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eScience Across the  
Mediterranean

Instrument: Specific Support Action

Activity: Research Infrastructures

## Periodic Activity Report - First Year

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Project coordinator name: Federico Ruggieri

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[abstract](#): This document describes the EUMEDGRID activities in the first year (2006).

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## PUBLISHABLE EXECUTIVE SUMMARY

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Funded by EC within the Sixth Framework Program for Research and Development and Coordinated by INFN, EUMEDGRID aims to support the development of a Grid e-Infrastructure in the Mediterranean Area and promote the porting of new applications on the Grid platform, thus allowing Mediterranean scientist to collaborate more closely with their European colleagues.

Conceived as the extension of EGEE in the region, EUMEDGRID is disseminating Grid awareness and competences across the Mediterranean and, in the meanwhile, identifying new research groups to be involved in the project, helping them to exploit Grids' enormous potential to improve their own applications.

The implementation and coordination of a grid infrastructure at a national (or larger) level can be regarded, especially in the beneficiary Countries, as an opportunity to optimize the usage of existing, limited storage and computing resources and to enhance their accessibility for all research groups.

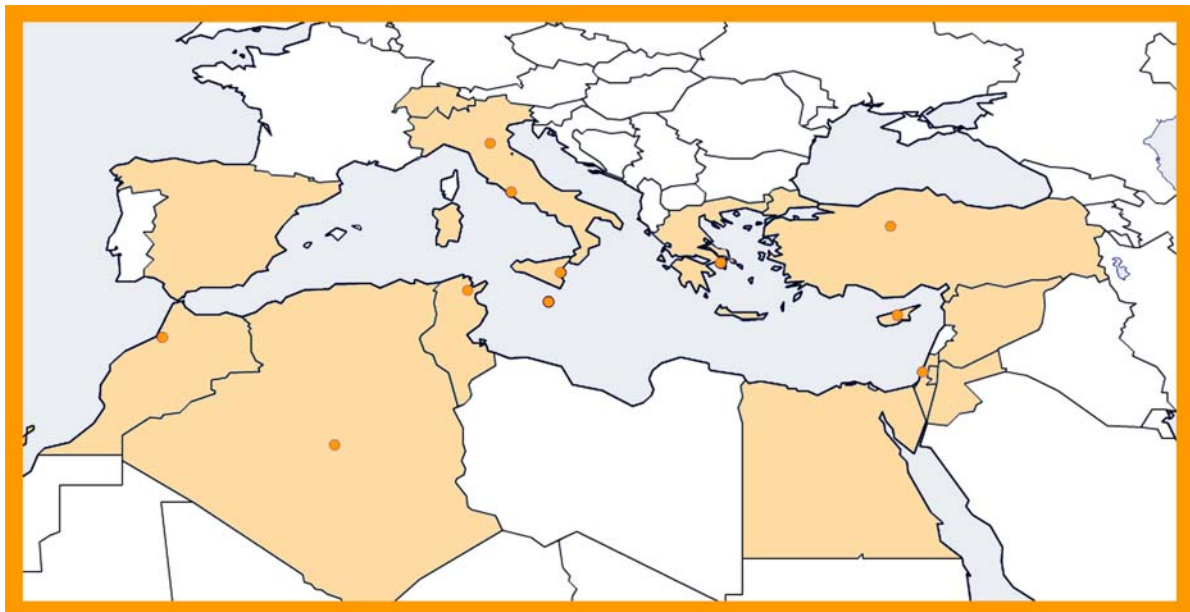
Many research fields have indeed very demanding needs in term of computing power and storage capacity, which normally are provided by large computing systems or supercomputing centres. Furthermore, sophisticated instruments may be needed to perform specific studies. Such resources pose different problems to developing economies: they are expensive, they need to be geographically located in a specific place and – this is the case especially for those countries where the larger part of researcher is forced to emigrate in richer countries to continue their scientific careers – they could not reach a critical mass of users, because, for example, they are very specific and interest only a small community of researchers, or small communities scattered across the country. Thanks to the creation of a virtual, distributed environment, all these drawbacks can be removed: through an appropriate access policy, different user groups can use resources wherever disperse, according to their availability. Furthermore, geographically dispersed communities working on the same problem can collaborate in real time thus optimizing not only hardware and software resources, but also human effort and “brainware”.

The EUMEDGRID project is conceived in this perspective and aims to set up a pilot grid infrastructure for Research in the Mediterranean Region, which will be interoperable and compatible with EGEE and related initiatives. The EUMEDGRID's vision focuses on improving both the technological level and the know-how of networking and computing professionals across the Mediterranean, thus fostering the introduction of an effective Mediterranean Grid infrastructure for the benefits of eScience. Accordingly, the project objectives can be regarded as belonging to two main areas: the first focusing on softer actions, with the overall aim of creating a *human network* in e-Science across the Mediterranean, and the second one addressing technical issues and intended to support the implementation of a pilot Grid infrastructure and applications in the area.

The Project will last for 24 months, but EUMEDGRID has already made a considerable step forward during the first year of the project and a number of achievements give evidence of the advancement of the activities.

Cooperation among all the participants has been demonstrated by the enthusiastic participation to common workshops and meetings (Athens, Istanbul, Rome, Marrakech) organized during the year and the good progress made towards the creation of National Certification Authorities and National Grid Initiatives. Impressive results were also obtained in the events of knowledge dissemination on Grid Technology and services. A large community including system administrators, researchers, and final users was involved with good results in terms of number of participants and feedback obtained through dedicated questionnaires.

The promotion of National Grid Initiatives carried out in all non-EGEE Partner Countries registered a good level of success with programs already operational in Algeria, Morocco (MaGrid), Tunisia and Turkey and well advanced plans, with clear timelines, in Cyprus, Egypt and Palestine. The project was very active in promoting the creation of national Certification Authorities which will issue digital certificates necessary for allowing secure Grid access to the users. The process is well on in several countries and, in the meanwhile, a temporary catchall CA was created in order to fulfil the needs of EUMEDGRID users.



**Figure 1 - EUMEDGRID Countries and operating grid sites**

A pilot grid infrastructure, composed to date of 10 sites (3 from Italy and 1 each from Algeria, Cyprus, Greece, Israel, Malta, Morocco and Turkey), was set up during the first project year. The current infrastructure is already visible in the monitoring tools (see <http://eumed-gridice.cnaf.infn.it:50080/gridice/geo/geo.php>), while some more sites in Egypt, Morocco, Syria and Tunisia are on their way and will join the eInfrastructure in the next few months.

The EUMEDGRID sites supported the WISDOM Data Challenge against malaria which began the 1<sup>st</sup> October 2006 and will close at the end of January 2007. WISDOM (World-wide In Silico Docking On Malaria, see <http://wisdom.eu-eggee.fr/>) is an international initiative aiming at demonstrating the impact of the grid approach to address drug discovery for neglected and emergent diseases. The data challenge targeted the extensive screening of compounds which may be helpful to treat and defeat malaria: for many EUMEDGRID Countries, this was the first time ever to take part in such an initiative.

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Several other applications have been proposed to run on the EUMEDGRID e-Infrastructure and many were selected to be supported, spanning several fields of interests: High Energy Physics, Biology and Biomedical, Hydrology, Archaeology, Seismology and Vulcanology. New communities and applications of Regional interest may also be discovered in the future by means of a survey based on web questionnaires<sup>1</sup>. The works to port the first applications on the EUMEDGRID e-Infrastructure began in the 1<sup>st</sup> quarter of 2006 with CODESA and ArchaeoGrid, respectively an hydrological and an Archaeological application which are envisaged to be of interest for the Mediterranean Region.

The interest of the EUMEDGRID experience does not however restrict to scientific issues - although the opportunity to port applications of regional importance, such as the hydro-geological and medical ones, on the pilot infrastructure sounds really exciting. Fostering Grid awareness and the growth of new competences in EU Neighbors' scientific communities is a concrete initiative towards bridging the digital gap and, moreover, to promote a peaceful and effective collaboration among all Partners.

More information and public documents describing in details the activities performed by the project can be found on the EUMEDGRID web site: <http://www.eumedgrid.eu>.

The EUMEDGRID Project is coordinated by INFN (Italy) and involves several partners from the Mediterranean Area: GRNET (Greece), GARR (Italy), RED.ES (Spain), DANTE (UK), CERIST (Algeria), CNRST (Morocco), CYNET (Cyprus), EUN (Egypt), HIAST (Syria), MRSTDC (Tunisia), University of Malta (Malta), TUBITAK (Turkey), and international organization CERN (Switzerland),

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<sup>1</sup> <https://secure.um.edu.mt/eumedgrid/questionnaire/wp2/>,  
<https://secure.um.edu.mt/eumedgrid/questionnaire/wp4/>



while IUCC (Israel), JUnet (Jordan), PADI2 (Palestine), ICTP (Italy), CRS4 (Italy), Dep. of Mathematics - University of Messina (Italy) and the Department of Physics – University of Roma Tre (Italy) are third parties.

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## 1. PROJECT OBJECTIVES AND MAJOR ACHIEVEMENTS DURING THE REPORTING PERIOD

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The project officially took off on the 1<sup>st</sup> of January 2006, according to the EC contract n. 026024. The first year of the project was critical, due to the uncertainties of the start-up phase in each country. The various difficulties and issues were mostly administrative and, for a large part, were solved case-by-case with the help of specific actions of the Project Office (PO), which provided clarifications to the partners regarding all the aspects of the Contract. The results obtained against the foreseen objectives, together with the major achievements are described in the following paragraphs.

### 1.1. Objectives

Project activities have been focusing on two main areas:

- a) Creating a human network in Grids, eInfrastructures and eScience, assessing its needs and training the new communities, thus stimulating the creation of National Grid Infrastructures (NGI) in the Mediterranean countries. Several targets were taken into account to achieve this objective, including:
  - ▶ Actors at the eInfrastructure level (i.e., actual and potential grid site administrators, network professionals, etc.)
  - ▶ Actors at the eScience level (i.e., researchers, developers of eScience applications, actual and potential advanced users)
  - ▶ Actors at the Policy level (i.e., institutions, public bodies etc)

This first set of objectives are conceived in part as an “horizontal action” of the project and an exploitation of the former human network created among a large part of the Participants within the EUMEDCONNECT framework. On the other hand, specific activities were carried out by WP5 to meet the specific objectives identified in this area (see below). The Project has successfully created a community which is strongly interested in the creation of NGIs and has started involving the user communities with a good level of success, witnessed by the attendance to the events (Conference, Workshop and Tutorials) organised during the reported period.

- b) Driving the technological developments in the field of grids across the Mediterranean Region in order to install pilot grid sites in all participating Countries and quickly enable Grid operations on the EUMEDGRID infrastructure. This second set of objectives focused on technical aspects as follows:
  - ▶ Capture local eScience user requirements in terms of resources needed, Grid services, and application software and provide guidelines to drive regional integration in the Euro-Mediterranean infrastructures. These objectives were especially tackled by WP2 and activities were successfully concluded before the end of the reporting period. In fact, a large survey was carried out across the Mediterranean Countries in order to discover relevant eScience

applications and collect their requirements. Data were processed and analyzed during the first half of the reporting period (D2.1) and this provided the input for a technical roadmap (D2.2).

- ▶ Carry out the Euro-Mediterranean regional integration through supporting the installation of pilot Grid resource centres in each Country and provide them with operational support. This action is carried out within the WP3 framework with the support of the team of tutors who work in task A5.2. The first pilot infrastructure, composed by 5 grid sites across several participant Countries was already operating at the end of the first quarter and grew to 10 at the end of the reporting period. Installation of other grid sites was initiated in order to widen it (see the WP3 report for details and a map of the operational and foreseen sites).
- ▶ Support the deployment of EGEE-compliant applications (High Energy Physics and Biomedical applications) and favour the porting of other applications of regional interest on the EUMEDGRID pilot infrastructure. This objective is especially tackled in the framework of WP4, which aims to support not only a few of the well-known EGEE applications, but also those discovered by WP2 through the application survey (see above). Of course, the work started officially only in the second half of the reporting period, but an interesting list of different applications has already been created and a questionnaire to continue the survey activity and increase the number of contacts is maintained on-line on the project web site. An intense activity (in close conjunction with WP3 and A5.2) in this field was started, when the results of the survey and the technical roadmap were available and lead to the first selection of interesting applications in Hydrology, Geophysics, Vulcanology, Seismology and Archaeology.

## 1.2. Deliverables

**D1.1 Project Presentation** - The deliverable provides general information about the EUMEDGRID project and its management. It also gives a full account about project communication and dissemination strategies and tools, describing the first information materials on the subject and includes as annexes the Project Information Sheet and the EUMEDGRID kit of templates.

**D2.1 User and e-Infrastructure requirements capture and analysis** – This document gives a comprehensive picture of the state of the art in the Mediterranean Area regarding the e-Infrastructures and, in particular, communication networks and grids. A relevant part of the work was based on the analysis of the result of a questionnaire distributed among the partners. The figures in the document can be considered as a reference picture at the beginning of the project.

**D5.1 Intermediate outreach plan** – This document provides a first version of the Outreach Plan for the EUMEDGRID Project. It describes the strategy adopted within the scope of WP5 and namely of A5.2 (Outreach) in order to assume the responsibilities assigned to it in the EUMEDGRID Technical Annex and assesses the necessary actions. The mission and goals of the activity and appropriated measures to

pursue them are described. The document also summarises the events held and indicates the ones scheduled and planned for the future. Such initial plan is bound to be revised and updated at M15, building upon the experience gained in the meanwhile.

**D2.2 Proposed technical roadmap** – This document presents a technological roadmap for the set up and deployment of basic infrastructures and their integration within regional infrastructures and draws strategic directions on the basis of the information (financial, political and technological situation, together with administrative merits, time-scales and sustainability) collected and analyzed within the scope of Activity 2.1 and published in Deliverable 2.1.

**D3.1 CA and RA procedures and guidelines** – This document describes the State of the Art of the creation of Certification Authorities (CAs) and Registration Authorities (RAs) in the countries of the Mediterranean Area. A set of guidelines for the creation and implementation of new CAs/RAs is also presented. The aim of the document is then, from one side, to provide a picture of the efforts done by EUMEDGRID Project towards the creation of such Authorities in the Med Countries and, on the other side, to suggest the procedures and the best practices that should be followed to successfully set up new Authorities.

**D4.1 Initial specification and requirements of the applications** – This document describes the initial specifications and requirements of candidate applications to run on the EUMEDGRID test-bed. The selection process is outlined and each application is briefly described focusing on the features required to the Grid middle-ware in order to allow an easy and worthy implementation.

**D5.2 Policy state of the art** – This document describes the Status and perspectives of the creation of National Grid Initiatives (NGIs) in the Mediterranean Countries involved in EUMEDGRID, with special reference to the ones not currently belonging to the EGEE consortium.

**D3.2 Operational, organisational and policy schemes** - This deliverable gives an overview of best practices in production Grid operations and proposes a Grid management model for the region in terms of operations, organisation and techniques.

### 1.3. Milestones

**M1.1 Kick-Off Meeting** - Due on the first Project Month (PM), was relative to the organization of an official kick-off meeting. The milestone was reached with one week delay: the meeting was successfully held in Malta on the 6<sup>th</sup> and 7<sup>th</sup> of February 2006 thanks to the commitment of the University of Malta whose people efficiently organized the meeting and the logistics. Besides organizational and management issues, the meeting was also a very good opportunity to disseminate

the project in Malta and in the other participating Countries. Public participation was particularly good: the Minister of Education, Youth and Employment gave the welcome presentation at the meeting and Maltese TV and newspapers followed the event. Also in other Countries the press coverage was satisfying. A total number of 50 people attended the public session of the first day and about 40 attended the internal meeting of the second day. All the Contractor partners were represented, which was in itself a big political achievement. Having all the representatives of Med Countries in the same room, around the same table, discussing technical activities without any prejudice, as it was pointed out by the Minister his welcome speech, was indeed a big event.

