

TELEIOS

FP7-257662



Deliverable

D10.3

Plan for Dissemination Activities

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and

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28/2/2011

Status: Final

Scheduled Delivery Date: 28 February 2011

Executive Summary

The present document describes the dissemination for the TELEIOS project. The dissemination plan is considered separately at two levels: i) for the whole consortium, and ii) for individual members of the consortium.

The dissemination channels considered include scientific publications, demos, workshops, post-graduate courses and theses, the production of promotional material such as flyers and posters, the establishment of close links with other FP7 projects, as well as interaction with standard bodies and the wider public.

Document Information

Contract Number	FP7-257662	Acronym	TELEIOS
Full title	Virtual Observatory Infrastructure for Earth Observation Data		
Project URL	http://www.earthobservatory.eu/		
EU Project officer	Francesco Barbato		

Deliverable	Number	D10.3	Name	Plan for Dissemination Activities		
Work package	Number	WP10				
Date of delivery	Contractual		M6 (Feb.2011)	Actual	28 Feb. 2011	
Status	draft <input type="checkbox"/> final <input checked="" type="checkbox"/>					
Nature	Prototype <input type="checkbox"/> Report <input checked="" type="checkbox"/>					
Distribution Type	Public <input checked="" type="checkbox"/> Restricted <input type="checkbox"/> Consortium <input type="checkbox"/>					
Authoring Partner	National and Kapodistrian University of Athens (NKUA)					
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This document is part of a research project funded by the IST Programme of the Commission of the European Communities as project number FP7-257662. The Beneficiaries in this project are:

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1. Introduction

This document presents the dissemination plan for the TELEIOS project. The dissemination plan includes all activities involved in letting the outside world know about the existence and results of the TELEIOS project.

The research and development work we propose in TELEIOS is motivated by the fact that the availability of Earth Observation (EO) data now outstrips the availability of human intelligence to exploit it. As TELEIOS is targeted explicitly to EO scientists in terms of functionality, the TELEIOS architecture is based on the requirements solicited from a large community of EO scientists and two representative use cases. The TELEIOS infrastructure enables better leveraging of the skills of EO scientists, improved quality and quantity of output and reduced time and cost for their research. It goes beyond existing software (KIM/KEO/KAOS) developed by partners that many EO scientists in Europe are already familiar with. In addition, it improves significantly existing EO data management tools by making them more functional and more scalable.

TELEIOS will demonstrate this technological infrastructure by adopting a use case-guided development and evaluation strategy based on the two use cases of the project.

The dissemination plan is considered separately at two levels. In Section 2.1 we present the overall dissemination plan for the whole consortium, and in Section 2.2 we present the individual dissemination plan for each of the members of the consortium.

2. Dissemination Plan

The activities of dissemination and exploitation will be undertaken in the context of WP10 of TELEIOS with NKUA being the main partner responsible for dissemination. These activities (both by individual partners and the project as a whole) will be monitored by the Project Management Board, and partners will report on them in the relevant periodic reports.

Dissemination is planned at two levels:

- At the level of the whole consortium. The “Overall dissemination plan” section below covers this level.
- At the level of the individual partners of the consortium. Each partner describes individual actions in the “Individual dissemination plan” section below.

2.1. *Overall dissemination plan*

The general objectives of the dissemination activities for the whole consortium are:

- To ensure maximum awareness and visibility of the achievements and results of the project by presenting the project results in as many public events as possible, aiming to reach a wide audience.
- To promote the use of new technologies developed and tested in the project, to companies and institutions that already have an interest in Earth Observation but are still discouraged by the current methods and tools.
- To contact potential users of our systems, not yet aware of the EO potential, demonstrating the advantages of the TELEIOS approach, thus facilitating the enlargement of the user community.

2.1.1. **Main research results to be disseminated**

In this section we present the main results to be disseminated organized by work packages.

- **WP1:** The TELEIOS infrastructure
 - The TELEIOS architecture.
 - The implemented TELEIOS infrastructure in its three versions.

- **WP2:** Data models and query languages
 - The extensions of the Semantic Web technologies RDF and SPARQL so that they account for time and space.
 - The new array data models and query languages for EO image data.
 - The new data models and query languages for continuous/stream queries over EO image databases.

