



RINGrid contract no. 031891

Dissemination, standardisation and cooperation with other projects



Deliverable D5.1
Dissemination and exploitation plan

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Abstract: This deliverable concerns WP5 workpackage “Dissemination, standardisation and cooperation with other projects”. Plans concerning dissemination and exploitation activities are described in this document. It briefly recalls project goals, classifies targets of the dissemination and exploitation, and outlines a possible path to be followed during the whole project lifetime.

Delivery Slip

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1. Introduction

The main purpose of this deliverable is analysis of the major dissemination activities which need to be taken into account to propagate the project results and knowledge among interested user communities as wide as possible.

The measurable results of the RINGrid project are reports that give the current state of the art in the field of e-Infrastructure usage for Remote Instrumentation and reports on future guidelines. These achievements of the project could be especially important for broad communities of scientific and business groups of users that would result in their exploitation in the e-science, business and commercial areas. The study will help to proceed to the next steps, where the grid will go into the production phase in the EU countries.

That is why the information about the project itself, about the results of studies and finally about the feedback from final users need to be properly disseminated.

Dissemination is the duty of every RINGrid partner. Every partner will disseminate information concerning the RINGrid project aims and achievements, and will promote them on a broad scale through workshops and conferences.

The scope of work within this workpackage encompasses the following activities:

- The preparation of dissemination activities (the organization of and attendance at events), such as conferences, workshops and training courses. The organization of media articles/presence in the local media, in order to raise end-user awareness of new remote instrumentation capabilities;
- Setting up and maintaining a portal for project-related activities, like the dissemination process, coordination (in cooperation with WP1), information and material exchange;
- The preparation and distribution of information material among communities. This should be distributed at important conferences (in cooperation with WP2);
- Close cooperation with initiatives and projects in the field, in order to strengthen collaboration between research and user communities. This activity would be especially important during the identification of user communities and instruments and preparing the current state of the art;
- Taking part in the work of standardization groups;
- Organization of seminars on emerging technology trends, combined with international conferences - guidelines for future research in this field;

1.1. List of participants

Participant no.	Participant organisation name	Participant short name	Country
1	Instytut Chemii Bioorganicznej PAN w Poznaniu	PSNC	Poland
2	Johannes Kepler Universitat Linz	JKU	Austria
3	Greek Research And Technology Network S.A.	GRNET	Greece
4	Central Laboratory Of Mineralogy And Crystallography - Acad. Ivan Kostova	CLMC	Bulgaria
5	Universitatea Tehnica "Gh. Asachi" Iasi	TUI	Romania
6	Universidad Nacional Autonoma de Mexico	UNAM	Mexico
7	Cooperación Latinoamericana de Redes Avanzadas	CLARA	Uruguay, Chile, Brazil
8	Consorzio Nazionale Interuniversitario per le Telecomunicazioni	CNIT	Italy
9	Consiglio Nazionale delle Ricerche	CNR/ISTI	Italy
10	The University of Surrey	UNIS	United Kingdom

2. Classification and evaluation of dissemination activities

This chapter presents the classification of main dissemination activities. They were divided into three groups: promotion (collects all actions necessary to promote whole venture related with the project), project awareness (user-minded actions, main goal – underline advantages of remote instrumentation in non computer scientists environments), cooperation and standardization (use the potential of other RI-related projects, try to influence on the shape of standards connected with developing RI systems). Finally, evaluation methods are presented. More details can be found in following subchapters.

2.1. Project promotion

Project promotion will provide and maintain a project website (<http://www.ringrid.eu/>) that will be oriented towards the dissemination of the project results. The website will be divided into a public and private section. The public section will be elaborated in close cooperation with workpackage WP2 (identification of user communities) and oriented towards dissemination. The private section will include internal documentation and provide information exchange. The web address and domain of the RINGrid will be established at the start of the project.

In this activity the preparation and distribution of information material among communities will be realized. The results of the RINGrid project will be collected and prepared in a form appropriate for external presentations. The material will be distributed at important conferences and meetings like “International Conference on e-Science and Grid Technologies”, “NMR conferences”, “Astronomical Telescopes and Instrumentation Conference”, “EVN Technical and Operations Group (TOG) meeting” and others. This includes project multimedia presentations, fliers and leaflets about the RINGrid targets and achievements.

This activity will also play a support role for the RINGrid consortium collaboration meetings. These meetings, defined by the management, will require some logistic help and post-meeting work (such as collection of materials, etc.).

2.2. Raising project awareness among user communities

This part of WP5 is essential to success of dissemination activity. User communities as a final users which will be using developed RIS systems daily should be incorporated into research process and RINGrid partners should use their knowledge. This inclusion can be done by dissemination activities in many way. One of them is organization of seminars on emerging technology trends, combined with an international conference - guidelines for future research in this field. Organization of training courses on the remote usage of the equipment in RINGrid can be also a great opportunity to present the preliminary vision of RIS work and to collect the knowledge about users expectations. Cooperation with journalist on preparation of articles as well as radio broadcast in local/national media significantly spread out the number of potential recipients. Collaboration with user communities can be also sought by attendance at domain-specific conferences where project achievements should be presented. Finally, exhibitions which will accompany the RINGrid meetings and where scientists from other disciplines are invited should be useful to get attention of them.

