

# Memorandum of Understanding between EGI.eu and ASGC

**Resource Infrastructure Provider MoU** 

**10/04/2013** FINAL 1 / 15



# **Table of Content**

BACKGROUND	3
ARTICLE 1: PURPOSE	4
ARTICLE 2: DEFINITIONS	4
ARTICLE 3: INFRASTRUCTURE COMPOSITION	4
ARTICLE 4: JOINT WORK PLAN	4
ARTICLE 5: COMMUNICATION	6
ARTICLE 6: PARTICIPATION IN EGI.EU GROUPS	6
ARTICLE 7: RIGHTS AND RESPONSIBILITIES	6
ARTICLE 8: FUNDING	6
ARTICLE 9: ENTRY INTO FORCE, DURATION AND TERMINATION	7
ARTICLE 10: AMENDMENTS	7
ARTICLE 11: ANNEXES	7
ARTICLE 12: LANGUAGE	7
ARTICLE 13: GOVERNING LAW – DISPUTE RESOLUTION	7
ANNEX 1 – EGI.EU DESCRIPTION	9
ANNEX 2 – APGI DESCRIPTION	10
ANNEX 3 – RIGHTS AND RESPONSIBILITIES	12
ANNEX 4 – SETTLEMENT OF DISPUTES	14
ANNEX 5 – DETAILED CONTACT LIST	15

**10/04/2013** FINAL 2 / 15



#### **BACKGROUND**

The Stichting European Grid Initiative Foundation (hereafter referred to as "EGI.eu") has been created under the Dutch law with the mission to create and maintain a pan-European Grid Infrastructure in collaboration with its Participants i.e. the National Grid Initiatives (NGIs) and Associated participants (e.g. European International Research Organisations - EIROs) in order to guarantee the long-term availability of a generic e-infrastructure for all European research communities and their international collaborators. In its role of coordinating grid activities between European NGIs EGI.eu will: 1) operate a secure integrated production grid infrastructure that seamlessly federates resources from providers around Europe; 2) coordinate the support of the research communities using the European infrastructure coordinated by EGI.eu; 3) work with software providers within Europe and worldwide to provide high-quality innovative software solutions that deliver the capability required by our user communities; 4) ensure the development of EGI.eu through the coordination and participation in collaborative research projects that bring innovation to European Distributed Computing Infrastructures (DCIs). A summary of EGI.eu is attached as Annex 1.

The Asia Pacific Grid Initiative (hereafter referred to as "APGI") is coordinated by Academia Sinica Grid Computing Centre (ASGC) that aims at ensuring the long-term sustainability of the Asia e-Infrastructure, the continuity and the enhancements of the Asia Virtual Research Communities (VRCs) using it. APGI is devoted to providing international coordination and collaboration within the region. A summary of APGI is attached as Annex 2.

10/04/2013 FINAL 3 / 15



## **ARTICLE 1: PURPOSE**

The purpose of this Memorandum of Understanding<sup>1</sup> (MoU) is to define a framework of collaboration between EGI.eu and ASGC (hereafter also referred to as "the Party" or the "Parties"). The Parties recognise, by this MoU, the opening of a wider and longer-term cooperation in activities that will bring visible benefits

### **ARTICLE 2: DEFINITIONS**

For the purpose of this MoU, the definitions in the EGI glossary are relevant (<a href="http://go.egi.eu/glossary">http://go.egi.eu/glossary</a>).

#### ARTICLE 3: INFRASTRUCTURE COMPOSITION

ASGC in the position as the APROC (Asia Pacific Regional Operational Centre) coordinate and represent the following Institutions from APGI, who wish to participate in the framework of collaboration defined in this document, and delegate it to represent them in EGI.eu policy groups.

- ASGC Academia Sinica Grid Computing Centre (Taiwan)
- ASTI Advanced Science and Technology Institute (Philippines)
- ITB Institut Teknologi Bandung (Indonesia)
- KEK Inter-University Research Institute Corporation High Energy Accelerator Research Organization (Japan)
- KISTI Korea Institute of Science and Technology Information (Korea)
- NSTDA National Science and Technology Development Agency (Thailand)
- UNIMELB University of Melbourne (Australia)
- UPM Universiti Putra Malaysia (Malaysia)

Annex 2 contains the list of the participating Resource Centres that the listed Institutions are responsible for. The list of Resource Centres will be reviewed and updated every 6 months as required.