**M5.1 Initial public website and project presentation** – The web site was already available before the project start and the Project presentation was prepared to produce also dissemination materials as it is reported in the deliverable D5.1.

**M2.1 Initial grid communities identified** – This milestone was reached with the help of the questionnaire described in the deliverable D2.1.

**M5.2 Public portal ready** – This portal was indeed ready well in advance of the time due and is one of the most useful tools used by the project. The portal contains information and tools for the project participants and for the general public. The formers include agenda management, document management, Grid Monitoring, timesheet forms, VOMS, etc and the latter information on partners, activities, tutorials, press cuts, etc.

**M2.2 Requirements collected and analysed** – The results of the survey were reported in the Deliverable D2.1 mentioned above. All the information (macroeconomic and national environment, telecom situation and user requirements) was timely gathered and analysed in order to produce the deliverable in due time and to provide an input for the technical roadmap (D2.2).

**M2.3 Core NGI candidates identified** – Most of the partners had already activated the preparation phase for the creation of a NGI in their country. At M7 the number of beneficiary countries with advanced NGI activities was around 4 with different level of maturation.

**M3.1 Network services assured** – The EUMEDCONNECT network was, since the beginning of the project, the underlying network infrastructure used by EUMEDGRID. The connectivity ranged from 8 Mbps of Syria to 200 Mbps of Cyprus and 622 of Israel, passing by the 34 Mps of Egypt, and the 45 Mbps of Jordan, Malta, Palestine, and Tunisia.

**M5.3 Dissemination material ready** – The dissemination material was prepared already in may for the TERENA TNC06 Conference well before M7.

**M5.4 Initial setup of outreach material** – The milestone was successfully reached and the full set of dissemination materials can be found on the EUMEDGRID document server at: <https://documents.eumedgrid.org/collection/Training%20materials>

**M3.2 CA in operations** – This milestone was reached well in advance of the foreseen date (M7), as it is explained in the deliverable D3.1.

**M5.5 1<sup>st</sup> Project Workshop** – A project Conference was organized in Rome in September, well attended by all the partners and also by external people. Several distinguished speakers were invited from other projects and the presentations stimulated the interest of several participants.

**M3.3 Pilot sites available in the region** – This Milestone, foreseen to be reached at M13 can be considered as already achieved in the present reporting period. As of the end of December 2006, already 10 sites were up and running with their resources monitored by GridIce and other monitoring tools (GStat and SAM).

#### 1.4. Other Achievements

During the reporting period the project achieved also other important results.

- ▶ The EUMEDGRID activity was largely disseminated in several events and by invited talks as it is reported in WP5.
- ▶ 6 Tutorials on Advanced Knowledge in Grid Technologies were done during the reported period with a large and active participation of persons coming from the partners and from other institutions. The scores obtained in the feed-backs were good and the people were highly motivated to install grid sites in their countries when they came back.
- ▶ A specific Questionnaire for new applications was prepared and largely advertised by the partners in their countries. A good number of answers were already received by the end of the reporting period and several interesting applications were already investigated.

## 2. WORKPACKAGE PROGRESS OF THE PERIOD

### 2.1. ACTIVITY SUMMARY

The following paragraphs provide a brief report of activities carried out during the first year of the project. The responsible persons for some activities have changed. Specifically GRNET changed the WP3 Manager and Activity Manager of A3.1, A3.3 and INFN changed the A3.2 Activity Manager as evidenced in the table below.

*Table 1 - List of Responsibilities in the Project*

Activity	Leader/Deputy	Partner
<b>WP1 Project administrative &amp; technical management</b>	<b>Federico Ruggieri</b>	<b>INFN</b>
A1.1 - Administrative management	Federico Ruggieri	INFN
A1.2 - Technical management	Roberto Barbera	INFN
<b>WP2 Requirement capture and analysis</b>	<b>Kevin Vella</b>	<b>UoM</b>
A2.1- Gather and analyse countries' data	Kevin Vella	UoM
A2.2 - Study state of the art and propose technical roadmap	Markus Schulz	CERN
<b>WP3 Pilot infrastructure al support</b>	<b>Kostas Koumantaros</b>	<b>GRNET</b>
A3.1 - Operational, organisation and policy schemes	Kostas Koumantaros	GRNET
A3.2 – Support to middleware deployment & pilot site installations	Giuseppe Misurelli	INFN-CNAF
A3.3 -Pilot infrastructure operational support	Kostas Koumantaros	GRNET
A3.4 - Network resource provision	Ester Robles	RED.ES
A3.5 - Certification authority setup & operations	Roberto Cecchini	INFN
<b>WP4 Application support</b>	<b>Giuseppe Andronico</b>	<b>INFN</b>
A4.1 - EGEE applications	Burku Ackan	TUBITAK
A4.2 - Regional applications support	Giuseppe Andronico	INFN
A4.3 - Promoting new applications	Roberto Barbera	INFN
<b>WP5 Dissemination and Outreach</b>	<b>Federica Tanlongo</b>	<b>GARR</b>
A5.1 - Dissemination activities	Federica Tanlongo	GARR
A5.2 - Outreach activities	Giuseppe Andronico	INFN

### 2.1.1. WP1: Project Administrative and Technical Management

The activities related to the overall management of the project were particularly intense during this first reporting period, both on the technical and administrative side. In fact, in the early stages of the project several fundamental actions were taken in order to create an effective organization management thus paving the way for the creation of a flexible and effective management structure, also taking in consideration some critical issues, which are specific for EUMEDGRID and are described in the following paragraphs.

#### 2.1.1.1. Work package objectives and starting point of work at beginning of reporting period

The goal of the work package, as stated in the Annex I – Description of Work, is to tackle the problems of co-ordinating heterogeneous scientific consortium in the most efficient manner. The main goals in this context are efficient organisation; co-ordination and communication procedures; timely delivery of dependable results; efficient management of dissemination of the results across diverse communities; enforcing the full compliance with the articles of the contract signed with the EC and of the consortium agreement signed among the contractors.

#### 2.1.1.2. Progress towards objectives

The Administrative Management activity was devoted to the Project start-up and organization. The following are the main activities carried out in the reporting period:

- ▶ **Setup of a Project Office:** From the early stages of the project works, a Project office was created in order to facilitate communication among the Project Manager (Federico Ruggeri, who's *ex officio* part of the PO as well) and the Participants and to support administrative activities. Federica Tanlongo, Alessandra De Nicola and Giada Di Giammarco from GARR were the first PO members, together with the Technical Manager, Roberto Barbera. INFN then selected and hired an administrative person, Marta Mieli, who is in charge for the accounting aspects of the Project reporting. She started her contract in April.
- ▶ **Organization of the Kick-Off Meeting, First Conference and First Workshop:** those events were organized in: Malta, Rome and Marrakech, respectively and were also followed or preceded by Project Management Boards and Tutorials on gLite. The combination of these events favoured the large participation of partners to these meetings, optimizing the travel expenses and increasing the personal relationships.
- ▶ **Organization of Technical Activities:** several Technical Board (TB) Meetings were organized to discuss the technical activities of the project. A TB meeting was always done before each PMB and the others were organized regularly via phone conferences.
- ▶ **Contract signature:** the contract signed by the INFN President was sent to the European Commission (EC) before Christmas 2005 and the EC signature was done on the 31 January 2006. All Accession Forms (Form A) to the Contract were signed by the partners, countersigned by the INFN President and sent to EC on 2 February 2006.

- ▶ **Pre-financing** from European Commission was received by INFN on its bank account in Banca di Roma, which does not provide interests. The pre-financing was distributed in three instalments accordingly to the Consortium Agreement. The EUN amount was not distributed because the Bank Account information has not been received yet.

#### **2.1.1.3. Deviations from the project work programme and corrective action taken/suggested**

The EUN amount was not distributed because the Bank Account information was not received. It is apparently very difficult, due to anti-terrorism laws, to receive directly external funds from abroad in Egypt. We are currently exploring alternatives using International Non-Profit Organisations as intermediate steps for these bank transfers.

Delivery of Quarterly Reports was not timely done. The main reason was a lack of experience of many partners in the reporting and administration of European funded projects. An administrative tutorial was organized twice during the second half of the reported period. A report template has been created and will be circulated well in advance to solicit the reports from the partners.

#### **2.1.1.4. List of Deliverables**

Del. no.	Deliverable name	Date due	Actual/Forecast delivery date	Lead contractor
D1.1	Project Presentation	PM1	14/03/2006	INFN
D1.2	Sustainability plan	PM24	Planned	INFN

#### **2.1.1.5. List of Milestones**

Milestone no.	Milestone name	Date due	Actual/Foreseen achievement date
M1.1	Kick-Off Meeting	PM1	06/02/2006



## **2.1.2. WP2: Requirement Capture and Analysis**

### ***2.1.2.1. Work package objectives and starting point of work at beginning of reporting period***

#### Objectives

- Determine the state of the art in the participating countries in the context of Grid technology and the IT and telecommunications sectors through questionnaires and other information gathering exercises.
- Develop a model for the formation of sustainable National Grid Initiatives in the participating countries.
- Propose technical solutions for Grid middleware and computing, storage and network infrastructure.
- Develop a regional deployment strategy from site installation to day-by-day operations.

### ***2.1.2.2. Progress towards objectives***

An information gathering exercise was conducted between PM1 and PM5 to determine the state of the art in the participating countries, namely:

- Algeria (EUMEDGRID partner: CERIST)
- Cyprus (EUMEDGRID partner: CYNET)
- Egypt (EUMEDGRID partner: EUN)
- Israel (EUMEDGRID partner: IUCC)
- Jordan (EUMEDGRID partner: JUNET)
- Malta (EUMEDGRID partner: UoM)
- Morocco (EUMEDGRID partner: MARWAN)
- Palestine (EUMEDGRID partner: PADI2)
- Syria (EUMEDGRID partner: HIAST)
- Tunisia (EUMEDGRID partner: MRSTDC)
- Turkey (EUMEDGRID partner: ULAKBIM)

Information regarding the IT and telecommunications sectors in the participating countries was gathered from a variety of data sources (ITU, EUMEDCONNECT, UNCTAD, etc.) as well as from the project partners in the relevant countries. Information about the NRENs and their infrastructure (organisational information, user community information, technological status, services offered) was also collected. The partners were asked to review the data pertaining to their respective countries, and the final result was collated to form Chapters 1, 2 and 3 of D2.1.

The gathering of information regarding the grid technology landscape was carried out through an online questionnaire (the WP2 questionnaire) which interested researchers and institutions in the participating countries, who were invited to fill it. A draft questionnaire was circulated at the Malta Kick-off Meeting in February 2006 for feedback from interested parties. The final questionnaire was hosted online on the UoM website and various EUMEDGRID partners' sites, and linked to from the project website at [eumedgrid.org](http://eumedgrid.org). By April 2006, 96 questionnaire responses were gathered from the region. The results were presented in Chapter 4 of D2.1, while a full analysis of the results can be found in Chapter 5 of D2.1.

Amongst the results of this survey, it has emerged that only 20.4% of respondents had used grids, while 39.7% of respondents had used parallel computing technology. 73% of respondents believe that they can benefit from the introduction of grid computing facilities.

During the 3rd quarter, D2.2 was drafted, reviewed and finalized. D2.2 (Technical Roadmap) was coordinated by CERN, and presented a technical roadmap for the setup and deployment of EGEE-based grid infrastructure in the Mediterranean region. It included an overview of the EGEE middleware stacks (LCG & gLite), basic site infrastructure deployment and monitoring and a plan for the rollout of EUMEDGRID production sites to join the EGEE production infrastructure. A section was also devoted in surveying the status of national grid initiatives in the participating Mediterranean countries.

Four packages have been deployed to ensure an effective monitoring and a periodic, regular testing of the middleware infrastructure (in the brackets the web pages containing the real-time EUMEDGRID testing and monitoring results):

- SFT (<https://mon.isabella.grnet.gr/eumed/lastreport.cgi>)
- GridICE (<http://eumed-gridice.cnaf.infn.it:50080/gridice/site/site.php>)
- GStat (<http://goc.grid.sinica.edu.tw/gstat/eumed/>)
- SAM (<https://sam.grid.cs.um.edu.mt/sam/sam.py>)

Each of them offers a web interface which allows either monitoring the status of the computing infrastructure and functionalities (including middleware services) or to submit and track the help requests addressed to a Help Desk service.

About user support, a ticketing system, EUMEDGRID Support Centre, is already active (reachable at <http://support.eumedgrid.org>). This support centre is dedicated to support EUMEDGRID Site Administrators, Users and any other project partners who are involved in the operation, administration and usage of the EUMEDGRID infrastructure.

The current plans foresee to have the following resources available at the end of the two year project:

- 16 EUMEDGRID clusters across 11 countries configured and active
- An overall computing power which can rely on more than 640 CPUs;
- An overall storage capacity of more than 26 TBytes.

The following applications will be supported:

- High Energy Physics applications (there are many candidates, like CMS and ATLAS);
- Biomedicine applications;
- Earth Science applications;
- Other regional applications as they are/will be identified by WP4.

Finally, the status of the NGIs in the Mediterranean region is as follows:

- Fledgling Grid community = 1 country;
- Grid Awareness Raising Phase = 4 countries;
- NGI Planning Phase = 2 countries;
- Active NGIs = 4 countries.

### 2.1.2.3. Deviations from the project work programme and corrective action taken/suggested

It was decided that it would be beneficial to keep the online questionnaire open beyond the deadline for D2.1, so as to enable the gathering of further information from potential grid users in the Mediterranean through the project duration to the end of the project (December 2007). Hence the questionnaire was reopened for further responses in Q3 2006.

### 2.1.2.4. List of Deliverables

Del. no.	Deliverable name	Workpack age no.	Date due	Actual/Forecast delivery date	Lead contractor
D2.1	User and eInfrastructure Requirements capture and analysis	WP2	31/05/06	31/07/06	UoM
D2.2	Proposed technical roadmap	WP2	31/07/06	30/09/09	CERN

### 2.1.2.5. List of Milestones

Milestone no.	Milestone name	Workpackage no.	Date due	Actual/Forecast delivery date
M2.1	Initial grid communities identified	WP2	M4	M4
M2.2	Requirements collected and analysed	WP2	M5	M5
M2.3	Core NGI candidates identified	WP2	M7	M7

### 2.1.3. WP3: Pilot Infrastructure Operational Support

#### 2.1.3.1. Work package objectives and starting point of work at beginning of reporting period

The following objectives were declared in the Description of Work (Annex I to the Contract).

- Carry out studies and assessments of the available middleware in the context of regional needs.
- Perform pilot Grid site installation, testing and certification within every country in the region forming a pilot interoperable infrastructure.
- Establish the regional catch-all Certification Authority and the related CA and Registration Authority guidelines.
- Carry out studies regarding operational and organisational approaches for the production Grid environments.

#### 2.1.3.2. Progress towards objectives

- **Carry out studies and assessments of the available middleware in the context of regional needs**

We've assessed the middleware stack used by related projects such as SEE-GRID2 and EGEE-II and started deploying sites using LCG 2.7.0 which was quickly upgraded to qLite 3.0 as soon as it became available.

- **Perform pilot Grid site installation, testing and certification within every country in the region forming a pilot interoperable infrastructure**

Most countries have already deployed at least one cluster with the exception of Algeria and Syria that are delayed due to lack of hardware and network resources.