2.3. Cooperation with other projects and standardisation bodies

Work done within this task will support workpackages WP2 and WP3. The main objectives are collecting and maintaining solid contacts with other running projects from that field of interest. Cooperation with the GridCC and EXPReS projects is foreseen (some partners

within the RINGGrid project will provide expertise based on their work as partners in these two project collaborations). Although these projects address a different instrumentation domain, they will both cooperate and try to cope with the requirements introduced by the real-time and interactive aspects.

Another activity will be the creation/start of a GGF workgroup devoted to grid usage for Remote Instrumentation. The standardization effort will be gained in cooperation with GridCC, will certainly help project visibility, and it could be another metric of success. Furthermore, it would provide the possibility to spin off new projects in the future, based on previous standardization work. This effort would be done in close cooperation with the GridCC project. A memorandum of understanding should be signed with GridCC, to commit persons from each project for work on standardization. This would also increase the impact of the RINGGrid project. The fact that one of the members involved in this project will be the GGF Area Director for Applications would considerably increase the success of such an initiative.

2.4. Evaluation

Dissemination activities in the RINGGrid project will be evaluated. There are several ways and methods to estimate the results and progress of work. Different statistics will be prepared:

- number of visitors on the project web page,
- number of new communities,
- number of new public contacts established,
- number of publications at conferences, workshops, etc.,
- number of identified instruments,
- number of propagated leaflets/brochures,
- number of printed posters,
- etc.

Dissemination will be also estimated from the quality point of view e.g. quality of papers, importance of conferences.

All actions will be mentioned in 3-month “Activity report” and in “Dissemination report” after 12 month of the project lifetime.

3. Workplan and deliverables

RINGGrid is a project specifically focused on reaching the broad scientific user communities. One of the most important goals is to address institutions and groups unaware of specific opportunities created by the remote access to scientific instrumentation. Therefore, the project dissemination plays a major role in assuring the overall project's success. All project participants will give special attention to the particular dissemination activities.

The results of dissemination activities strongly depends on results from other workpackages. That is why WP5 members will be in the permanent contact with other WP's participants. It allows to propagate and disseminate all news and results in proper and efficient way.

The internal management and coordination of this workpackage will be carried out by PSNC. PSNC will also be responsible for creating the project website and its administration, creation and distribution of information material among communities (at conferences, etc.), and providing logistics for internal project meetings, which will take place during the project life. PSNC will also coordinate the creation of the first deliverable, the "Dissemination and Exploitation Plan", which will be contributed by all WP5 participants.

In the next task, CNR/ISTI, CNIT and PSNC will organise a seminar on emerging trends in remote instrumentation, held as a dedicated workshop at an appropriate conference, which will be identified in the Dissemination and exploitation plan. The same parties will be responsible for organising training courses on possibilities of remote usage of scientific equipment, in the scope of the RINGGrid project.

Furthermore, CNR/ISTI, CNIT, PSNC together with TUI, UNIS, CLMC and UNAM will all actively support the dissemination process during conferences related to scientific domains within the interest of RINGGrid, and, when possible, in local and national media (popular and scientific journals, newspapers, TV reports etc.).

Another activity where GRNET, JKU, CLARA, CNIT and PSNC will be involved is cooperation with GridCC and EXPreS projects, coordinating the efforts and focusing on standardisation initiatives. Additionally, PSNC, JKU and GRNET will be responsible for the creation of a GGF workgroup, devoted to grid usage for remote instrumentation. This group will be created and maintained together with GridCC project.

To facilitate communication amongst project participants in the confines of dissemination PSNC will establish discussion list: ringrid-wp5@lists.man.poznan.pl.

The following deliverables have been established and need to be fulfilled during the project lifetime.

Number	Name of deliverable	Delivery month
D5.1	Dissemination and exploitation plan	M2
D5.2	RINGGrid Web Pages finished	M2
D5.3	Project leaflet/brochure	M6
D5.4	GGF workgroup creation	M9
D5.5	Report on dissemination	M12
D5.6	Project leaflet/brochure	M16
D5.7	Seminar presenting future guidelines	M18

D5.8	Report on dissemination	M18
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A short description of deliverables, which explains what should be done is given below:

- *D5.1 Final Plan for using and Disseminating Knowledge – month 2 (Report)*

The report will present a detailed plan and a schedule for dissemination actions. It will consist of the list of conferences/workshops and topics the project participants will take part in. Furthermore, this document will contain a plan for synchronisation between the output of RINGGrid, int.eu.grid and GridCC projects.

- *D5.2 RINGGrid Web portal - month 2 (Other)*

In the second month the project portal will be finished. It will consist of basic information about the project, main goals, research communities we will collaborate with and a list of identified instruments which are taken into consideration under project research.

- *D5.3 Project leaflet/brochure - month 6 (Other)*

The main goal of this deliverable is to inform the wide research community about the project assumptions/aims and in this way to encourage some of them to collaborate especially in the range of WP2 activity. The leaflet will be distributed during different conferences, workshops and meetings.

- *D5.4 GGF workgroup creation - month 9 (Event)*

It is assumed that in month 9 a new GGF group concerning the Remote Instrumentation area will be ready to launch. The report will sum up all efforts which had to be done to bring the new group into existence.

- *D5.5 Report on dissemination - month 12 (Report)*

A report summing up the current activities in WP5. It will summarize the project presence in conferences, workshops and meetings. There will also be a summary for activities which are in progress (e.g. GGF group creation).