- **WP3:** Knowledge discovery from EO images
 - Knowledge discovery techniques for EO images and related GIS data.
 - Semi-supervised learning methods for spatio-temporal and contextual pattern discovery.
 - Human machine interaction (HMI) techniques for image information mining.

- **WP4:** Scalable storage and query processing for EO image metadata
 - Query processing and optimization techniques for a temporal and spatial extension of RDF and SPARQL on top of MonetDB: definite geospatial information.
 - Query processing and optimization techniques for a temporal and spatial extension of RDF and SPARQL on top of MonetDB: indefinite geospatial information.
 - Benchmarking and evaluation techniques.

- **WP5:** Ad-hoc and continuous/stream queries for EO images
 - Query processing and optimization for ad-hoc array queries on top of MonetDB.
 - Query processing and optimization for continuous/stream queries on top of MonetDB.
 - Benchmarking and evaluation techniques.

- **WP6:** A Virtual Observatory for TerraSAR-X data
 - Development of ontologies for the VO for TerraSAR-X data.
 - A new generation of EO portals that go beyond EOWEB.
 - Rapid mapping applications.

- **WP7:** Real-time fire monitoring based on continuous acquisitions of EO images and geospatial data
 - The real-time fire monitoring and burned area mapping application.
 - Evaluation of the real-time fire monitoring application and the TELEIOS infrastructure.

2.1.2. Dissemination channels

The work programme of TELEIOS contains a specific work package, i.e., WP8, which is aimed at involving the general EO community in the activities of TELEIOS by capturing the requirements of EO scientists, letting them experiment with TELEIOS technologies, and taking their feedback into account. The workshops of WP8 are the main dissemination channel of TELEIOS research to ESA (since they take place at ESRIN under the auspices of ESA) and the EO community in general.

In addition to dissemination carried out in the workshops of WP8, several other forms of dissemination will be undertaken:

- **Scientific publications.** The forums where research results appear (scientific journals, conferences and specialized workshops) are the ultimate measure of the output of any research activity. Therefore, one of the goals will be to present the results of the research within the project in top rated scientific workshops, conferences, and journals.
- **Demos.** Demos of individual components and the TELEIOS infrastructure will be presented in related conferences, workshops and other events in order to reach a wider audience and improve the involvement of different application communities.
- **Workshops.** We plan to organize workshops in currently popular research areas related to the project (Geospatial Semantic Web, Linked Geospatial Data, Scientific Databases, Knowledge discovery from EO images) etc.
- **Post-graduate courses and theses.** Whenever TELEIOS results are related to post-graduate courses taught by academic partners, we will include the results in the course material to enable students become familiar with state of the art European research. Similarly, TELEIOS related topics will be given as diploma, M.Sc., and Ph.D. theses.
- **Project website.** The project website has been active since the beginning of the project at <http://www.earthobservatory.eu/>. The detailed design of the website is described in Deliverable D10.2, thus we do not give any other details here.
- **Production of promotional material such as flyers and posters.** This will serve as a marketing opportunity of TELEIOS to the relevant research, industrial, governmental, and user communities. The material will be prepared by NKUA and distributed by the project partners when they attend various related events. As part of this activity the TELEIOS Brief Project Fact Sheet has been prepared (Deliverable 10.1) and is available on the website of the project.
- **Establishment of close links with other FP7 projects.** In case that TELEIOS partners participate in relevant projects (e.g., SensorGrid4Env, LOD2, SAFER) the links will be through the relevant partners as explained in the dissemination plan of each individual partner. Otherwise, this will be sought mainly through

the participation of the consortium partners in relevant activities of the FP7 framework.

- **Interaction with standard bodies.** We intend to interact with standard bodies such as the W3C and OGC to disseminate the results of TELEIOS and push for initiation/continuation of work in relevant areas. This will be done through the relevant partners as described in the dissemination plan of each individual partner.
- **Targeting end users.** Partners will disseminate the results of TELEIOS to relevant end users of their individual countries (e.g., space agencies, environment protection agencies, civil protection authorities etc.) as explained in the dissemination plan of each individual partner.
- **Targeting the wider public.** All partners will take advantage of local media to announce the initiation of TELEIOS, and its results as the project goes on. A press release has been prepared in English by NKUA at the beginning of the project and has been distributed to all partners so that they can modify it as they see fit and use it for press releases in their national press.

