

SemSorGrid4Env

FP7-223913



Deliverable

D9.4 v2

Report on Dissemination Activities

Cornelia Hedeler

and

Consortium members

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Executive Summary

This document summarizes the dissemination activities for the SemSorGrid4Env project from September 1st 2008 until August 31st 2011 according to the plan for dissemination activities as outlined in deliverable D9.2. The activities are organized as follows by topics:

- Electronic and print publications (Journals, Conferences and Workshops with proceedings)
- Talks/Presentations/Demonstrations/Tutorials (incl. Invited talks)
- Students working on project / Use of project material in taught course
- Collaboration with other projects / Participation in standardisation efforts
- Organisation of conferences / workshops
- Contact / Meetings with potential users (incl. Demonstrations for potential users)
- Public release of software / videos / how-to guidelines



Note on Sources and Original Contributions

The SemSorGrid4Env consortium is an inter-disciplinary team, and in order to make deliverables self-contained and comprehensible to all partners, some deliverables thus necessarily include state-of-the-art surveys and associated critical assessment. Where there is no advantage to recreating such materials from first principles, partners follow standard scientific practice and occasionally make use of their own pre-existing intellectual property in such sections. In the interests of transparency, we here identify the main sources of such pre-existing materials in this deliverable:

- Dissemination activities that fall between September 1st 2008 and 31st August 2010 were already reported in the first year report and/or second year report.
- Dissemination activities that fall within the first 18 months of the project were already reported in v1 of this document (D9.4 v1 Dissemination report).

This document, however,

- i) Describes these previously reported dissemination activities in a more systematic way;
- ii) Includes some new information on some previously reported activities;
- iii) Includes some new activities from the above periods previously not reported; and
- iv) Is the main description of later dissemination activities.



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Authoring Partner	UNIMAN						
QA Partner	NKUA						
Contact Person	Cornelia Hedeler						
	Email	chedeler@cs.manchester.ac.uk	Phone	+ 44 161 275 6183	Fax	+44 161 275 6236	
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0.5. 28/03/11	Populated Templates for completed activities for all WPs				Consortium members		
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1.0 29/08/11	Final version				C. Hedeler + consortium members		

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Partner	Acronym	Contact
Universidad Politécnica de Madrid (Coordinator)	UPM 	Prof. Dr. Asunción Gómez-Pérez Facultad de Informática Departamento de Inteligencia Artificial Campus de Montegancedo, sn Boadilla del Monte 28660 Spain #e asun@fi.upm.es #t +34-91 336-7439, #f +34-91 352-4819
The University of Manchester	UNIMAN 	Prof Norman Paton Department of Computer Science The University of Manchester Oxford Road Manchester, M13 9PL, United Kingdom #e npaton@cs.man.ac.uk #t +44-161-275 69 10, #f +44-161-275 62 04
National and Kapodistrian University of Athens	NKUA 	Prof. Manolis Koubarakis University Campus, Ilissia Athina GR-15784 Greece #@ koubarak@di.uoa.gr #t +30 210 7275213, #f +30 210 7275214
University of Southampton	SOTON 	Prof. David De Roue University Road Southampton SO17 1BJ United Kingdom #@ dder@ecs.soton.ac.uk #t +44 23 80592418, #f +44 23 80595499
Deimos Space, S.L.	DMS 	Mr. Agustín Izquierdo Ronda de Poniente 19, Edif. Fiteni VI, P 2, 2º Tres Cantos, Madrid – 28760 Spain #@ agustin.izquierdo@deimos-space.com #t +34-91-8063450, #f +34-91-806-34-51
EMU Limited	EMU 	Dr. Bruce Tomlinson Mill Court, The Sawmills, Durley number 1 Southampton, SO32 2EJ – United Kingdom #@ bruce.tomlinson@emulimited.com #t +44 1489 860050, #f +44 1489 860051
TechIdeas Asesores Tecnológicos, S.L.	TI 	Dr. Jesús E. Gabaldón C/ Marie Curie 8-14 08042 Barcelona, Spain #@ jesus.gabaldon@techideas.es #t +34.93.291.77.27, #f ++34.93.291.76.00



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1. Introduction

This deliverable presents the final version of the report on dissemination activities of the SemSorGrid4Env project. The first version was delivered on 28th February 2010.

This document reports on all the dissemination activities carried out throughout the project.

To ensure consistency in reporting the dissemination activities, templates for various kinds of dissemination activities (planned and completed) were placed on the project wiki (for each WP), which were then completed by each project partner. From the information provided on the project wiki the present report was assembled.

The following table contains a summary of the dissemination activities throughout the project:

Dissemination activity	Number
Electronic and print publications (of which there are) (accepted / planned)	25 / 10
• Journal publications (accepted / planned)	5 / 6
• Conference publications (accepted / submitted or planned)	12 / 3
• Workshop publications (accepted / submitted or planned)	8 / 1
Talks / Presentations / Demonstrations / Tutorials (of which there are)	42
• Invited talks	13
• Talks / Presentations	15
• Demonstrations	9
• Tutorials	2
Students working on project	10
Use of project material for taught courses	3
Collaboration with other projects	9
Participation in standardization efforts	3
Organisation of conferences / workshops	12
Contacts / Meetings with potential users (of which there are)	
• Meetings with potential users	> 20
• Concertation meetings	6
• Demonstrations for potential users	9
Public release of software / videos and other material	15

The partners feel that the project has achieved its goals regarding dissemination in all of the above categories.

2. Electronic and print publications

2.1. Journal publications

Planned/ actual date	Publication details	Type of audience	Countries addressed	Partners responsible / involved
July 2010 (online)	Atlas: Storing, updating and querying RDF(S) data on top of DHTs, Zoi Kaoudi, Manolis Koubarakis, Kostis Kyzirakos, Iris Miliaraki, Matoula Magiridou and Antonios Papadakis-Pesaresi (2010) Web Semantics: Science, Services and Agents on the World Wide Web, 8 (4), pp. 271-277, doi:10.1016/j.websem.2010.07.001	Research	International	NKUA
Nov 2010 (online)	SNEE: A Query Processor for Wireless Sensor Networks. Ixent Galpin, Christian Y. A. Brenninkmeijer, Alasdair J. G. Gray, Farhana Jabeen, Alvaro A. A. Fernandes and Norman W. Paton. (2011) Distributed and Parallel Databases, Special Issue: Query Processing in Sensor Networks, 29 (1-2), pp. 31-85, doi: 10.1007/s10619-010-7074-3	Research	International	UNIMAN
Dec 2010	Five challenges for the Semantic Sensor Web. Oscar Corcho, Raúl García-Castro (2010) Semantic Web Journal, 1 (1-2), pp. 121-125, doi: 10.3233/SW-2010-0005	Research	International	UPM
June 2011 (online)	Reconstructing coastal flood occurrence combining sea level and media sources: a case study of the Solent, UK since 1935. Amy C. Ruocco, Robert J. Nicholls, Ivan D. Haigh and Matthew P. Wadey. Natural Hazards. DOI: 10.1007/s11069-011-9868-7	Research	International	SOTON
Dec 2011	A Semantic Sensor Web Architecture for Environmental Decision Support Applications. Alasdair J G Gray, Jason Sadler, Oles Kit, Raúl García-Castro, Kostis Kyzirakos, Manos Karpathiotakis, Jean-Paul Calbimonte, Kevin Page, Alex Frazer, Ixent Galpin, Alvaro A A Fernandes, Norman W Paton, Oscar Corcho, Manolis Koubarakis, David De Roure, Kirk Martinez, and Asunción Gómez-Pérez, Accepted, to appear in Sensors.	Research	International	UNIMAN, SOTON, NKUA, UPM