- *D5.6 Project leaflet/brochure - month 16 (Other)*

This leaflet will summarize preliminary results of the project. The main goal of this activity is to inform research communities about the plans concerning future Remote Instrumentation development and to collect their opinions about that. Leaflets will be distributed during conferences, workshops and seminars.

- *D5.7 Seminar presenting future guidelines - month 18 (Event)*

There are plans to organize the seminar (e.g. dedicated workshop at a conference) with the main goal of presenting results of the Future Emerging Trends and

Recommendations workpackage. It is very important to discuss the plans and anticipations from the Remote Instrumentation area in the wider team.

- *D5.8 Report on Raising Public Participation and Awareness - month 18 (Report)*

The final report on dissemination will be published at the end of the project. It will sum up all performed activities to propagate and to disseminate results of the project.

4. Dissemination of knowledge

4.1. Overview table

Planned /actual dates	Type	Type of audience	Countries addressed	Size of audience	Partner responsible /involved
	<u>Conferences/ Workshops</u>				
November 2006, November 2007	IST Event 2006, 2007 - http://ec.europa.eu/information_society/istevent/2006/index_en.htm	Research, higher education, general public	Europe/worldwide	About 50 people	PSNC
4-6 12.2006	2nd IEEE International Conference on e-Science and Grid Computing The Nederland, Amsterdam http://www.esciencemeeting.org/eScience2006/	Research, higher education, general public	Europe/worldwide	About 50 people	PSNC
14-15 12.2006	BELIEF Conference India, New Delhi http://www.beliefproject.org/events/international-conferences	Research, higher education, general public	Europe/worldwide	About 50 people	PSNC
April 16-18, 2007	INGRID 2007 - Instrumenting the Grid, 2nd International Workshop on Distributed Cooperative Laboratories - S.Margherita Ligure Portofino, ITALY, http://www.ingrid.cnit.it/	Research, higher education, general public	Europe/worldwide	About 70 people	PSNC, CNIT, CNR/ISTI, GRNET
September 19 - 21, 2007	15th IMEKO TC4 Symposium on Novelities in Electrical Measurements and Instrumentation http://www.imeko2007.ee.tuiasi.ro/	Research, higher education, general public	Europe/worldwide	About 40 people	PSNC
November, 10-16, 2007	Supercomputing 2007 http://sc07.supercomputing.org/ , Reno, Nevada	Research, higher education, general public	worldwide	About 500 people	PSNC
	XL Ogólnopolskie Seminarium Na Temat Magnetycznego Rezonansu Jądrowego I Jego Zastosowań (National Seminar on Nuclear Magnetic Resonance and its Applications), Poland Cracow, http://www.ifj.edu.pl/conf/	Research, higher education related with NMR, general public	Poland	About 30 people	PSNC
	The 9th European VLBI Network Symposium on New Developments in VLBI Science and Technology and EVN Users Meeting, (website not available yet)	Research related with radio astronomy, higher education, general public	Poland	About 40 people	PSNC

September 9-12, 2007	PPAM2007, Gdańsk, Polska http://ppam.pcz.pl/	Research, higher education, general public	Europe/worldwide	About 50 people	PSNC
July 05-08, 2007	ISPDC 2007: 6th International Symposium on Parallel and Distributed Computing, Hagenberg, Austria,	Research, higher education, general public	Europe/worldwide		JKU
Sep. 19-21, 2007	Grid 2007: 8th IEEE International Conference on Grid Computing, Austin, Texas,	Research, higher education, general public	Europe/worldwide		JKU
June 27-29, 2007	HPDC 07: IEEE International Symposium on High Performance Distributed Computing, Monterey Bay California,	Research, higher education, general public	worldwide		JKU
March 26, 2007	Fourth High-Performance Grid Computing Workshop, Long Beach, California, USA http://www.cs.unb.ca/profs/aubanel/hpgc/	Research, higher education, general public	worldwide		GRNET
March 26-30, 2007	IEEE International Parallel & Distributed Processing Symposium http://www.ipdps.org/	Research, higher education, general public	Worldwide		GRNET
May 13-16, 2007	ACS/IEEE International Conference on Computer Systems and Applications, AICCSA '2007, Amman, Jordan http://www.philadelphia.edu.jo/aiccsa2007/ - Tutorial	Research, higher education, general public	worldwide		GRNET
20 - 22 November, 2007	The 8th Workshop "Nanoscience & Nanotechnology", Sofia	Research, higher education, general public	Europe/worldwide		CLMC
31 November – 1 December 2006	The National Conference "Geosciences 2006", Sofia	Research, higher education, general public	Europe/worldwide		CLMC
6-7 December 2006,	25th BESSY Users` Meeting, Berlin	Research, higher education, general public	Europe/worldwide		CLMC
March 27-30 2007	The First International conference on E-Medicine, Cairo, Egypt http://www.onlinediabetes.net/emedicine/index.htm - A Prototype Of Web-E-Nose Device To Be Used In Medicine Fields, R. Ciobanu, M. Branzila, C. Schreiner	Research, higher education, general public	worldwide		TUI