2.2. Individual dissemination plan

2.2.1. NKUA

NKUA participates in TELEIOS as a research institution and is also the coordinating node. NKUA leads the part of WP2 that works towards the extension of the data model RDF and the query language SPARQL. The new extension will account for representing and querying temporal and geospatial image metadata, but also image content specified by spatial constraints. NKUA also leads WP4 that works towards query processing and optimization algorithms for the temporal/spatial extension of RDF and SPARQL proposed in WP2, and the implementation of these algorithms on top of MonetDB.

The main objectives of the dissemination activities of NKUA are the following:

- To ensure maximum awareness and visibility of the achievements and results of the TELEIOS project as a whole as the coordinating partner.
- To ensure maximum awareness of their research results on geospatial and temporal extensions of RDF and SPARQL.

NKUA will disseminate the project results in the following ways:

- **Scientific publications.** Research publications in journals, conferences and workshops that are at the frontier of Semantic Web, Linked Open Data and Geospatial Reasoning (WWW, ISWC, ESWC, VLDB, ICDE, EDBT, ACM GIS, AAAI, IJCAI, ECAI, DL).

- **Demos.** Demos of components developed in WP4 will be submitted to relevant conferences.
- **Workshops.** Specialized workshops will be organized in relevant conferences (especially Semantic Web conferences).
- **Post-graduate courses and theses.** The post-graduate course “Knowledge Technologies”, that is taught every Fall semester at the Department of Informatics and Telecommunications of NKUA by Manolis Koubarakis, will include material from the WP2 and WP4 work of NKUA. Similarly, diploma, M.Sc., and Ph.D. theses related to TELEIOS will be offered by the group of Manolis Koubarakis.
- **Establishment of close links with other projects (national, European, international).** NKUA participates in the FP7 projects SemsorGrid4Env: “Semantic Sensor Grids for Rapid Application Development for Environmental Management”. SemsorGrid4Env finishes in September 2011. The work of NKUA in SemsorGrid4Env forms the basis of the NKUA work in WP2 and WP4, so the collaboration with this project is well established. NKUA undertakes to disseminate to TELEIOS all other SemsorGrid4Env results that are considered relevant.
- **Interaction with standard bodies.** NKUA would like to disseminate their work on geospatial extensions of RDF and SPARQL to OGC and W3C. To do this NKUA has recently become a member of OGC and plans to participate in the relevant OGC Standard Working Group for GeoSPARQL. No interaction with the W3C is currently foreseen since there are no known W3C plans for working on geospatial extensions of RDF and SPARQL. An interesting idea would be to use the GeoSPARQL standard as input to W3C work once the OGC standard work has been completed.
- **Targeting the wider public.** NKUA will advertise TELEIOS with the local press in Greece in collaboration with NOA which has a lot of contacts with the Greek press given its role in providing information with respect to fires in Greece almost every summer.

2.2.2. Fraunhofer

Fraunhofer participates in TELEIOS as a research institution. Fraunhofer leads WP8 that facilitates the involvement of the wider international community of EO scientists in TELEIOS. This is done by involving EO scientists from Month 1 of the project and for the whole project duration. Fraunhofer also contributes in the work on knowledge discovery from images and GIS data (jointly with DLR in WP3), and in the development of ontologies for EO data (jointly with DLR in WP6).

The main objectives of the dissemination activities of Fraunhofer are the following:

- Disseminate the project results to relevant standardisation bodies such as the OGC.
- Reuse the methodologies for requirements gathering developed for TELEIOS in other projects.