## **ARTICLE 4: JOINT WORK PLAN**

The parties contribute to enable the vision of providing European scientists and international collaboration for sustainable distributed computing services to support their work.

In this broad context, the specific goals of the collaborations are to:

The specific goals of the collaboration are:

- 1. To enhance the capacities of both infrastructures;
- 2. To provide Local and Global operational services as needed to support the international user community and the EGI operational needs;
- 3. To subscribe to a mandatory set of policies, procedures and OLAs;
- 4. To comply with the operations interfaces required by the EGI Operations Architecture<sup>2</sup>, which are needed to ensure seamless and interoperable access to resources;
- 5. To participate in the Operations Management Board to contribute to the EGI operations agenda.
- 6. To participate in the Security Policy Group to contribute to the development of the security policies fabric of the infrastructure.

**10/04/2013** FINAL 4 / 15

<sup>&</sup>lt;sup>1</sup> An MoU is a written agreement that clarifies relationships and responsibilities between two or more parties that share services, clients, and resources.

<sup>&</sup>lt;sup>2</sup> EGI Operations Architecture: Infrastructure Platform and Collaboration Platform Integration, EGI-InSPIRE Deliverable D4.6, March 2012 (https://documents.egi.eu/document/1309)



The specific activities to be carried out in the framework of the collaboration are  $\frac{3}{2}$ :

## WP1 Participation to the EGI.eu policy groups

Parties Involved: EGI.eu (Contact: EGI Chief Operations Officer); ASGC

**Description of work:** APGI to be regularly represented in the Operations Management Board, to provide requirements necessary to drive the evolution of the operations architecture and generally to provide feedback through attendance to meetings, questionnaires and e-mail.

APGI to regularly participate to the SPG meetings, with the status of voting member, contributing to the development of the security policies that ensure a secure distributed computing infrastructure.

## **Expected outcome:**

Participation to OMB work. APGI Operations Manager and APGI Security Manager/Officer are already appointed and contributing to the OMB. Performance of all Operations Centres is assessed on an annual basis by EGI.eu.

#### **WP2** Global services

Parties Involved: EGI.eu (Contact: EGI Chief Operations Officer); ASGC

**Description of work:** Identify a set of EGI.eu Global services APGI is interested in using together with the respective guaranteed quality parameters that EGI.eu commits to provide.

## **Expected outcome:**

- **A2.1** (09/2013) EGI.eu OLA defining the Global services offered is released and approved. The OLA should be periodically reviewed, at least yearly. (Leader Tiziana Ferrari)
- A2.2 (04/2014) Annual report on used EGI.eu Global services, including performance and utilization statistics. (Leader Tiziana Ferrari)

## **WP3 Reporting**

Parties Involved: EGI.eu (Contact: EGI Chief Operations Officer); ASGC

**Description of work:** As part of the EGI quality assurance procedures, performance of the services provided by APGI Resource Centres (site-level grid services) and performance of the core services provided by APGI (operations centre-level services) is reported on a monthly basis. Reports are produced by EGI.eu and are accessible on the EGI wiki: https://wiki.egi.eu/wiki/Performance

APGI agrees to adhere to the minimum service level targets defined in the Resource Centre OLA<sup>4</sup> and the Resource Infrastructure Provider OLA<sup>5</sup>.

APGI installed capacity and utilization are also assessed yearly as part of the annual assessment of EGI. EGI.eu is performing this assessment, which is publicly available on EGI document DB.

## **Expected outcome:**

- A3.1 (every year) Annual report on performance of APGI Local services (Resource Centre services and NGI services) (Leader Tiziana Ferrari)
- A3.2 (04/2014) Annual assessment of APGI installed capacity and utilization (Leader Tiziana Ferrari)

**10/04/2013** FINAL 5 / 15

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<sup>&</sup>lt;sup>3</sup> Party leading the activity is underlined.

<sup>&</sup>lt;sup>4</sup> Resource Centre Operational Level Agreement: http://documents.egi.eu/document/31

<sup>&</sup>lt;sup>5</sup> Resource Infrastructure Provider Operational Level Agreement: http://documents.egi.eu/document/463



The EGI.eu Strategy and Policy Team (SPT) will coordinate the periodic review of the progress of the activities defined in the table above, follow-up the milestones and distribute reports to both Parties. Special meetings between the points of contact designated under 5 (Communication) shall be held, as often as necessary, to examine the progress in the implementing of this Agreement.

