**EGI-InSPIRE**

**QUARTERLY REPORT QR14**

**EU MILESTONE: MS128**

|  |  |
| --- | --- |
| Document identifier: |  |
| Date: | 18/01/2012 |
| Activity: | **NA1** |
| Lead Partner: | **EGI.eu** |
| Document Status: | **FINAL** |
| Dissemination Level: | **PUBLIC** |
| Document Link: | https://documents.egi.eu/document/513 |

Abstract

Report describing the EGI-InSPIRE project’s activities from 1st August 2013 to 31st October 2013.

1. Copyright notice

Copyright © Members of the EGI-InSPIRE Collaboration, 2010-2014. See [www.egi.eu](http://www.egi.eu) for details of the EGI-InSPIRE project and the collaboration. EGI-InSPIRE (“European Grid Initiative: Integrated Sustainable Pan-European Infrastructure for Researchers in Europe”) is a project co-funded by the European Commission as an Integrated Infrastructure Initiative within the 7th Framework Programme. EGI-InSPIRE began in May 2010 and will run for 4 years. This work is licensed under the Creative Commons Attribution-Noncommercial 3.0 License. To view a copy of this license, visit <http://creativecommons.org/licenses/by-nc/3.0/> or send a letter to Creative Commons, 171 Second Street, Suite 300, San Francisco, California, 94105, and USA. The work must be attributed by attaching the following reference to the copied elements: “Copyright © Members of the EGI-InSPIRE Collaboration, 2010-2014. See [www.egi.eu](http://www.egi.eu) for details of the EGI-InSPIRE project and the collaboration”. Using this document in a way and/or for purposes not foreseen in the license, requires the prior written permission of the copyright holders. The information contained in this document represents the views of the copyright holders as of the date such views are published.

1. Delivery Slip

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Name** | **Partner/Activity** | **Date** |
| **From** | <<The lead author/editor>> |  |  |
| **Reviewed by** | **Moderator:**  **Reviewers:** |  |  |
| **Approved by** | **AMB & PMB** |  |  |

1. Document Log

|  |  |  |  |
| --- | --- | --- | --- |
| **Issue** | **Date** | **Comment** | **Author/Partner** |
| 1 |  | First draft |  |
| 2 |  |  |  |
| 3 |  |  |  |

1. Application area

This document is a formal deliverable for the European Commission, applicable to all members of the EGI-InSPIRE project, beneficiaries and Joint Research Unit members, as well as its collaborating projects.

1. Document amendment procedure

Amendments, comments and suggestions should be sent to the authors. The procedures documented in the EGI-InSPIRE “Document Management Procedure” will be followed:  
<https://wiki.egi.eu/wiki/Procedures>

1. Terminology

A complete project glossary is provided at the following page: <http://www.egi.eu/about/glossary/>.

1. PROJECT SUMMARY

To support science and innovation, a lasting operational model for e-Science is needed − both for coordinating the infrastructure and for delivering integrated services that cross national borders. The EGI-InSPIRE project will support the transition from a project-based system to a sustainable pan-European e-Infrastructure, by supporting ‘grids’ of high-performance computing (HPC) and high-throughput computing (HTC) resources. EGI-InSPIRE will also be ideally placed to integrate new Distributed Computing Infrastructures (DCIs) such as clouds, supercomputing networks and desktop grids, to benefit user communities within the European Research Area.

EGI-InSPIRE will collect user requirements and provide support for the current and potential new user communities, for example within the ESFRI projects. Additional 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 objectives of the project are:

1. The continued operation and expansion of today’s production infrastructure by transitioning to a governance model and operational infrastructure that can be increasingly sustained outside of specific project funding.
2. The continued support of researchers within Europe and their international collaborators that are using the current production infrastructure.
3. The support for current heavy users of the infrastructure in earth science, astronomy and astrophysics, fusion, computational chemistry and materials science technology, life sciences and high energy physics as they move to sustainable support models for their own communities.
4. Interfaces that expand access to new user communities including new potential heavy users of the infrastructure from the ESFRI projects.
5. Mechanisms to integrate existing infrastructure providers in Europe and around the world into the production infrastructure, so as to provide transparent access to all authorised users.
6. Establish processes and procedures to allow the integration of new DCI technologies (e.g. clouds, volunteer desktop grids) and heterogeneous resources (e.g. HTC and HPC) into a seamless production infrastructure as they mature and demonstrate value to the EGI community.