Fraunhofer will disseminate the project results in the following ways:

- **Scientific publications.** Fraunhofer plans to publish scientific papers on research results obtained in TELEIOS in relevant geospatial journals and conferences (AGILE, GIScience, Geoinformatica, IJAGR, TGIS).
- **Post-graduate courses and theses.** The graduate course on “Geoinformation Systems” taught every winter semester, especially the semantic web part, will be influenced by the TELEIOS ideas and outcomes.
- **Establishment of close links with other project (national, European, international).** The TELEIOS requirements gathering methodology of WP8 is influenced by our work in the HUMBOLDT project. Within the recently started FP7 project GeoViqua (<http://www.geoviqua.org/>) that methodology will be reused.
- **Interaction with standard bodies.** Due to our strong connection to the Open Geospatial Consortium, we will support NKUA in the process of influencing the OGC work on spatial and temporal extensions of RDF, especially in the scope of the OGC Standard Working Group for GeoSPARQL.

2.2.3. DLR

DLR participates in TELEIOS as a research institution (Remote Sensing Technology Institute - DLR/IMF), data provider (by providing us with access to TerraSAR-X data) and user partner who will implement the use case of WP6. The objective of WP6 is to build a VO for TerraSAR-X data and demonstrate its functionality by developing selected rapid mapping applications.

The main objectives of the dissemination activities of DLR are the following:

- To ensure awareness of the major space agencies and international space organizations that satellite image data can be classified and retrieved by content. This capability is a strategic key technology for future ground segments and image archives.
- To acquaint remote sensing experts with the actual capabilities of content-based queries when applied to high resolution remote sensing image data. The capabilities have to be understood by the users with respect to instrument constraints and firmly established performance criteria.

DLR will disseminate the project results in the following ways:

- **Scientific publications.** DLR will publish their results mainly in internationally acknowledged remote sensing journals as well as in international conferences devoted to satellite image data interpretation. Prime publication media are the “IEEE Transactions on Geoscience and Remote Sensing” journal and the yearly IGARSS conference.
- **Demos.** DLR will prepare demos to be shown in conferences as well as demos for users of remote sensing data accessing the data catalogues of DLR (see the end users bullet below).
- **Workshops.** DLR plans to promote their results by organizing workshops in Europe together with CNES, ESA, EUSC, JRC, ROSA, and other partners collaborating with DLR in projects supported by the European Union under the FP7 program. In addition, university research groups all over Europe are important partners for thematically dedicated workshops organized by DLR. Finally, overseas workshops can be arranged upon request.
- **Post-graduate courses and theses.** DLR, in collaboration with a number of universities, regularly offers Ph.D. positions where young researchers can specialize in image mining and related topics. During the past years this opportunity has attracted Ph.D. candidates from many countries inside and outside of Europe.
- **Establishment of close links with other projects (national, European, international).** DLR/IMF is involved in a number of projects under the auspices of ESA and the European Union. We already have close links with GMES related projects such as SAFER and FP7 projects such as OBSERVE and will use these contacts to promote the dissemination of TELEIOS results.
- **Interaction with standard bodies.** DLR is a member of the international Image Information Mining group. This body will act as the focal point for standardization activities that might come up during the duration of the project.
- **Targeting end users.** DLR can address end users via its web-based data distribution interface, EOWEB¹. This enforces an automatic user contact with newly developed image search capabilities.
- **Targeting the wider public.** DLR regularly contacts the national press, invites user groups, administers its web site, and organizes open house events. Qualified and experienced staff is available for these purposes. For more details please refer to: http://www.dlr.de/en/desktopdefault.aspx/tabid-23/1031_read-1422/.

2.2.4. CWI

CWI participates in TELEIOS as a research institution through its database research group. CWI leads the part of WP2 that works towards array data models and query

¹ <http://eoweb.dlr.de:8080/servlets/template/welcome/entryPage.vm>

languages for EO image data, and data models and query languages for continuous/stream queries over EO image databases. CWI also leads WP5 that works towards the development of query processing and optimization techniques for queries over EO image data that is implemented as arrays on MonetDB, and the development of a functional/performance benchmark for evaluation.

The main objectives of the dissemination activities of CWI are the following:

- To ensure maximum awareness of their research results on exploiting and extending database technology to provide efficient and scalable data management solutions for science in general and EO in particular.
- To make their aforementioned research results available in open source as part of or extensions of the MonetDB systems.