Country (Partner)	Site	WNs	CPUs	Storage (GB)	LAN (Mbps)	WAN (Mbps)
Cyprus(CYNET)	CY-01-CYNET	12	14	2000	1000	155
Egypt(EUN)	EG-01-ERI	4	8	160	100	34
Greece(GRNET)	HG-01-GRNET	23	64	10000	1000	1000
Israel(IUCC)	IL-IUCC	12	12	840	1000	1000
Italy(INFN)	INFN-CNAF	5	10	1700	100	1000
Italy(INFN)	INFN-CATANIA	81	248	7100	100	1000
Italy(INFN)	INFN-ROMA3	24	48	693	100	1000
Morocco(CNRST)	MA-01-CNRST	5	20	1000	1000	2
Malta(UoM)	MT-01-UOM	3	12	40	1000	20
Tunisia(MRSTDC)	UTIC-SITE	1	2	200	100	1
Turkey (TUBITAK)	TR-01-ULAKBIM	128	114	6000	1000	622
<b>Total</b>	<b># of Sites (10)</b>	<b>298</b>	<b>552</b>	<b>29733</b>		

- **Establish the regional catch-all Certification Authority and the related CA and Registration Authority guidelines**

INFN CA operates as a catch all Certification Authority for the region since M1 of the project and as of M9 of the project Registration authorities are established in

- CERIST, Alger, Algeria
- CNRST, Rabat, Maroc
- Cyprus Research and Academic Network
- Egyptian Universities Network, Egypt
- HIAST, Damascus, Syria
- Islamic University of Gaza
- RicerkaNet, Malta
- Ministry of Scientific Research and Technology, Tunisia

CA and Registration Authority guidelines are documented in deliverable D3.1 “CA and RA procedures and guidelines”.

- **Carry out studies regarding operational and organisational approaches for the production Grid environments**

We’ve studied the procedures and policies followed in related projects such as SEE-GRID2 and EGEE2. The outcome of our studies is documented in deliverable D3.2 “*Operational, organisational and policy schemes*” in the form of policies and procedures we plan to follow in the 2nd year of EUMEDGRID.

In order to assist us in monitoring and administering the infrastructure we also evaluated the following tools:

- HGSM (<https://hgsm.grid.org.tr/index.php?cwid=3&mode=0&lang=&ROC=14>), Holds contact information for all sites.
- Helpdesk (<http://support.eumedgrid.org>), used to keep track of progress of problems affecting a site and general Site Administrators and user support.
- SAM (<https://sam.grid.cs.um.edu.mt/sam/sam.py?>), active Site Monitoring Tool using job submission tests
- gridICE (<http://eumed-gridice.cnaf.infn.it:50080/gridice/site/site.php>), passive monitoring and statistics tool based on the information schema
- GStat (<http://goc.grid.sinica.edu.tw/gstat/eumed/>), passive monitoring tool based on the information schema, tightly integrated with SAM.

### 2.1.3.3. Deviations from the project work programme and corrective action taken/suggested

A few activities started earlier than foreseen (A3.1, A3.2, A3.3) due to the favourable conditions verified in the Kick-Off meeting in Malta.

The only major delay we are currently facing is that there is no site deployed in Algeria and Syria mainly due to lack of hardware resources and know-how. As a corrective action two site administrator tutorials were organised in Tunisia (Tunis) and Morocco (Marrakech). Syria is already preparing to deploy a site within the next couple of week. Algeria is expected to follow soon after.

### 2.1.3.4. List of Deliverables

Del. no.	Deliverable name	Workpackage no.	Date due	Actual/Forecast delivery date	Lead contractor
D3.1	CA and RA procedures and guidelines	WP3	31/07/06	21	INFN
D3.2	Operational, organisational and policy schemes	WP3	30/11/06	15/01/07	GRNET
D3.3	Pilot infrastructure overview	WP3	31/01/07	Planned	GRNET
D3.4	Infrastructure overview and assessment of infrastructure operations	WP3	31/12/07	Planned	CYNET

### 2.1.3.5. List of Milestones

Milestone no.	Milestone name	Workpackage no.	Date due	Actual/Forecast delivery date
M3.1	Network services assured	WP3	M7	M7
M3.2	CA in operations	WP3	M7	M7
M3.3	Pilot sites available in the region	WP3	M13	Planned
M3.4	Final pilot infrastructure available	WP3	M23	Planned

## 2.1.4. WP4: Applications Support

### 2.1.4.1. Work package objectives and starting point of work at beginning of reporting period

The original objectives quoted in the Description of Work (Annex I to the Contract) were the following:

- ▶ Validate infrastructure using EGEE applications.
- ▶ Give support to applications specific to Mediterranean area selected in the proposal formulation from partners.
- ▶ Collaborate with WP5 to locate and select new users communities that can be helped in integrating their applications in EUMEDGRID and in testing the relative benefits.

### 2.1.4.2. Progress towards objectives

The project progressed very fast towards the foreseen objectives and this is analytically described in the following.

- ▶ **Validate infrastructure using EGEE applications.**

In agreement with WP3 we ensured the deployment of the EGEE applications that, from the initial survey made from WP2, resulted as the more diffused in the region. The deployment is almost ready while the setup of the software is currently in progress.

- ▶ **Give support to applications specific to Mediterranean area selected in the proposal formulation from partners.**

The applications specific to the Mediterranean area are passing through the selection process. Through the collaboration with WP5 described below we will define these applications.

- ▶ **Collaborate with WP5 to locate and select new user communities that can be helped in integrating their applications in EUMEDGRID and in testing the relative benefits.**

We developed and published a web application questionnaire, both in English and in French, largely advertised by/among the partners. We are continuously promoting the questionnaire and recently we tried to improve it (to make it more simple and intuitive) to get more answers from potentially interested partners in the area.

The next step will be the analysis of the answers in order to select applications interesting for the area and applications to be supported. The WP4 team together with the Technical Manager developed some criteria to evaluate real and potential applications:

- The size of the community supporting the application and how much is spread among EUMEDGRID countries.
- The strategic importance of the application inside the project.
- The commitment of the community, that is how many resources the community is available to use in porting their application on EUMEDGRID infrastructure.

- The scientific and/or social impact of the application.

From this evaluation it will be possible to create a list and select accordingly the two sets of applications.

**2.1.4.3. Deviations from the project work programme and corrective action taken/suggested**

No significant deviations to report

**2.1.4.4. List of Deliverables**

Del. no.	Deliverable name	Workpackage no.	Date due	Actual/Forecast delivery date	Lead contractor
D4.1	Initial specification and requirements of the applications	WP4	30/09/06	15/11/06	INFN
D4.2	Selection of applications	WP4	28/02/07	Planned	INFN
D4.3	Final specification and requirements of the applications	WP4	31/07/07	Planned	INFN

**2.1.4.5. List of Milestones**

Milestone no.	Milestone name	Workpackage no.	Date due	Actual/Forecast delivery date
M4.1	EGEE applications running	WP4	M16	Planned
M4.2	Regional applications running	WP4	M21	Planned
M4.3	Test of new applications	WP4	M24	Planned



## 2.1.5. WP5 – Dissemination

### 2.1.5.1. Work package objectives and starting point of work at beginning of reporting period

Two of the project objectives stated in the Technical Annex were directly related to WP5:

*(O2) Promote awareness in the region regarding Grid developments through the organization of a number of dissemination and outreach events, which will promote the project results to the private and public sector, ultimately reaching the general public.*

*(O3) Establish a dialogue regarding policy developments for research and education networking and provide input to the agenda of national funding bodies and if possible governments. (WP5). This is to be done as part of NGI establishment (O1) as well as in a form of dedicated policy workshop.*

As regards to WP5, such general objectives may be detailed as follow:

- ▶ Organizing training/outreach events at a national and regional level, in order to promote Grid awareness in the Region as well as information about the EUMEDGRID initiative;
- ▶ Create the project branding and promote the project to the general public through an appropriate mix of media, including the project website (see M5.1 and 5.2) a set of dissemination materials (see M5.3);
- ▶ Attend external conferences in order to disseminate the project amongst potential users, grid professionals etc, thus encouraging liaisons with related initiatives;
- ▶ Coordinate dissemination activities at a local level across the countries involved in EUMEDGRID;
- ▶ Provide the less-experienced partners and new potential users identified in the framework of WP2 and 4 with advanced knowledge, thanks to the delivery of training events and to the GILDA t-Infrastructure, as well as the creation of suitable learning materials;
- ▶ Stimulate the formation of National Grid Infrastructures (NGI) in the Mediterranean Countries, thanks to the provision of opportunities for discussion at meetings etc, success models, support etc and monitoring of the status of the process.

### 2.1.5.2. Progress towards objectives

From the earliest phases of the formulation of the EUMEDGRID proposal, dissemination has been regarded as one of the key activities to create an active community using the new-built eInfrastructure, and hence for the success of the project.

One of the first steps was therefore to go thoroughly into the strategy drafted in the project's technical annex, segmenting target audiences, identifying communication objectives and measures for success and, on such basis, the appropriate measures to reach them, elaborating an early roadmap for

dissemination as well as an appropriate mix of media and key messages and languages to address each of them [R1]. Roughly, A5.1 addresses a wider audience and uses a simpler and more general language, preferring mass-exposure media; while A5.2 addresses a more limited target with more technical language, more in-depth materials and concentrated effort of the dissemination team. Both aspects are crucial to the success of the project and are designed to work together: for this reason, both A5.1 and A5.2 have begun with the project itself and are horizontal to the whole duration of the project.

Some of the objectives mentioned in the paragraph above can be described as measurable indicators of the level of success of dissemination during the reporting period, namely:

- ▶ The number of tutorial events held;
- ▶ The number of participants per event;
- ▶ The number of International Meetings, Workshops and Conferences organised;
- ▶ The number of attended Conferences or workshops with specific EUMEDGRID presentations, posters and/or other dissemination activities;
- ▶ The number of NGIs created in the target area;
- ▶ Number of dissemination and training materials (web pages, leaflets, newsletters, press releases etc).

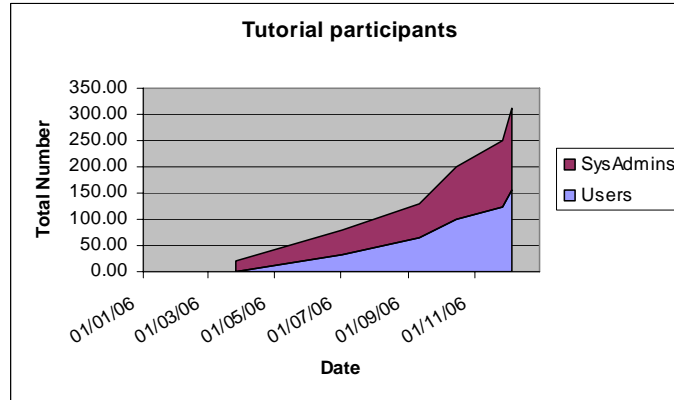
During the project progresses, all the above indicators have been incremented as described in the following paragraph:

#### 2.1.5.2.1. Tutorial events held / number of participants per event (A5.2)

Five training events were delivered in the reporting period in Athens, Istanbul, Rome, Tunis and Marrakech; in some cases, the event was actually composed by two different ones, aiming at different audiences, as illustrated in the table below.

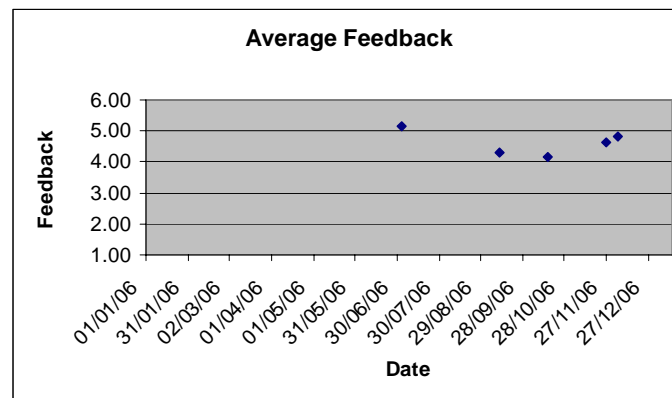
Event	Location	Dates	attendees
Tutorial	Athens, Greece	27-28 March 2006	15
Long user tutorial	Istanbul, Turkey	3-5 July 2006	33
Long tutorial for site administrators	Istanbul, Turkey	6-7 July 2006	27
Tutorial for users & application developers	Rome, Italy	11-12 September 2006	33
Mini-tutorial for site administrators	Rome, Italy	13 September 2006	20
EGEE/EELA/EUMEDGRID Joint tutorial for user and site administrators	Madrid, Spain	16-20 October	36
Tutorial for site administrators	Tunis, Tunisia	27-29 November 2006	26
Long user tutorial	Tunis, Tunisia	29 November - 01 December 2006	24
Beginner users tutorial	Marrakech, Morocco	5 December 2006	32
Tutorial for site administrators	Marrakech, Morocco	6-7 December 2006	30

**Table 2 - Tutorials organized**



**Figure 2 - Participants to tutorials**

For each delivered event, a simple questionnaire is submitted to attendees, in order to collect their feedback and comments and use them to improve future dissemination actions. The questionnaire, hosted on the project website, is mandatory, anonymous and includes evaluation (on a scale rating from 1 to 6) and, when applicable, comments on topics, event materials, hands-on sessions, facilities, advertising and registration. The average feedback [R19] of the events held during the reporting period, illustrated in the graphics here below, are more than satisfactory.



**Figure 3 – Average feedback for tutorials**

#### 2.1.5.2.2. International Meetings, Workshops and Conferences organised

During the reporting period, three large dissemination events took place thanks to the effort spent within A5.1: the project Kick-off Meeting, the First Project Conference in Rome and the Project Workshop in Marrakech. A brief overview is given in the table here below:

Event	Location	Dates	Related link(s)
Kick-off meeting*	Malta	6-7/02/2006	<a href="http://www.csc.um.edu.mt/eumedgridmalta/">http://www.csc.um.edu.mt/eumedgridmalta/</a> <a href="https://agenda.eumedgrid.org/conferenceDisplay.py?confId=a065">https://agenda.eumedgrid.org/conferenceDisplay.py?confId=a065</a>
Project Conference + technical workshop	Rome, Italy	14-15/09/2006	<a href="http://www.eumedgrid.org/Conf-Roma06/">http://www.eumedgrid.org/Conf-Roma06/</a> <a href="https://agenda.eumedgrid.org/conferenceDisplay.py?confId=a0658">https://agenda.eumedgrid.org/conferenceDisplay.py?confId=a0658</a>
Project Workshop “Grids for cooperation”	Marrakech, Morocco	4/12/2006	<a href="http://www.magrid.ma/index.php?option=com_content&amp;task=view&amp;id=33&amp;Itemid=88">http://www.magrid.ma/index.php?option=com_content&amp;task=view&amp;id=33&amp;Itemid=88</a> <a href="https://agenda.eumedgrid.org/conferenceDisplay.py?confId=5">https://agenda.eumedgrid.org/conferenceDisplay.py?confId=5</a>

\*Organized in cooperation with WPI

**Table 3 – Dissemination events organized**

#### 2.1.5.2.3. Conferences and workshops with specific EUMEDGRID presentations, posters and/or other dissemination activities

During the reporting period, a number of events were attended by the project staff on behalf of the consortium, with the aim of disseminating the project through presentations, exhibitions of posters, demonstrations and delivery of information materials, project gadgets etc. An overview of these activities is provided in the table below:

**Table 4 – External events attended**

Title	Date	Location	Dissemination activity performed
EELA Kick-Off Meeting	30/01/2006	Madrid, Spain	Presentation of EUMEDGRID Project and round table on “Foster synergies and collaborations among EGEE, EELA and Sister Projects”.
ICTP/INFN-Democritos Workshop on Porting Scientific Applications on Computational GRIDs	16/02/2006	Trieste, Italy	Presentation: “The EUChinaGrid and EUMEDgrid project.
GGF16 Meeting	13/02/2006	Athens, Greece	Presentation of INFN GRID Activities, including EUMEDGRID; Presentation: “Deploying Grids in Greenfield regions”.
EGAAP Meeting	03/03/2006	Geneva, Switzerland	Presentation: "EUMEDGRID Status report".
Les Rencontres de Physique de la Vallée d’Aoste	08/03/2006	La Thuile, Italy	Presentation: “GRID: from HEP to science ” mentioning EUMEDGRID.
EGEE-SA1 Italy Meeting	27/03/2006	Bologna, Italy	Presentation: "EUMEDGRID Status".
Sham2006	19-23/04/2006	Damascus, Syria	Exhibition booth with poster and tri-lingual (English-French-Arabic) project leaflet.