Planned Journal Publications:

- QoS-aware Optimization of Sensor Network Queries. Ixent Galpin, Christian Brenninkmeijer, Alvaro A.A. Fernandes, and Norman W. Paton. Target: VLDBJ, Planned submission date: August 2011, Responsible partner: UNIMAN
- Title undecided yet. Matt Wadey, Craig Hutton. Target: Water, special issue on Flood Risk Management, Planned submission date: 30 September 2011, Responsible partner: SOTON
- Real-time forecasting of defence failure and floodplain inundation. M. Wadey, R. Nicholls & C. Hutton. Target: Journal of Flood Risk Management or Natural Hazards, Planned submission date: Oct/Nov 2011, Responsible partner: SOTON
- Ontology-based access to environmental sensor networks. Calbimonte JP, Corcho O. International Journal of Semantic Web and Information Systems. Target: Special issue on Sensor Networks. Planned submission date: December 2011, Responsible partner: UPM
- A paper investigating the use of Previmer data sources for the prediction of surge residuals through the Solent. Part of this paper also looks at the influence of a variety of parameters / forcings upon the modelled surge with particular interest in the variation shown through the region. Quinn, N., Atkinson, P. & Wells, N, Responsible partner: SOTON
- A paper following the same lines as above but the interest will be upon wave predictions. Quinn, N., Atkinson, P. & Wells, N, Responsible partner: SOTON
- K. Kyzirakos, M. Karpathiotakis and M. Koubarakis. Planned journal paper on language stSPARQL and its implementation. Responsible partner: NKUA
- Z. Kaoudi and M. Koubarakis. Planned journal paper on query processing and optimization strategies of Atlas. Responsible partner: NKUA



2.2. Conference publications

Planned/ actual date	Publication details	Type of audience	Countries addressed	Partners responsibl e/ involved
2-4 June 2009	Comprehensive Optimization of Declarative Sensor Network Queries. Ixent Galpin, Christian Y.A. Brenninkmeijer, Farhana Jabeen, Alvaro A.A. Fernandes, and Norman W. Paton. (2009) 21st International Conference on Scientific and Statistical Database Management (SSDBM 2009), LNCS 5566, pp. 339-360, 2009.	Research	International	UNIMAN
12-16 April 2010	Run-time Compilation of Bytecode in Wireless Sensor Networks. J. Ellul and K. Martinez. (2010) IPSN '10: 9th ACM/IEEE International Conference on Information Processing in Sensor Networks, Stockholm, Sweden. pp. 422-423. (Demo abstract)	Research	International	SOTON
23-26 May 2010	A Distributed Technique for Dynamic Operator Placement in Wireless Sensor Networks. Georgios Chatzimilioudis, Nikos Mamoulis, Dimitrios Gunopulos. (2010) The 11th International Conference on Mobile Data Management	Research	International	NKUA
30 May- 3 June 2010	Modeling and Querying Metadata in the Semantic Sensor Web: the Model stRDF and the Query Language stSPARQL. Manolis Koubarakis and Kostis Kyzirakos. (2010) 7th Extended Semantic Web Conference (ESWC 2010). Heraklion, Crete.	Research	International	NKUA
23-25 June 2010	Misco: a MapReduce framework for mobile systems. Adam Ji Dou, Vana Kalogeraki, Dimitrios Gunopulos, Taneli Mielikäinen, Ville H. Tuulos. (2010) The 3rd International Conference on Pervasive Technologies Related to Assistive Environments.	Research	International	NKUA
27-29 Oct 2010	Optimizing Query Routing Trees in Wireless Sensor Networks. Georgios Chatzimilioudis, Alfredo Cuzzocrea, Dimitrios Gunopulos (2010) International Conference on Tools with Artificial Intelligence 2010.	Research	International	NKUA
7-11 Nov 2010	SPARQL Query Optimization on Top of DHTs. Zoi Kaoudi, Kostis Kyzirakos, and Manolis Koubarakis. (2010) 9th International Semantic Web Conference (ISWC 2010). Shangai, China	Academic, Industrial	International	NKUA



Planned / actual date	Publication details	Type of audience	Countries addressed	Partners responsible/involved
7-11 Nov 2010	Enabling Ontology-based Access to Streaming Data Sources. Jean-Paul Calbimonte, Oscar Corcho and Alasdair J. G. Gray. (2010) 9th International Semantic Web Conference ISWC 2010, Shanghai, China.	Academic, Industrial	International	UPM, UNIMAN
31 May – 2 June 2011	A Semantically Enabled Service Architecture for Mashups over Streaming and Stored Data. Alasdair J. G. Gray, Raúl García-Castro, Kostis Kyzirakos, Manos Karpathiotakis, Jean-Paul Calbimonte, Kevin Page, Jason Sadler, Alex Frazer, Ixent Galpin, Alvaro A. A. Fernandes, Norman W. Paton, Oscar Corcho, Manolis Koubarakis, David De Roure, Kirk Martinez and Asunción Gómez-Pérez. (2011) Extended Semantic Web Conference (ESWC2011)	Research	International	UNIMAN, UPM, NKUA, SOTON
12-14 July 2011	Executing In-Network Queries using SNEE. Ixent Galpin, Robert Taylor, Alasdair J. G. Gray, Christian Y. A. Brenninkmeijer, Alvaro A. A. Fernandes and Norman W. Paton. (2011). BNCOD 2011 (Demo paper)	Academic	International	UNIMAN
5-8 Sep 2011	Spatial Information Management Application: Semantic Sensor Webs for Coastal Flooding. Jason Sadler, Alasdair J. G. Gray, Craig Hutton, Sarah Watt, and Robin Newman (2011) CoastGIS 2011	Research	International	SOTON, UNIMAN, EMU
19-21 Sep 2011	Semantic Access to Sensor Observations through Web APIs. Kevin R. Page and Alex J. Frazer and Bart J. Nagel and David C. De Roure and Kirk Martinez. (2011) Fifth IEEE International Conference on Semantic Computing, ICSC-2011, Stanford University, Palo Alto, CA, USA.	Academic, technical, industry	International	SOTON

Planned or submitted conference publications:

- Threat of Coastal Inundation in the Solent: Real-Time Forecasting. M. Wadey, C. Hutton. Submitted to Coastal Management 2011. Innovative Coastal Zone Management: Sustainable Engineering for a Dynamic Coast. Belfast UK, Date of conference: 15-16 Nov 2011, Responsible partner: SOTON
- Extending SNEE with data analysis techniques. George Valkanas, Ixent Galpin, Alasdair J G Gray, Alexis Kotsifakos, Dimitrios Gunopulos, Alvaro A A Fernandes, and Norman Paton. Planned submission date: September 2011, Responsible partner: UNIMAN
- Data analysis techniques in in-network processing. George Valkanas, Ixent Galpin, Alasdair J.G. Gray, Dimitrios Gunopulos, Alvaro A.A. Fernandes, and Norman W. Paton. (2012) VLDB 2012, Date of conference: 27-31 Aug 2012, Responsible partners: NKUA, UNIMAN
- K. Kyzirakos, M. Karpathiotakis and M. Koubarakis. Planned conference paper on performance evaluation of the Strabon System. Responsible partner: NKUA