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-InSPIRE, 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 (VRCs) − structured international user communities − that are grouped into specific research domains. VRCs are formally represented within EGI at both a technical and strategic level.

1. EXECUTIVE SUMMARY

The document structure is describes the overall Quarterly Report (QR) sent to the European Commission (EC). The QR is structured around the different work packages within the project and the different activities within them (national operations & user support, European wide coordination, domain specific support, etc.). **The completed documents from each Activity will then be assembled into a complete report by the Project Office (PO).** For each section we will indicate who will provide the required information. The AMs (Activity Managers) should complete their relevant sections with input from the ROCs/NGIs/Partners as required.

The schedule is described below with reference to days after the end of the quarter and is different from the normal deliverable/milestone review schedule:

* Day + 10: All activities to provide their contributions to the QR using this template.
* Day + 20: The contributions will be assembled and edited by the PO. Issues requiring clarification will be identified and communicated to the AMs.
* Day + 25: PO circulates a final version to the AMB for review with an Executive Summary and having had responses from the AMs to the clarifications.
* Day + 30: Submit to EC.

**Table of contents**

1. Introduction 8

2. Operations 9

2.1. Summary 9

2.2. Main achievements 9

2.2.1. Security 9

2.2.2. Service Deployment and Integration 9

2.2.3. Help desk & Support Activities 9

2.2.4. Infrastructure Services 9

2.2.5. Tool Maintenance and Development 9

2.3. Issues and Mitigation 9

2.3.1. Issue 1 9

2.3.2. Issue n 9

2.4. Plans for the next period 9

2.4.1. Operations 9

2.4.2. Tool Maintenance and Development 9

2.5. NGI Reports 10

3. Software Provisioning 11

3.1. Summary 11

3.2. Main Achievements 11

3.2.1. Quality Criteria 11

3.2.2. Criteria Verification 11

3.2.3. Deployed Middleware Support Unit 11

3.2.4. Support Infrastructure 11

3.3. Issues and Mitigation 11

3.3.1. Issue 1 11

3.3.2. Issue n 11

3.4. Plans for the next period 11

4. Community Engagement 12

4.1. Summary 12

4.2. Main Achievements 12

4.2.1. Marketing & Communication 12

4.2.2. Strategic Planning & Policy Support 12

4.2.3. Community Outreach 12

4.2.4. Technical Outreach to New Communities 12

4.2.5. Community Activity 12

4.3. Issues and mitigation 12

4.3.1. Issue 1 12

4.3.2. Issue n 12

4.4. Plans for the next period 12

5. Accelerating EGI’s H2020 Goals (“mini projects”) 13

5.1. Summary 13

5.2. Main Achievements 13

5.2.1. Work package Management 13

5.2.2. Massive Open Online Course Development 13

5.2.3. Evaluation of Liferay Modules 13

5.2.4. Providing OCCI support for arbitrary Cloud Management Frameworks 13

5.2.5. CDMI Support in Cloud Management Frameworks 13

5.2.6. Dynamic Deployments for OCCI Compliant Clouds 13

5.2.7. Automatic Deployments and Execution of Applications using Cloud Services 13

5.2.8. Transforming Scientific Research Platforms to Exploit Cloud Capacity 13

5.2.9. VO Administration and operations PORtal (VAPOR) 13

5.2.10. A new approach to Computing Availability and Reliability Reports 13

5.2.11. GOCDB Scoping Extensions and Management Interface 13

5.2.12. Tools for automating applying for and allocating federated resources 14

5.3. Issues and mitigation 14

5.3.1. Issue 1 14

5.3.2. Issue n 14

5.4. Plans for the next period 14

6. Consortium Management 15

6.1. Summary 15

6.2. Main Achievements 15

6.2.1. Project Management 15

6.2.2. Milestones and Deliverables 15

6.2.3. Consumption of Effort 15

6.2.4. Overall Financial Status 15

6.3. Issues and mitigation 15

6.3.1. Deviations for linear plan 16

6.3.2. Issue n 16

6.4. Plans for the next period 16

7. Project Metrics 17

7.1. Overall metrics 17

7.2. Activity metrics 17

8. ANNEX A1: Dissemination and Use 18

8.1. Main Project and Activity Meetings 18

8.2. Conferences/Workshops Organised 18

8.3. Other Conferences/Workshops Attended 19

8.4. Publications 19

9. ANNEX A2: Operations Report – Applicable to SA1 Only 20

10. References 21

# Introduction

*Completed by the PO by editing the introductions provided by each AM.*

# Operations

## Summary

*Please provide a short summary of the Operations’ progress globally over the last quarter. It will be included in the Executive Summary.*