#### **ARTICLE 5: COMMUNICATION**

The Parties shall keep each other informed on all their respective activities and on their progress and shall consult regularly on areas offering potential for cooperation.

Each Party shall designate a "point of contact" to be responsible for monitoring the implementation of this MoU and for taking measures to assist in the further development of cooperative activities. Such points of contact shall be the ordinary channel for the Parties' communication of proposals for cooperation.

The primary point of contact for each Party is:

EGI.eu: Operations Centre. E-mail: operations (at) egi.eu

ASGC: Eric.Yen@twgrid.org

Questions of principle or problems that cannot be solved at primary contact level are escalated to the EGI.eu Director (at) egi.eu and the ASGC (Simon.Lin@twgrid.org).

## **ARTICLE 6: PARTICIPATION IN EGI.EU GROUPS**

ASGC agrees to name a technical representative (with deputy) for the EGI OMB. ASGC may be asked to nominate representatives to serve on other policy groups as appropriate.

## **ARTICLE 7: RIGHTS AND RESPONSIBILITIES**

The procedure is set out in Annex 3.

#### **ARTICLE 8: FUNDING**

Each Party shall bear the costs of discharging its respective responsibilities under this MoU, including travel and subsistence of its own personnel and transportation of goods and equipment and associated documentation, unless otherwise agreed in this MoU.

Each Party shall make available free of charge to the other Party any office/meeting space needed for the joint activities.

The Parties' obligations hereunder are subject to their respective funding procedures and the availability of appropriated funds. Should either Party encounter budgetary problems in the course of its respective internal procedures that may affect the activities carried out under this MoU, that Party shall notify and consult with the other Party in a timely manner in order to minimise the negative impact of such problems on the cooperation. The Parties shall jointly look for mutually agreeable solutions.

In order to reduce the impact on travel costs, face-to-face meetings should be co-located with other events where participants are likely to attend. Meeting via teleconferences should be considered when the nature of the discussion does not strictly require a face-to-face presence.

10/04/2013 FINAL 6 / 15



## ARTICLE 9: ENTRY INTO FORCE, DURATION AND TERMINATION

This MoU will enter into force when signed by the authorised representatives of the Parties and shall remain in force until completion of the activities identified in Article 4 (Joint Work Plan), or upon termination of the projects in which the Parties participate, or upon three (3) months prior written notice by one Party to the other. In the event of termination, the parties shall endeavour to reach agreement on terms and conditions to minimise negative impacts on the other Party. In the event of the continuation of the present cooperation, the Agreement may be extended and/or amended by mutual agreement in writing.

#### **ARTICLE 10: AMENDMENTS**

The MoU may be amended by written agreement of the Parties. Amendments shall be valid only if signed by the authorised representatives of the Parties.

## **ARTICLE 11: ANNEXES**

Annexes Annex 1, Annex 2, Annex 3, Annex 4 and Annex 5 attached hereto have the same validity as this MoU and together constitute the entire understanding and rights and obligations covering the cooperation accepted by the Parties under this MoU. Annexes may be amended following the provisions of Article 10: Amendments.

#### **ARTICLE 12: LANGUAGE**

The language for this MoU, its interpretation and all cooperative activities foreseen for its implementation, is English.

#### **ARTICLE 13: GOVERNING LAW - DISPUTE RESOLUTION**

The terms of this MoU shall be interpreted in accordance with their true meaning and effect independently of national and local law. Provided that if and insofar as this MoU does not stipulate, or any of its terms are ambiguous or unclear reference shall be made to the substantive laws of Belgium. Disputes shall be resolved by amicable settlement or failing which by arbitration in accordance with the procedure set out in Annex 4.

10/04/2013 FINAL 7 / 15



# Memorandum of Understanding between EGI.eu and APGI

IN WITNESS WHEREOF, the Parties have caused their duly authorised representatives to sign two originals of this Memorandum of Understanding, in the English language.

The following agree to the terms and conditions of this MoU:

Dr. Steven Newhouse

**EGI.eu Director** 

Simon C. Lin

Project Director, ASGC

11/4/2013

Date

Date

**10/04/2013** FINAL 8 / 15



## Annex 1 – EGI.eu Description

To support science and innovation, a lasting operational model for e-Infrastructure is needed – both for coordinating the infrastructure and for delivering integrated services that cross national borders. The objective of EGI.eu (a non-for-profit foundation established under Dutch law) is to coordinate and manage the European Grid Infrastructure (EGI) federation on behalf of its members: National Grid Initiatives (NGIs) and European International Research Organisations (EIROs) to help guarantee the long-term availability of a generic e-Infrastructure for all European research communities and their international collaborators.