	- Prototype Architecture For A Remote And Distributed Laboratory, For Higher Education Purpose In Medicine Fields C. Schreiner, M. Branzila, R. Ciobanu				
April 16-18, 2007	2nd International Workshop on Distributed Cooperative Laboratories: Instrumenting the Grid (INGRID 2007), Santa Margherita Ligure – Portofino, Italy http://www.ingrid.cnit.it - Prototype Architecture For Multitask Virtual Laboratory - I C. Donciu, M. Temneanu, Cristian Dosoftci - Prototype Architecture For Multitask Virtual Laboratory - Ii M. Branzila, Al. Trandabat, C. Schreiner - New Prototype Architecture For Automated Irrigation Based On Power Line Communications C. Donciu, O. Costea - New Prototype Architecture For Vision Automated Inspection C. Donciu, M. Temneanu, A. Samoilă	Research, higher education, general public	Europe/worldwide		TUI
28-29 June 2007	Remote Engineering and Virtual Instrumentation REV2007 Symposium, Porto, Portugal. http://www.online-lab.net/rev/ - Virtual Meteorological Center M. Branzila, Al. Trandabat, C. Schreiner	Research, higher education, general public	Europe/worldwide		TUI
5 – 7 September 2007	10th International Conference on Environmental Science and Technology, Cos, Greece. http://www.gnest.org/cest/ - Environmental Measurement Center Based On Remote Instrumentation C. Schreiner, Al. Trandabat, M. Branzila, R. Ciobanu	Research, higher education, general public	Europe/worldwide		TUI
19 - 21 September 2007	15th IMEKO TC 4 International Symposium on Advanced Measurements and Instrumentation, 1st IMEKO TC19 Symposium on Measurements and Instrumentation for Environmental Monitoring and 12th Workshop on ADC Modelling and Testing, IASI, Romania. http://www.imeko2007.ee.tuiasi.ro - Web-E-Nose Device Used In Environmental Monitoring M. Branzila, Al. Trandabat, C. Schreiner, R. Ciobanu - Rfid Technologies For A Proposed E-Nose Used In Food Processing M. Branzila, Al. Trandabat	Research, higher education, general public	Europe/worldwide		TUI
4 – 6 October 2007	6th International Conference on Electromechanical and Power System Sielmen, Chishinew, Rep. Moldova. - Virtual And Remote Instrumentation Used in Food Processing And Food Chain	Research, higher education, general public	Europe/worldwide		TUI

	Monitoring R. Ciobanu, M. Branzila, M. Olariu				
February 22th, 2007	CUDI Virtual Day (Shared Laboratories), UNAM, CUDI is the Mexican Universities Consortium for Internet Development. The Virtual Days are devoted to user communities of novel Internet applications, in these opportunity devote to condense matter research community.	Research, higher education, general public	Mexico		UNAM
14-17 May 2007	CCGrid Rio de Janeiro, Brazil, http://ccgrid07.lncc.br This includes THE FIRST LATIN AMERICAN GRID WORKSHOP http://lagrid07.lncc.br	Research, higher education, general public	worldwide		CLARA
1st Jun 2007	WCGA2007 - V Workshop on Computational Grids and Applications Part of SBRC2007 - XXV Brazilian Symposium on Computer Networks Belém, Brazil - http://wcga07.lncc.br	Research, higher education, general public	worldwide		CLARA
25-28 June 2007	2nd EELA Conference (joint with the BELIEF Conference) Rio de Janeiro, Brazil, http://indico.eu-eela.org/conferenceDisplay.py?confId=81	Research, higher education, general public	Worldwide		CLARA
Septemb er 2007	Congress "II Congress of E-science"	Research, higher education, general public	worldwide		CLARA
	National Workshop on Telemeasurement in Bologna	Research, higher education, general public	Europe/ worldwide		CNIT
	ICC2007 (the IEEE International Conference on Communications) http://www.icc007.org/	Research, higher education, general public	Europe/ worldwide		CNIT
11th Decembe r, 2006	Seminar hosted in UniS - "Grid Computing Core Technologies" given by Dr. Maozhen Li from Brunel University, UK,	Research, higher education, general public	UK		UNIS
	The 3rd IEEE International Conference on e-Science and Grid Computing	Research, higher education, general public	Europe/ worldwide		UNIS
	Round tables				
Oct. 16., 2006	In conjunction with: EPE 2006 - 4-th International Conference on Electrical and Power Engineering, Iasi, Romania and in connection with: Ceex M1 Speedvirt: Informatic System Of Interactive Training	Research, higher education, general public			TUI

	Based On High-Speed Multitask Algorithms Developed On The Reconfigurable Online Platform For Virtual Laboratory Type Applications (responsible and contact person Codrin Donciu, cdonciu@ee.tuiasi.ro).				
Nov. 01., 2006	In connection with: Ceex M2 Virtex: Virtual And Distributed Systems In Support Of Quality And Maintenance Management (responsible and contact person Cristina Schreiner, cschrein@ee.tuiasi.ro)	Research, higher education, general public			TUI
Dec. 15., 2006	In connection with: Ceex M3 E-Mange: The Development Of Romanian Integration Capacity In Programs, Platforms And European Networks, In Domain Of Virtual And Distributed Systems Of Design And Research Management (responsible and contact person Cristina Schreiner)	Research, higher education, general public			TUI
	<u>Project web-site</u>				
1.10. 2006	RINGGrid website (http://www.ringrid.eu)	Research, higher education, project members, general public	Worldwide		PSNC
	The RINGGrid description in Wikipedia (http://en.wikipedia.org/wiki/Ringrid)	Research, higher education, project members, general public	Worldwide		PSNC
	<u>Posters</u>				
	Preparing and printing leaflets and folders	Conference participants, interested user communities			All project participants
	Preparing and printing posters for conferences.	Conference participants, interested user communities			All project participants
	<u>Press releases (press/radio/TV)</u>				
Whole project duration	Each project participant will take an effort to publish an information about the RINGGrid project in press, radio, news web services	General public			All project participants

