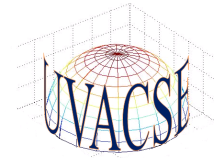




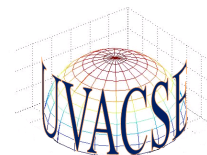
**Memorandum of Understanding
between
EGI.eu and UVACSE**



**Memorandum of Understanding between
EGI.eu and the University of Virginia Alliance for
Computational Science and Engineering (UVACSE)**



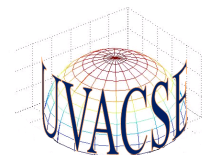
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BACKGROUND

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: 1) operates a secure integrated production grid infrastructure that seamlessly federates resources from providers around Europe; 2) coordinates the support of the research communities using the European infrastructure coordinated by EGI.eu; 3) works with software providers within Europe and worldwide to provide high-quality innovative software solutions that deliver the capability required by our user communities; 4) ensures 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 University of Virginia Alliance for Computational Science and Engineering project (hereafter referred to as “UVACSE”) is a unit of the University of Virginia (UVA), public research university located in Charlottesville, Virginia. Established in 2008, the UVACSE serves researchers through education, consultation, and the management of shared compute resources. UVACSE’s goals are to: 1) change the culture of computation at UVA via education, outreach, and curriculum development and support; 2) assist UVA researchers by offering free consultations for issues related to computationally-intensive research (Tiger Teams); 3) serve as a state-wide resource for high performance computing; 4) foster a multi-disciplinary ethos; 5) assist the UVA at large in planning, managing, and acquiring computational resources. A summary of UVACSE is attached as Annex 2.

ARTICLE 1: PURPOSE

The purpose of this Memorandum of Understanding (MoU) is to define a framework of collaboration between EGI.eu and UVACSE (hereafter also referred to as “the Party” or the “Parties”) for which to carry out the activities defined in Article 3. The Parties recognise, by this MoU, the opening of a wider and longer-term cooperation in activities, which will bring visible benefits.

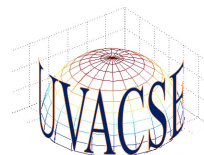
ARTICLE 2: DEFINITIONS

For the purpose of this¹ MoU a few definitions are provided below for clarity:

- **EGI-InSPIRE:** A four-year project, co-funded by the European Commission’s 7th Framework Programme (contract number: RI-261323), helping to establish a sustainable, reliable e-Infrastructure that can support researchers’ needs for large-scale data analysis.
- **Genesis-II:** open source, standards-based grid middleware designed to support high-throughput computing and secure data sharing developed by the University of Virginia Department of Computer Science and the Virginia Center for Grid Research (Further information in Annex 2).
- **Service Level Agreement:** An agreement between an IT Service Provider and a Client. The SLA describes the IT Service, documents Service Level Targets and specifies the responsibilities of the IT Service Provider and the Customer. A single SLA may cover multiple IT Services or multiple Customers.
- **Tiger Team:** a group of experts assigned to investigate and/or solve technical or systemic problems.
- **XSEDE:** A five-year, \$121-million project supported by the National Science Foundation. It replaces and expands on the NSF TeraGrid project. It is an advanced, powerful, and robust collection of integrated advanced digital resources and services. It is a single virtual system that scientists can use to interactively share computing resources, data, and expertise.



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ARTICLE 3: JOINT WORK PLAN

The parties contribute to enable the vision of providing European scientists and their international collaborators with sustainable distributed computing services to support their work. In this broad context, the specific goals of the collaborations are to:

- Provide robust, well-designed, user-centric software and components around Genesis-II middleware for integration within EGI and use by its scientific user communities.
- Define and monitor an SLA that also includes third-level support for incidents and requests.
- Accelerate the development of standard related issues within production grid infrastructures.
- Disseminate the results of this collaboration within the remit of each organisation's communication and outreach activities.
- Exchange ideas and collaborate towards sustainability models and alignment around the provided technology.
- Collaborate in the development of business relationships.

The specific activities to be carried out in the framework of the collaboration are¹:

A.1 User and operation-centric middleware

Parties Involved: EGI.eu (Michel Drescher); UVACSE (Andrew Grimshaw)

Description of work: Evolve middleware components based on requirements gathered through EGI.eu and UVACSE within the various EGI scientific communities and expressed through the EGI technical roadmaps, with particular focus on finding a common strategy in the setup and deployment of tools for service monitoring and management. UVACSE software will be subject to the Software Provisioning conducted by the EGI-InSPIRE SA2 activity. Further details are defined in the SLA.

