurd.harand@deri.org</a> Tel: +353 91 495112
Fundacion De La Innovacion.Bankinter	Bankinter 	Monica Martinez Montes Fundacion de la Innovacion. BankInter Paseo Castellana, 29 28046 Madrid, Spain Email: <a href="mailto:mmtnez@bankinter.es">mmtnez@bankinter.es</a> Tel: 916234238
British Telecommunications Plc.	BT 	Dr John Davies BT Exact (Orion Floor 5 pp12) Adastral Park Martlesham Ipswich IP5 3RE, United Kingdom Email: <a href="mailto:john.nj.davies@bt.com">john.nj.davies@bt.com</a> Tel: +44 1473 609583
Swiss Federal Institute of Technology, Lausanne	EPFL 	Prof. Karl Aberer Distributed Information Systems Laboratory École Polytechnique Fédérale de Lausanne Bât. PSE-A 1015 Lausanne, Switzerland Email : <a href="mailto:Karl.Aberer@epfl.ch">Karl.Aberer@epfl.ch</a> Tel: +41 21 693 4679
Essex County Council	Essex 	Mary Rowllatt, Essex County Council PO Box 11, County Hall, Duke Street Chelmsford, Essex, CM1 1LX United Kingdom. Email: <a href="mailto:maryr@essexcc.gov.uk">maryr@essexcc.gov.uk</a> Tel: +44 (0)1245 436524
Forschungszentrum Informatik	FZI 	Andreas Abecker Forschungszentrum Informatik Haid-und-Neu Strasse 10-14 76131 Karlsruhe Germany Email: <a href="mailto:abecker@fzi.de">abecker@fzi.de</a> Tel: +49 721 9654 0
Institut für Informatik, Leopold-Franzens Universität Innsbruck	UIBK 	Prof. Dieter Fensel Institute of computer science University of Innsbruck Technikerstr. 25 A-6020 Innsbruck, Austria Email: <a href="mailto:dieter.fensel@deri.org">dieter.fensel@deri.org</a> Tel: +43 512 5076485

Partner	Acronym	Contact
ILOG SA	ILOG  Changing the rules of business	Christian de Sainte Marie 9 Rue de Verdun, 94253 Gentilly, France Email: <a href="mailto:csma@ilog.fr">csma@ilog.fr</a> Tel: +33 1 49082981
inubit AG	Inubit 	Torsten Schmale inubit AG Lützowstraße 105-106 D-10785 Berlin Germany Email: <a href="mailto:ts@inubit.com">ts@inubit.com</a> Tel: +49 30726112 0
Intelligent Software Components, S.A.	iSOCO 	Dr. V. Richard Benjamins, Director R&D Intelligent Software Components, S.A. Pedro de Valdivia 10 28006 Madrid, Spain Email: <a href="mailto:rbenjamins@isoco.com">rbenjamins@isoco.com</a> Tel. +34 913 349 797
MDR Partners	MDR 	Rob Davies MDR Partners 8 St. Andrew Street Hertford, Herts. United Kingdom, SG14 1JA, Email: <a href="mailto:rob.davies@mdrpartners.com">rob.davies@mdrpartners.com</a> +44 (0)208 8763121
Hanival Internet Services GmbH	HANIVAL 	Alexander Wahler Hanival Internet Services GmbH Kirchengasse 13/1a A-1070 Wien Email: <a href="mailto:wahler@niwa.at">wahler@niwa.at</a> Tel:+43(0)1 3195843-11
The Open University	OU  The Open University	Dr. John Domingue Knowledge Media Institute The Open University, Walton Hall Milton Keynes, MK7 6AA United Kingdom Email: <a href="mailto:j.b.domingue@open.ac.uk">j.b.domingue@open.ac.uk</a> Tel.: +44 1908 655014
SAP AG	SAP 	Dr. Elmar Dörner SAP Research, CEC Karlsruhe SAP AG Vincenz-Priessnitz-Str. 1 76131 Karlsruhe, Germany Email: <a href="mailto:elmar.dorner@sap.com">elmar.dorner@sap.com</a> Tel: +49 721 6902 31