4.2. Short descriptions of major activities

4.2.1. Conferences/Workshops

2nd IEEE International Conference on e-Science and Grid Computing

The e-Science 2006 conference is designed to bring together developers and users of e-Science applications and enabling IT technologies from leading international and interdisciplinary research communities. The conference serves as a forum to present the results of the latest research and product/tool developments, and highlight related activities from around the world.

BELIEF Conference

The first European & Indian e-Infrastructures conference will be held in New Delhi, India on December 14-15, 2006 attracting over 250 ICT research, industrial and academic delegates.

The aim of the first of its kind event was to exchange views on how eInfrastructures are currently deployed in both Europe and in India with the objective of analysing how their increasing role is viewed in a business, educational, socio-political & scientific context.

The two-day intensive discussions looked at promoting the sustained use of the EU India link (Geant2 connectivity) and its use by new user communities especially.

INGRID 2007

The 1st Workshop in this series was held in Sorrento, Italy, in July 2005, within the framework of the International Tyrrhenian Workshop on Digital Communications. It was devoted to the investigation of the main issues related to the sustainable realization of tele laboratories, where real and virtual instrumentation can be shared and used in a collaborative environment. In this streamline, the current edition of the Workshop focuses on all aspects related to the effective exploitation of remote instrumentation on the Grid. These include middleware architecture, high-speed networking in support of Grid applications, wireless Grid for acquisition devices and sensor networks, Quality of Service (QoS) provisioning for real-time control, measurement instrumentation and methodology.

15th IMEKO TC4 Symposium on Novelties in Electrical Measurements and Instrumentation

Conference organized by TUI – one of the project partner. There are two parallel events:

- 1st IMEKO TC19 Symposium on Measurements and Instrumentation for Environmental Monitoring
- 12th Workshop on ADC Modelling and Testing

The 9th European VLBI Network Symposium on New Developments in VLBI Science and Technology and EVN Users Meeting

The symposium has an informal character. It consisted of a number of invited reviews followed by oral contributions grouped in sessions on extragalactic objects, stars, instrumentation, and techniques. Space for presenting posters was also provided. Traditionally, the EVN Users Meeting was one of the items on the agenda.

PPAM2007

The PPAM 2007 conference, seventh in a series, will cover topics in parallel and distributed processing, including theory and applications, as well as applied mathematics. The focus will

be on grid computing, and large-scale applications, as well as on software tools which facilitate efficient and convenient utilization of modern computing architectures.

PPAM is a biennial conference started in 1994, with the proceedings published in Springer's Lecture Notes in Computer Sciences. Next year the PPAM conference will take place in Gdansk, the thousand-year old city on the Baltic coast, the hometown of Hevelius, Fahrenheit, Schopenhauer, Grass and Walesa. One of social events will be in the largest medieval brick castle in Europe.

CUDI Virtual Day - (Shared Laboratories), February 22th, 2007, UNAM, CUDI is the Mexican Universities Consortium for Internet Development. The Virtual Days are devoted to user communities of novel Internet applications, in these opportunity devote to condense matter research community.

4.2.2. Exhibitions

IST 2006 and IST 2007

Conference and exhibition organized by European Commission.
http://ec.europa.eu/information_society/istevent/2006/index_en.htm

SC 2007

The SC conference (U.S.) is one of the biggest conferences in the world concerning high performance computing, networking, storage and other IT technologies. This will be an unique opportunity to present the project results and achievements as well as to collect opinions and comments about the project. Moreover, it will be possible to watch the newest supercomputing and network solutions which can be implemented in a remote instrumentation area. Planned to have 2 people at the exhibition.

4.2.3. Leaflets, brochures, posters

There are anticipated two types of leaflets:

- general – where main objectives of the project are presented as well as its structure (workpackages) and general expected results,
- specific – include more detailed information about given workpackages, what are input terms and data as well as what actions will be taken and what particular results could be expected.

Brochures will be distributed during conferences, workshops and seminars. There are also a few posters planned to do, which will be presented during conferences and exhibitions.

5. User communities

Each project partner is responsible for contacts and cooperation with user communities interested with project results.

There are assumed two types of collaboration:

- Direct – where project participant communicate with users directly during different types of meetings, conferences and workshops,
- Remote – cooperation is performed using website, discussion lists, e-mails, instant messengers, etc.

Following table presents the list of user communities which confirmed their interest of the project results and which will be constantly informed about project progress. This list will be increased during project realisation.

