**EGI-InSPIRE**

**QUARTERLY REPORT QR**

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Abstract

Report describing the EGI-InSPIRE project’s activities from …..

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1. Delivery Slip

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| **From** | <<The lead author/editor>> |  |  |
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| **Approved by** | **AMB & PMB** |  |  |

1. Document Log

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| **Issue** | **Date** | **Comment** | **Author/Partner** |
| 1 |  | First draft |  |
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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

This section provides a combined ‘Introduction’ and ‘Executive Summary’ in one. It will both capture the essence of the rest of the report (to be done by the person compiling the various inputs) and will offer the Director’s overview of work accomplished and yet to be done (to be added personally by the Director during final editing).

The Director EGI InSPIRE in coordination with the AMB will designate those responsible for individual sections of the Report and will nominate the person who will compile the various contributions into a single cohesive report.

* The AMs (Activity Managers) are to complete their relevant sections with input from the ROCs/NGIs/Partners as required.
* The task of compiling the report from inputs provided by Activity Managers is an administrative function.

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.).

A time table for preparation of the QR 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. Operations 8

1.1. Summary 8

1.2. Main achievements 8

1.2.1. Security 8

1.2.2. Service Deployment and Integration 8

1.2.3. Help desk & Support Activities 8

1.2.4. Infrastructure Services 8

1.2.5. Tool Maintenance and Development 8

1.3. Issues and Mitigation 8

1.3.1. Issue 1 8

1.3.2. Issue n 8

1.4. Plans for the next period 8

1.4.1. Operations 8

1.4.2. Tool Maintenance and Development 8

1.5. NGI Reports 9

2. Software Provisioning 10

2.1. Summary 10

2.2. Main Achievements 10

2.2.1. Quality Criteria 10

2.2.2. Criteria Verification 10

2.2.3. Deployed Middleware Support Unit 10

2.2.4. Support Infrastructure 10

2.3. Issues and Mitigation 10

2.3.1. Issue 1 10

2.3.2. Issue n 10

2.4. Plans for the next period 10

3. Community Engagement 11

3.1. Summary 11

3.2. Main Achievements 11

3.2.1. Marketing & Communication 11

3.2.2. Strategic Planning & Policy Support 11

3.2.3. Community Outreach 11

3.2.4. Technical Outreach to New Communities 11

3.2.5. Community Activity 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. Accelerating EGI’s H2020 Goals (“mini projects”) 12

4.1. Summary 12

4.2. Main Achievements 12

4.2.1. Work package Management 12

4.2.2. Massive Open Online Course Development 12

4.2.3. Evaluation of Liferay Modules 12

4.2.4. Providing OCCI support for arbitrary Cloud Management Frameworks 12

4.2.5. CDMI Support in Cloud Management Frameworks 12

4.2.6. Dynamic Deployments for OCCI Compliant Clouds 12

4.2.7. Automatic Deployments and Execution of Applications using Cloud Services 12

4.2.8. Transforming Scientific Research Platforms to Exploit Cloud Capacity 12

4.2.9. VO Administration and operations PORtal (VAPOR) 12

4.2.10. A new approach to Computing Availability and Reliability Reports 12

4.2.11. GOCDB Scoping Extensions and Management Interface 12

4.2.12. Tools for automating applying for and allocating federated resources 13

4.3. Issues and mitigation 13

4.3.1. Issue 1 13

4.3.2. Issue n 13

4.4. Plans for the next period 13

5. Consortium Management 14

5.1. Summary 14

5.2. Main Achievements 14

5.2.1. Project Management 14

5.2.2. Milestones and Deliverables 14

5.2.3. Consumption of Effort 14

5.2.4. Overall Financial Status 14

5.3. Issues and mitigation 14

5.3.1. Deviations for linear plan 15

5.3.2. Issue n 15

5.4. Plans for the next period 15

6. Project Metrics 16

6.1. Overall metrics 16

6.2. Activity metrics 16

7. ANNEX A1: Dissemination and Use 17

7.1. Main Project and Activity Meetings 17

7.2. Conferences/Workshops Organised 17

7.3. Other Conferences/Workshops Attended 18

7.4. Publications 18

8. ANNEX A2: Operations Report – Applicable to SA1 Only 19

9. References 20

# Summary of Main Achievements (Tiziana)

# NA4 Community Engagement

Gergely: review this chapter and collect input

## TASK NA4.1 Human Network Coordination: Operations (Peter)

Includes topics on:

* Security
* Service deployment and integration
* Helpdesk, operations support and COD
* EGI.eu core services (central tools and services)
* Documentation
* Availability and Reliability
* Operational Level Agreements/Service Level Agreements