2.3. Workshop publications

Planned / actual date	Publication details	Type of audience	Countries addressed	Partners responsible/involved
24 Aug 2009	Validated Cost Models for Sensor Network Queries. Christian Y. A. Brenninkmijer, Ixent Galpin, Alvaro A. A. Fernandes, and Norman W. Paton. (2009) 6th Workshop on Data Management for Sensor Networks, in conjunction with VLDB (DMSN 2009)	Research	International	UNIMAN
26 Oct 2009	Linked Stream Data: A Position Paper. Oscar Corcho and Juan F. Sequeda (2009) Semantic Sensor Networks Workshop (SSN09)	Academic Research and Industry	International	UPM
26 Oct 2009	Generating Data Wrapping Ontologies from Sensor Networks: a case study (Short Paper). Juan F. Sequeda, Oscar Corcho and Asuncion Gomez-Perez. (2009) Semantic Sensor Networks Workshop (SSN09)	Academic Research and Industry	International	UPM
26 Oct 2009	Linked Sensor Data: RESTfully serving RDF and GML. Kevin Page, David De Roure, Kirk Martinez, Jason Sadler and Oles Kit. (2009) Semantic Sensor Networks Workshop (SSN09)	Academic Research and Industry	International	SOTON
6 June 2010	Minimum-hot-spot query trees for wireless sensor networks. Georgios Chatzimilioudis, Demetrios Zeinalipour-Yazti, Dimitrios Gunopulos. (2010) Ninth International ACM Workshop on Data Engineering for Wireless and Mobile Access, MobiDE 2010.	Research	International	NKUA
7-11 Nov 2010	Developing Registries for the Semantic Sensor Web using stRDF and stSPARQL (short paper). Kostis Kyzirakos, Manos Karpathiotakis and Manolis Koubarakis (2010) 3rd International workshop on Semantic Sensor Networks 2010, in conjunction with ISWC 2010. Shanghai, China	Research	International	NKUA
28 March 2011	REST and Linked Data: a match made for domain driven development? Page, K. R., De Roure, D. C. and Martinez, K. (2011) 2nd International Workshop on RESTful Design	Academic	International	SOTON
12 June 2011	Extending Query Languages for In-Network Query Processing. George Valkanas, Dimitrios Gunopulos, Ixent Galpin, Alasdair J. G. Gray, Alvaro A. A. Fernandes. (2011) 10th International ACM Workshop on Data Engineering for Wireless and Mobile Access.	Research	International	NKUA, UNIMAN



Planned workshop publication:

- Enhancing the metadata registry of GSN with ontology-based annotations". Calbimonte JP, Corcho O. SSN11 workshop at ISWC2011. Date of workshop: October 2011. Planned submission date: 15 August 2011, Responsible partner: UPM

2.4. Press releases/News articles

Planned / actual date	Publication details	Type of audience	Countries addressed	Partners responsible/involved
Sep 2009	SemSorGrid4Env - Semantic Sensor Grids for Rapid Application Development for Environmental Management. Craig Hutton (SOTON). September 2009 issue. GeogNews article.	General	UK	SOTON
20 Oct 2009	http://www.fi.upm.es/?id=tablon&accion=consultar&idet=321	General	Spain	UPM
27 Oct 2009	http://www.fi.upm.es/?id=tablon&accion=consultar&idet=333	General	Spain	UPM
2009	Flood Forecasting project surveys the south coast. Craig Hutton (SOTON). 2009. FESMNews (internal to the University of Southampton)	General	UK	SOTON
24 June 2011	Newspaper Archives Help to Understand Coastal Flooding Along the South of England. ScienceDaily (June 24, 2011) http://www.sciencedaily.com/releases/2011/06/110624083514.htm	General	UK	SOTON



3. Talks/Presentations/Demos/Tutorials

3.1. Invited Talks

Planned / actual date	Talk/Presentation details	Type of audience	Countries represented	Size of audience	Partners responsible/involved
31 Oct 2008	Manolis Koubarakis. Storing and querying RDF(S) data on top of DHTs: the case of Atlas. Max-Planck-Institut für Informatik, Saarbrücken, Germany.	Academic research	EU	~20	NKUA
12 Feb 2009	Oscar Corcho. Retos científicos y tecnológicos en la combinación de semántica y Grid. VI International Congress Geomatica 2009. Havana, Cuba	Geo-technical	International	200	UPM
10 March 2009	Ixent Galpin. SNEE: A Query Processor for Sensor Networks. Sensor networks & grid computing - Sensors for Water Interest Group (SWIG), Lancaster Environment Centre, UK.	Academic research	UK	20	UNIMAN
1 June 2009	David de Roure. Sensor Networks in the Wild: Challenges and opportunities for Semantic Web technologies. 1st International Workshop on the Semantic Sensor Web (SemSensWeb 2009). Collocated with ESWC 2009, Heraklion, Crete, Greece.	Academic research	International	~20	SOTON
24-29 Jan 2010	Oscar Corcho. RDF-based querying to data streams. Dagstuhl Seminar "Semantic Challenges in Sensor Networks", Dagstuhl, Germany.	Academic research	Europe, USA	30	UPM
24-29 Jan 2010	David De Roure. SemsorGridForEnv Introduction. Dagstuhl workshop on Semantic Challenges in Sensor Networks. Dagstuhl, Germany.	Academic research and industry	Europe, USA	~ 20	SOTON, UNIMAN, UPM, NKUA, EMU, TI
24-29 Jan 2010	Alvaro A. A. Fernandes and Alasdair J G Gray. Distributed Query Processing over Streams in SemSorGrid4Env. Dagstuhl workshop on Semantic Challenges in Sensor Networks. Dagstuhl, Germany.	Academic research and industry	Europe, USA	~ 20	UNIMAN



Planned / actual date	Talk/Presentation details	Type of audience	Countries represented	Size of audience	Partners responsible/involved
24-29 Jan 2010	Manolis Koubarakis. Modeling and Querying Metadata in the Semantic Sensor Web: stRDF and stSPARQL. Dagstuhl workshop on Semantic Challenges in Sensor Networks. Dagstuhl, Germany.	Academic research and industry	Europe, USA	~ 20	NKUA
April 2010	Alasdair J G Gray. Distributed Query Processing over Streaming and Stored Heterogeneous Data Sources. Knowledge and Information Systems research group seminar, School of Computer Science, Cardiff University, UK.	Academic research	UK	20-30	UNIMAN, UPM
28 Jan 2011	Kostis Kyzirakos. The Data Model stRDF and the Query Language stSPARQL. D5: Databases and Information Systems, Max Planck Institut Informatik, Germany.	Academic research	EU	20 – 25	NKUA
7 April 2011	Alasdair J.G. Gray. Data Integration on the Semantic Sensor Web. Invited Seminar, Imperial College, London, UK.	Academic	UK	~ 30	UNIMAN, UPM, SOTON
10-11 May 2011	Alvaro A.A. Fernandes. Semantic Sensor Grids for Environmental Applications. Data Flows in Environmental Networked Sensors, e-Science Institute, Edinburgh, UK.	Environmental Scientists from Academia, Industry	UK, US	~20	UNIMAN
29 May 2011	Jean-Paul Calbimonte. Querying Semantically Enriched Sensor Observations. 6th International Workshop on Semantic Business Process Management, collocated with ESWC 2011. Heraklion, Crete	Semantic Web researchers	International	20	UPM