No.	Name of community	Head	Contact info	Responsible partner
1.	Institute of Bioorganic Chemistry PAS/ Laboratory of Structural Chemistry of Nucleic Acids	Prof. Ryszard W. Adamiak	http://www.ibch.poznan.pl/adamiak/	PSNC
2.	Torun Center for Astronomy The Department of Radio Astronomy TCfA	Prof. Andrzej Kus	http://www.astro.uni.torun.pl/	PSNC
3.	The Institute of Astro- and Particle Physics		http://astro.uibk.ac.at/	JKU
4.	The Institute for Avalanche Research		http://bfw.ac.at/800/800.html	JKU
5.	Cerro Tololo Inter-American Observatory /Southern Observatory for Astronomical Research (CTIO/SOAR),	Steve Heathcote <sheathcote@ctio.noao.edu> (Director of SOAR), Chris Smith <csmith@ctio.noao.edu>, German Schumacher <gschumacher@ctio.noao.edu> , Ronald Lambert <rlambert@ctio.noao.edu>	http://www.ctio.noao.edu/	CLARA
6.	National Laboratory for Synchrotron Light (LNLS), Campinas, SP, Brazil	Pedro F. Tavares <pedro@lnls.br>, Antonio Ramirez <ramirez@lnls.br>, Jefferson Bettini <bettini@lnls.br>, James Rezende Piton <james@lnls.br>, Mario Muzzi <mmuzzi@lnls.br>, Yuri Amorim yuri@lnls.br	http://www.lnls.br/	CLARA
7.	AURA in La	http://www.aura-	http://www.aura-	CLARA

	SERENA-CHILE	nio.noao.edu/staff-directory.php	nio.noao.edu/	
8.	ROHDE & SCHWARZ ITALIA SPA	Dr. Crippa Ornella Team Assistant Measuring Equipment and Systems Division E-Mail:ornella.crippa@rsi.rohde-schwarz.com	http://www.rs-italia.it http://www.rohde-schwarz.com Phone: +39 02 95704.644 & Fax: + 39 02 95704.608	CNIT and CNR/ISTI
9.	AGILENT	Dr. Angelo Cereser Cell. +39 335 5788293 mail: angelo_cereser@agilent.com Dr. Marco Pagano Tel. +39 02 92608330 Cell. +39 335 8269805 Email marco_pagano@agilent.com	http://www.home.agilent.com/agilent/home.jsp?cc=US&lc=eng	CNIT and CNR/ISTI
10.	LeCroy Italia	Mrs. Cristina Paradiso cristina.paradiso@lecroy.com Tel.: 041 5997003 Fax: 041 4569542 Dr. Enrico Marcon Via E. Mattei 102/C, Marcon (VE) - Italy Cell. +39 335 6252104 Tel. +39 041 5997011 Fax. +39 041 4569542 E-mail: enrico.marcon@lecroy.com	http://www.lecroy.com/homepage/default.aspx	CNIT and CNR/ISTI
11.	TEKTRONIX	Stefano Marandino stefano.marandino@tek.com	http://www.tek.com/ Office +39 02250861 Fax +39 0225086500 Direct +39 0225086521 Mobile +39 3356420262	CNIT and CNR/ISTI
12.	Nemesis (National Instruments Educational Alliance Member)	Dr. Roberto Foddis via dei Calzolari 525/H - 44036 Francolino (FE) E-Mail:foddis@nemesis-online.it	www.nemesis-online.it Tel: 0532 720131 Mobile: 348 4416599 Fax: 0532 728168	CNIT and CNR/ISTI
13.	Instrumentation Devices Srl (Crossbow)	Mr. Cornelio Cenini Via Acquanera 34/M 22100 COMO (Italy) ccenini@instrumentation.it	http://www.instrumentation.it/ ph +39 031 525 391 fx +39 031 507 984	CNIT and CNR/ISTI

In order to keep all interested users up to date with the project progress and results a specialized bulletin will be established. This bulletin will be open to everybody who what to know what is going on in the RINGrid project.

6. Project web page

The project website (<http://www.ringrid.eu>) website plays an important role in the project dissemination. It provides the information about the upcoming events related to the project and presents the latest news about it as well. It is divided into few thematic sections such as participants presentation, workpackages and instrumentation description considered in the project, public documents and internal. In the public section all the documents published during the project life cycle such as deliverables, technical annex etc are available for downloading. RINGGrid website helps people involved in the project to work on the documents (through Internal section) as well as to get the other user communities to know more about the work done in the project. Moreover some users can provide some essential feedback which might help in the instrument and user group identification. It can be done either through the contact the IIF forms where the potential users can submit of the available instrumentation and thus make the instrument and user requirements gathering process more valuable.

6.1. Assumptions

The RINGGrid website has been placed under the address <http://www.ringrid.eu>. The main idea while building project website was to have a coherent and professionally designed layout with large number of interesting information for both project members and people outside of the project.