Title	Date	Location	Dissemination activity performed
TERENA Networking Conference TNC06	15-18/05/2006	Catania, Italy	Booth with an online demonstration of the monitoring of grid activities over the infrastructure demonstration of EUMEDGRID monitoring, dissemination materials, gadgets etc (in cooperation with the EUChinaGRID project); Poster presentation; Invited talk presenting EUMEDGRID by the PM in the “Human, infrastructural and computational networks” session; The project was as well mentioned in the session “Bridging the Mediterranean”.
GARR annual conference 2006 “eInfrastructures for development”	18/19/05/2006	Catania, Italy	Booth with an online demonstration of the monitoring of grid activities over the infrastructure demonstration of EUMEDGRID monitoring, dissemination materials, gadgets etc (in cooperation with the EUChinaGRID project); Poster presentation;
First EELA Conference	04/09/06-05/09/06	Santiago, Chile	EUMEDGRID presentation
EGEE hands-on induction	19/09/2006	Tel Aviv, Israel	EUMEDGRID presentation
EGEE’06 Conference	25/09/06-29/09/06	Geneva, Switzerland	Dissemination booth with dissemination materials, Project gadgets and poster (in cooperation with EUChinaGRID); Participation to the “related projects” session;
Sharing Knowledge Across the Mediterranean (3) - NATO advanced Research Workshop	07/10/2006	Trieste, Italy	Empowering eScience across the Mediterranean - The EUMEDGRID Project
Seminar on Grid technology and its social impact	16/10/2006	Rome, Italy	Presentation on Grid technology and its social implications in project and EUMEDGRID case history.
Seminar on Grid computing	03/11/2006	Tunis, Tunisia	Dissemination of Grid technologies and results, presentation of the EUMEDGRID project and action plan.
Grid introduction classes	9 /11/2006	Ankara, Turkey	Project presentation in the framework of Cankaya University classes on Grid introduction
2nd “GRID & e-Collaboration Workshop for the Earth Science and the Space Community” @ ESA	12/12/2006	Frascati, Italy	A GRID infrastructure to promote cooperation across the Mediterranean - The EUMEDGRID Project
V INFNGrid Workshop	20/12/2006	Padua, Italy	European Projects for EGEE Geographical Extension
Grid introduction classes	21 /12/2006	Ankara, Turkey	Project presentation in the framework of Middle East Technical University classes on Grid introduction

#### 2.1.5.2.4. The number of NGIs created in the target area.

Several activities<sup>2</sup> aiming at promoting the formation of Mediterranean NGIs and at monitoring their status were carried out, including discussions at PMB level, the delivery of a NGI Profile survey at M9, and an NGI panel session of the EUMEDGRID workshop held in Marrakech which included the presentation of the Moroccan MaGrid case history as a successful example. At date, four NGIs (Algeria, Morocco, Turkey, and Tunisia) were already operational, while three others (Cyprus, Egypt and Palestine) are at a planning stage with a clear (though tentative) timeline: the process of formation of NGIs is therefore well ongoing, also in comparison with the European situation.

#### 2.1.5.2.5. Dissemination and training materials (web pages, leaflets, newsletters, press releases etc).

During the first project months, a relevant effort was spent in:

- ▶ Planning and implementing the project website [R1] and collaborative tools<sup>3</sup>. More than 180 web pages, in English and French, are available to date and dynamic document repository [R16], a Project Calendar [R15] and a User support system [R17]
- ▶ The creation of suitable dissemination materials [R21], including: bilingual **Project information sheet**, **“What are Grids?” leaflet**, **EUMEDGRID poster**, **EUMEDGRID folder and block**, plus several **project customized gadgets**<sup>4</sup>. All these items were given out during events.
- ▶ The production of training and outreach materials<sup>5</sup> to be used during tutorials and seminars. These didactic materials have been categorized and can be downloaded from the EUMEDGRID document server [R22].
- ▶ Issuing press releases and carrying out other press activities to disseminate the project to the general public. The results in terms of coverage are always visible on the project website, at: <http://www.eumedgrid.org/cut.html> [R20]. To date, press cuttings of 33 articles on news agencies, newspapers, journals and web portal have been collected, in 5 different languages.

#### ***2.1.5.3. Deviations from the project work programme and corrective action taken/suggested***

No major deviation from the work programme occurred. The delivery of D.5.2 was slightly delayed (from 14/11/2006 to 21/12/2006), in order to include the outcome of the NGI session that took place in the Marrakech workshop, deemed very relevant to the scope of the document.

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<sup>2</sup> NGI-related activities and their outcomes have been reported in *Del 5.2 “Policy state of the art”*, see Table 5 for details

<sup>3</sup> Two milestones, **M5.1, “Initial public website”** and **M5.2 “Public Portal ready”** were connected to this task; see Table 6 for details.

<sup>4</sup> This was marked with Milestone **M5.3 “Dissemination materials ready”**, see Table 6 for details.

<sup>5</sup> This was marked with Milestone **M5.4 “Initial setup of outreach materials**, see Table 6 for details.

#### 2.1.5.4. List of Deliverables

DELIVERABLE n°	DELIVERABLE TITLE	DUE ON	ACTIVITY	STATUS	LINK TO THE DOCUMENT
D5.1	Intermediate outreach plan	PM5	A5.2	Delivered on schedule	<a href="http://www.eumedgrid.org/documents/EUMEDGRID-Del5.1-final.pdf">http://www.eumedgrid.org/documents/EUMEDGRID-Del5.1-final.pdf</a>
D5.2	Policy state of the art	PM9	A5.1	Delivered (belated – see text for a justification)	<a href="http://www.eumedgrid.org/deliverable/D5.2.html">http://www.eumedgrid.org/deliverable/D5.2.html</a>
D5.3	Intermediate report on dissemination activity	PM13	A5.1	Ongoing	<a href="http://www.eumedgrid.org/deliverable/D5.3.html">http://www.eumedgrid.org/deliverable/D5.3.html</a>
D5.4	Final revision of outreach plan	PM24	A5.2	Planned	<a href="http://www.eumedgrid.org/deliverable/D5.4.html">http://www.eumedgrid.org/deliverable/D5.4.html</a>
D5.5	Report on raising public participation and awareness	PM24	A5.1	Planned	<a href="http://www.eumedgrid.org/deliverable/D5.5.html">http://www.eumedgrid.org/deliverable/D5.5.html</a>
D5.6	Final plan for using and disseminating knowledge	PM24	A5.1, A5.2	Planned	<a href="http://www.eumedgrid.org/deliverable/D5.6.html">http://www.eumedgrid.org/deliverable/D5.6.html</a>

**Table 5 - WP5 deliverables**

#### 2.1.5.5. List of Milestones

MILESTONE n°	MILESTONE TITLE	DUE ON	ACTIVITY	STATUS	RELATED LINK
M5.1	Initial public website	PM1	A5.1	Reached in due time	<a href="http://www.eumedgrid.org">http://www.eumedgrid.org</a>
M5.2	Public portal ready	PM4	A5.1	Reached in due time	<a href="http://www.eumedgrid.org/">http://www.eumedgrid.org/</a> <a href="http://www.eumedgrid.org/index_fr.html">http://www.eumedgrid.org/index_fr.html</a>
M5.3	Dissemination material ready	PM7	A5.1	Reached in due time	<a href="https://documents.eumedgrid.org/collection/Dissemination%20materials">https://documents.eumedgrid.org/collection/Dissemination%20materials</a>
M5.4	Initial setup of outreach material	PM7	A5.2	Reached in due time	<a href="https://documents.eumedgrid.org/collection/Training%20materials">https://documents.eumedgrid.org/collection/Training%20materials</a>
M5.5	1st Project Workshop	PM9	A5.1	Reached in due time	<a href="http://www.eumedgrid.org/Conf-Roma06/">http://www.eumedgrid.org/Conf-Roma06/</a>
M5.6	Revision of outreach material	PM17	A5.2	Planned	<a href="http://www.eumedgrid.org/milestone/M5.6.html">http://www.eumedgrid.org/milestone/M5.6.html</a>
M5.7	Public conference organisation	PM19	A5.1	Planned	<a href="http://www.eumedgrid.org/milestone/M5.7.html">http://www.eumedgrid.org/milestone/M5.7.html</a>
M5.8	2nd Project Workshop	PM21	A5.2	Planned	<a href="http://www.eumedgrid.org/milestone/M5.8.html">http://www.eumedgrid.org/milestone/M5.8.html</a>

**Table 6 - WP5 milestones**

### 3. CONSORTIUM MANAGEMENT

The EUMEDGRID Consortium is composed by 14 partners, which are all Contractors and signed a Consortium Agreement. The Project is coordinated by INFN and includes also a limited number of qualified third parties. All the Contractors have nominated a representative (and in some cases a deputy) in the Project Management Board which manages the Consortium and the contractual parts of the project. The information regarding the members of the consortium, their third parties and the meetings held during the reporting period, is the matter of the next paragraphs.

#### 3.1. Contractors

The total number of Contractors is 14, coordinated by INFN, and listed in the following table which contains also the information of the name of the representative(s) person(s) in the Project Management Board.

Some of the Partners representatives were changed during the reporting period, namely: GRNET substituted Ognjen Prnjat with Ioannis Liabotis and Malika Zenati of MRSTDC was substituted by Sonia Kallel.

*Table 7 - List of the Partners' Representatives in the PMB*

Id	Partner	Representative in the PMB
1	Istituto Nazionale di Fisica Nucleare (IT) (coordinator)	Federico Ruggieri
2	European Organisation for Nuclear Research CERN, Geneve (CH)	Florida Estrella
3	Cyprus Research and Academic Network, Lefkosia (CY)	Eftychios Eftichiou
4	Delivery of Advanced Network Technology to Europe, Cambridge (UK)	David West
5	Consortium GARR, Rome (IT)	Enzo Valente / Federica Tanlongo
6	Greek Research & Technology Network, Athens (GR)	Ioannis Liabotis / Fotis Karayannis
7	Entidad Pública empresarial RED.ES, Madrid (E)	Alberto Perez Gomez
8	University of Malta, Msida (M)	Kevin Vella
9	Centre de Recherche sur l'Information Scientifique et Technique, Alger (DZ)	Abdelkader Khelladi
10	Centre National pour la Recherche Scientifique et Technique, Rabat (MA)	Redouane Merrouch
11	Egyptian Universities Network, Cairo (ET)	Omar Hassan Karam
12	Institute for Applied Sciences and Technology, Damascus (SYR)	Maher Suleiman
13	Ministry of Scientific Research, Technology and Competency Development, Tunis (TN)	Sonia Kallel
14	The Scientific and Technological Research Council of Turkey, Ankara (TR)	Cem Sarac



Third parties are relevant in many activities of the project, either because of the geographical position in the Med Area, or because they bring into the project a relevant knowledge or experience. In the following table the information related to the third parties is shown and are evidenced those that are in countries which have no partner in the Project.

*Table 8 - Project Third Parties*

Third Party	Country	Contracting Partner
Bilkent University	Turkey	TUBITAK
Dep. of Physics – University of Roma Tre	Italy	INFN
CRS4 – Center for Advanced Studies in Sardinia	Italy	GARR
ICTP – Abdus Salam International Centre for Theoretical Physics	Italy	INFN
IUCC – Inter University Computing Center	Israel	GARR
Laboratoire Cristal – Ecole National des Sciences de l’Informatique	Tunisia	MRSTDC
JUNet	Jordan	GRNET
PADI2	Palestine	GRNET
Research Unit of ICT – University of Tunis	Tunisia	MRSTDC
University of Messina – Dep. of Mathematics	Italy	INFN

\* The Third Parties-Third Countries Organizations are highlighted in the table

### 3.2. Project Timetable and Status

By now, the program of activities, as described in the Description of Work (Annex I to the Contract) did not undergo to significant issues. All deliverables were timely sent and the Milestones were reached in due time (in some cases even well before the expected dead line). A few modifications shall anyhow be reported to the GANTT chart shown in the Annex, due to:

- ▶ the earlier start of some activities, namely A3.1, A3.2 and A3.3 were started earlier due to the existing experience of some partners;
- ▶ the request of a second step in the activity A2.1; the request is motivated by the possibility of comparison of the results of a new survey, 18 months later, with the previous one.

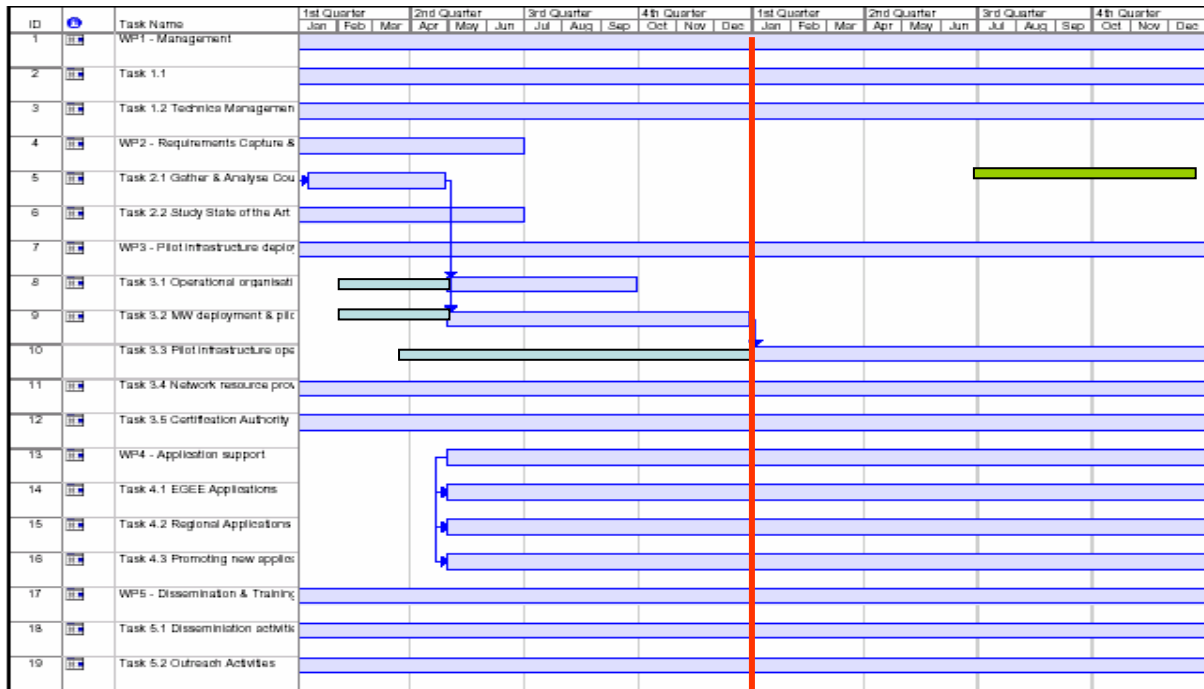


Figure 4 - Gantt plan of the project

### 3.3. Project and activity Meetings

A short table on the events organized and attended during the quarter can be found below. Other internal events and related items are discussed in the following.