3.2. Talks/Presentations

Planned / actual date	Talk/Presentation details	Type of audience	Countries represented	Size of audience	Partners responsible/involved
22 Jan 2010	Zoi Kaoudi. Distributed RDF(S) Query Processing, Reasoning and Optimization. Information Systems Seminar, National and Kapodistrian University of Athens, Greece.	Academic	Greece	~20	NKUA
26 Feb 2010	Manolis Koubarakis. Linear Constraint Databases for the Semantic Web: The Model stRDF and the Query Language stSPARQL. Information Systems Seminar, National and Kapodistrian University of Athens, Greece.	Academic	Greece	~15	NKUA
2-7 May 2010	Oscar Corcho, Jean-Paul Calbimonte. Semantic Sensor Grids for Rapid Application Development for Environmental Management. European Geosciences Union EGU General Assembly 2010. Vienna, Austria	Research and Industry	Europe	100	UPM, UNIMAN, NKUA
1 June 2010	Jean-Paul Calbimonte. Ontology-based Access to Streaming Data. Extended Semantic Web Conference 2010 Poster Session, Heraklion, Greece	Academic	International	300	UPM, UNIMAN, NKUA
25 Sep 2010	Jean-Paul Calbimonte. Enabling Semantic Integration of Streaming Data Sources. Future Internet Symposium Doctoral Consortium, Berlin, Germany	Academic research	Europe	30	UPM
11-12 Nov 2010	Craig Hutton. SemSorGrid4Env. Coastal and Estuarine Flood Warning in Southern UK. Engagement with users to identify data requirements and suitable demonstration scenarios for flood information management systems. Joint UrbanFlood & SSG4Env Workshop on Monitoring and Flood Safety, Amsterdam, the Netherlands.	Academic, Industry	Worldwide	70	SOTON



Planned / actual date	Talk/Presentation details	Type of audience	Countries represented	Size of audience	Partners responsible/involved
11-12 Nov 2010	Kirk Martinez. Sensor networks and the semantic web. Joint UrbanFlood & SSG4Env Workshop on Monitoring and Flood Safety, Amsterdam, the Netherlands.	Academic, Industry	Worldwide	70	SOTON
11-12 Nov 2010	Robin Newman, Coastal and Estuarine Flood Warning in Southern UK. An overview of the complexities of integrated and automated coastal flood modelling. Joint UrbanFlood & SSG4Env Workshop on Monitoring and Flood Safety, Amsterdam, the Netherlands.	Academic, Industry	Worldwide	70	EMU
11-12 Nov 2010	Mike Clark, Craig Hutton. Empowering Stakeholders in Flood Management and Response. Joint UrbanFlood & SSG4Env Workshop on Monitoring and Flood Safety, Amsterdam, the Netherlands.	Academic, Industry	Worldwide	70	SOTON
1 Dec 2010	Alasdair J G Gray. Enabling Ontology-based Access to Streaming Data Sources. Information Management Group research seminar, School of Computer Science, University of Manchester, UK.	Academic research	UK	~15	UNIMAN, UPM
23 Feb 2011	Jean-Paul Calbimonte. Ontology-based Access to Streaming Data. Data Intensive Research Workshop. Edinburgh, UK	Academic research	International	30	UPM
15 April 2011	Manos Karpathiotakis. Design and Implementation of a Registry for the Semantic Sensor Web. Information Systems Seminar, National and Kapodistrian University of Athens. Athens, Greece	Academic research	Greece	30	NKUA
8 June 2011	Kerry Lea Taylor (CSIRO). Semantic Sensor Networks: The W3C SSN-XG Ontology and How to Semantically Enable Real Time Sensor Feeds. SemTech 2011. San Francisco. USA	Technical developers	International	1000	UPM



Planned / actual date	Talk/Presentation details	Type of audience	Countries represented	Size of audience	Partners responsible/involved
11 June 2011	Kostis Kyzirakos. A geospatial extension of RDF and an implementation on top of a RDBMS. Information Systems Seminar, National and Kapodistrian University of Athens. Athens, Greece	Academic Research & Industry	Greece	40	NKUA
15 July 2011	Oscar Corcho. Semantics, Sensor Networks and Linked Stream/Sensor Data. Eighth summer school on Ontological Engineering and Semantic Web (SSSW 2011). Cercedilla, Madrid, Spain	PhD students	International	25	UPM, UNIMAN, SOTON, NKUA, EMU

3.3. Demonstrations

Planned / actual date	Demonstration details	Type of audience	Countries represented	Size of audience	Partners responsible/involved
24-29 Jan 2010	Alasdair J G Gray. A query-based approach to working with sensor networks. Demonstrating In-network query processing using SNEE. Dagstuhl workshop on Semantic Challenges in Sensor Networks. Dagstuhl, Germany.	Academic research and industry	Europe, USA	~ 20	UNIMAN
24-29 Jan 2010	Manolis Koubarakis. stSPARQL. Dagstuhl workshop on Semantic Challenges in Sensor Networks. Dagstuhl, Germany.	Academic research and industry	Europe, USA	~ 20	NKUA
12-16 April 2010	J. Ellul, and K. Martinez. Run-time Compilation of Bytecode in Wireless Sensor Networks. In: IPSN '10: 9th ACM/IEEE International Conference on Information Processing in Sensor Networks, Stockholm, Sweden.	Academic and Industry	International	~30	SOTON
11-12 Nov 2010	Jason Sadler, Craig Hutton, Oles Kit (GeoData). SensorGrid4Env Flood Demonstrator at the Joint UrbanFlood & SSG4Env Workshop on Monitoring and Flood Safety	Academic and Industry	Worldwide	70	SOTON
18-19 May 2011	Ixent Galpin. Demo of In-network SNEE query processor. Data Flows in Environmental Networked Sensors. e-Science Institute, Edinburgh, UK	Academic research, environmental scientists	UK, US	~ 20	UNIMAN
6-9 June 2011	George Valkanas. Deploying In-Network Data Analysis Techniques in Sensor Networks. Mobile Data Management (MDM) Conference 2011. Luleå, Sweden.	Academic	Worldwide	60-70	NKUA



Planned / actual date	Demonstration details	Type of audience	Countries represented	Size of audience	Partners responsible/involved
5-8 July 2011	Jason Sadler & Oles Kit. Building semantic mashups for environmental monitoring. GI_Forum 2011 Workshop	Geoinformatics community	International	150	UPM, SOTON, UNIMAN, NKUA, TI, EMU, DMS
12-14 July 2011	Ixent Galpin, Executing In-Network Queries using SNEE. BNCOD 2011, Manchester, UK	Academic	Worldwide	~ 50	UNIMAN
23-27 Oct 2011	Kostis Kyzirakos. Strabon, a storage and query evaluation module for stRDF/stSPARQL. 10th International Semantic Web Conference. Koblenz, Germany	Academic	Worldwide	~50	NKUA

3.4. Tutorials

Planned / actual date	Tutorial details	Type of audience	Countries represented	Size of audience	Partners responsible/involved
29 May 2011	Alasdair J. G. Gray, Jean-Paul Calbimonte, Oscar Corcho, Kostis Kyzirakos, Kevin Page. Building Semantic Sensor Webs and Applications. Extended Semantic Web Conference (ESWC 2011). Heraklion, Crete, Greece.	Academic researcher	International	~ 15	UNIMAN, UPM, SOTON, NKUA
5-8 July 2011	Jason Sadler & Oles Kit. Building semantic mashups for environmental monitoring. GI_Forum 2011 Workshop. The tutorial involved taking the flood demonstrator and turning it into a "forest fire in Austria demonstrator", with the discovery and integration of some new services for the Salzburg area (background mapping, weather, traffic and speed cameras).	Geoinformatics community, web-/mashup-/webgis-developers	International	150	UPM, SOTON, UNIMAN, NKUA, TI, EMU, DMS