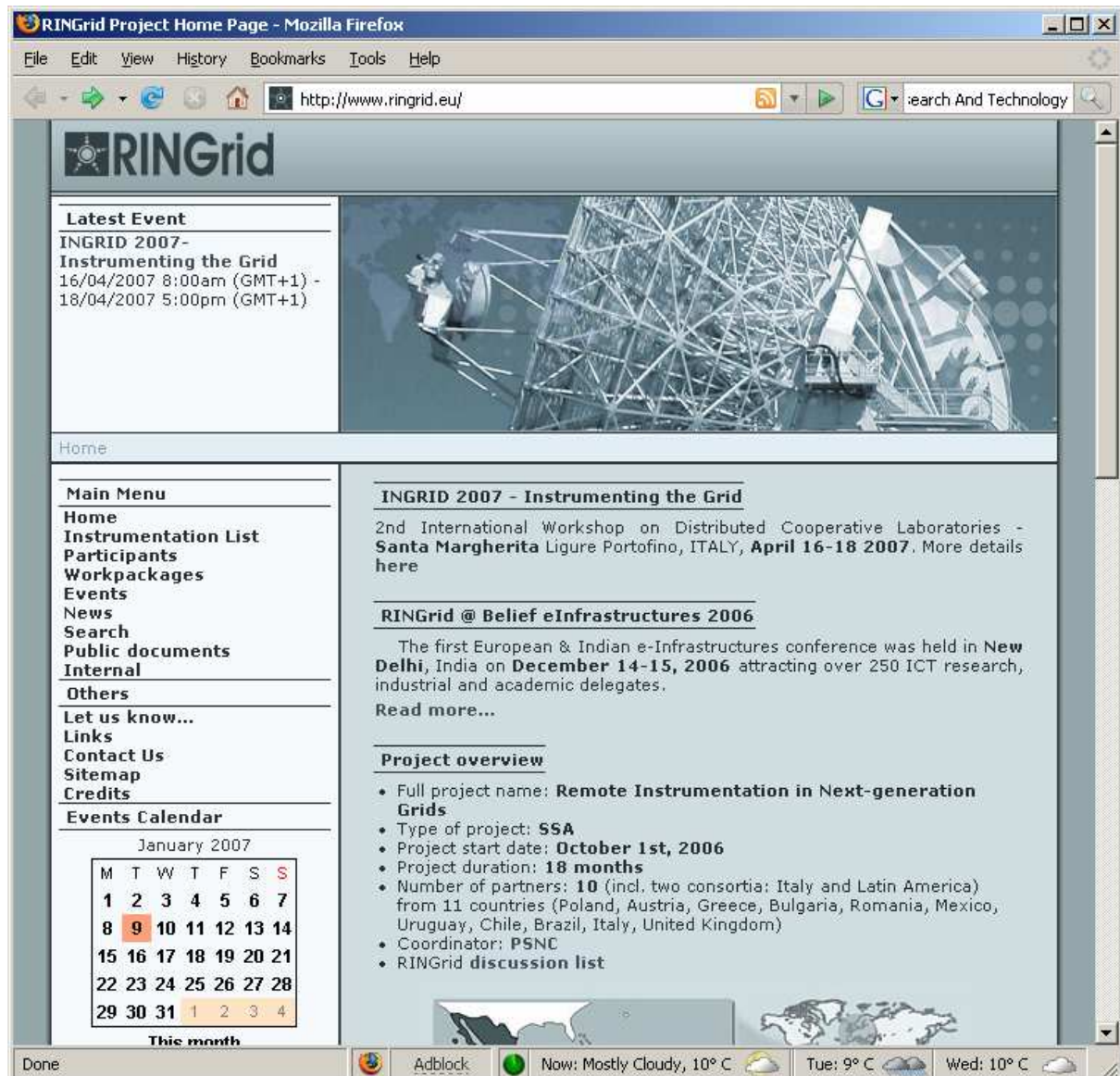


Figure 1. Main page of the RINGrid website

To make the process of site development easier and more professional creators decided to use one of the existing free of charge CMS systems. Amongst few and very popular being on the market we decided to use Joomla, which is available for downloading at <http://www.joomla.com>.

6.2. Joomla CMS

Joomla CMF uses PHP technology and MySQL as a database. It is used all over the world to power everything from simple, personal homepages to complex corporate web applications. With its simplicity it is a great tool for building a powerful site from scratch.

Joomla in basic version is easy to install, even for non-programmers and developers. It has a large and active community still growing up. Joomla has got many powerful features and hundreds of extensions and some of them have been used while creating the project site. They are as follows:

- Dynamic form builders,
- Business or organizational directories,
- Document management,

- image and multimedia galleries,
- Forums and chat software,
- Calendars,
- Directory services,
- Email newsletters,
- Data collection and reporting tools,
- Banner advertising systems,
- Subscription services and many more.

Taking all into account, <http://www.ringrid.eu> seems to be both simple to use and quite powerful tool for getting acquainted with the project main ideas for non-project participants as well as collaboration tool for project members.

6.3. Components

Joomla CMF in its basic version was not sufficient for RINGGrid solution. Therefore we decided to use some predefined components which have been incorporated to the portal. They are as follows:

6.3.1. Events

This component allows the user to define project events as the complex repeating patterns. They can be created and viewed in an attractive calendar and a variety of list formats. Events can be categorised and calendar views can be customised to show all or some of these categories. Currently existing categories are: conferences, meetings and others. Together with Events components another module has been installed. It is called Latest Events which chooses the latest incoming events and displays them (according to the main Events config e.g. show only 2 latest incoming events within next 50 days).

6.3.2. MamboWiki

This is the heart of the internal part of the RINGGrid website. It uses Wiki technology. It is a great way to present and edit some types of content, so that every registered user can edit and collaborate on information or in the creation of a document.

6.3.3. JoGadgets

This component has been used to allow putting images themselves or image galleries e.g. images of instruments considered in the project. On the website you can see black & white thumbnails. After clicking on one of them user can browse the gallery by pressing Prev / Next buttons.