Partner	Acronym	Contact
Sirma AI Ltd.	<p>Sirma</p> 	<p>Atanas Kiryakov,  Ontotext Lab, - Sirma AI EAD  Office Express IT Centre, 3rd Floor  135 Tzarigradsko Chausse  Sofia 1784, Bulgaria  Email: <a href="mailto:atanas.kiryakov@sirma.bg">atanas.kiryakov@sirma.bg</a>  Tel.: +359 2 9768 303</p>
Unicorn Solution Ltd.	<p>Unicorn</p> 	<p>Jeff Eisenberg  Unicorn Solutions Ltd,  Malcha Technology Park 1  Jerusalem 96951  Israel  Email: <a href="mailto:Jeff.Eisenberg@unicorn.com">Jeff.Eisenberg@unicorn.com</a>  Tel.: +972 2 6491111</p>
Vrije Universiteit Brussel	<p>VUB</p> 	<p>Pieter De Leenheer  Starlab- VUB  Vrije Universiteit Brussel  Pleinlaan 2, G-10  1050 Brussel ,Belgium  Email: <a href="mailto:Pieter.De.Leenheer@vub.ac.be">Pieter.De.Leenheer@vub.ac.be</a>  Tel.: +32 (0) 2 629 3749</p>

## **LIST OF KEY WORDS/ABBREVIATIONS**

ECC	Essex County Council
ESCW	European Semantic Web Conference
GIS	Geographical Information Services
ISCW	International Semantic Web Conference
OU	Open University
SWS	Semantic Web Service
WP9	Work Package 9
WSMO	Web Service Modelling Ontology

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## **1 DISSEMINATION, EXPLOITATION AND TRAINING STRATEGY: INTRODUCTION**

Although both general awareness of the Semantic Web and the implementation of Web Services are growing steadily within the e-Government field, awareness of Semantic Web Services (SWS) as a technology and appreciation of its potential benefits remains at a low level among e-government practitioners, standards groups and policy makers in Europe. Conversely, a substantial number of opportunities to present SWS applications, research results and new approaches which are potentially relevant to the e-Government field have begun to appear at academic research and industry conferences and workshops.

Given the inevitably finite resource available to WP9 partners for dissemination activities specifically directed to the e-Government area, the main question is how to divide and prioritise these resources between:

- a) activities intended to raise awareness of /kick-start interest in the potential benefits of SWS for e-Government policy makers and practitioners at the same time as
- b) capitalising on the opportunities available to make an impact through the DIP use case results at the academic research level, in due course no doubt resulting in a trickle down effect through industry to the e-Government field as the general technology and applications become more mature and usable.

The main tools available to underpin dissemination in both contexts are the work done and the iterative manifestations of the two prototype applications developed in the e-Government use case namely:

- Change of Circumstances Prototype, developed during the first period of the project
- ‘GIS’ Emergency Planning Prototype, developed during the second half of the project and still under iterative development

The first of these two prototypes is probably more central to mainstream European Interoperability agendas for e-Government (especially the high priority given to Change of Address services within the European Interoperability Framework). However, the functionality and performance of the DIP prototype (and the extent to which it draws upon heterogeneous data sources) are somewhat less impressive in the context of stimulating interest and demonstrating potential benefits than those of the Emergency Planning Prototype which, for example, has already been selected as one of the top five entrants for the Semantic Web Challenge at the ISWC Conference 2006. Therefore, the Emergency Planning prototype is being used as the basis of the dissemination activity being carried out by DIP WP9.

A relatively wide range of dissemination activities are planned in the context of their contribution to exploitation and take-up. Most of this work is planned for the last six months of the project (M30-36) on the basis that an application with increasingly rich functionality, utilising a widening range of dispersed and heterogeneous data sources will be available to underpin the work

The **objectives** of these activities include:

1. Establishing a framework for future exploitation of SWS within Essex County Council, as a key reference site for live or near-live take-up of SWS. The primary target for this work is the Essex Emergency Planning cadre who have shown themselves to be impressed by the potential benefits as demonstrated by the use case.
2. Raising awareness of the potential benefits of SWS technologies amongst the e-Government stakeholder communities in the UK and at least two other countries of Europe. Resource and time constraints preclude a more widespread effort to reach e-Government personnel in a larger number of countries. This will require attention by one means or another post-DIP. However, the activities DIP will provide an important opportunity to test the water and evaluate initial responses.
3. Continuing to influence the academic and industry research environments by participation through papers, poster/demos, challenges etc in high level international conferences and a range of appropriate European conferences with a specific focus on SWS in eGovernment or similar opportunity, falling within the timeframe of the last 6-9 months of the project...
4. Influencing the e-Government standards environment in the UK and at European level so as to ensure inclusion of SWS standards in the somewhat lengthy and laborious processes of adoption which characterise the sector. The more general standardisation and standards body lobbying work being performed elsewhere in the project (via OASIS, W3C etc) is also likely to trickle down to e-Government in due course.
5. Influencing the e-Government strategic environment in the UK so as to encourage take up of SWS technologies. Again, the focus of effort in this context is to utilise the Emergency Planning Prototype to leverage more general interest in the potential of SWS more generally in e-Government.