Table 9 - Internal meetings for the reporting period

Date	Location	Meeting	Attendees
03/01/06	Video Conference	Project Office meeting	Project Office
18/01/06	Video Conference	EUMEDGRID VCC meeting	Project Office, Partners and Third Parties
06/02/06	Malta	Kick-off meeting	Partners/Third Parties representatives, Project Office
06/02/06	Malta	PMB	PMB representatives
07/02/06	Malta	TB	WP leaders
14/05/06	Catania	PMB / TB	20
07/07/06	Turkey, (Istanbul)	EUMEDGRID PMB Meeting + Administrative tutorial	9
11-13/09/06	Rome, (Italy)	Tutorial on gLite	Users: 33, Admin: 20

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12/09/06	Rome, (Italy)	Tutorial for Certification Authority Managers	15
14/09/06	Rome (Italy)	PMB and TB	40
15/09/06	Rome, (Italy)	First EUMEDGRID Project Conference	60
19/09/06	Israel, (Tel Aviv)	Grid Induction - 4th Hands on Workshop	
20/09/06	Phone Conference	TB	5
04/10/06	Phone Conference	TB	5
10/11/06	Phone Conference	TB	5
22/12/06	Phone Conference	TB	5

### 3.4. Cooperation with other Projects and Programs

An intense activity of cooperation with other projects has been performed during the reporting period. Here follows a synthetic list of the main actions.

- ▶ Collaboration with EUMEDCONNECT was activated since the Project Start-up and lead to the agreement of coordinating the dates of Project Meetings to minimise the travels. EUMEDCONNECT meetings were held after the Kick-Off Meeting in Malta, at the TNC06 conference in Catania at the First EUMEDGRID Project Conference in Rome and at the First EUMEDGRID Workshop in Marrakech. David West of DANTE was also invited to give talks on EUMEDCONNECT status in Malta (Kick-Off) and in Rome (First Project Conference).
- ▶ Collaboration with SEE-GRID2 was started also in the early stage of the project and a MoU has been signed.
- ▶ EGEE contacts were always very active and EUMEDGRID actively participated to the EGEE06 Conference in Geneva with presentations and a booth shared with EUChinaGRID Project.
- ▶ Contacts were also activated with the DILIGENT Project and Donatella Castelli (Project Leader) was invited to give a talk in the First Project Conference in Rome.
- ▶ A good collaboration was also active with EELA. Federico Ruggieri was invited to present the EUMEDGRID Project at the EELA Kick-Off Meeting in Madrid and Fulvio Galeazzi gave a status update at the EELA Conference in September in Santiago del Chile. A joint training event was also organised in October in Madrid.
- ▶ Collaboration with EUChinaGRID Project was facilitated by the participation in both projects of a few partners (INFN, CERN, GARR, GRNET). This lead since the beginning to common activities: shared booths in Catania (TNC06) and Geneva (EGEE06), joint training event in Rome in September.
- ▶ A MoU is in preparation with the Project BELIEF.

## 4. OTHER ISSUES

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No other issues to report.

## 5. REFERENCES AND GLOSSARY

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### 5.1. references

[R1] Project website	<a href="http://www.eumedgrid.org/">http://www.eumedgrid.org/</a>
[R2] Project leaflet	<a href="http://www.eumedgrid.org/documents/EUMEDGRIDproject_summary.pdf">http://www.eumedgrid.org/documents/EUMEDGRIDproject_summary.pdf</a>
[R3] Project templates kit	<a href="http://www.eumedgrid.org/documents/doctemplates-EUMEDGRIDv2.zip">http://www.eumedgrid.org/documents/doctemplates-EUMEDGRIDv2.zip</a>
[R4] EGEE website	<a href="http://public.eu-egee.org/">http://public.eu-egee.org/</a>
[R5] SEEGRID website	<a href="http://www.see-grid.org/">http://www.see-grid.org/</a>
[R6] BalticGrid website	<a href="http://www.balticgrid.org/">http://www.balticgrid.org/</a>
[R7] EELA website	<a href="http://www.eela-grid.org/">http://www.eela-grid.org/</a>
[R8] EU eInfrastructures initiatives	<a href="http://www.einfrastructures.org/">http://www.einfrastructures.org/</a>
[R9] EUMEDCONNECT website	<a href="http://www.eumedconnect.net/">http://www.eumedconnect.net/</a>
[R10] GEANT2 website	<a href="http://www.geant2.net/">http://www.geant2.net/</a>
[R11] LCG webpage	<a href="http://www.cern.ch/lcg/">http://www.cern.ch/lcg/</a>
[R12] gLite webpage	<a href="http://www.cern.ch/glite/">http://www.cern.ch/glite/</a>
[R13] GILDA website	<a href="https://glida.ct.infn.it/">https://glida.ct.infn.it/</a>
[R14] IST website	<a href="http://www.cordis.lu/ist/home.html">http://www.cordis.lu/ist/home.html</a>
[R15] Project online agenda	<a href="https://agenda.eumedgrid.org">https://agenda.eumedgrid.org</a>
[R16] Project document server	<a href="https://documents.eumedgrid.org">https://documents.eumedgrid.org</a>
[R17] EUMEDGRID user support	<a href="https://support.eumedgrid.org">https://support.eumedgrid.org</a>
[R19] Tutorial statistics	<a href="http://www.eumedgrid.org/statistiche-en.html">http://www.eumedgrid.org/statistiche-en.html</a>
[R20] Press cuttings	<a href="http://www.eumedgrid.org/cut.html">http://www.eumedgrid.org/cut.html</a>
[R21] Dissemination materials	<a href="https://documents.eumedgrid.org/collection/Dissemination%20materials">https://documents.eumedgrid.org/collection/Dissemination%20materials</a>
[R22] Training materials	<a href="https://documents.eumedgrid.org/collection/Training%20materials">https://documents.eumedgrid.org/collection/Training%20materials</a>

### 5.2. Glossary

CA	Certification Authority.
Cluster	The term describes a cluster is a group of machines that are networked together and used as a single unit to run parallel programs.



Grid	The term designates a distributed infrastructure of computation and storage resources, which can be used by a VO in a transparent way (i.e. without need to know about the location of the resources etc).
GILDA	Grid Infn Laboratory for Dissemination Activities
gLite	Codename of the Middleware software suite developed by EGEE JRA1.
Globus	“Globus Toolkit” is the name of all software components for Grid Computing platforms available under an open-source license from the consortium Globus Alliance.
LCG	LHC Computing Grid
Middleware	Generic terms defining a communications layer that allows applications to interact across hardware and network environments.
NGI	National Grid Initiative
ROC	Regional Operation Centre
VO	Virtual Organization: a Virtual Organization, or Application Community, is a geographically dispersed group of collaborating scientists.
VOMS	VO Management Service

### 5.3. Document amendment procedure

In order to amend the document, please contact the Project Office at: [po@eumedgrid.org](mailto:po@eumedgrid.org).

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## ANNEX I – PLAN FOR USING AND DISSEMINATING THE KNOWLEDGE

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### A1. Exploitable knowledge and its Use

Not applicable.

### A2. Dissemination of knowledge

A synthetic description of all the major dissemination activity and events is shown in the following table. Some more information is also provided in the following paragraphs.

Planned/ actual dates	Type of activity	Type of audience	GARR, UoM	Size of audience	Responsible Partner(s)
Jan 2006	Project website	Project partners, Grid professionals, potential users, General public, related initiatives	European and Mediterranean Countries, etc	500+ /year	GARR
Jan 2006	Project online agenda	Project partners, Grid professionals, potential users, related initiatives	European and Mediterranean Countries, etc	500+ /year	GARR
Jan 2006	Bilingual (English and French) project information sheet	Grid professionals, potential users, General public, related initiatives	European and Mediterranean Countries, etc	-	GARR
30 Jan	Presentation at EELA kick-off meeting	EELA project staff	Latin American Countries	50+	INFN
6 Feb 2006	Public kick-off meeting	Local politicians and Research community, project partners, potential users, related initiatives	Malta and other Partner Countries.	50+	GARR, INFN, UoM
6 Feb 2006	Press release on kick-off	Media(TV, Newspapers, agencies), General public, related initiatives, Grid users and researchers, developers	European and Mediterranean Countries, etc	500+	
16 Feb 2006	Presentation at ICTP/INFN-Democritos Workshop on Porting Scientific Applications on Computational GRIDs	Potential users	Italy, developing economy countries	50+	INFN
21-23 Feb 2006	Interview to “E-news Jiltaqa” (Maltese television)	General public	Malta		UoM

Planned/ actual dates	Type of activity	Type of audience	GARR, UoM	Size of audience	Responsible Partner(s)
3 Mar 2006	Presentation at EGAAP Meeting	Related initiatives	EGEE community	40+	INFN
27 Mar 2006	Presentation at EGEE-SA1 Italy Meeting	EGEE staff	EGEE community	20+	INFN
27-28 Mar 2006	Tutorial	Project partners, potential users	Southern Mediterranean Countries	15	GRNET
April 2006	English/French/Arabic leaflet	Research and Technology community, ICT stakeholders	Syrian Research and Syria and other Arabic Countries	~2000*	HIAS
19-23 April 2006	Poster	Research and Technology community, ICT stakeholders	Syria and other Arabic Countries	~2000*	HIAS
19-23 April 2006	Exhibition booth	Research and Technology community, ICT stakeholders	Syria and other Arabic Countries	~2000*	HIAS
21 April 2006	Interview to “Dot SY” (Syrian TV )	General public	Syria	-	HIAS
March 2006	1st set of printed dissemination material	Research and Technology community, potential users, General public, related initiatives	European and Southern Mediterranean Countries	-	GARR
16-17 May 2006	Poster presentation at TNC06	TERENA community (research networking, telecommunications)	European and Neighboring Countries	500+	GARR
17 May 2006	Invited presentation at TNC06	TERENA community (research networking, telecommunications)	European and Neighboring Countries		INFN
18-19 May 2006	Exhibition booth at TNC06	Italian Research and Education community	Italy	500+	GARR, INFN
18-19 May 2006	Poster at GARR conference 2006	Italian Research and Education community	Italy	500+	GARR
1 June 2006	1st set of training materials ready	New and potential users	Southern Mediterranean Countries	250+	INFN



<b>Planned/ actual dates</b>	<b>Type of activity</b>	<b>Type of audience</b>	<b>GARR, UoM</b>	<b>Size of audience</b>	<b>Responsible Partner(s)</b>
22 June 2006	Conference announcement and call for papers	Media, General public, related initiatives, Grid users and researchers, developers	European and Mediterranean Countries, etc	500+	GARR
3-5 July 2006	Long user tutorial	New and potential users	Turkey and other Southern Mediterranean Countries	33	INFN, TUBITAK
6-7 July 2006	Long tutorial for site administrators	New site administrators	Turkey and other Southern Mediterranean Countries	27	INFN, TUBITAK
5 September 2006	Presentation at EELA Conference	Related initiatives	Latin American Countries	126	INFN
11-12 September 2006	Tutorial for users & application developers	New and potential users, applications developers	Italy and Southern Mediterranean Countries	33	INFN, University of Roma Tre
13 September 2006	Mini-tutorial for site administrators	New site administrators	Italy and Southern Mediterranean Countries	20	INFN, University of Roma Tre
15 September 2006	Press release	Media (TV, Newspapers, agencies), General public, related initiatives, Grid users and researchers, developers	European and Mediterranean Countries, etc	-	GARR
15 September 2006	Conference	Media, related initiatives, Grid users and researchers, developers, students	Italy and Partner Countries	90+	GARR, INFN
19 September 2006	Presentation at EGEE hands-on induction	New and potential users, applications developers			IUCC
25-29 September 2006	Exhibition booth	EGEE	European and Neighbouring Countries	500+	GARR, INFN



Planned/ actual dates	Type of activity	Type of audience	GARR, UoM	Size of audience	Responsible Partner(s)
7 October 2006	Presentation at Sharing Knowledge Across the Mediterranean (3) - NATO advanced Research Workshop	NATO, research	NATO Countries		INFN
16 October 2006	Presentation at Seminar on Grid technology and its social impact	Research community	Italy	100	INFN
16-20 October 2006	Long tutorial for users and site managers	New potential users and system administrators	<u>Spain</u>	40	RED.ES, INFN
16 October 2006	Presentation at Seminar on Grid technology and its social impact	Research community	Italy	?	INFN
3 November 2006	Presentation at Seminar on Grid computing	Research community	Tunisia	100+	MRSTDC
9 November 2006	Presentation in a Grid introduction class at Cankaya University, Ankara	Students	Turkey	20+	TUBITAK
11 November 2006	What are grids? Leaflet	General public, media, students, non-technical audiences	European and Mediterranean Countries, etc	-	GARR
27-29 November 2006	Tutorial for site administrators	New site administrators	Tunisia and other Southern Mediterranean Countries	26	INFN, University of Roma Tre
29 November – 01 December 2006	Long user tutorial	New and potential users, applications developers	Tunisia and other Southern Mediterranean Countries	24	INFN, University of Roma Tre



Planned/ actual dates	Type of activity	Type of audience	GARR, UoM	Size of audience	Responsible Partner(s)
4 December	Workshop	Media, related initiatives, Grid users and researchers, developers, students	Morocco and other Partner Countries		GARR, INFN, CNRST-MARWAN
5 December 2006	Beginner users tutorial	New and potential users	Morocco and other Southern Mediterranean Countries	32	INFN, University of Roma Tre
6-7 December 2006	Tutorial for site administrators	New site administrators	Morocco and other Southern Mediterranean Countries	30	INFN, University of Roma Tre
12 December 2006	Presentation at 2nd "GRID & e-Collaboration Workshop for the Earth Science and the Space Community" @ ESA	ESA staff	European Countries		INFN
14-15 December 2006	Leaflet with project presentation in Turkish	Students, Research community	Turkey		TUBITAK
20 December 2006	Presentation at V INFNGrid Workshop	International and National Researchers	Italy	70+	INFN
21 December 2006	Presentation in a Grid introduction class at Middle East Technical University, Ankara	Students	Turkey	20+	TUBITAK
29 December 2006	Newsletter	Project partners, EUMEDGRID new communities.	Partner Countries	150+	GARR

\* This is an approximate figure of people that visited the booth, getting information sheets and viewing the poster.. Of them, more than 100 did actually stop at the booth to ask more information about the project.

## **A2.1 Events during the reporting period**

### ***A2.1.1 Kick-Off Meeting in Malta***

The kick-off meeting (see: <https://agenda.eumedgrid.org/conferenceDisplay.py?confId=a065> for details on the programme) was organized in close coordination with WP1 (the event marked indeed Project Milestone M1.1, referring to the management workpackage).

The meeting was held in Malta on the 6<sup>th</sup> and 7<sup>th</sup> of February 2006, at Radisson SAS Bay Point Resort, St. George's Bay, St. Julians STJ02 Malta (see the website for details about the location <http://www.baypoint.malta.radissonsas.com/>). A local organizing committee took care of organization and logistics (see: <http://www.csc.um.edu.mt/eumedgridmalta/> for details) and carried out as well an important work in advertising and disseminating the event at national and international level. The PO and the WP5 staff took care of the programme and provided support to organization and worked on communication issues (press release and media relations, advertising of the event etc).

Besides being the first opportunity for all Partners<sup>6</sup> to meet together in order to plan the work to be done, the meeting was also a very good dissemination opportunity. Public participation in Malta was especially good: the Minister of Education, Youth and Employment gave the welcome presentation at the meeting and Maltese TV and newspapers followed the event. Also in other Countries the press coverage was satisfying (see below).