## Main achievements

*This is a more detailed account of progress over the previous quarter, can be by task. Drawn up by the SA1 & JRA1 AMs based on NOC/ROC input in Annex A2.*

### Security

*TSA1.2*

### Service Deployment and Integration

*TSA1.3*

### Help desk & Support Activities

*TSA1.6 & TSA1.7* ***including highlights from both the NGI Operations and User Support Teams****.*

### Infrastructure Services

*TSA1.4, TSA1.5 & TSA1.8*

### Tool Maintenance and Development

*Report by the JRA1 AM. Sub-section for each tool.*

## Issues and Mitigation

*Summarised by the SA1 AM from the ROC ‘Issues and Mitigation’ sections and the JRA1 AM.*

*Please provide corrective actions taken for each issue reported and provide updates from unresolved issues from the previous QR.*

### Issue 1

### Issue n

## Plans for the next period

### Operations

*Summarised by the SA1 AM from the ROC ‘Plans’ sections.*

### Tool Maintenance and Development

*Summarised by the JRA1 AM.*

## NGI Reports

# Software Provisioning

## Summary

*Provide a short summary of the software provisioning activity over the last quarter. It will be included in the Executive Summary.*

## Main Achievements

### Quality Criteria

*Relating to TSA2.2 collected by the SA2 AM.*

### Criteria Verification

*Relating to TSA2.3 collected by the SA2 AM.*

### Deployed Middleware Support Unit

*Relating to TSA2.5 collected by the SA2 AM and describing the work undertaken for each middleware deployed in the infrastructure.*

### Support Infrastructure

*Relating to TSA2.4 specifically to the software repository, but also information non the general tools and services provided to support the project. Collected by the SA2 AM.*

## Issues and Mitigation

*Summarised by the SA2 AM.*

*Provide corrective actions taken for each issue reported and provide updates from unresolved issues from the previous QR.*

### Issue 1

### Issue n

## Plans for the next period

*Plans for the next quarter, summarised by the SA2 AM.*

# Community Engagement

## Summary

*Brief overview of the last quarter for marketing & communications, strategy & policy, community outreach and engagement to new communities.*

*Summarised by the NA2 AM.*

## Main Achievements

### Marketing & Communication

*Work undertaken by TNA2.2 from each partner.*

### Strategic Planning & Policy Support

*Work undertaken by TNA2.3 from each partner.*

### Community Outreach

*Work undertaken by TNA2.4 from each partner.*

### Technical Outreach to New Communities

*Work undertaken by TNA2.5 from each partner.*

### Community Activity

*Work undertaken by the virtual teams active during the last project quarter. Each VT provides a summary of their activity.*

## Issues and mitigation

*Summarised by the NA2 AM.*

*Provide corrective actions taken for each issue reported and provide updates from unresolved issues from the previous QR.*

### Issue 1

### Issue n

## Plans for the next period

*Plans for the coming quarter. Summarised by the SA2 AM based on input from each partner.*

# Accelerating EGI’s H2020 Goals (“mini projects”)

## Summary

*Brief overview of the last quarter the EGI mini projects.*

*Summarised by the SA4 AM.*

## Main Achievements

### Work package Management

*Work undertaken by TSA4.1 from each partner.*

### Massive Open Online Course Development

*Work undertaken by TSA4.2 from each partner.*

### Evaluation of Liferay Modules

*Work undertaken by TSA4.3 from each partner.*

### Providing OCCI support for arbitrary Cloud Management Frameworks

*Work undertaken by TSA4.4 from each partner.*

### CDMI Support in Cloud Management Frameworks

*Work undertaken by TSA4.5 from each partner.*

### Dynamic Deployments for OCCI Compliant Clouds

*Work undertaken by TSA4.6 from each partner.*

### Automatic Deployments and Execution of Applications using Cloud Services

*Work undertaken by TSA4.7 from each partner.*

### Transforming Scientific Research Platforms to Exploit Cloud Capacity

*Work undertaken by TSA4.8 from each partner.*

### VO Administration and operations PORtal (VAPOR)

*Work undertaken by TSA4.9 from each partner.*

### A new approach to Computing Availability and Reliability Reports

*Work undertaken by TSA4.10 from each partner.*

### GOCDB Scoping Extensions and Management Interface

*Work undertaken by TSA4.11 from each partner.*

### Tools for automating applying for and allocating federated resources

*Work undertaken by TSA4.12 from each partner.*

## Issues and mitigation

*Summarised by the SA4 AM.*

*Provide corrective actions taken for each issue reported and provide updates from unresolved issues from the previous QR.*