Specific areas of **activity** planned in order to achieve these objectives include:

1. Strategic activities within **Essex CC** (corresponding to Objective 1 above)
2. **Dissemination Activities** intended to stimulate exploitation (corresponding to Objectives 2 and 3). The specific numbers of each type of activity chosen reflect the perceived time and resource constraints of the WP and the project
3. Utilisation and support for pre-existing **multiplier and training mechanisms** in the e-Government sector (Objectives 2 and 5)
4. Definition and description of the **business case and models** for corporate investment in SWS for e-Government (Objectives 2 and 5)
5. Lobbying and **support for standardisation** of WSMO/WSML/WSMX through channels visible to and influential in the e-Government sector (Objective 3)
6. **Identifying a community of interest** and public authorities willing to **partner** in further development of SWS (Objectives 2 and 5).
7. **Seeking further project funding** for necessary development of e-Government applications and roll-out of services across Europe (Objectives 2 and 5)

## 2 ACTIVITY PLANNING

The following is a planning chart describing the current state of planning and progress with these activities.

2006

	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>1 Strategic activities within Essex CC</b>											
1.1 Influence review of infrastructure/underlying technical architecture											
1.2 Seek to introduce WS (and SWS) to ViewEssex											
1.3 Seek to move Emergency Planning prototype from demo to working system in Essex											
<b>2 Dissemination Activities</b>											
2.1 List potential public/private stakeholder contacts (UK)											
2.2 Establish a 'community of interest' in SWS for e-Government, including a web page.											
2.3 Create a prototype demo-based SWS in e-Government roadshow for use in structured workshops, conferences and ad hoc			V1					V2			V3
2.4 Organise at least three awareness-raising workshops in UK for segmented e-Government audiences (e.g. central government, local government, IT suppliers)											
2.5 Place in the e-Government and IT press three key articles on the potential of SWS in e-Government											

	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.6 Organise at least two other awareness-raising workshops in other EU countries (e.g. Germany, Spain)									Spain	Germany	
2.7 Establish a conference presentation schedule covering at least four events with strong exploitation potential in Europe and/or internationally											
<b>3 Multiplier and training mechanisms</b>											
3.1 Identify existing 'multiplier' dissemination and training bodies for example the Emergency Planning College in the UK											
3.2 Create introductory training toolkit for e-Government personnel (covering use of SWS tools via WSMX, IRSIII), Web Services, ontology creation, WSMO descriptions											
<b>4 Business case and models</b>											
4.1 Document initial business case argumentation aimed at corporate levels in a) central government departments b) local authorities											
4.2 Produce D9.16 Summative report on potential applications of SWS in e-Government.											
<b>5 Support for standardisation</b>											
5.1 Establish and maintain contact with the CEN/ISSS pre-standards/ e-Government working groups at European level and provide appropriate information and documentation.											
5.2 Ensure the introduction of SWS as an important area for consideration of future standards to key groups (CIOs, CTOs, Interoperability etc) in framework of UK eGU/eGIF											

	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
5.3 Seek to gain the support of two central government departments in the UK as sponsors of SWS standards via the eGU/eGIF											
<b>6. Identifying a community of interest and partners</b>											
6.1 Identify one or more government agencies or local authorities in the UK willing to work on future joint development of SWS for implementation within their services											
6.2 Identify one or more local authorities in at least one other EU country willing work on future joint development of SWS for implementation within their services											
6.3 Assist DIP industrial partners in targeting key players in the e-Government area											
<b>7. Seeking further project funding</b>											
7.1 Write at least one further project proposal (dependent upon relevant calls) for research and/or take-up activities on SWS in the e-Government domain											

### **3 PROGRESS TO DATE**

#### **1 Strategic activities within Essex CC**

1.1 Review still underway.

1.2 Discussions underway with Essex Emergency Planners who have expressed interest in the work and the Emergency Planning Prototype and are co-operating closely in its development on a daily basis. An Essex user group meeting was held on 6 June 2006.

1.3 See 1.2.

#### **2 Dissemination Activities**

2.1 A stakeholder database of contacts has been established and is being updated and maintained by MDR.

2.2 The creation of a user group web page has been agreed and this will be established in September 2006. The user group is drawn initially from people attending focus and user group meetings hosted by Essex during 2006, but also coming from other local authority areas and agencies such as the Ordnance Survey (mapping agency) and is currently based mainly around Emergency Planning stakeholders. This nucleus will provide a basis for subsequent expansion.