Services provided by EGI.eu to the wider EGI community:

- Oversee the operations of EGI to guarantee the integration of resources from providers around Europe into a seamless and secure e-Infrastructure.
- Coordinate the support provided to EGI's user communities.
- Work with technology providers to source high-quality and innovative software solutions to answer users' requirements.
- Represent the EGI federation in the wider Distributed Computing Infrastructures (DCI) community through coordination and participation in collaborative projects.
- Coordinate the external services provided by partners in the community.
- Steer the evolution of EGI's policy and strategy development.
- Organise EGI's flagship events and publicise community's news and achievements.

The EGI.eu is supporting 'grids' of high-performance computing (HPC) and high-throughput computing (HTC) resources. EGI.eu is also ideally placed to integrate new Distributed Computing Infrastructures (DCIs) such as clouds, supercomputing networks and desktop grids, to benefit the user communities within the European Research Area.

EGI collects user requirements and provides support for the current and emerging user communities. Support is also given to the current heavy users of the infrastructure, such as high energy physics, computational chemistry and life sciences, as they move their critical services and tools from a centralised support model to one driven by their own individual communities.

The EGI community is a federation of independent national and community resource providers, whose resources support specific research communities and international collaborators both within Europe and worldwide. EGI.eu, coordinator of EGI, brings together partner institutions established within the community to provide a set of essential human and technical services that enable secure integrated access to distributed resources on behalf of the community.

The production infrastructure supports Virtual Research Communities – structured international user communities – that are grouped into specific research domains. VRCs are formally represented within EGI at both a technical and strategic level.

Further information (e.g. governance; services) can be found at: www.egi.eu/about/EGI.eu

10/04/2013 FINAL 9 / 15



## Annex 2 - APGI Description

The Asia Pacific Grid Initiative (APGI) is representing Asian Consortium that aims at ensuring the long-term sustainability of the Asia e-Infrastructure, the continuity and the enhancements of the Asia Virtual Research Communities (VRCs) using it. APGI is coordinated by Academia Sinica Grid Computing Centre (ASGC) and devoted to providing international coordination and collaboration within the region. The partners in APGI cooperate within the region as well as engaging in bi-lateral interactions with partners in Europe (within EGI-InSPIRE) and elsewhere in the world. As the lead partner of APGI, ASGC serves as the liaison between EGI-InSPIRE Project Office and APGI. In addition, ASGC on behalf of APGI participates in the EGI-InSPIRE Project Management Board (PMB) representing the unfunded Asia-Pacific partners. ASGC coordinates the e-Science infrastructure support and user community engagement with all the APGI partners. ASGC is operating the Asia Pacific Regional Operation Centre (APROC) to extend the EGI infrastructure in Asia Pacific region and maximise the e-Infrastructure reliability to support various e-Science user communities. APROC is in charge of site certification and also application environment verification to maintain consistent APGI regional collaboration framework as a whole. ASGC provides both first-line and second-line support to APGI member sites by the APROC framework. The reliable APGI infrastructure is enforced by Operational Level Agreement of each site and APROC services.

#### **Resource Centres**

- Australia
  - O UNIMELB University of Melbourne
    - Australia-ATLAS
- Indonesia
  - o ITB Institut Teknologi Bandung
- Japan
  - o KEK Inter-University Research Institute Corporation High Energy Accelerator Research Organization
    - JP-KEK-CRC-02
- Korea
  - o KISTI Korea Institute of Science and Technology Information
    - KR-KISTI-GCRT-01
    - KR-KISTI-GSDC-01
- Malaysia
  - o UPM Universiti Putra Malaysia
    - MY-UPM-BIRUNI-01
- Philippines
  - o ASTI Advanced Science and Technology Institute
    - PH-ASTI-LIKNAYAN
- Taiwan
  - o ASGC Academia Sinica Grid Computing Centre

10/04/2013 FINAL 10 / 15



- TW-EMI-PPS
- TW-FTT
- TW-eScience
- Taiwan-LCG2
- Thailand
  - o NSTDA National Science and Technology Development Agency
    - No sites to date

**10/04/2013** FINAL 11 / 15



## Annex 3 – Rights and Responsibilities

#### A. GENERAL

- 1. ASGC agrees to adhere to applicable policies and procedures relating to the use of the production infrastructure.
- 2. A Party which makes material, equipment or components available to the other Party, for the purposes of activities under this MoU shall remain the proprietor of such material, equipment or components.
- 3. Each Party shall remain fully responsible for its own activities, including the fulfilment of its obligations under any grant agreement with the European Commission or under any consortium agreement related thereto.