Expected outcome:

- M1.1: Input from UVACSE to the regular revisions of the EGI Technical Roadmap (D2.31/33/35).
- Participation of UVACSE in the regular requirements gathering activities undertaken by EGI through the Technical Coordination Board (TCB). The TCB meets telephonically every 4-6 weeks with face-to-face meetings taking place approximately once a quarter.

A.2 Standards

Parties Involved: EGI.eu (Sergio Andreozzi, Michel Drescher), UVACSE (Andrew Grimshaw, Mike Saravo)

Description of work: Contribute to steering and advancing high-priority standards as identified in the EGI Technical Roadmap and in the XSEDE roadmap.

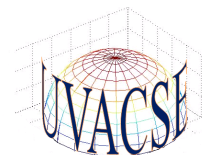
Expected outcome:

- M2.1: Define a prioritised list of relevant standards and a roadmap for their adoption within EGI. The output should be part of M1.1 and updated accordingly.
- M2.2: EGI.eu provides feedback and contributions to the XSEDE roadmap where required.
- M2.3: Produce a plan for the release of software components supporting standards-based interfaces and their deployment into production.

¹ Party leading the activity is underlined.



Memorandum of Understanding between EGI.eu and UVACSE



A.3 Operational Support

Parties Involved: EGI.eu (Tiziana Ferrari), UVACSE (Mike Saravo, Vanamala Venkataswamy)

Description of work: Establish and monitor an agreed SLA. Third-level user support will be provided for incidents and requests according to the established SLA.

Expected outcome:

- M3.1: Establish and sign an SLA, which includes third-level incident support, definition of general user support requests, and the delivery of any software for inclusion in the UMD to the specified requirements. The SLA is to be reviewed annually.

A.4 Dissemination

Parties Involved: EGI.eu (Catherine Gater), UVACSE (Gina Corell)

Description of work: Disseminate the progress and results of the collaboration within EGI and UVACSE communities.

Expected outcome:

- M4.1: Advertise the start of the collaboration in each party's website with a dedicated static page, article and/or press release.
- M4.2: Annual dissemination of progress and results of the collaboration (e.g. presentation at EGI and XSEDE events, joint press release/article, contribution to project annual reports).

A.5 Sustainability Models

Parties Involved: EGI.eu (Sergio Andreozzi), UVACSE (Andrew Grimshaw)

Description of work: Through work supported by the EGI-InSPIRE project, which explores how the EGI ecosystem can ensure sustainability of services, this activity may include comparing sustainability strategies, ensuring alignment around the provided technology, better understanding of who uses the technology and opportunities for engaging business partners.

Expected outcome:

- M5.1: Sustainability information documented and updated annually for inclusion in EGI's strategic reports.

A.6 Training

Parties Involved: EGI.eu (Steve Brewer, Gergely Sipos), UVACSE (Gina Corell)

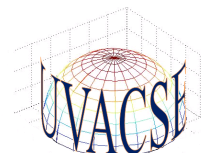
Description of work: Develop a complementary training strategy that focuses on middleware installation, configuration and usage. This activity will help users to know how to install and configure middleware for when they want to use it. Trainings will also focus on community aspects where users want to develop software on top of the middleware. Training for middleware service verification (in EGI-InSPIRE SA2) will include setting up the software provisioning interactions, installation and verification.

Expected outcome:

- M6.1: Defined plan for training sessions by UVACSE for EGI and NGI trainers at EGI major events (e.g. Community Forums - Spring, Technical Forums – Autumn) as well as defined training opportunities for EGI at XSEDE annual conferences.
- M6.2: Defined plan for providing online training modules and training materials (e.g. EGI Training Marketplace).



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ARTICLE 4: TIMELINE AND REPORTING

The EGI.eu Strategy & Policy Team will coordinate the periodic review of the progress of the activities defined in **Article 3** (Joint Work Plan), follow-up the milestones defined below and distribute reports to both Parties. Special meetings between the points of contact designated under **Article 5** (Communication) shall be held, as often as necessary, to examine the progress in the implementing of this Agreement.