2.3 An online demo is available for use, with periodic updated versions, currently at <http://irs-test.open.ac.uk/sgis-dev/vlad/sgis.htm>

2.4 Planning is underway to align these with key e-Government events in the UK during the Autumn of 2006.

2.5 Initial approaches to a list of 10 e-Government and government IT journals, bulletin boards and news services have been made during July 2006. There was one response, follow up calls will take place in September. Journalists will also be invited to the awareness raising events (2.3)

2.6 Planning is underway with DIP partners (ISOCO and SAP, respectively) for events:

Spain (October 5), an event at which large numbers of municipal authorities and other stakeholders are to be invited

Germany (November). Planning is currently being discussed with SAP. .

2.7 See table below. Work on the Emergency Planning Prototype won the Scripting Prize at the ESWC, Budva, Montenegro, May 2006. The prototype application has also been selected as one of the top five applicants for the Semantic Web Challenge at ISWC, Atlanta, Georgia, November 2006 (the final result will be announced at the conference)

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#### **3 Multiplier and training mechanisms**

3.1 Essex is in discussion with the UK Emergency Planning College regarding an approach to training using the SWS Emergency Planning prototype and supporting documentation. Effective co-operation with the College, which has already expressed

interest in the DIP work could provide a powerful exemplar of ways to reach e-Government personnel with SWS technology through specialised training systems.

3.2 Work to commence later.

#### **4 Business case and models.**

4.1 Incorporated in D9.8 - SWS Application Areas in e-Government.

4.2 Work to begin in September leading to completion of 9.16 - Summative report on potential applications of SWS in e-Government. .

#### **5 Support for standardisation**

5.1 MDR participated in a European eGovernment standards working group workshop April 2006, introduced the work of DIP and the WSMO standards suite and is maintaining contact with the Group. Progress may be slow as the Group is under resourced and appears to have other priorities at present.

5.2 To be pursued through and following UK awareness raising workshops, Autumn 2006, to which these representatives of these groups will be invited.

5.3 As 5.2

#### **6. Identifying a community of interest and partners**

6.1 Initial interest by several authorities was expressed at the e-Government Forum meeting, Essex, 17 January 2006 and user group meeting in June 2006 and will be followed up. Local authorities showing initial interest included Birmingham, Cambridgeshire and Hertfordshire

6.2 Contacts to be pursued local and/or central government authorities in Spain, Germany and elsewhere e.g . following the planned awareness raising workhops.

6.3 Consolidation will be undertaken during Autumn 2007.

#### **7. Seeking further project funding**

7 Opportunities to be sought and assessed under e.g. IST FP7, e-Content plus, e-Ten etc.

#### **Additional activities**

- OU KMI participated in the At Your Service Workshop organised by the European Commission in Brussels 27 June 2006, resulting in the following an announcement on the IST results page.  
<http://istresults.cordis.europa.eu/index.cfm/section/news/tpl/article/BrowsingType/Features/ID/82690>.
- OU KMI has also prepared an article on the use case for submission to scientific journals.
- Planning is underway for the WWW Conference 2007.

#### 4 DIPWP9 CONFERENCE CALENDAR

Corresponds to section 3, para 2.7 above

Event	Venue	Date (2006)	DIP submission	Lead responsibility	Submitted	Accepted	Delivered	Comments/feedback
European Semantic Web Conference (ESCW)	Budva, Montenegro	11-14 June	Paper for e-Government workshop	Alessio Gugliotta, OU	YES	YES	YES	The workshop was attended mainly by known players in the SWS eGovernment academic research field and chaired by OntoGov personnel. There was discussion of the need to establish closer relations between SW projects and IT practitioner user groups in the eGovernment field.
			Poster/demo	Leticia Gutierrez, Essex	YES	YES	YES	Significant interest was expressed by the 21 visitors to the stand.
Asian Semantic Web Conference	Beijing, China	3-7 Sept	Poster/demo	Leticia Gutierrez, Essex	YES	YES	YES	

Event	Venue	Date (2006)	DIP submission	Lead responsibility	Submitted	Accepted	Delivered	Comments/feedback
International Semantic Web Conference (ISCW)	Atlanta, Georgia, USA	5-9 Nov	Paper for SEBIZ 2006 workshop	Alessio Gugliotta, OU	YES	YES		
			Paper for Terra Cognita Workshop	Vlad Tanasescu, OU	YES	YES		
			Poster/demo	Leticia Gutierrez, Essex	YES			
			Entry for Semantic Web Challenge	Vlad Tanasescu, OU	YES	YES (top 5)		
Enhancing Public Administration Back-Offices Towards e-Government	Olten, Switzerland	22-24 Nov	Paper	Mary Rowlatt/Leticia Gutierrez, Essex	YES			
Semantics 06 Industry session: practical Scenarios & Showcases	TechGate, Vienna, Austria	28-30 Nov	Paper	Rob Davies. MDR	YES			