6.3.4. RD Sitemap

RD Sitemap is a highly configurable sitemap component which shows all menus, content items and archived content items or only the items you like. This component allows you to change the look of the output by using CSS via classes or context selectors.

6.4. Website layout

The RINGGrid website has been divided into few logical sections. In the upper right one there is a flash animation with the project title and radio telescope as an example of used instrument. The upper left shows the latest incoming event related to RINGGrid project. The left side is reserved for the main menu, calendar with marked events dates, log in form etc. The main space of the portal is reserved for the content dynamically changed according to the option selected from the main menu. By default the general information about the project and map of participant locations are presented.

6.5. Main menu

The main menu consists of the following sections:

- Home – presents project overview and link to the form where everybody can support RINGGrid community by submitting information about possessed instrumentation,
- Instrumentation list – short characteristic of participants devices. This section includes images gallery of consortium equipment (currently IBCH/PSNC and Brazil/Chile only),
- Participants – participants description (after logging in personal CVs are available for users),
- Workpackages – short description of all six workpackages,
- Events – this section allows anyone to browse all the events related to the RINGGrid project. Divided by categories such as: conferences, teleconferences, workshops, user communities meetings,
- News – project news. Section divided into latest and archived news,
- Search – allows the user to search the portal for the interesting information,
- Public documents – All the public documents which are created within WPs are presented here. They are mostly workpackages deliverables.
- Internal – private documents of the project (available after logging in). It uses Wiki technology and has been divided into the following sections:
 - TB – contains all information/document associated with Technical board,
 - EB – contains all information/document associated with Executive board EB ,
 - Workpackages – workpackages section. Includes list of actions and deliverables for given workpackages,
 - Actions – List of actions in the project,
 - Meetings – Includes description and information about project meeting. Includes agendas, presentations etc.,
 - Deliverables – List of deliverables: Divided into two subsections: list of deliverables for WP 1-3 and 4-6,
 - Documents – Documents section. Includes technical annex, presentation, deliverable document, leaflet templates, generic RINGGrid logos and project folder etc.),
 - Contact list – Internal contacts section divided according workpackages,
 - File upload – section where user can upload a file to the Wiki.

7. Summary

Dissemination and exploitation of the project results are important aspects to accomplish assumed project objectives. This report presents classification and evaluation of dissemination activities, general workplan and detailed plan of knowledge dissemination.

There have been described major activities which will be realized during project lifetime e.g. participation in conferences, preparing leaflets, developing web page, establishing standardization bodies, cooperation with user communities.

It need to be emphasized that the main objectives of WP5 are also establishing and maintaining solid contacts with other related projects from similar fields of interest.

Definitions, abbreviations, acronyms

ALICE	América Latina Interconectada Con Europa
AURA	Association of Universities for Research in Astronomy
CLMC	Central Laboratory of Mineralogy and Crystallography
CMS	Content Management System
CNIT	Consorzio Nazionale Interuniversitario per le Telecomunicazioni
CNR	Consiglio Nazionale delle Ricerche
CSS	Cascading Style Sheet
DEIS	Department of Electronics, Information and Systems Science - University of Pisa, University of Bologna
DIST	Department of Communications, Computer and Systems Science - University of Genoa
EELA	E-Infrastructure shared between Europe and Latin America
EGEE	Enabling Grids for E-science and Industry in Europe Project
eIRG	e-Infrastructure reflection group
ESFRI	European Strategy Forum on Research Infrastructures
EXPreS	A Production Astronomy e-VLBI Infrastructure
GGF	Global Grid Forum
GridCC	Grid Enabled Remote Instrumentation with Distributed Control and Computation
ISTI	The Institute of Information Science and Technologies
IVOA	International Virtual Observatory Alliance
JIVE	Joint Institute for Very Long Baseline Interferometry
LBA	Large Scale Biosphere-Atmosphere Experiment in Amazonia
LNA	Laboratório Nacional de Astrofísica
LNLS	Laboratório Nacional de Luz Síncrotron
NREN	National Research and Education Network
PIONIER	Polski Internet Optyczny
QoS	Quality of Service
RedCLARA	Cooperación Latino Americana de Redes Avanzadas
RIS	Remote InStrumentation
RNP	Rede Nacional de Ensino e Pesquisa
TUI	Technical University Iasi
UCRAV	Uso Colaborativo de Recursos de Alto Valor del Sistema Universitario
UNAM	Universidad Nacional Autonoma de Mexico
UNIS	University of Surrey

References

Name	–	Reference
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Johannes Kepler Universitat Linz	–	http://www.uni-linz.ac.at/
Greek Research And Technology Network S.A.	–	http://www.gnet.gr
Central Laboratory Of Mineralogy And Crystallography - Acad. Ivan Kostova	–	http://www.clmc.bas.bg
Universitatea Tehnica "Gh. Asachi" Iasi	–	http://www.tuiasi.ro
Universidad Nacional Autonoma de Mexico	–	http://www.unam.mx
Cooperación Latinoamericana de Redes Avanzadas	–	http://www.redclara.net
Consorzio Nazionale Interuniversitario per le Telecomunicazioni	–	http://www.cnit.it
Consiglio Nazionale delle Ricerche	–	http://www.cnr.it
The University of Surrey	–	http://www.surrey.ac.uk
GridCC	–	http://www.gridcc.org/
Int.eu.grid	–	http://www.interactive-grid.eu/

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