4. Students working on project / Use of project material in taught courses

4.1. Students working on project

Planned / actual date	BSc/ MSc/ PhD	Title/Topic	Student	Supervisor	Partners responsible/ involved
March – Aug 2009	MSc	Out-of-network query processing engine for SNEEq1	Varadaraja Rajagopalan	Alvaro A.A. Fernandes	UNIMAN
March – Aug 2009	MSc	Supporting Stored Relations in SNEE	Li Zhao	Alvaro A.A. Fernandes	UNIMAN
July 2009 – ongoing	PhD	Semantic Integration of Streaming Data (funded by project)	Jean-Paul Calbimonte	Oscar Corcho	UPM
March – Aug 2010	MSc	A Design Tool for Sensor Network Deployments	Yiannos Hadjipanayis	Alvaro A.A. Fernandes	UNIMAN
March – Aug 2010	MSc	Variable Acquisition Rates in SNEE	Sharath Gowder	Alvaro A.A. Fernandes	UNIMAN
March 2010 – March 2011	MSc	Design and Implementation of a Registry for the Semantic Sensor Web (funded by project)	Manos Karpathiotakis	Manolis Koubarakis	NKUA
Nov 2010 – Nov 2011	MSc	Geospatial Linked Data	George Garbis	Manolis Koubarakis	NKUA
Dec 2010 -	BSc	Temporal Extensions of RDF	Elissavet Sakellari	Manolis Koubarakis	NKUA
Dec 2010 -	BSc	Temporal Extensions of RDF	Spyridon Antonopoulos	Manolis Koubarakis	NKUA
March – Aug 2011	MSc	Efficient Join Algorithms for Combined Stored, Pushed and Pulled Inputs	Praveen Gopinathannair Saraswathyamma	Alvaro A.A. Fernandes, Alasdair J.G. Gray	UNIMAN



4.2. Use of project material in taught courses

Planned/ actual date	Course title	Person responsible for course	Type of course	Description of material used	Partners responsible/ involved
Feb-March 2009, 2010, 2011	Advanced Database Management Systems	Alvaro A.A. Fernandes	Advanced MSc in Computer Science course unit	Lecture Handouts	UNIMAN
Fall Semester 2009, 2010	Knowledge Technologies	Manolis Koubarakis	Course with emphasis on Knowledge Representation and Calculus in the World-wide Web, i.e. the Semantic Web	Students responsible for conducting presentations based on the stRDF data model and the language stSPARQL	NKUA
2009	ELEC6026: Distributed Computing Systems	Dave Roure	4th year undergraduate	Lecture Handouts	SOTON

5. Collaboration with other projects / Participation in standardization efforts

5.1. Collaboration with other projects

Project name	Nature of collaboration	Organiser of collaboration	Name of contact	Organisation of contact	Collaboration details	Partner responsible/involved
MARVIN system	Research	NKUA	Spyros Kotoulas, George Anadiotis	Vrije Universiteit Amsterdam, IMC Technologies SA	Spyros Kotoulas and George Anadiotis were invited to give a talk about their system Marvin. Since then Zoi Kaoudi, the main developer of Atlas, was in close collaboration with Spyros and George regarding implementation techniques of systems like Atlas and Marvin.	NKUA
SMARTesT	Transference of project results from SSG4Env	Oscar Corcho, UPM	José Javier Díez	UPM (School of Civil Engineering), Spain	SMARTesT will start applying SSG4Env technology, to see whether it is useful for them. For that, SSG4Env will do an invited presentation in the plenary meeting that will be held in Madrid in mid-October 2011	UPM, SOTON, UNIMAN, NKUA, TI, EMU, DMS
PlanetData Network of Excellence	Transference of SSG4Env project results	Oscar Corcho, UPM	Carolina Fortuna, Barry Norton	JSI, Slovenia and KIT, Germany	JSI and KIT will start using SSN Ontology and Linked Data API for sensor data publication	UPM, SOTON, UNIMAN, NKUA, TI, EMU, DMS
UrbanFlood	Research	Samantha Roe	Prof. Dr. Robert J. Meijer	TNO, The Netherlands	Joint workshop was organised	EMU, UPM, SOTON, UNIMAN, NKUA, TI, DMS

Project name	Nature of collaboration	Organiser of collaboration	Name of contact	Organisation of contact	Collaboration details	Partner responsible/involved
OGSA-DAI	Research	Norman Paton and Alvaro A.A. Fernandes, UNIMAN	Mario Antonioletti, Ally Hume, Bartosz Dobrzalecki	Edinburgh Parallel Computing Centre, University of Edinburgh, UK	Exploration of potential for future research on Distributed query processing	UNIMAN
AndulN	Research	Alvaro A.A. Fernandes, UNIMAN	Kai-Uwe Sattler	University Ilmenau, Germany	Benchmarking In-network processing	UNIMAN
Swiss Experiment	Reuse of technical results of SemSor Grid4Env	Jean-Paul Calbimonte, UPM	Hoyoung Jeung, Karl Aberer	Ecole Polytechnique Federale de Lausanne EPFL	Semantic Sensor Data Integration	UPM
Spitfire	Share experience and code of SemSor Grid4Env	Jean-Paul Calbimonte, UPM	Alexandre Passant, Manfred Hauswirth	Digital Enterprise Research Institute DERI	Semantic Sensor Data Integration, Interchange of papers and technical reports, sharing open source code of the projects.	UPM
TELEIOS: Virtual Observatory Infrastructure for Earth Observation Data	Reuse of technical results of SemSor Grid4Env on stSPARQL language and system Strabon	Manolis Koubarakis, NKUA	Manolis Koubarakis, NKUA	NKUA	The work of NKUA in SemSorGrid4Env on stSPARQL language and system Strabon forms the basis of the NKUA work in WP2 and WP4 of the TELEIOS project	NKUA

5.2. Participation in standardization efforts

Standardization organization	Standard name	Participation details	Participant from project	Partners responsible / involved
Open Geospatial Consortium	GeoSPARQL	Participate in the working group defining GeoSPARQL since late 2010 with the aim to disseminate Define a new version of stSPARQL that uses OGC standards and is very similar to GeoSPARQL. Work on the design of this new version of stSPARQL is funded by project TELEIOS that NKUA coordinates but the language has been implemented in the system Strabon that both SemsorGrid4Env and TELEIOS are using.	Manolis Koubarakis, Kostis Kyzirakos	NKUA
W3C	W3C Semantic Sensor Network Incubator Group	Participation on draft report/ Incubator report and ontology.	Raúl García-Castro, Kevin Page, Oscar Corcho	UPM, SOTON

6. Organisation of conferences/workshops

Planned / actual date	Workshop/ conference details	Type of audience	Countries represented	Size of audience	Partner responsible / involved
2009	Workshop: Earth and Space Science Informatics session and Executive Committee at AGU2009	Research	International	~20	SOTON
1 June 2009	Workshop: 1st International Workshop on the Semantic Sensor Web (SemSensWeb 2009), collocated with ESWC 2009, Heraklion, Crete, Greece; Organisers: Oscar Corcho, Manolis Koubarakis	Research	Worldwide	~ 20	UPM, NKUA
26 Oct 2009	Workshop: 2nd International Workshop on Semantic Sensor Networks (SSN2009), collocated with International Semantic Web Conference 2009 (ISWC 2009) Washington, USA; Organisers: David de Roure	Research	Worldwide	50	SOTON
Dec 2009	Workshop: Sensing, Networking and Fusing the Data, American Geophysical Union, Fall meeting; Organisers: Kirk Martinez	Research	International	~100	SOTON
30 May – 3 June 2010	Conference: Sensor Network track at the European Semantic Web Conference 2010, Heraklion, Greece; Organisers: Oscar Corcho (Sensor network track chair)	Research	Worldwide	300	UPM
7-11 Nov 2010	Workshop: 3rd International Workshop on Semantic Sensor Networks (SSN2010), collocated with ISWC 2010, Shanghai, China; Organisers: Dave de Roure (chair), Kevin Page (publicity chair, programme committee)	Research	Worldwide	~ 50	SOTON
11-12 Nov 2010	Joint UrbanFlood & SSG4Env Workshop on Monitoring and Flood Safety; Amsterdam, the Netherlands.	Research, Industry	Worldwide	70	EMU, SOTON
Dec 2010	Workshop: Sensing Networks: from Sensors to The Web, American Geophysical Union, Fall meeting; Organisers: Kirk Martinez	Research	International	~100	SOTON