#### B. PERSONNEL

- 1. Each Party shall be solely responsible for any personnel hired to carry out work under this MoU.
- 2. In case personnel employed by one Party temporarily carries out work under this MoU on the premises of another (hereafter referred to as "secondment"), the following provisions shall apply:
- (a) The persons seconded shall be subject to all regulations, including, in particular, safety regulations, applicable on the site of the Party they are seconded to.
- (b) The personnel seconded by a Party to another shall remain employees of the Party having seconded them and such Party, as employer, shall bear exclusive responsibility for the payment of salary and for the procurement of adequate social security and insurance, including third party liability insurance and health insurance.
- (c) Unless otherwise agreed by the Parties concerned, Intellectual Property Rights generated by personnel seconded by a Party to another shall be owned by the Party having seconded such personnel.

## C. INTELECTUAL PROPERTY RIGHTS AND LICENSE

- 1. "Intellectual Property Rights" shall mean all intellectual creations including but not limited to inventions, know-how, layouts, drawings, designs, specifications, computer programs, reports, processes, protocols, calculations and any other matter and protected by intellectual property rights, whether registered or not, including patents, registered designs, copyrights, design rights and all similar proprietary rights and applications for protection thereof.
- 2. Intellectual property rights generated by a Party under this MoU shall be the property of that Party who shall be free to protect, transfer and use such Intellectual Property Rights as it deems fit.
- 3. Notwithstanding the foregoing each Party shall grant the other a non-exclusive royalty free, perpetual license to use the Intellectual Property Rights generated by it under this MoU for use within its project or for the exploitation the results thereof. Such license shall include the right to sublicense the entities involved in the project.

## D. JOINTLY OWNED RESULTS

- 1. Results that were jointly generated by both Parties will be jointly owned by the Parties, hereinafter referred to as ("Jointly Owned Results") and each of the Parties shall be free to use these Jointly Owned Results as it sees fit without owing the other Party any compensation or requiring the consent of the other Party. Each Party, therefore, for example and without limitation, has the transferable right to grant non-exclusive, further transferable licenses under such Jointly Owned Results to third parties. Each Party shall be entitled to disclose such Jointly Owned Results without restrictions unless such Jointly Owned Results contain a Joint Invention in which case no disclosure must be made prior to the filing of a priority application.
- 2. With respect to any joint invention resulting from this MoU (i.e. any invention jointly made by employees of both Parties), the features of which cannot be separately applied for as Intellectual Property Rights and which are eligible for statutory protection requiring an application or registration

**10/04/2013** FINAL 12 / 15



(herein referred to as "Joint Invention"), the Parties shall agree on which Party will carry out any filling as well as any further details with regard to persecuting and maintaining of relevant patent applications.

#### E. PUBLIC RELATIONS

- 1. Any publication by a Party resulting from the activities carried out under this MoU shall be subject to prior agreement of the other Party not be unreasonably withheld.
- 2. The Parties may each release information to the public, provided it is related only to its own part of the activities under this MoU. In cases where the activities of the other Party are concerned prior consultation shall be sought. In all relevant public relations activities, the contribution of each Party related to activities covered by this MoU shall be duly acknowledged.

#### F. CONFIDENTIALITY OF INFORMATION

- 1. The Parties may disclose to each other information that the disclosing Party deems confidential and which is (i) in writing and marked "confidential", or (ii) disclosed orally, and identified as confidential when disclosed, and reduced in writing and marked "confidential" within fifteen (15) days of the oral disclosure (hereafter referred to as "Confidential Information"). Confidential Information shall be held in confidence and shall not be disclosed by the receiving Party to any third party without the prior written consent of the disclosing Party.
- 2. Notwithstanding the foregoing a Party is entitled to disclose Confidential Information which it is required by law to disclose or which, in a lawful manner, it has obtained from a third party without any obligation of confidentiality, or which it has developed independently from any Confidential Information received under this MoU, or which has become public knowledge other than as a result of a breach on its part of these confidentiality provisions.