## TASK NA4.1 Human Network Coordination: NILs (Gergely)

Just information on coordination activities

## TASK NA4.2 Human Network Coordination: NILs (Gergely)

Just information on coordination activities

## TASK NA4.2 Communication (Sara)

## TASK NA4.3 Distributed Competence Centre (Gergely)

Includes Virtual Team activities

# NA5 Strategy, Policy and Business DevelopmeNT

Sergio: review this chapter and collect input

## TASK NA5.1 Strategy, Policy, Solutions (Sergio)

## TASK NA5.2 Business Models and Proof of Concepts (Sy)

# SA5 Federated Cloud

David: review this chapter and collect input

## TASK SA5.1 Operating the Federated Cloud (Malgorzata)

## TASK SA5.2 Participation in Proofs of Concept elicited by EGI (Gergely)

# JRA2 Tool Development

Diego: Collect input and review

## TASK JRA2.1 SAM (Christos)

## TASK JRA2.2 Accounting (Stuart)

## TASK JRA2.3 AppDB (Marios)

## TASK JRA2.4 e-GRANT (Tomasz)

# Issues and Mitigations

All activity managers, please list here issues encountered and related mitigations

## ISSUE 1

## ISSUE 2

## ISSUE 3

# PLANS FOR THE NEXT PERIOD

## NA4 Community engagement (Gergely)

## NA5 Strategy, policy and business development (Sergio)

## SA5 Federated Cloud (David)

## JRA2 Tool Development (Diego)

# Project 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(\*\*) |
| --- | --- | --- | --- | --- | --- | --- | --- |
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### 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

# Project Metrics

## Overall metrics

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ProjectObjectives | Objective Summary | Metrics | PQ13 | PQ14 | PQ15 | PQ16 | TargetPY4 |
| PO1 | Expansion of a nationally based production infrastructure | Number of resource centres in EGI-InSPIRE and integrated partners (M.SA1.Size.1)Only includes certified sites | 337 | 341  | 335 | **361** | **345**(350)(355) |
| Number of job slots available in EGI-InSPIRE and integrated partners (M.SA1.Size.2A) | 433,878 | 436,922 | 404,105 | **487,577** | **400,000** (425,000)(**450,000**) |
| EGI monthly availability and reliability of site middleware services (M.SA1.Operation.5) | 95.41%/95.91% | 97.24%/97.96% | 96.60%/97.04% | **95.83%/96.42%** | **97.0/97.5**%(97.5/98.0%)(98.0/98.5%) |
| **NEW**Average monthly availability and reliability of NGI core middleware services (MSA1.Operation.4) | 98.33%/98.53% | 99.29%/99.75% | 98.57%/99.65% | **99.00%/99.63%** | **99.60/99.80%**(99.65/99.85%)(99.67/99.87%) |
| **NEW**EGI monthly availability and reliability of critical central operations tools (MSA1.Operation.6a) | 99.71%/99.91% | 97.39%/97.42% | 99.62%/ 99.63% | **98.91%/99.10%** | **99.60/99.80%**(99.65/99.85%)(99.67/99.87%) |
| **NEW**EGI monthly averaged VO availability and reliability (M.SA1.Operation.7) | 97.27%/98.34% | 98.13%99.04% | 98.18%/98.61% | **96.88%/97.89%** | **98%/99%**(98.5/99.0%)(98.7/99.2%) |
| PO2 | Support of European researchers and international collaborators through VRCs | Number of papers from EGI Users (M.NA2.5) | 9 | 36 | 10 | **27** | **Achieved/year: 82**(80)(90) |
| Number of grid jobs done a day (Million) (M.SA1.Usage.1) | 1.19 M (grid)1.45 M (grid and local) | 1.35 M (grid)1.61 M (grid and cloud) | 1.40 M (grid)1.61 M (grid and local) | **1.52M** (grid and local) | **1.6 M**(1.8 M)(2.0 M) |
| PO3 | Sustainable support for Heavy User Communities | Number of production sites supporting MPI (M.SA1.Integration.2) | 80 | 89 | 69 | **74** | **90**(100)(120) |
| Number of users from HUC VOs (M.SA1.VO7)  | 11,656 | 11,569 | 12,085 | **11,990****+** **7,000** users with access to robot certificates | 12,500(13,000(14,000) |
| **NEW**Total number of High Activity VOs(M.SA1.VO.5)\*quarterly value\*\* yearly value | 53\* | 45\* | 41\* | 38\*Achieved/year: **67** | **55**\*\*(60)(**65**) |
| PO4 | Addition of new User Communities | Number of users from non-HUC VOs (M.SA1.VO.6) | 10,368 (\*) | 7,532(\*) | 8,389 | **7,015(\*)****+****5,000** users with access to robot certificates | 11,000(11,500)(12,000) |
| Public events organised (attendee days) (M.NA2.6) | 210 | 2137 | 530 | **1553 Achieved/year: 4,430** | **15,000**(17,000)(19,000) |
| PO5 | Transparent integration of other infrastructures | Number of on-going Research Infrastructures/new communities being integrated (M.SA1.Integration.4) | 5 (\*\*) | 9 (\*\*\*) | 10 (\*\*\*) | **11** (\*\*\*\*) | **5**(7)(9) |
| MoUs with resource providers (M.NA2.10) | 3 | 4 | 5 | **6** | **4**(5)(5) |
| PO6 | Integration of new technologies and resources | Number of resource centres offering federated cloud services accessible to authorised users (M.SA2.16) | 14 | 19 | 14 | **15** | **15**(20)(25) |

## Activity metrics

*Complete metrics as for PY1-PY4 in the metrics portal.*

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)