### ***A2.1.2 EUMEDGRID 1st training event in Athens***

Hosted at the National Technical University of Athens, the first tutorial for site administrators took place from 27 to 28 March 2006. The tutorial, aiming at providing hands-on and demonstration experience with the services provided by the Grid to a first group of Mediterranean Partners, covered the following topics:

- ▶ Introduction to Grid systems
- ▶ Grid systems and e-Science
- ▶ Presentation of the EUMEDGRID project
- ▶ Presentation on the EUMEDGRID infrastructure and relevant middleware
- ▶ Hands-on Exercises for submitting jobs to the Grid
- ▶ Grid Administration Introduction, Cluster Installation Guidelines
- ▶ Certificates Issuing and Management
- ▶ Virtual Organizations Joining and Management Procedures

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<sup>6</sup> All the Contractor partners and two out of three Third-Parties/Third Countries, IUCC (Israel) and PADI2 (Palestinian Authority) were represented (see the chapter describing the Consortium management for details).

- ▶ User and Administrator Common Pitfalls
- ▶ Discussion with Expert Grid Administrators

A detailed agenda and all training materials can be found at:

<https://agenda.eumedgrid.org/conferenceDisplay.py?confId=a0613>

### ***A2.1.3 EUMEDGRID 2nd training event in Istanbul***

The second EUMEDGRID tutorial was held in Istanbul at the very beginning third quarter (3<sup>rd</sup> – 7<sup>th</sup> of July). This second event was composed by a long tutorial for users, held from the 3<sup>rd</sup> to the 5<sup>th</sup> of July, and a site administrators' tutorial. The following topics were presented in the user's tutorial:

- ▶ Overview of the gLite middleware
- ▶ Authorization and authentication in gLite
- ▶ The gLite Information System
- ▶ The GILDA t-Infrastructure
- ▶ Installation and configuration of a gLite 3.0 User Interface
- ▶ Architecture of the gLite WMS and DMS
- ▶ The GENIUS Grid Portal
- ▶ The AMGA metadata catalogue
- ▶ The gLite FTS

The tutorial for grid site administrators covered the following:

- ▶ Hierarchical Grid Site Management (HGSM)
- ▶ Installation and configuration of: VOMS server, MyProxy server, BDII server, WMS+LB server, CE + WN, SRM, LFC server, FTS server, RGMA and AMGA server.

The complete set of training materials and a detailed programme of both events can be found at:

<https://agenda.eumedgrid.org/conferenceDisplay.py?confId=a0657>

### ***A2.1.4 EUMEDGRID 3<sup>rd</sup> training event in Rome***

The third Tutorial for User and System Administrator, held in Rome at University of Roma Tre from 11 to 13 of September 2006 in conjunction with the EUChinaGRID Project (see <https://agenda.eumedgrid.org/conferenceDisplay.py?confId=a0659>), was conceived in a shorter format. The following are the main topics covered in the tutorial:

- ▶ Introduction to GILDA t-Infrastructure.
- ▶ Overview of the main services of the gLite middleware.
- ▶ Practical sessions on main services of the gLite middleware.
- ▶ Installation and configuration of the main resources for a base configuration of a gLite site.
- ▶ Installation and configuration of the main services of the gLite middleware.

The event was followed by the project conference and technical workshop (see next point).

### ***A2.1.5 EUMEDGRID 4<sup>th</sup> training event in Madrid***

The fourth EUMEDGRID tutorial was held in Madrid in conjunction with the EELA Project at the beginning fourth quarter (16<sup>th</sup> – 20<sup>th</sup> of October). This event was composed by a long tutorial for users and site administrators. The following topics were presented in the user's tutorial:

- ▶ Overview of the gLite middleware;
- ▶ Authorization and authentication in gLite;
- ▶ The gLite Information System;
- ▶ The GILDA t-Infrastructure;
- ▶ Installation and configuration of a gLite 3.0 User Interface;
- ▶ Architecture of the gLite WMS and DMS;
- ▶ The GENIUS Grid Portal;
- ▶ The AMGA metadata catalogue;
- ▶ The gLite FTS.

The complete set of training materials and a detailed programme of both events can be found at:  
<http://indico.eu-eela.org/conferenceDisplay.py?confId=54>.

#### ***A2.1.6 1st Project Conference in Rome***

The 1<sup>st</sup> project Conference “Empowering eScience Across the Mediterranean” was held in Rome in September (see <http://www.eumedgrid.org/Conf-Roma06/>).

The organization was mainly performed by the Italian partners, GARR and INFN (because of the selected location and their commitment in WP5 and Project Office activities) and involved the following:

- Logistics (partly outsourced to an agency);
- Programme (see <https://agenda.eumedgrid.org/conferenceDisplay.py?confId=a0658>)
- Event website (see <http://www.eumedgrid.org/Conf-Roma06/>), poster and materials for the event (folders, leaflets, small gadgets and giveaways, posters etc);
- Communication (see also the conference announcement <http://www.eumedgrid.org/documents/EUMEDGRID-conf-announcement.pdf> and press release ([http://www.eumedgrid.org/Conf-Roma06/EUMEDGRIDPR150906-en\\_03.pdf](http://www.eumedgrid.org/Conf-Roma06/EUMEDGRIDPR150906-en_03.pdf));

The event was a success in term of attendance and represented another step toward the creation of a human network across the Mediterranean, promoting the existing and creating possible synergies. Furthermore, it was a good occasion to disseminate the Project to people not yet involved in the Project (potential users, grid professional, students) and to the Italian and international press.

In order to reduce travel times and expenses, several internal meetings and tutorials (see the previous point) were carried out in conjunction with the Conference, including a users’ and system administrators’ tutorial and a CA managers tutorial.

#### ***A2.1.7 5<sup>th</sup> EUMEDGRID training event in Tunis***

The fourth tutorial was held in Tunis from 27<sup>th</sup> November to 1<sup>st</sup> December 2006 and involved Tunisian users and administrators, while the fifth was held in Marrakech in conjunction with the Project Workshop, from 5<sup>th</sup> to 8<sup>th</sup> December.

Although topics are similar to the ones covered in previous events, the strategic objectives and concept of these tutorials are slightly different and mark an important point in A5.2’s works: after the first three events created an initial core of grid-aware people amongst project participants, a number of events was planned in each target Country, targeting the national scientific and academic communities in order to enlarge the EUMEDGRID audience and multiply the effect of initial dissemination. Such events aim to:

- ▶ Disseminate grid computing skills;
- ▶ Prepare scientists to use grid infrastructure;
- ▶ Disseminate site administration knowledge;
- ▶ Prepare technicians to create and manage grid infrastructure.

And, thanks to the exploitation of the network of contacts provided by local partners, they are ultimately meant to gain new potential users for the infrastructure and administrators for new sites to be installed in the hosting Countries.

In occasion of the Tunis tutorial, the following grid services have been installed, tested and configured on the new EUMEDGRID Tunisian site:

- ▶ Computing Element
- ▶ Worker Node
- ▶ User Interface
- ▶ Resource Broker
- ▶ GENIUS Web Portal

To make easier the installation to local site managers, the GILDA t-infrastructure has been used. All grid nodes listed above were installed and then joined to the VO GILDA. The tutorial was used as an occasion to test the new nodes so that, at the end of the tutorial, they could be finally configured to join to the EUMEDGRID. A detailed set of instructions on how to perform this final configuration has been stored on the GILDA Wiki area:

(<https://grid.ct.infn.it/twiki/bin/view/GILDA/EUMEDGridSiteInstallation>).

This new approach was really appreciated both by the local site administrators and by WP5 team: installing a grid site using GILDA and then moving it to the EUMED VO allows the new site administrators to make a good practice on how install, maintain and configure the gLite middleware services and then be prepared to handle the new site into the EUMEDGRID production environment at the end of the tutorial.

Due to this success, the WP5 team decided to adopt the same strategy for any further tutorial that foresees the installation of one or more grid services.

This was partly<sup>7</sup> proposed already in the following tutorial for site administrators in Marrakech (due to the closeness between events, it was not possible to completely use the new approach).

#### ***A2.1.8 Project workshop in Marrakech***

The Workshop, "Grid for cooperation", held in Marrakech on the 4th of December (<https://agenda.eumedgrid.org/conferenceDisplay.py?confId=5>) (for details on the location, see: [http://www.kenzi-hotels.com/eng/hotels/marrakech/marrakech\\_s.html](http://www.kenzi-hotels.com/eng/hotels/marrakech/marrakech_s.html)), was the first large EUMEDGRID dissemination event outside Europe; delegates coming from universities all around Morocco and from other Partner Countries (mainly new potential users and grid site administrators) were involved in very interactive sessions. For further details about the workshop's agenda, see: <https://agenda.eumedgrid.org/conferenceTimeTable.py?confId=5>.

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<sup>7</sup> GENIUS only was installed and GILDA was configured on the UI.

The workshop was followed by internal meetings, a user tutorial for beginners and a tutorial for new site administrators (see below).

A local team was deeply involved in the organization, as regards both the programme and logistics [http://www.magrid.ma/index.php?option=com\\_content&task=view&id=33&Itemid=88](http://www.magrid.ma/index.php?option=com_content&task=view&id=33&Itemid=88) (which anyway were partly outsourced in order to ensure professional results). They also carried out an important work in terms of media relations and advertising the event involving potential users and people/groups interested in joining the eInfrastructure.

#### **A2.1.9 6<sup>th</sup> EUMEDGRID tutorial in Marrakech**

Another innovation was proposed in this latter event, i.e. the new format for tutorials addressing beginner users. This new format was conceived when, in delivering previous tutorials, it was proved a finer-grained segmentation of the audience than initially expected: different levels of awareness and previous grid knowledge were indeed highlighted amongst users, which have a deep impact on their ability to learn. Roughly, we can divide them in potential, basic and advanced users: foreseeing just two formats for tutorials, addressing respectively users and site administrators, does not appear enough in order to maximize the benefits for attendees.

In fact, it was found that the current format works generally well with system administrators and very smart users, while newcomer users normally feel difficulties with some technical aspects as, for instance, the command-line interface. The new, “lighter” version is therefore completely based on the web interface, normally perceived as much more user friendly, and covers the following:

- ▶ Basics of grids
- ▶ GENIUS interface
- ▶ Hands-on sessions on real applications (CORSIKA, ROSETTA)

#### **A2.2 Dissemination materials**

The first complete set of dissemination materials was ready at PM 5, in line with the needs of the EUMEDGRID presence to TNC2006 and other occasions. Of course, new materials are and will be created and existing ones are submitted to periodical reviews and updates as the project proceeds.

The basic set involves the following:

- ▶ **Project information sheet (In English and French)** - Project information sheet including a bilingual presentation of the project’s objectives, partners and third parties. ([http://www.eumedgrid.org/documents/EUMEDGRIDproject\\_summary.pdf](http://www.eumedgrid.org/documents/EUMEDGRIDproject_summary.pdf)).
- ▶ Arabic versions were made available as well by some partners (<https://documents.eumedgrid.org/getfile.py?recid=237>).
- ▶ **“What are Grids?” leaflet (English)** - short and very simple introduction to grids for non-technical, beginner audiences, in A4, single page format (<https://documents.eumedgrid.org/getfile.py?recid=194>).
- ▶ **EUMEDGRID poster (English)** – general poster to be displayed in occasion of local dissemination events, exhibitions etc or submitted and presented in relevant poster sessions at conferences and workshops, in A1 format. The poster includes a project summary and a brief presentation of the project’s objectives and activities, of the current EUMEDGRID infrastructure and of the GILDA facility. (<https://documents.eumedgrid.org/getfile.py?recid=236>).



- ▶ **EUMEDGRID folder** – Project folder to collect documents etc at events, with project logo, graphics and short summary. Printable on standard size punch-cut cardboard folders.
- ▶ **EUMEDGRID block notes** - master page to create block notes with EUMEDGRID slogan, logo and graphics in B3 format (<https://documents.eumedgrid.org/getfile.py?recid=148>).

All the above documents were created in professional print quality PDF format and provided together with instructions and tips for professional results. Whenever needed, a ready-to-print version (with spread pages, ready for the delivery “as is” to a professional printing service) was made available as well. In this way, each partner may print as much leaflets as needed for their national and local events without direct intervention from the PO, thus minimizing time to have the leaflet ready and shipping costs.

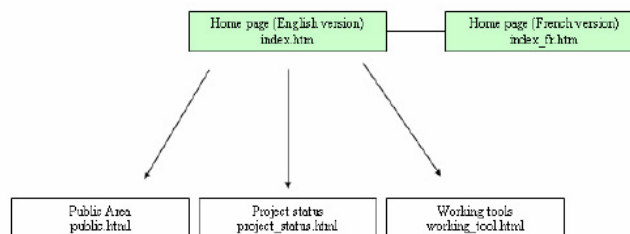
- ▶ Project customized gadgets and giveaways - Several small items with the project logo were produced to be distributed at international events, thus contributing in creating a stronger brand for the project, including: block notes and folders (see above), post-it blocks, strings, pens, paper clips, cups, shopping bags.

Of course, the work done with these first dissemination materials does not end in reaching the milestone: it is important to underline that the availability of up-to-date, targeted dissemination materials is a key point in order to spread knowledge about EUMEDGRID. Furthermore, some work has been done for specific events (for example, posters advertising the Project conference, or translations of information sheets for seminars/national events).

The first issue of the **EUMEDGRID newsletter** (text/html version to be distributed via email and high resolution pdf format for downloading from the website or printing and distributing in occasion of events, seminars etc) was published in December. (<http://www.eumedgrid.org/documents/newsletter-EUMEDGRID-dec06.pdf>) The initiative was seen favorably and it was decided that a bi-monthly newsletter will be issued in the second project year.

### A2.3 Website and online tools

During the first project months, a relevant effort was spent in planning and implementing the project website and collaborative tools. A first website, mainly based on the one used by partners only during the proposal and negotiation phases was published at the very beginning of the project. In the meanwhile, a new content architecture was developed and implemented, based on the simple tripartite schema illustrated in Figure 5 :



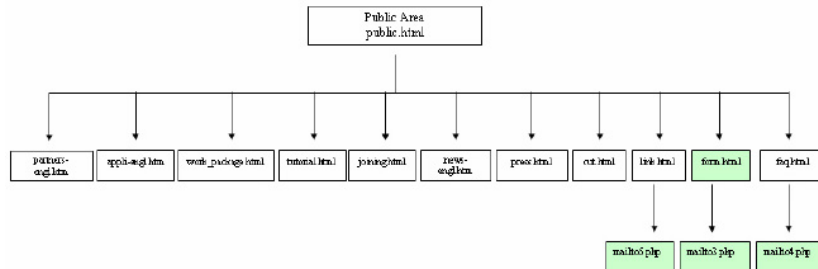
**Figure 5 - General schema of the EUMEDGRID website's content architecture**

The contents fatherly break down as follow:

1. The **Public Area**, whose schema is shown in Figure 6, mainly targets a generic audience and provides general information about the Project (partners, applications, work packages,

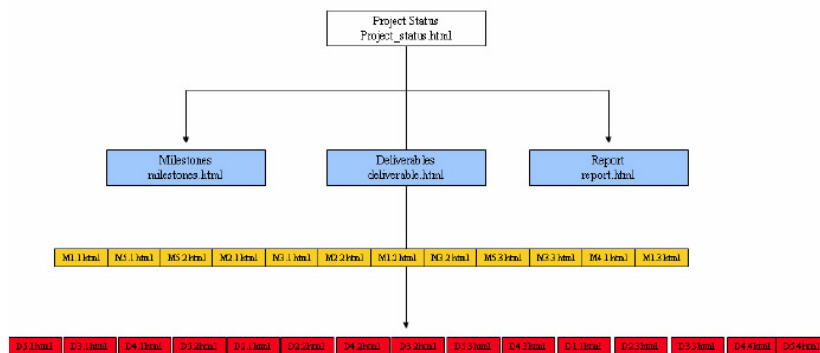
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links, FAQ), how to get in touch with the staff and join the Community (joining, hosting a tutorial, and contacts sections) and the news about the project, press activities and coverage (press releases, press cuttings, and news).