#### G. LIABILITY

- 1. Each Party shall use reasonable endeavours to ensure the accuracy of any information or materials it supplies to the other Party and of any other contribution it makes hereunder and promptly to correct any error therein of which it is notified. The supplying Party shall be under no obligation or liability other than as stated above and no warranty or representation of any kind is made, given or to be implied as to the sufficiency, accuracy or fitness for a particular purpose of such information, materials or other contribution or as to the absence of any infringement of any proprietary rights of third parties through the possession or use of such information, materials or other contribution. The recipient Party shall be entirely responsible for its use of such information, materials or other contribution and shall hold the other Party free and harmless and indemnify it for any loss or damage with regard thereto.
- 2. Except in case of gross negligence or wilful misconduct, neither Party shall be liable for any indirect or consequential damages of the other Party, including loss of profit or interest, under any legal cause whatsoever and on account of whatsoever reason.

#### H. PARTICIPATION IN SIMILAR ACTIVITIES

1. Parties are not prevented by this MoU from participating and activities similar to those described in this document with third parties. There is no obligation to disclose any similar activity to the other party. However, when considered of mutual benefit, both parties are encouraged to involve the other party in similar activities to the goal of disseminating the knowledge about EGI.eu.

10/04/2013 FINAL 13 / 15



#### Annex 4 – Settlement of Disputes

- 1. All disputes or differences arising in connection with this MoU which cannot be settled amicably shall be finally settled by arbitration in accordance with the procedure specified below which shall be adapted in the light of the number of Parties involved.
- 2. Within thirty (30) calendar days of written notification by a Party to the other Party of its intention to resort to arbitration, the first Party shall appoint an arbitrator. The second Party shall appoint an arbitrator within three (3) months of the appointment of the first arbitrator. The two arbitrators shall, by joint agreement and within ninety (90) calendar days of the appointment of the second arbitrator, appoint a third arbitrator, who shall be the Chairman of the Arbitration Committee.
- 3. If the second Party fails to appoint an arbitrator or the two arbitrators fail to agree on the selection of a third arbitrator, the second or, as the case may be, the third arbitrator, shall be appointed by the President of the Court of Justice of the European Communities.
- 4. Unless otherwise agreed by the Parties concerned within thirty (30) calendar days of the provision of notice referred to in Article 12 above, the arbitration proceedings shall take place in Brussels and shall be conducted in English. The Parties shall within one month of the appointment of the third arbitrator agree on the terms of reference of the Arbitration Committee, including the procedure to be followed.
- 5. The Arbitration Committee shall faithfully apply the terms of this MoU. The Arbitration Committee shall set out in the award the detailed grounds for its decision.
- 6. The award shall be final and binding upon the Parties, who hereby expressly agree to renounce any form of appeal or revision.
- 7. The costs including all reasonable fees expended by the Parties to any arbitration hereunder shall be apportioned by the Arbitration Committee between these Parties.

**10/04/2013** FINAL 14 / 15



## Annex 5 – Detailed Contact List

Role	EGI.eu	Collaborating Organisations
Signing Authority	Director	ASGC Project Director
	Steven Newhouse	Simon C. Lin
	steven.newhouse@egi.eu	Simon.Lin@twgrid.org
MoU Contact Point	Strategy and Policy Manager	Operation Manager
	Sergio Andreozzi	Eric Yen
	sergio.andreozzi@egi.eu	Eric.Yen@twgrid.org
User support	Chief Operations Officer	Application manager
	Tiziana Ferrari	Hsin-Yen Chen
	tiziana.ferrari@egi.eu	hychen@twgrid.org
Infrastructure Operations	Chief Operations Officer	Operation Manager
	Tiziana Ferrari	Eric Yen
	tiziana.ferrari@egi.eu	Eric.Yen@twgrid.org
Technical Coordination	Technical Manager	Operation Manager
	Michel Drescher	Eric Yen
	michel.drescher@egi.eu	Eric.Yen@twgrid.org
Dissemination	Deputy Director	Dissemination Deputy
	Catherine Gater	Vicky Huang
	catherine.gater@egi.eu	vic@twgrid.org

These contact points may be the same person. The EGI.eu Strategy and Policy Team (policy@egi.eu) is to be notified regarding any changes to the contact list.

**10/04/2013** FINAL 15 / 15