### Issue 1

### Issue n

## Plans for the next period

*Plans for the coming quarter. Summarised by the SA2 AM based on input from each partner.*

# Consortium Management

## Summary

*Provided by the PO.*

## Main Achievements

### Project Management

*Provided by the PO.*

### Milestones and Deliverables

*Provided by the PO relating to the deliverables and milestones from the reporting period.*

| Id | Activity No | Deliverable / Milestone title | Nature (\*\*\*) | Lead partner | OriginalDelivery date(\*)[[1]](#footnote-1) | Revised delivery date(\*) | Status  (\*\*) |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

### Consumption of Effort

*Provided by the PO from the timesheet tool. AMs will be asked to provide responses to effort consumption that is significantly above or below plans.*

### Overall Financial Status

*Provided by the PO from the partner cost claims. Partners will be asked to provide responses to financial consumption that is significantly above or below plans.*

## Issues and mitigation

*Provided by the PO.*

### Deviations for linear plan

### Issue n

## Plans for the next period

*Provided by the PO.*

# Project Metrics

## Overall metrics

*Each activity should place their contribution to the overall project metrics here*

## Activity metrics

*Each activity should place their activity specific metrics here*

# ANNEX A1: Dissemination and Use

*Note: Complete the information requested here. It will be provided on a public web page for access and kept separate from the final deliverable submitted to the commission*

*GENERAL GUIDELINES FOR ALL EVENTS REPORTED IN THE FOLLOWING SECTIONS:*

*-please do not provide a list of participants, only give the number of people that attended*

*-for outcome, please list tangible agreements, decisions instead of listing program points or presentations you made. Otherwise put: “-“*

*-include your local events only if there was any EGI-related topic on the agenda*

*-provide an indico URL to your presentation (if available) or to the event itself.*

*If your presentation is not available online, please send the slides to erika.swiderski@egi.eu.*

## Main Project and Activity Meetings

*Provided by each partner in each Activity and assembled by the AM. Regular internal management meetings within the activity do not need to be reported. Training events will be recorded in the training event registry and need not be mentioned here.*

| **Date** | **Location** | **Title** | **Participants** | **Outcome (Short report & Indico URL)** |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

## Conferences/Workshops Organised

*Provided by each partner in each Activity and assembled by the AM*

| **Date** | **Location** | **Title** | **Participants** | **Outcome (Short report & Indico URL)** |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

* 1. Other Conferences/Workshops Attended

*Provided by each partner in each Activity and assembled by the AM.*

| **Date** | **Location** | **Title** | **Participants** | **Outcome (Short report & Document Server URL to presentations made)** |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

* 1. Publications

*Provided by each partner in each Activity and assembled by the AM (This should be detailed in the specifics QRs)*

*List all publications as bullet points, detailing: Publication title, author(s), journal title, number/issue, date.*

*Also mention any articles published further to interviews given by members of your activity.*

| **Publication title** | **Journal / Proceedings title** | **DOI code** | **Journal references**  *Volume number*  *Issue*  *Pages from - to* | **Authors**  *Initials* | **Authors**  *Surname* |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

# ANNEX A2: Operations Report – Applicable to SA1 Only

*Find it in a separate file.*

# References

|  |  |
| --- | --- |
| R 1 |  |
| R 2 |  |
| R 3 |  |
| R 4 |  |
| R 5 |  |

1. *(\*) Dates are expressed in project month (1 to 48).*

   *(\*\*) Status = Not started – In preparation – Pending internal review – PMB approved*

   *(\*\*\*) Nature =* ***R*** *= Report* ***P*** *= Prototype* ***D*** *= Demonstrator* ***O*** *= Other, Deliverable id: for Milestone attached to a deliverable* [↑](#footnote-ref-1)