Date ²	Activity	Additional Information
07/2012	M4.1	Advertise the start of the collaboration (e.g. dedicated static page, article and/or press release).
09/2012	M3.1	Sign an SLA.
09/2012	M2.2	EGI.eu provides standards related feedback and contributions to the XSEDE roadmap where required.
09/2012	M2.3	Plan for the release of software components supporting standards-based interfaces and their deployment into production.
09/2012	M6.1	Plan for training sessions by UVACSE at EGI major events and training opportunities for EGI at XSEDE annual conferences.
10/2012	M6.2	Plan for providing online training modules and training materials (e.g. EGI Training Marketplace).
02/2013	M1.1	Input from UVACSE to the EGI Technical Roadmap (D2.33).
02/2013	M2.1	A prioritised list of relevant standards and a roadmap for their adoption within EGI. The output should be part of M1.1 update.
02/2013	M5.1	Sustainability activities and related information documented EGI's Strategic reports.
06/2013	M4.2 (update)	Summary of the visibility/publications regarding the progress and/or results of the collaboration.
09/2013	M3.1 (update)	Revise the SLA.
02/2014	M1.1 (update)	Input from UVACSE to the EGI Technical Roadmap (D2.35)
02/2014	M2.1 (update)	A prioritised list of relevant standards and a roadmap for their adoption within EGI. The output should be part of M1.1 update.
02/2014	M5.1 (update)	Sustainability activities and related information documented EGI's strategic reports.
06/2014	M4.2 (update)	Final summary of the visibility/publications regarding the progress and/or results of the collaboration.

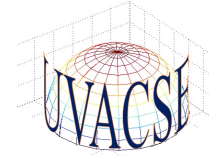
ARTICLE 5: COMMUNICATION

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.

² If not specified, the deadline is the last working day of the month



Memorandum of Understanding between EGI.eu and UVACSE



UVACSE agrees to name a technical representative (with deputy) for the EGI.eu Technology Coordination Board (TCB): Andrew Grimshaw (lead), Mike Saravo (deputy).

UVACSE agrees to name a technical representative (with deputy) for the EGI.eu Security Coordination Group (SCG): Mike Saravo (lead), Sal Valente (deputy)

UVACSE agrees to regularly attend the meetings of EGI.eu TCB and SCG as observer. UVACSE will become a voting member in both groups after signing the SLA.

Joint working groups may be established to examine in detail proposals in areas assigned to them by the Parties referred to in Article 3 (Joint Work Plan) and to make recommendations to the Parties.

Each Party shall designate a “point of contact” that shall 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: Sergio Andreozzi (sergio.andreozzi@egi.eu), EGI.eu Strategy and Policy Manager

UVACSE: Andrew Grimshaw (grimshaw@virginia.edu), UVACSE Director and XSEDE Chief Architect

Questions of principle or problems that cannot be solved at primary contact level are escalated to the EGI.eu Director and the UVACSE Director.

ARTICLE 6: RIGHTS AND RESPONSIBILITIES

The procedure is set out in Annex 3.

ARTICLE 7: 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.

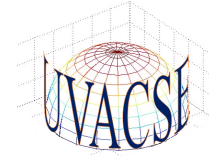
The Parties' obligations hereunder are subject to their respective funding procedures and the availability of appropriated funds. Should either Party encounter budgetary problems in the course of its respective internal procedures that may affect the activities carried out under this MoU, that Party 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.

ARTICLE 8: ENTRY INTO FORCE, DURATION AND TERMINATION



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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 3 (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 9: 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 10: ANNEXES

Annex 1 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 9 (Amendments).

ARTICLE 11: LANGUAGE

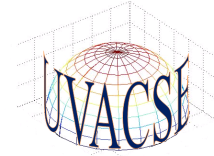
The language for this MoU, its interpretation and all cooperative activities foreseen for its implementation, is English.

ARTICLE 12: 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.



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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

Dr. Andrew Grimshaw
UVACSE Director

17/7/2012

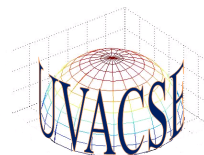
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Memorandum of Understanding between EGI.eu and UVACSE



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 foundation established under Dutch law) is to create and maintain a pan-European Grid Infrastructure in collaboration with National Grid Initiatives (NGIs) 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:

- Operate a secure integrated production grid infrastructure that seamlessly federates resources from providers around Europe
- Coordinate the support of the research communities using the European infrastructure coordinated by EGI.eu
- Work with software providers within Europe and worldwide to provide high-quality innovative software solutions that deliver the capability required by our user communities
- Ensure the development of EGI.eu through the coordination and participation in collaborative research projects that bring innovation to European Distributed Computing Infrastructures (DCIs)

The EGI.eu is supporting ‘grids’ of high-performance computing (HPC) and high-throughput computing (HTC) resources. EGI.eu will also be 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.

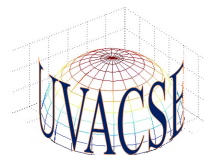
EGI will collect user requirements and provide support for the current and emerging user communities. Support will also be given to the current heavy users of the infrastructure, such as high energy physics, computational chemistry and life sciences, as they move their critical services and tools from 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.