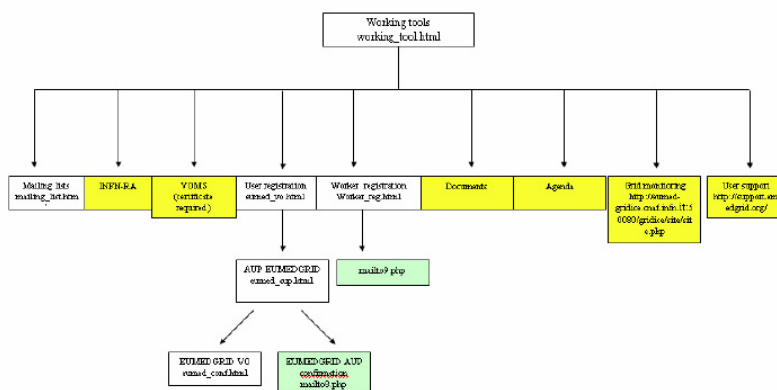


**Figure 6 - Content architecture for the "Public area"**

- The **Project Status** area, mainly targeting the project staff as well as the larger grid community (other projects, researchers, new potential users etc) and providing information about the EUMEDGRID’s progresses, including a calendar and brief charts describing timing, status and content of project milestones, deliverables and periodic reports.



- Working Tools, mainly targeting EUMEDGRID staff and user community and providing them with links and other information on project collaboration tools.



In this framework, several online PHP-based tools were installed and customized in order to provide additional services to the project participants, third parties and users/contributors:

- ▶ Document repository: <https://documents.eumedgrid.org>,
- ▶ Project calendar and agenda: <https://agenda.eumedgrid.org>,
- ▶ User support system: <https://support.eumedgrid.org>

Other tools, set-up within other work packages or in collaboration are linked in this area:

- ▶ GRIDICE monitoring tool (WP3): <http://eumed-gridice.cnaf.infn.it:50080/gridice/site/site.php>
- ▶ EUMEDGRID VOMS (WP3): <https://voms2.cnaf.infn.it:8443/voms/eumed/>
- ▶ Timesheet tool (WP1)
- ▶ ROC website (WP3)
- ▶ Mailing lists – managed via web through the mailman interface (WP1)
- ▶ Online surveys on new communities (<https://secure.um.edu.mt/eumedgrid/questionnaire/wp2/>) and applications (<https://secure.um.edu.mt/eumedgrid/questionnaire/wp4/>)

In many cases, this implied some additional work by the WP5 staff to help personalizing and/or maintaining and updating the tools/pages.

As regards to the selected technology, the website is based on simple HTML/CSS/PHP: all pages are W3C-compliant XHTML1.0 Transitional, and can be therefore correctly displayed by the major web browsers and are accessible with special text-based and “talking” web browsers for sight impaired people.

More than 150 web pages, both in English and French, were already available after the first project quarter, but the number have been increasing during the proceeding of works.

As mentioned above, the website was initially delivered in English and French. Some of the Mediterranean Partners expressed interest in hosting an Arabic version of such website and a joint webmasters’ group is in phase of start-up.

According to the statistics collected so far, the website reached 41 average visits per day (i.e. more than 1200 in a month), with more than 100 daily hits and 59 pages viewed (statistics referring to project month 12 and excluding the php tools). It is foreseen that the Arabic version should maximize these values.

Further actions in order to improve the website and its use, create new dissemination materials and update the ones already available and a detailed plan of events for the remnants of the project, will be described in Del5.3, “Intermediate report on dissemination activity”, due at month 15. However, the following table summarizes the major actions<sup>8</sup> planned to date:

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<sup>8</sup> Events in Syria, Spain, Jordan and Palestine may be envisaged as well, but are not yet included in the provisional plan of dissemination actions.

Planned/ actual dates	Type of activity	Type of audience	Countries addressed	Size of audience	Responsible Partner(s)	Status and notes
Jan 2007	Review of the project website	Project partners, Grid professionals, potential users, General public, related initiatives	European and Mediterranean Countries, etc	-	GARR	Ongoing
Jan 2007	Tutorial	Biologists, middleware developers	Israel, other Mediterranean countries	~25	GARR (IUCC)	Ongoing
Jan 2007	Tutorial	Students, potential users	Cyprus, other Mediterranean countries	10-25	INFN	Delayed, dates to be re- discussed
February 2007	Newsletter	Project partners, EUMEDGRID new communities.	Partner Countries	150+	GARR	Planned
March 2007	Scholarships	PHD, postdoc students, new application developers from user communities in the target countries	Southern Mediterranean Countries	7*	INFN (ICTP)	EUMEDGRID scholarship will allow 7 people to attend the Advanced School HPC tool for eScience
April 2007	EUMED GRID School for application porting	User communities, application developers	Mediterranean Countries	~30	INFN, EUN	Announced; organization ongoing
April 2007	Newsletter	Project partners, EUMEDGRID new communities.	Partner Countries	150+	GARR	Planned
June 2007	Newsletter	Project partners, EUMEDGRID new communities.	Partner Countries	150+	GARR	Planned

July 2007	2 <sup>nd</sup> project workshop	Media, related initiatives, Grid users and researchers, developers, students	Algeria and other Partner Countries	~60-80	GARR, CNRST	Tentative; dates and programme yet to be defined
September 2007	2 <sup>nd</sup> Project conference	Media, related initiatives, Grid users and researchers, developers, students	Greece, other partner countries	100+	GARR, GRNET	Tentative; dates and programme yet to be defined
October 2007	Newsletter	Project partners, EUMEDGRID new communities.	Partner Countries	150+	GARR	Planned
December 2007	Newsletter	Project partners, EUMEDGRID new communities.	Partner Countries	150+	GARR	Planned

### A3. Publishable results

#### A3.1 Press releases

- ▶ 06/02/2006 - EUMEDGRID kick-off meeting press release (by the EUMEDGRID PO):  
<http://www.eumedgrid.org/documents/EUMEDGRID-PR060206-en.pdf>
- ▶ 06/02/2006 - EUMEDGRID kick-off meeting press release (by University of Malta, the host of the event): [http://www.eumedgrid.org/documents/EUMEDGRID\\_Press\\_Release](http://www.eumedgrid.org/documents/EUMEDGRID_Press_Release)
- ▶ 15/09/2006 - EUMEDGRID 1<sup>st</sup> Conference: “Empowering eScience across the Mediterranean” (by the EUMEDGRID PO): [http://www.eumedgrid.org/Conf-Roma06/EUMEDGRID-PR150906-en\\_03.pdf](http://www.eumedgrid.org/Conf-Roma06/EUMEDGRID-PR150906-en_03.pdf)

#### A3.2 Dissemination materials

Title	Author	URL
<b>Newsletters, information sheets, general presentations etc</b>		
<b>EUMEDGRID Newsletter December 2006</b>	Tanlongo, F.	<a href="https://documents.eumedgrid.org/getfile.py?recid=195">https://documents.eumedgrid.org/getfile.py?recid=195</a>
<b>EUMEDGRID 1st poster</b>	Ardizzone, V.; Tanlongo, F.	<a href="https://documents.eumedgrid.org/getfile.py?recid=236">https://documents.eumedgrid.org/getfile.py?recid=236</a>

Title	Author	URL
Project Presentation (in Arabic, French and English)	Suleiman, M.; De Nicola, A.	<a href="https://documents.eumedgrid.org/getfile.py?recid=237">https://documents.eumedgrid.org/getfile.py?recid=237</a>
Project Presentation (in Arabic and English)	Suleiman, M.; De Nicola, A.	<a href="https://documents.eumedgrid.org/getfile.py?recid=235">https://documents.eumedgrid.org/getfile.py?recid=235</a>
What are Grids?" leaflet	Tanlongo, F.	<a href="https://documents.eumedgrid.org/getfile.py?recid=194">https://documents.eumedgrid.org/getfile.py?recid=194</a>
Project Information sheet	Barbera, R.; Ruggieri, F.; Tanlongo, F.	<a href="https://documents.eumedgrid.org/getfile.py?recid=151">https://documents.eumedgrid.org/getfile.py?recid=151</a>
Project information sheet (for press services)	Tanlongo, F.	<a href="https://documents.eumedgrid.org/getfile.py?recid=150">https://documents.eumedgrid.org/getfile.py?recid=150</a>
Project Information sheet (Italian)	Tanlongo, F.	
Project presentation	Barbera, R.; Ruggieri, F.; Tanlongo, F.	<a href="https://documents.eumedgrid.org/getfile.py?recid=103">https://documents.eumedgrid.org/getfile.py?recid=103</a>
<b>General Grid/EUMEDGRID induction</b>		
Introduction to grid technology	Koumantaros, K.	<a href="https://documents.eumedgrid.org/getfile.py?recid=207">https://documents.eumedgrid.org/getfile.py?recid=207</a>
Introduction to the EumedGrid Project and the EumedGRID Infrastructure	Koumantaros, K.	<a href="https://documents.eumedgrid.org/getfile.py?recid=206">https://documents.eumedgrid.org/getfile.py?recid=206</a>
The EUMEDGRID Project	Galeazzi, F.	<a href="https://documents.eumedgrid.org/getfile.py?recid=203">https://documents.eumedgrid.org/getfile.py?recid=203</a>
HGSM Service Procedures for joining and using EUMEDGRID infrastructure	Ackan, B. Galeazzi, F.	<a href="https://documents.eumedgrid.org/getfile.py?recid=205">https://documents.eumedgrid.org/getfile.py?recid=205</a> <a href="https://documents.eumedgrid.org/getfile.py?recid=202">https://documents.eumedgrid.org/getfile.py?recid=202</a>
<b>GENIUS</b>		
The GENIUS web portal	Vicinanza, D.	<a href="https://documents.eumedgrid.org/getfile.py?recid=165">https://documents.eumedgrid.org/getfile.py?recid=165</a>
The GENIUS web portal, hands on	Vicinanza, D.	<a href="https://documents.eumedgrid.org/getfile.py?recid=166">https://documents.eumedgrid.org/getfile.py?recid=166</a>
Hands-on on job sub on GENIUS	Celio, P.	<a href="https://documents.eumedgrid.org/getfile.py?recid=225">https://documents.eumedgrid.org/getfile.py?recid=225</a>
Hands-on on data management on GENIUS	Federico B.	<a href="https://documents.eumedgrid.org/getfile.py?recid=222">https://documents.eumedgrid.org/getfile.py?recid=222</a>
GENIUS Services creation	La Rocca, G.	<a href="https://documents.eumedgrid.org/getfile.py?recid=226">https://documents.eumedgrid.org/getfile.py?recid=226</a>
Authentication in GENIUS	La Rocca, G.	<a href="https://documents.eumedgrid.org/getfile.py?recid=221">https://documents.eumedgrid.org/getfile.py?recid=221</a>
<b>GILDA</b>		
The GILDA t-Infrastructure	Barbera, R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=164">https://documents.eumedgrid.org/getfile.py?recid=164</a>

Title	Author	URL
Exploring GILDA Resources	Misurelli, G.	<a href="https://documents.eumedgrid.org/getfile.py?recid=224">https://documents.eumedgrid.org/getfile.py?recid=224</a>
GILDA t-Infrastructure	Bruno, R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=218">https://documents.eumedgrid.org/getfile.py?recid=218</a>
<b>WMS (advanced knowledge on)</b>		
Introduction to Grid Technologies	Budano, A.	<a href="https://documents.eumedgrid.org/getfile.py?recid=208">https://documents.eumedgrid.org/getfile.py?recid=208</a>
Job's Types	Budano, A.	<a href="https://documents.eumedgrid.org/getfile.py?recid=220">https://documents.eumedgrid.org/getfile.py?recid=220</a>
Architecture of the gLite Workload Management System	Bitelli, F.	<a href="https://documents.eumedgrid.org/getfile.py?recid=180">https://documents.eumedgrid.org/getfile.py?recid=180</a>
Architecture of the gLite Workload Management System	Budano, A.	<a href="https://documents.eumedgrid.org/getfile.py?recid=212">https://documents.eumedgrid.org/getfile.py?recid=212</a>
<b>Security (advanced knowledge on)</b>		
Authentication and Authorization in gLite	Galeazzi, F.	<a href="https://documents.eumedgrid.org/getfile.py?recid=210">https://documents.eumedgrid.org/getfile.py?recid=210</a>
Authentication and Authorization in gLite	Bruno, R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=234">https://documents.eumedgrid.org/getfile.py?recid=234</a>
Authentication and Authorization in gLite	Zengin, A.	<a href="https://documents.eumedgrid.org/getfile.py?recid=173">https://documents.eumedgrid.org/getfile.py?recid=173</a>
Some notes on CAs	Barbera, R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=172">https://documents.eumedgrid.org/getfile.py?recid=172</a>
Authentication and Authorization in gLite	Zengin, A.	<a href="https://documents.eumedgrid.org/getfile.py?recid=171">https://documents.eumedgrid.org/getfile.py?recid=171</a>
Authentication and Authorization in gLite, hands on	Zengin, A.	<a href="https://documents.eumedgrid.org/getfile.py?recid=170">https://documents.eumedgrid.org/getfile.py?recid=170</a>
<b>Project Management</b>		
Timesheet tool mini-tutorial for workers	Tanlongo, F.	<a href="https://documents.eumedgrid.org/getfile.py?recid=186">https://documents.eumedgrid.org/getfile.py?recid=186</a>
Guide to the compilation of EC Interim Questionnaires	Ruggieri, F.	<a href="https://documents.eumedgrid.org/getfile.py?recid=183">https://documents.eumedgrid.org/getfile.py?recid=183</a>
Guide to the compilation of EC annual report forms	Mieli, M.	<a href="https://documents.eumedgrid.org/getfile.py?recid=184">https://documents.eumedgrid.org/getfile.py?recid=184</a>
Audit Certificates	Ruggieri, F.	<a href="https://documents.eumedgrid.org/getfile.py?recid=182">https://documents.eumedgrid.org/getfile.py?recid=182</a>
Timesheet tool mini-tutorial for workers	Tanlongo, F.	<a href="https://documents.eumedgrid.org/getfile.py?recid=181">https://documents.eumedgrid.org/getfile.py?recid=181</a>
<b>DMS (advanced knowledge on)</b>		
Architecture of the gLite DMS	Gargana, R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=179">https://documents.eumedgrid.org/getfile.py?recid=179</a>
Architecture of the gLite DMS, hands on	Bruno, R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=178">https://documents.eumedgrid.org/getfile.py?recid=178</a>
DMS, Files Catalog	Budano, A.	<a href="https://documents.eumedgrid.org/getfile.py?recid=200">https://documents.eumedgrid.org/getfile.py?recid=200</a>
DATA Management, Storage Resurce Management	Budano, A.	<a href="https://documents.eumedgrid.org/getfile.py?recid=199">https://documents.eumedgrid.org/getfile.py?recid=199</a>
The AMGA metadata catalog	Bruno, R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=215">https://documents.eumedgrid.org/getfile.py?recid=215</a>