Planned / actual date	Workshop/ conference details	Type of audience	Countries represented	Size of audience	Partner responsible / involved
11 July 2011	Workshop: TLAD, The University of Manchester, UK; Organisers: Alasdair J.G. Gray	Academic teaching	Worldwide	~ 25	UNIMAN
12-14 July 2011	Conference: BNCOD, The University of Manchester, UK, Organisers: Alvaro A.A. Fernandes, Alasdair J.G. Gray	Academic, Industry	Worldwide	~ 50	UNIMAN
23 Oct 2011	Workshop: The 4th International Workshop on Semantic Sensor Networks 2011 (SSN11), A workshop of the 10th International Semantic Web Conference (ISWC 2011), 23-27 October 2011, Bonn, Germany; Organisers: David De Roure (chair), Kevin Page (publicity chair & programme committee)	Academic, technical, industry	International	~50 (expected)	SOTON
Oct 2011	Workshop Terra Cognita 2011 (Foundations, Technologies and Applications of the Geospatial Web)	Academic	International	~20 (expected)	NKUA coorganizes (UPM/UNIMAN involved in PC)
Dec 2011	Special issue of journal: Special issue on Semantic Sensing at Journal of Web Semantics.	Academic	International	Unknown size	UPM

7. Contacts/Meetings with potential users

7.1. Meetings with potential users

Planned / actual date	Meeting details	Names of contacts and organization/ Types of stakeholders contacted	Countries represented	Number of participants	Partners responsible/ involved
Throughout year 1	Several meetings held	Simon Ashley, Head of Interactive Development, Environment Agency of England and Wales; Professor Andrew Bradbury, Director, the Channel Coastal Observatory; Karen McHugh, Solent Project Officer, Hampshire County Council; Rhian Davies, Solent Forum Officer, Hampshire County Council; the Solent Forum; Rob Crighton, Chair, Southern Water Quality Association, Southampton City; Ron Hancock, Associated British Ports (Southampton) and Commander Stephen Hopper, Royal Navy, Queen's Harbour Master (Portsmouth)	UK	Various	SOTON
Jan 2009	Meetings held	Institute for Space Applications and Remote Sensing at the National Observatory of Athens (ISARS/NOA http://www.space.noa.gr/isars/)	Greece	5	NKUA
Throughout year 2	Meeting held with the head of fire extinction and civil protection service.	Diputación de Valladolid (province of Valladolid).	Spain	3	DMS
Throughout year 2	Meeting held with head of Fire prevention.	Junta de Castilla y León (autonomous region of Castilla León)	Spain	2	DMS
Throughout year 2	Meeting held with head of Fire extinguishing.	Tragsa, "Agricultural services technology" (provinces of Madrid and Barcelona)	Spain	2	DMS
Throughout year 2	Meeting held with Head of fire prevention and extinguishing Service.	Junta de Extremadura – InFoEx (autonomous region of Extremadura).	Spain	3	DMS



Planned / actual date	Meeting details	Names of contacts and organization/ Types of stakeholders contacted	Countries represented	Number of participants	Partners responsible/ involved
Through out year 2	Meeting held with head of emergency coordination and gave a talk to 20 people.	Ayuntamiento de Orihuela (province of Alicante).	Spain	~20	DMS
Through out year 2	stRDF and stSPARQL were evaluated as a platform for exposing geospatial data managed by NOA (e.g., burned areas in Greece) on the Web. National Observatory of Athens (NOA). Penteli, Athens	Ioannis Kontoes (NOA), Nikolaos Sifakis (NOA)	Greece	4	NKUA
May 2010	User meeting held as a result of which a strong collaboration with ABP and CDP was established	Associated British Ports (ABP) and the Coastal Defence Partnership (CDP)	UK	5	SOTON
12 Jan 2011	Discussion of the advantages of using the SSG4Env approach for the information that they handle from their sensors deployed across Spain. AEMET offices in Madrid. Oscar Corcho (UPM)	AEMET (Agencia Española de Meteorología): Fermín Elizaga, Jefe del Departamento de Producción. Eduardo Monreal, Jefe del Departamento de Infraestructuras y Sistemas. Javier Mendez, Jefe del Área de Explotación y Gestión de Datos. Óscar García, Jefe de la Sección de Archivos y BBDD Antonio Jimenez, Jefe de la Sección de Sistemas de Captación de Datos. Pablo Rozas, predictor, centro de Santander. Antonio Rodríguez Pascual, Jefe de Área de Infraestructura de Información Geográfica, Instituto Geográfico Nacional. Emilio López Romero, Área de Infraestructura de Información Geográfica, Instituto Geográfico Nacional	Spain	7	UPM



Planned / actual date	Meeting details	Names of contacts and organization/ Types of stakeholders contacted	Counties represented	Number of participants	Partners responsible/ involved
25 Jan 2011	Discussion of the SG4E programme and relation to flood vulnerability to climate change / sea level rise. and role of geospatial and data integration. 2 seminar sessions run in one day for SE Southern Region (Thames and Kent) and SW Southern Region (Solent - Shoreham region). Chris Hill (GeoData Institute).	Meeting with Environment Agency and Natural England Flood Defence and asset managers and staff from FRB (Fisheries, Recreation and Biology) in EA.	UK	~5	SOTON
26 Jan 2011	Chris Hill meeting with 2 seminars	Flood and Coastal Defence in SE England	UK	~10	SOTON
15 April 2011	Use of SSG4Env results for Agencia Canaria de Desarrollo Sostenible y Cambio Climático. Agencia Canaria de Desarrollo Sostenible y Cambio Climático. Santa Cruz de Tenerife, Spain.	Oscar Hernández (ACDSCC), Nieves Zurita Pérez (ACDSCC)/ Developers for users	Spain	3	UPM, UNIMAN, SOTON, NKUA, TI, EMU, DMS

7.2. Concertation meetings

Planned / actual date	Meeting details	Types of stakeholders contacted	Countries represented	Number of participants	Partners responsible/involved
31 May – 4 June 2009	1 st EU ‘Matchmaking’ Event, collocated with ESWC 2009, Heraklion, Greece	Researchers	Europe	25	UPM, UNIMAN, SOTON, NKUA, TI, EMU, DMS
July 2009	Stall at the DEFRA (Department of the Environment, Food and Rural Affairs) Flood and Coastal Management Conference	local authority coastal engineers, environmental consultants	UK	Substantial	EMU
22-23 Sep 2009	Oscar Corcho participated in concertation meeting, SISE, Brussels	technology developers and policy makers, EU officials.	Europe	30	UPM, UNIMAN, SOTON, NKUA, TI, EMU, DMS
2 June 2010	EU ‘Matchmaking’ Event collocated with ESWC 2010, Heraklion, Greece	Researchers	Europe	25	UPM, UNIMAN, SOTON, NKUA, TI, EMU, DMS
5-7 April 2011	Held an exhibition stand throughout the conference and set up user meetings as a sideline to the main exhibition at OCEAN BUSINESS 2011, National Oceanographic Centre, Southampton, University of Southampton, Southampton, UK	Technical and management based flood professionals; government, private sector, academic	Europe	Substantial	EMU, SOTON
Organisation contacted at OCEAN BUSINESS 2011		Details			
John Knott, Meteorological Office UK, http://www.metoffice.gov.uk/		Discussion regarding the work of the Met Office in utilising data from mobile and ad hoc located weather stations mounted on shipping. Modelling issues raised for assimilation of realtime data in the context of met work and the project			
Simon Powell, MSE, Marine South East, http://www.marinesoutheast.co.uk		There is currently a project in the Solent region underway called "WaveSentry" which has some connections with the outputs of SG4E. Between EMU and Southampton some €80K has now been invested in further developing the outputs from SG4E. The WaveSentry project focusses primarily on the use of wave / tide data.			