Memorandum of Understanding between EGI.eu and UVACSE



Annex 2 UVACSE Description

Established in 2008, The University of Virginia Alliance for Computational Science and Engineering seeks to transform computational research across Grounds. As the need for computational techniques in all disciplines increases, UVACSE serves researchers through education, and the management of shared compute resources.

UVACSE Goals

- Change the culture of computation at UVA via education, outreach, and curriculum development and support
- Assist UVA researchers by offering free consultations for issues related to computationally-intensive research (Tiger Teams)
- Serve as a state-wide resource for high performance computing
- Foster a multi-disciplinary ethos
- Assist ITS and UVA at large in planning, managing, and acquiring computational resources
- Rationalize high-end computing

Genesis II Middleware

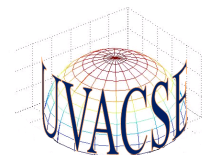
Developed at UVA, Genesis II is an open source, standards based grid platform designed to support both high-throughput computing and secure data sharing. The features of the Genesis II platform are designed with two communities in mind:

- *User Community.* The Genesis II Project is intended to provide the grid user community with free, easy-to-use tools to exploit grid technology to fulfill their computation and data management needs. The platform is designed to support a wide range of potential application domains from simple data sharing to multi-platform, multi-organizational high-throughput computing.
- *Research Community.* The Genesis II platform is an interoperable (via adherence to community standards), freely available, and flexible platform for developing and evaluating new grid technologies and models. Genesis II serves to vet and validate the standardization efforts within the OGF and OGSA standards communities. Grid research is a dynamic field of study, and many challenges remain. Particular areas that we focus on are data access, security (confidentiality, data integrity, access control, policy negotiation), dependability (availability, SLA's, policy languages), and grid standards.

The UVACSE Director, Dr. Grimshaw, is the co-architect of XSEDE (Extreme Science and Engineering Discovery Environment). XSEDE is the replacement for the TeraGrid project that started more than a decade ago. The XSEDE architecture includes the extensive use of standard protocols including the use of Genesis II implementations of standards to realize both the Global Federated File System (GFFS) and the XSEDE grid queue.



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Annex 3 Rights and Responsibilities

A. GENERAL

1. UVACSE 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. INTELLECTUAL PROPERTY RIGHTS AND LICENSE

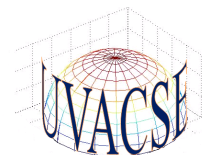
1. "Intellectual Property Rights" shall mean all intellectual creations including but not limited to inventions, know-how, layouts, drawings, designs, specifications, computer programs, reports, processes, protocols, calculations and any other matter and protected by intellectual property rights, whether 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



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Property Rights and which are eligible for statutory protection requiring an application or registration (herein referred to as “Joint Invention”), the Parties shall agree on which Party will carry out any filing 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. 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

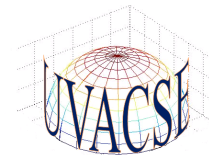
1. Each Party shall use reasonable endeavours to ensure the accuracy of any information or materials it supplies to the other Party and of any other contribution it makes hereunder and promptly to correct any error therein of which it is notified. The supplying Party shall be under no obligation or liability 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.



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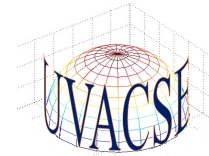


Annex 4 Settlement of Disputes

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.



**Memorandum of Understanding
between
EGI.eu and UVACSE**



Annex 5 Full and Detailed Contact List

Role	EGI.eu	Technology Provider
Coordinator	EGI.eu Director Steven Newhouse steven.newhouse@egi.eu	UVACSE Director Andrew Grimshaw grimshaw@cs.virginia.edu
Standards/Policy	EGI.eu Strategy and Policy Manager Sergio Andreozzi sergio.andreozzi@egi.eu	Lead developer Mike Saravo, mts5x@virginia.edu
Training	EGI.eu Chief Community Officer Steve Brewer steve.brewer@egi.eu Technical Outreach Manager Gergely Sipos gergely.sipos@egi.eu	Communications Gina Corell corell@virginia.edu
Operations/Security	EGI.eu Chief Operations Officer Tiziana Ferrari tiziana.ferrari@egi.eu	Lead developer Mike Saravo mts5x@virginia.edu XCG operations Vanamala Venkataswamy Vv3xu@virginia.edu Graduate student Sal Valente sv9wn@virginia.edu
Technical Coordination	EGI.eu Technical Manager Michel Drescher michel.drescher@egi.eu	UVACSE Director Andrew Grimshaw grimshaw@cs.virginia.edu
Dissemination/Outreach	EGI.eu Dissemination Manager Catherine Gater catherine.gater@egi.eu	Communications Gina Corell corell@virginia.edu

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.