Title	Author	URL
The AMGA metadata catalog	Bruno, R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=214">https://documents.eumedgrid.org/getfile.py?recid=214</a>
The gLite FTS	Celio, P.	<a href="https://documents.eumedgrid.org/getfile.py?recid=177">https://documents.eumedgrid.org/getfile.py?recid=177</a>
The AMGA Metadata Catalogue, hands on	Bruno R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=176">https://documents.eumedgrid.org/getfile.py?recid=176</a>
<b>gLite</b>		
gLite Overview	Bruno R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=175">https://documents.eumedgrid.org/getfile.py?recid=175</a>
gLite overview	Bruno, R	<a href="https://documents.eumedgrid.org/getfile.py?recid=174">https://documents.eumedgrid.org/getfile.py?recid=174</a>
<b>Information system</b>		
Information system on gLite and LCG	Barbera, R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=169">https://documents.eumedgrid.org/getfile.py?recid=169</a>
Information system on gLite and LCG, hands on	Barbera, R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=168">https://documents.eumedgrid.org/getfile.py?recid=168</a>
Information system on gLite and LCG	Barbera, R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=167">https://documents.eumedgrid.org/getfile.py?recid=167</a>
<b>Installation of Services</b>		
Architecture of the gLite Workload Management System	Bitelli, F.	<a href="https://documents.eumedgrid.org/getfile.py?recid=163">https://documents.eumedgrid.org/getfile.py?recid=163</a>
CE + WN installation and configuration	Misurelli, G.	<a href="https://documents.eumedgrid.org/getfile.py?recid=162">https://documents.eumedgrid.org/getfile.py?recid=162</a>
Disk Pool Manager Installation	Bitelli, F.; Gargana, R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=161">https://documents.eumedgrid.org/getfile.py?recid=161</a>
AMGA Server, Installation and configuration	Bruno, R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=160">https://documents.eumedgrid.org/getfile.py?recid=160</a>
BDII Server Installation	Bruno, R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=159">https://documents.eumedgrid.org/getfile.py?recid=159</a>
File Transfer Service Server Installation	Bitelli, F.; Gargana, R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=158">https://documents.eumedgrid.org/getfile.py?recid=158</a>
Introduction to the tutorial for site managers	Bruno, R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=157">https://documents.eumedgrid.org/getfile.py?recid=157</a>
R-GMA Server Installation	Bruno, R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=156">https://documents.eumedgrid.org/getfile.py?recid=156</a>
gLite User Interface installation and configuration	Bruno, R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=155">https://documents.eumedgrid.org/getfile.py?recid=155</a>
MyProxy Server Installation	Misurelli, G.	<a href="https://documents.eumedgrid.org/getfile.py?recid=154">https://documents.eumedgrid.org/getfile.py?recid=154</a>
VOMS Server Installation	Bruno, R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=153">https://documents.eumedgrid.org/getfile.py?recid=153</a>
CE + WN installation and configuration	Bruno, R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=217">https://documents.eumedgrid.org/getfile.py?recid=217</a>
Information System: BDII and R-GMA	Bruno, R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=216">https://documents.eumedgrid.org/getfile.py?recid=216</a>
Workload Management System Installation	Galeazzi, F.	<a href="https://documents.eumedgrid.org/getfile.py?recid=213">https://documents.eumedgrid.org/getfile.py?recid=213</a>
CE + WN installation and configuration	Bruno, R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=233">https://documents.eumedgrid.org/getfile.py?recid=233</a>



Title	Author	URL
BDII Server Installation	Bruno, R.	<a href="https://documents.eumedgrid.org/getfile.py?recid=232">https://documents.eumedgrid.org/getfile.py?recid=232</a>
YAIM Yet Another Installation Method	La Rocca, G.	<a href="https://documents.eumedgrid.org/getfile.py?recid=231">https://documents.eumedgrid.org/getfile.py?recid=231</a>
Installation and configuration of a gLite WMS + LB	La Rocca, G.	<a href="https://documents.eumedgrid.org/getfile.py?recid=230">https://documents.eumedgrid.org/getfile.py?recid=230</a>
Installation and configuration of gLite UI	Celio, P.	<a href="https://documents.eumedgrid.org/getfile.py?recid=229">https://documents.eumedgrid.org/getfile.py?recid=229</a>
Setup of a Node and Linking to the EUMEDGrid	Misurelli, G.	<a href="https://documents.eumedgrid.org/getfile.py?recid=228">https://documents.eumedgrid.org/getfile.py?recid=228</a>
GENIUS Installation and Configuration	Budano, A.	<a href="https://documents.eumedgrid.org/getfile.py?recid=204">https://documents.eumedgrid.org/getfile.py?recid=204</a>
Disk Pool Manager Installation	Budano, A.	<a href="https://documents.eumedgrid.org/getfile.py?recid=201">https://documents.eumedgrid.org/getfile.py?recid=201</a>
BDII Server Installation	Hakan, B.	<a href="https://documents.eumedgrid.org/getfile.py?recid=198">https://documents.eumedgrid.org/getfile.py?recid=198</a>
EuMedGrid tutorial for Site Managers	Galeazzi, F.	<a href="https://documents.eumedgrid.org/getfile.py?recid=196">https://documents.eumedgrid.org/getfile.py?recid=196</a>
<b>Grid support</b>		
Grid Site	Misurelli, G.	<a href="https://documents.eumedgrid.org/getfile.py?recid=227">https://documents.eumedgrid.org/getfile.py?recid=227</a>
Troubleshooting EUMEDGrid Support System	Misurelli, G.	<a href="https://documents.eumedgrid.org/getfile.py?recid=223">https://documents.eumedgrid.org/getfile.py?recid=223</a>

*Table 10 - List of presentations and dissemination materials*

### A3.3 Press cuts

All press cuts relating to EUMEDGRID are available on the official website, at the URL: <http://www.eumedgrid.org/cut.html> (with a pdf version of the article and, whenever possible, the link to the online article). The following are the ones related to the reporting period:

- ▶ 05/02/2006 - The Sunday Times of Malta  
Information session on grid computing (English)  
[http://www.eumedgrid.org/rassegna\\_stampa/Mt-Times-PC060206.pdf](http://www.eumedgrid.org/rassegna_stampa/Mt-Times-PC060206.pdf)
- ▶ 06/02/2006 - TERENA Community  
The EUMEDGRID Project Begins: Supporting The Creation of a Grid Infrastructure Across the Mediterranean (English)  
[http://www.eumedgrid.org/rassegna\\_stampa/TERENA.pdf](http://www.eumedgrid.org/rassegna_stampa/TERENA.pdf)
- ▶ 06/02/2006 - UoM  
E-Science and the EU – University of Malta hosts first EUMEDGRID Project Meeting (English)  
[http://www.eumedgrid.org/rassegna\\_stampa/UNIVERSITYOFMALTA.pdf](http://www.eumedgrid.org/rassegna_stampa/UNIVERSITYOFMALTA.pdf)

- ▶ 06/02/2006 - GARR  
Inizia il Progetto EUMEDGRID (Italian and English)  
[http://www.eumedgrid.org/rassegna\\_stampa/GARR-PC060206.pdf](http://www.eumedgrid.org/rassegna_stampa/GARR-PC060206.pdf)
- ▶ 06/02/2006 - IST  
Grid Network enhance Mediterranean cooperation (English)  
[http://www.eumedgrid.org/rassegna\\_stampa/IST-Res-PC060206.pdf](http://www.eumedgrid.org/rassegna_stampa/IST-Res-PC060206.pdf)
- ▶ 06/02/2006 - Department of Information Malta  
Diplomazija ta' l-educazzjoni għall-paċi u żvilupp (Maltese)  
[http://www.eumedgrid.org/rassegna\\_stampa/DepInfo-Mt-PC060206.pdf](http://www.eumedgrid.org/rassegna_stampa/DepInfo-Mt-PC060206.pdf)
- ▶ 06/02/2006 - Di-Ve.com  
Diplomacy of Education for Peace and Development (English)  
[http://www.eumedgrid.org/rassegna\\_stampa/Mt-di-ve-PC090206.pdf](http://www.eumedgrid.org/rassegna_stampa/Mt-di-ve-PC090206.pdf)
- ▶ 06/02/2006 - EGEE  
Official Kick-off Meeting of the EUMEDGRID Project (English)  
[http://www.eumedgrid.org/rassegna\\_stampa/EGEE-PC060206.pdf](http://www.eumedgrid.org/rassegna_stampa/EGEE-PC060206.pdf)
- ▶ 07/02/2006 - AGI  
Mediterraneo: da Malta parte l'e-Science con fondi UE (Italian)  
[http://www.eumedgrid.org/rassegna\\_stampa/AGI-PC070206.pdf](http://www.eumedgrid.org/rassegna_stampa/AGI-PC070206.pdf)
- ▶ 08/02/2006 - Science Grid  
Empowering e-Science across the Mediterranean (English)  
[http://www.eumedgrid.org/rassegna\\_stampa/GridWeek-PC060206.pdf](http://www.eumedgrid.org/rassegna_stampa/GridWeek-PC060206.pdf)
- ▶ 09/02/2006 - TR-Grid  
EUMEDGRID (Empowering eScience Across the Mediterranean) (English)  
[http://www.eumedgrid.org/rassegna\\_stampa/TR-Grid-PC090206.pdf](http://www.eumedgrid.org/rassegna_stampa/TR-Grid-PC090206.pdf)
- ▶ 09/02/2006 - ANSAMed  
EUMEDGRID research project launched in Malta (English)  
[http://www.eumedgrid.org/rassegna\\_stampa/ANSAMed-PC060206.pdf](http://www.eumedgrid.org/rassegna_stampa/ANSAMed-PC060206.pdf)
- ▶ 09/02/2006 - ANSAMed  
Euromed: EUMEDGRID inaugura e-Science mediterranea a Malta (Italian)  
[http://www.eumedgrid.org/rassegna\\_stampa/ANSAMed-PC060206-2.pdf](http://www.eumedgrid.org/rassegna_stampa/ANSAMed-PC060206-2.pdf)
- ▶ 20/02/2006 - La Repubblica on line  
Un ponte di bit sul Mediterraneo (Italian)  
[http://www.eumedgrid.org/rassegna\\_stampa/Repubblica.it.pdf](http://www.eumedgrid.org/rassegna_stampa/Repubblica.it.pdf)

- ▶ 20/02/2006 - La Repubblica  
Un ponte di bit sul Mediterraneo (Italian)  
[http://www.eumedgrid.org/rassegna\\_stamp/eumed\\_repubblica.pdf](http://www.eumedgrid.org/rassegna_stamp/eumed_repubblica.pdf)
- ▶ 21-23/02/06 - E-news Jiltaqa' (Maltese)  
Interview with Kevin Vella (1st part) <mms://stream.um.edu.mt:554/eumedgrid/kvella-1.wmv>  
Interview with Kevin Vella (2nd part) <mms://stream.um.edu.mt:554/eumedgrid/kvella-2.wmv>
- ▶ February 2006 - Renater  
The EUMEDGRID Project Begins: Supporting The Creation of a Grid Infrastructure Across the Mediterranean (English)  
[http://www.eumedgrid.org/rassegna\\_stamp/renater-PC060206.pdf](http://www.eumedgrid.org/rassegna_stamp/renater-PC060206.pdf)
- ▶ 06/03/2006 - DANTE  
EUMEDCONNECT supports EUMEDGRID project (English)  
[http://www.eumedgrid.org/rassegna\\_stamp/DANTE.pdf](http://www.eumedgrid.org/rassegna_stamp/DANTE.pdf)
- ▶ 18/03/2006 - EGEE Newsletter  
EUMEDGRID: Mediterranean e-Science takes off from Malta (English)  
[http://www.eumedgrid.org/rassegna\\_stamp/EGEEMar06.pdf](http://www.eumedgrid.org/rassegna_stamp/EGEEMar06.pdf)
- ▶ 05/04/2006 - ITnews  
Rete GARR, la roadmap degli incontri di maggio (Italian)  
[http://www.eumedgrid.org/rassegna\\_stamp/it\\_news.pdf](http://www.eumedgrid.org/rassegna_stamp/it_news.pdf)
- ▶ 06/04/2006 - Il Sole 24 Ore  
Un ponte con Pechino (Italian)  
[http://www.eumedgrid.org/rassegna\\_stamp/sole\\_24.pdf](http://www.eumedgrid.org/rassegna_stamp/sole_24.pdf)
- ▶ 07/04/2006 - Punto Informatico  
Italia motore della Nuova Rete nel Mediterraneo (Italian)  
[http://www.eumedgrid.org/rassegna\\_stamp/PI.pdf](http://www.eumedgrid.org/rassegna_stamp/PI.pdf)
- ▶ 12/04/2006 - ANSAmed  
Ricerca: avviata rete telematica Europa-Mediterraneo (Italian)  
[http://www.eumedgrid.org/rassegna\\_stamp/AnsaMED12\\_04\\_06.pdf](http://www.eumedgrid.org/rassegna_stamp/AnsaMED12_04_06.pdf)
- ▶ 03/07/06 - EUMEDCONNECT  
EUMEDGRID 1st Conference announcement and Call for papers (English)  
[http://www.eumedgrid.org/rassegna\\_stamp/conference\\_eumedconnect.pdf](http://www.eumedgrid.org/rassegna_stamp/conference_eumedconnect.pdf)
- ▶ 07/07/06 - GÉANT2  
EUMEDGRID 1st Conference (English)  
[http://www.eumedgrid.org/rassegna\\_stamp/Conference\\_GEANT2.pdf](http://www.eumedgrid.org/rassegna_stamp/Conference_GEANT2.pdf)

- ▶ 17/07/06 - EGEE  
EUMEDGRID conference 15 September 2006 Rome, Italy (English)  
[http://www.eumedgrid.org/rassegna\\_stampa/conference\\_EGEE.pdf](http://www.eumedgrid.org/rassegna_stampa/conference_EGEE.pdf)
- ▶ 17/07/06 - CLARA  
Primera Conferencia EUMEDGRID (Spanish)  
[http://www.eumedgrid.org/rassegna\\_stampa/conference\\_clara.pdf](http://www.eumedgrid.org/rassegna_stampa/conference_clara.pdf)
- ▶ 03/08/2006 - Science Grid This Week  
First EUMEDGRID Conference (English)  
[http://www.eumedgrid.org/rassegna\\_stampa/ScienceGridThisWeek\\_ago.pdf](http://www.eumedgrid.org/rassegna_stampa/ScienceGridThisWeek_ago.pdf)
- ▶ 15/09/2006 - TERENA  
EUMEDGRID 1st Conference: Empowering e-Science Across the Mediterranean Takes Place in Rome (English)  
[http://www.eumedgrid.org/rassegna\\_stampa/conf\\_terena.pdf](http://www.eumedgrid.org/rassegna_stampa/conf_terena.pdf)
- ▶ 21/09/2006 - CLARA  
EUMEDGRID Conference: empowering e-Science across the Mediterranean  
[http://www.eumedgrid.org/rassegna\\_stampa/conf\\_clara.pdf](http://www.eumedgrid.org/rassegna_stampa/conf_clara.pdf)
- ▶ 12/10/2006 - MarocIT  
MaGrid/EumedGrid (French)  
[http://www.eumedgrid.org/rassegna\\_stampa/it-maroc.com-13102006.pdf](http://www.eumedgrid.org/rassegna_stampa/it-maroc.com-13102006.pdf)
- ▶ 01/11/2006 - Le Temps  
Etre à Tunis et en même temps utiliser les ordinateurs en repos en Amérique: c'est le village planétaire (French)  
[http://www.eumedgrid.org/rassegna\\_stampa/ntic.jpg](http://www.eumedgrid.org/rassegna_stampa/ntic.jpg)
- ▶ 03/11/2006 - Le Quotidien  
Les grilles de calcul sous la laoupe des chercheurs tunisiens (French)  
[http://www.eumedgrid.org/rassegna\\_stampa/quotidien.jpg](http://www.eumedgrid.org/rassegna_stampa/quotidien.jpg)
- ▶ 01/12/2006 – CNRST – Lettre d'information  
Le Maroc, premier pays de la méditerrané du sud à intégrer EumedGrid (French)  
[http://www.eumedgrid.org/rassegna\\_stampa/cnrst-lettreinfo-eumedgrid.pdf](http://www.eumedgrid.org/rassegna_stampa/cnrst-lettreinfo-eumedgrid.pdf)