CWI will disseminate the project results in the following ways:

- **Scientific publications.** Research publications in well-known and highly recognized international journals, conferences and workshops on databases in general and scientific databases in particular (TODS, TKDE, VLDB Journal, SIGMOD, VLDB, EDBT, ICDE, SSDBM, etc.). A first paper on “SciQL, A Query Language for Science Applications” as result of WP2, Task 2, has been accepted for the “Workshop on Array Databases” collocated with EDBT/ICDT 2011 in Uppsala, Sweden.
- **Demos.** Demos of scientific database extensions of MonetDB will be made publicly accessible via the SciLens website² and submitted to relevant conferences and workshops.
- **Workshops.** A first MonetDB hands-on workshop for TELEIOS members will be organized by the CWI Database Architectures group at CWI in March 2011. Excess places in this first issue as well as later issues of the workshop will be offered to interested scientists from CWI and collaborating projects (see below). Scientific database workshop will be organized in relevant conferences.
- **Post-graduate courses and theses.** The M.Sc. course “Advanced Database Technology” that is taught every year at the University of Amsterdam by Martin Kersten and Stefan Manegold will include scientific database topics, focusing in particular on EO and TELEIOS related material from WP2 and WP4. In addition M.Sc. and Ph.D. theses related to this topic will be offered by the Database Architectures group of CWI (Martin Kersten / Stefan Manegold).
- **Establishment of close links with other projects (national, European, international).** CWI participates in FP7 projects “LOD2: Creating Knowledge out of Interlinked Data”, “EMILI: Emergency Management in Large Infrastructures“, and “PlanetData: A European Network of Excellence on Large-Scale Data Management“. Like TELEIOS, all these projects deal with large-scale data management in various flavors and application scenarios, and MonetDB forms the database back-bone of all these projects. A particular link

² <http://www.scilens.org/>

exists between LOD2 and TELEIOS, as MonetDB will provide the scalable database support for RDF and SPARQL as required by both projects. In particular with respect to database support for spatiotemporal data, there is also a close link with the Dutch “COMMIT” program that will start in summer 2011. Martin Kersten leads the project on “Spatiotemporal datawarehouses for travellers”. In the area of scientific databases, the Database Architectures group of CWI is involved in the LOFAR project (Low Frequency ARray; astronomy; NL/EU) and maintains close links with the LSST project (Large Synoptic Survey Telescope; astronomy; USA) as well as Data Intensive Research initiative of the UK e-Science programme. Further co-operations with seismologists and biologists are being established.

- **Interaction with standard bodies.** Given that SciQL is designed as extension of SQL, an integration with the SQL standard might seem desirable. However, given the size and complexity of the SQL standard, this does not appear realistic in the near future, surely not within the time frame of the TELEIOS project.
- **Targeting the wider public.** CWI will continue advertising TELEIOS in the Dutch media, as already done via news reports³ and a radio interview⁴ with Martin Kersten, and online via the SciLens website.
- **MonetDB distribution channel.** MonetDB extensions as results of WP2 and WP5, possibly also WP4, will be made publicly available in open source via 3-4 feature releases per year and 6-8 bug-fix releases per year of the MonetDB system.

2.2.5. NOA

NOA participates in TELEIOS as a research institution through their Institute for Space Applications and Remote Sensing (ISARS/NOA). NOA leads WP7 that works towards the design, implementation, and validation of a fully automatic fire monitoring processing chain, that combines in real-time, EO image acquisitions, and/or volumes of GMES fire monitoring products (FMM-1, and FMM-2), with auxiliary geo-information (e.g. land use/land cover, administrative data, etc) and human-like reasoning in order to draw reliable decisions and generate highly accurate fire products.

The main objectives of the dissemination activities of NOA are the following:

- To foster and promote to the Greek and European end user communities the enhanced through TELEIOS NOA’s capabilities of delivering state-of-the-art, reliable and real-time services related to Emergency Response for fire crisis management.