Organisation contacted at OCEAN BUSINESS 2011	Details
Ray Chegwin, NPL (National Physics Laboratory) http://www.npl.co.uk/	Discussion regarding the use of sensor network in ad-hoc arrangements and deployment of sensor units. Utility of the CCO data sets.
Helen Needham, Halcrow Group, http://www.halcrow.com/	The Halcrow Group are a large international environmental and engineering consultancy. Halcrow expressed a strong interest in the underlying technology of SG4E as displayed by the demo and have formally invited the consortium to visit their offices in Bristol to demo the approach and to discuss potential future collaboration to bring the product and the underlying architecture to market. Halcrow Group are well placed to interface with the relevant markets for SG4E.
John Shears, British Antarctic Survey, http://www.antarctica.ac.uk/	Intercomparison with the "MAGIC" (GIS) and internal BAS spatial information management system for South Georgia island. Discussion on the inclusion of real-time data and the capacity to search for data was highlighted. - Meeting under arrangement
Travis Mason, Channel Coastal Observatory (CCO), http://www.channelcoast.org/	Discussions regarding the SG4E product being tested with the CCO website. Bring the product to market through the CCO. Very significant potential as CCO has high engagement with users. Possible use of CCO aerial photography in demonstrator. - Meeting under arrangement.
Phil Woodgate, Harbour Master, Medway Ports, http://www.medwayports.com/	Discussions centred upon the potential utility of the SG4E demo and the harbour master supported many of the comments that have been attributed to ABP. These centred around that value of such an information management system in the light of shipping management and pilotage with the need to have rapidly assembled data upon which to optimise decisions. Additional point made was the potential value in using the SG4E system for EIA (Environmental Impact Assessment) preliminary activity - Contact welcomed for further discussions



Planned / actual date	Meeting details	Types of stakeholders contacted	Countries represented	Number of participants	Partners responsible/ involved
7-9 June 2011	Held an exhibition stand throughout the conference at IEEE / OES OCEANS 2011, Santander, Spain	Technical and management based flood professionals; government, private sector, academic	Worldwide	Substantial	EMU, SOTON, UPM
Organisation contacted at IEEE / OES OCEANS 2011		Details			
James Collins. IEEE/OES		Understood benefits of having all data in one place. Not sure he has a use for it though.			
Dr Xin Zhang, Key Laboratory of Marine Geology and Environment Institute of Oceanography. Chinese Academy of Sciences. China		Access to all from a website would be the best approach, allowing anyone to access it from anywhere. He wanted to know where the data was from, and if it could also be downloaded from the web application. A link to Google earth or Google maps might attract a lot more users. A worldwide demonstrator would help show the transferability of the application. Agreement with the SWEET ontology.			
Dr Eric Bayler, NOAA / NESDIS, USA		General impressions were that although the application was clunky, he could understand the potential. He would like more information with the application, i.e.; which models were used, what model update rate was used, the assimilation and frequency of modelling; also what data was used, how old was that data and was there a level of confidence with the data; was there a rating of the data used, was some preferred over other datasets, and if so which ones and why. He commented that unless she knew more about the data sources, he wouldn't trust the output. He asked whether satellite data was used as a larger scale data source. The USA government forecast data could be incorporated.			
Andres Alonso-Martirena, Qualitas Remos		Immediately see how useful this could be. A good tool for bringing diverse datasets together.			
Lucy Wyatt, Seaview Sensing, UK		She was mainly interested in the wave modelling aspect, what base models were we using, what was the update rate and how were we including real-time data within the modelling. She would like to see wave radar data included, at the moment it is not a robust science but we could look towards making the application "radar-ready". She would prefer to see it all overlaid on Google earth / Google maps. Could the search function be similar to that on Google earth, once you have selected your area, you can search for the criteria.			



Organisation contacted at IEEE / OES OCEANS 2011	Details
Alvaro Alvarez Vazquez, IH Cantabria (Hydraulics Institute), Spain	Easily understood the technology and the power of the system behind the demonstrator. A very powerful tool to bring data together into one place. Good to turn on and off layers easily. Ability to run all models at the same time would be great benefit, even if just easy layers at the same time-zone. There is a similar situation in the USA springtime when they respond to ice / snow melt. Emergency response is very important at the moment.
Dr. Ellen Livingstone, Office of Naval Research – Global, USA	Spent time discussing the system and understanding the technology. Demonstrator is a powerful tool. Crisis management – great use of the technology. Very key at present. Difficult to think up other examples but sure there are lots out there – different user groups might be able to think of their own scenarios. Would like to see it develop and provided contact details for potential future funding opportunities; NICOP funding (ONRG), NATO Underwater Research Centre (Oceanography). Links between USA and European organisations to take the project further. Action: contact London office, discuss project and potentially set up meeting with “Information” contact – Jack Callahan. Follow on required. Potentially interested in continuing the funding through global funding stream.
Lt. Lee Payne, Office of Naval Research – Global, USA	Suggestions: More intuitive for the user. Through practice the floating boxes might be good but to start with they are a bit messy. Webcam / street view might be useful. Water depths. Emergency response locations – fire, police, coastguard, ambulance, and their watch-areas. Links from data to web – like in Google earth. Radar overlays.
Jean-Philippe Schneider, ENSTA Bretagne, Ecole Nationale Supérieure de Techniques Avancées, France	Interested in the ontologies created / used in the project. Interested in the ability to reuse the ontologies in other applications.
Jose Luis Rodriguez, SIDMAR	Mainly interested in the processes used to disclose the data from the sensors - e.g. the CCO network of coastal sensors. He was interested in the possibility of using a similar system in Spain and whether it would be applicable.

7.3. Demonstrations for potential users

Planned/actual date	Demonstration details	Type of audience/stakeholders and/or Names and Organisation of users	Countries represented	Size of audience	Partners responsible/involved
Dec 2009	Strabon, a storage and query evaluation module for stRDF/stSPARQL. National Observatory of Athens, Athens, Greece	Ioannis Kontoes, Nikolaos Sifakis, National Observatory of Athens (NOA)	Greece	4	NKUA
May 2010	Flood demonstrator	Associated British Ports (ABP) and the Coastal Defence Partnership (CDP)	UK	6	SOTON
March 2011	Information management system demonstrator and outlines of potential Mash-ups and applications	User manager	UK	5	SOTON
10 March 2011	Demonstration of the current flood information system and outlines for mash-up and applications. GeoData Institute/ECS. CPD offices. Havant Hampshire	users/ flood managers/ technical modellers	UK	4	SOTON, UNIMAN, UPM, NKUA, TI, EMU, DMS
15 March 2011	Information management system demonstrator and outlines of potential Mash-ups and applications	User manager from ABP	UK	5	SOTON
18-19 May 2011	Executing queries in sensor networks with SNEE. Ixent Galpin, Alvaro A.A. Fernandes. Data Flows in Environmental Networked Sensors: Replication, Durability and Metrology. Edinburgh, UK	Environmental scientists: Derik Barseghian -National Centre for Ecological Analysis & Synthesis (University of California Santa Barbara), Bridget Emmett - Centre for Ecology and Hydrology (Bangor University), Jane Hart - University of Southampton, Steve Kelling - Cornell Lab of Ornithology, Ian Marshall - Lancaster University, Jillian Wallis - Centre for Embedded Networked Sensors (UCLA) and others	UK, US	~ 20	UNIMAN



Planned/ actual date	Demonstration details	Type of audience/stakeholders and/or Names and Organisation of users	Countries represented	Size of audience	Partners responsible/ involved
4 July 2011	Demos of mashups. Kevin Page, Alex Frazer, Craig Hutton. Coastal Defence Partnership. Havant Council	Local authority flood planning and defence	UK	3	SOTON
4 July 2011	Demos of mashups and high-level API. Kevin Page, Craig Hutton. Halcrow Group Ltd. Halcrow, Swindon	Halcrow : Large environmental, civil engineering, planning, design, management, consulting company	UK	3	SOTON
12 July 2011	Mashup demos. Kevin Page, Alex Frazer, Craig Hutton, Jason Sadler. Associated British Ports, Southampton	ABP: Harbourmaster and port authority	UK	1	SOTON

Detailed information on interaction with Halcrow:

Halcrow Group Limited is an engineering consultancy company, based in the United Kingdom.

Halcrow is one of the UK's leading consultancies, with a pedigree stretching back to 1868. The UK Based consultancy specializes in the provision of planning, design and management services for infrastructure development worldwide. With interests in transportation, water, maritime and property, the company is undertaking commissions in over 70 countries from a network of more than 90 offices. Halcrow's consultancy work includes water, transportation, maritime, environment, power and property projects. Its customers include government departments, public sector authorities and utilities, industrial and commercial companies, international funding agencies and financial institutions.

During Oceans 2011 held in Southampton in June 2011, Halcrows Ltd approached the SG4E stand and expressed an interest in the technology. This has led to a series of communications and 2 specific meeting where the technology was demonstrated. It is fair to say that Halcrow were and remain highly enthusiastic about the potential business case of this approach and have asked for substantial details from the project. This is an on-going process at the time of reporting and will be updated prior to the November review of the project. Current understanding of Halcrow interest centres upon the following

- i) The establishment of a business association where a substantive client of Halcrow Ltd is invited to be an early beneficiary of the project products and furthermore encouraged to partially subsidize their development. The following have been named as potentials:
 - a. Portsmouth City Council, who are running a project to manage pluvial flood waters in Portsmouth which is associated with coastal flooding. This project requires a diverse and updated series of data sets which would suit the project outcomes
 - b. The EA. Halcrow is a central service provider to the EA through formal association (NICA). This means that the EA utilised Halcrow to develop, populate and manage many of its internal databases. It is possible that the EA might consider a type iii partnership partially funding the development of the project outputs.



This might occur over a wide range of possible coastal or riverine projects of relevance where substantial bodies of environmental and emergency data are required to be coordinated and optimally managed.

ii) There is also a potential for Halcrows to provide direct funding itself or in association with the EA or indeed the Metropolitan Police Force of London to develop products to manage security and information systems required for the policing of the London Olympics 2012 (both clients of Halcrow).

8. Public release of software/ videos / How-to guidelines

8.1. Public release of software

Planned/ actual date	Software details	License	Number of downloads	Partners responsible/ involved
27 May 2009	In-network SNEE (Sensor Network Engine). Ixent Galpin, Alasdair JG Gray. This version of SNEE only allows querying sensor networks and supports TinyOS 1.x. http://snee.googlecode.com/files/SNEE-r1.0.zip . Documentation and tutorials provided http://code.google.com/p/snee/ .	New BSD	> 270 for all versions 1.x (as of 22/08/11)	UNIMAN
2010	Registry, Semantic Registry Service: http://www.sensorsgrid4env.eu/services/registry-service/		Not monitored	NKUA, UPM, UNIMAN, SOTON, EMU, TI, DMS
2010	CCO-WS, Streaming Data Service: http://www.sensorsgrid4env.eu/services/cco-stream		Not monitored	NKUA, UNIMAN, UPM, SOTON, EMU, TI, DMS
2010	SNEE-WS, Streaming Data Service: http://www.sensorsgrid4env.eu/services/snee-stream		Not monitored	UNIMAN, NKUA, UPM, SOTON, EMU, TI, DMS
2010	CCO-Stored, Stored Data Service: http://www.sensorsgrid4env.eu/services/cco-stored		Not monitored	NKUA, UNIMAN, UPM, SOTON, EMU, TI, DMS
2010	Integrator, Semantic Integrator: http://www.sensorsgrid4env.eu/services/semantic-integrator		Not monitored	UPM, UNIMAN, NKUA, SOTON, EMU, TI, DMS



Planned/ actual date	Software details	License	Number of downloads	Partners responsible/ involved
2010	HLAPI, Application Service: http://www.semsorgrid4env.eu/services/hlapi-sensors , http://www.semsorgrid4env.eu/services/hlapi-observations		Not monitored	SOTON, UPM, NKUA, UNMIMAN, EMU, TI, DMS
2010	Static demonstration application: http://www.semsorgrid4env.eu/services/static-demo		Not monitored	SOTON, UPM, NKUA, UNIMAN, EMU, TI, DMS
2010	Dynamic demonstration application: http://www.semsorgrid4env.eu/services/dynamic-demo		Not monitored	SOTON, UPM, NKUA, UNMIMAN, EMU, TI, DMS
Sep 2011	SNEE v2. Ixent Galpin, Alasdair J.G. Gray. Query execution service for sensor, streaming, stored data. Documentation on Wiki pages. snee.cs.manchester.ac.uk , code.google.com/p/snee	New BSD		UNIMAN

8.2. Public release of videos

Planned/ actual date	Video details	Number of views	Partners responsible/ involved
12 Nov 2010	Video showing over-the-air programming of example SNEE query to repurpose wireless sensor network created. Ixent Galpin, Robert Taylor. http://www.youtube.com/watch?v=7P4o00i6NeE	86 (as of 22/08/11)	UNIMAN
Sep 2011	Online user summary of SG4E. Web based access to Flash overview of SG4E at a flood expert and technical level with video footage, and access and explanation of the demo. Mike Clark/Craig Hutton		SOTON, UNIMAN, UPM, NKUA, EMU, TI, DMS

8.3. Public release of how-to guidelines

How-to documentation to be made public in September 2011, can currently be found:

<http://www.semsorgrid4env.eu/wiki/Wiki.jsp?page=Documentation>

- How do I install all the infrastructure: get it from the repository and install on my server.
- How to create a SSG4Env data service: e.g., I have an XML stream for AIS and I want to generate the AIS web service.
- How to generate a SNEE-enabled service over a SSG4Env data service: I have an AIS-WS and I want to make it available through SNEE.
- How to generate an IQS-enabled service: I have the SNEE-enabled version of AIS and I want to make a SPARQL-STREAM endpoint for it.
- How do I setup the HLAPI on top of an IQS-enabled service: once the SPARQL-STREAM endpoint is available (and any other data-providing service), I want to provide the HLAPI to serve RDF, GML, etc.
- How do I register my services and how do I use that information.
- How do I build my app on top of OpenLayers or Google Maps.



9. Conclusions

This document reports all the dissemination activities carried out throughout the project and also lists some ongoing activities beyond the project end date.

The project results have been disseminated in various Computer Science and Environmental Sciences fora, such as high-level journals and conferences. Members of the consortium have also been active in organizing events in the scientific community to increase the recognition of the SemsorGrid4Env project, including a joint workshop with UrbanFlood, and the Dagstuhl Seminar on Semantic Sensor Networks, as well as interacting with potential users at various concertation meetings or individually organized meetings. For some interactions with potential users, further detail has been provided on the outcome and status of these interactions.