³ http://www.cwi.nl/2010/1088/Virtual_observatory_helps_to_fight_forest_fires

⁴ http://radio.tros.nl/?page=detail&p=42641&type=broadcast_detail&col=left&userPage=38

- To involve research groups and institutes in the ongoing scientific refinement of Emergency Response products for fire monitoring, and lay the foundations for facilitating research collaborations.

NOA will disseminate the project results in the following ways:

- **Scientific publications.** NOA will contribute to the TELEIOS project initiatives for scientific publications, by testing and validating the developed technologies within TELEIOS for Use Case II. Additionally, the research outcomes related to the algorithmic refinements of NOA's processing chain and modules will be presented in well established remote sensing international meetings/ workshops.
- **Demos.** NOA will collaborate with the technology partners of TELEIOS in demonstrating the added value gained through TELEIOS in Use Case II scenarios, i.e. technological enhancements for validated real-time fire monitoring by coupling continuous acquisitions of EO images with geospatial data and human reasoning.
- **Establishment of close links with other projects (national, European, international).** TELEIOS technologies for fire monitoring will be advertised through references and leaflets, in other projects in which NOA participates. These include the ongoing linkER and SAFER (EC/GMES), but also potential future projects and proposals in ESA (EOEP, Greece-ESA task Force, ARTES/IAP), EC (next GMES calls RTD) and national calls (RTD) relevant to EO or the integration of EO with Informatics.
- **Interaction with end users.** NOA intends to disseminate the project results, as emergency support services to actors within Greece with a mandate a) to act in fire emergencies (General Secretariat for Civil Protection, Fire-brigade), b) to take political decisions related to forest management (Ministry of Environment, Energy & Climate Change), and c) to conduct environmental research (Forest Research Institute, Hellenic Agricultural Research Foundation).
- **Targeting the wider public.** NOA has been systematically making efforts to reach the wider public through press releases and media interviews, promoting the Emergency Response services offered by NOA. The same strategy will be followed in the framework of TELEIOS.

2.2.6. ACS

ACS is working since early 1980's in the development of EO archives and catalogues. ACS has fundamentally contributed to the development of the last generation of knowledge-based image information mining tools (KIM, KEO, KES), wisely conceived by ESA for its growing and highly valuable digital images asset. ACS leads WP1 that aims at the design and development of the TELEIOS infrastructure on which all newer and more effective methods for EO data management foreseen by TELEIOS will be implemented and experimented with.

ACS participates to TELEIOS as an industrial partner, aiming at the improvement of its technological solutions through the collaboration with research institutions and keeping in tight contact with the user community of EO data. ACS perspective is thus twofold:

- To reinforce its position at the leading edge of image information mining technology, spreading the knowledge on new methods and tools.
- To pave the way for future commercial exploitation of the concepts developed in the research activities.

ACS will disseminate the project results in the following ways:

- **Scientific publications.** ACS will support the preparation of articles for scientific publications, in collaboration with research partners. The participation of ACS will be mainly focused on description of technical solutions implemented to demonstrate the validity of TELEIOS theoretical concepts.
- **Demos.** Demos of selected aspects of TELEIOS will be prepared by ACS and presented in conferences and B2B meetings. The two versions of TELEIOS prototype, integrated by ACS, will also be a basis for demonstrations.
- **Establishment of close links with other projects (national, European, international).** ACS will play a technical role for the link of TELEIOS to image information mining projects funded by ESA. Possible links with ongoing European projects (e.g. EMSA's Business Oriented Platform) will be explored.
- **Targeting end users.** ACS will disseminate the project results to users of current ACS EO tools. In particular ACS will inform its EO customers (mainly Space Agencies and Environmental research institutions) about the technological achievements of TELEIOS. According to the answers from the customers ACS will define a roadmap for the insertion of TELEIOS functionality within EO data cataloguing systems developed for ACS strategic customers. ACS will also disseminate the relevant TELEIOS concepts to customers operating in the bio-medical field, where more efficient search and classification tools can be applied profitably.

3. Summary

In this document we presented the dissemination plan of project TELEIOS. The dissemination channels considered include scientific publications, demos, workshops, post-graduate courses and theses, the production of promotional material such as flyers and posters, the establishment of close links with other FP7 projects, as well as interaction with standard bodies and the wider public.