

# EGI Pay4Use VO OPERATIONAL LEVEL AGREEMENT

Service provider EGI Foundation

Component Provider RECAS-BARI

User Terradue – NextGEOSS Pilots /

vo.nextgeoss.eu

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Last day of service delivery 30 May 2020

Status draft

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Agreement Link <a href="https://documents.egi.eu/document/3426">https://documents.egi.eu/document/3426</a>



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#### **DOCUMENT LOG**

Issue	Date	Comment	Author	
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			Małgorzata Krakowian	
VFINAL 25 July 2019 Fina		Final version agreed with customer	Björn Backeberg	
			Małgorzata Krakowian	
V2	01 July 2020	Added details for first pilot	Enol Fernández	

#### **TERMINOLOGY**

The EGI glossary of terms is available at: <a href="https://wiki.egi.eu/wiki/Glossary">https://wiki.egi.eu/wiki/Glossary</a>

For the purpose of this Agreement, the following terms and definitions apply. The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in RFC 2119.



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The present Operational Level Agreement ("the Agreement") is made between **EGI Foundation (the Service Provider)** and **RECAS-BARI (the Component Provider)** to define the provision and support of the provided services as described hereafter. Representatives and contact information are defined in Section 6.

GEOSS (Global Earth Observation System of Systems) is a central part of GEO's Information System's mission. The NextGEOSS project, a European contribution to GEOSS, proposes to develop the next generation centralised hub for Earth Observation data, where the users can connect to access data and deploy EO-based applications. The concept revolves around providing the data and resources to the user communities, together with Cloud resources, seamlessly connected to provide an integrated ecosystem for supporting applications. A central component of NextGEOSS is the strong emphasis put on engaging the communities of providers and users and bridging the space in between.

The Customer is a consortium represented by **Terradue in the NextGEOSS project.** 

This Agreement is valid from **01** August **2018** to **31** May **2020** and defines the agreed upon resources to provide for 2 NextGEOSS Pilots, namely:

- 1. VITO's Sentinel2 Biopar Application
- 2. WUR ALTERRA Maxtent Habitat Monitoring

The Agreement was discussed and approved by the EGI Foundation and the Component Provider 25 July 2019.

The Agreement extends the Resource Center OLA<sup>1</sup> with the following information:

## 1 The Services

Possible allocation types:

- Pledged Resources are exclusively reserved to the Community and the job will be executed immediately after submission.
- Opportunistic Resources are not exclusively allocated, but subject to local availability.
- Time allocation Resources are available in fair share-like mode for a fixed time period.

Possible payment mode offer:

- Sponsored Model where the customer uses services that are funded, or co-funded by the European Commission or government grants.
- Pay-per-use Model where a customer directly pays for the service used.

<sup>&</sup>lt;sup>1</sup> https://documents.egi.eu/document/31



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The Services are defined by the properties summarised in the following table described in the below links:

• Cloud Compute: <a href="https://www.egi.eu/services/cloud-compute/">https://www.egi.eu/services/cloud-compute/</a>

Cloud Container Compute: <a href="https://www.egi.eu/services/cloud-container/">https://www.egi.eu/services/cloud-container/</a>

• High-Throughput Compute: <a href="https://www.egi.eu/services/high-throughput-compute/">https://www.egi.eu/services/high-throughput-compute/</a>

Online Storage: <a href="https://www.egi.eu/services/online-storage/">https://www.egi.eu/services/online-storage/</a>

• Archive storage: <a href="https://www.egi.eu/services/archive-storage/">https://www.egi.eu/services/archive-storage/</a>

Compute				
Pilot	VITO's Sentinel2 Biopar Application (Pilot 1a)	VITO's Sentinel2 Biopar Application (Pilot 1b)	WUR ALTERRA Maxtent Habitat Monitoring	
Category:	Cloud Compute	Cloud Compute	Cloud Compute	
Number of virtual CPU cores:	10	42	10	
Total amount of Memory (GB):	80	336	80	
Local disk (GB):	900	4100	900	
Public IP addresses:	5	21	5	
Allocation type:	Pledged <sup>2</sup>	Pledged <sup>3</sup>	Pledged	
Payment mode offer:	Per-for-use <sup>4</sup>	Per-for-use	Pay-for-use	

<sup>&</sup>lt;sup>2</sup> Resources are exclusively reserved to the Customer

<sup>&</sup>lt;sup>4</sup> See service offer for specifications (e.g. pricing, administration)



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<sup>&</sup>lt;sup>3</sup> Resources are exclusively reserved to the Customer

Duration:	13 September 2017 – 20 November 2017	01 August 2018 – 31 May 2020	01 April 2018 – 31 May 2020		
Storage					
Category	Not applicable	Not applicable	Online Storage		
Guaranteed storage capacity [TB]:	storage capacity		500		
Standard interfaces supported:	Not applicable	Not applicable	E.g. CDMI, POSIX, SWIFT, etc.		
Storage Not applicable Not applicable technology:		Not applicable	E.g. DPM, dCache, STORM, etc.		
Duration:	Not applicable	Not applicable	01 April 2018 – 31 May 2020		
Payment ode offer:	Pay-for-use	Pay-for-use	Pay-for-use		
Allocation type:	Pledged Pledged		Pledged		
Virtual Organisation					
Supported VOs:	vo.nextgeoss.eu				
VO ID card:	https://operations-portal.egi.eu/vo/view/voname/vo.nextgeoss.eu				
VO-wide list:	https://appdb.egi.eu/store/vo/vo.nextgeoss.eu				
Service Offer/Cost [€]					
Compute & Storage	€1,600.00	€6,600.00	€4,440.80		



The Services are supported by additional services:

- Accounting<sup>5</sup>
- Service Monitoring<sup>6</sup> (operational only)

Note: Please note that the following services are not provided by EGI Foundation:

- Monitoring of vo.nextgeoss.eu
- Monitoring of services provided by the Customer on agreed resources

## 2 Service hours and exceptions

IT services according to the service catalogue are in general delivered during 24 hours per day, 7 days per week (i.e. 365 days or 8,760 hours), to seamlessly support business operations. Planned and announced interruptions may reduce the effective operating time of a service.

The following exceptions apply:

- Planned maintenance windows or service interruptions ("scheduled downtimes"<sup>5</sup>) will be notified
  via email in a timely manner i.e. 24 hours before the start of the outage, to the Customer through
  the Broadcast Tool<sup>7</sup>.
- The provider must provide justification for downtime periods exceeding 24 hours
- Human services are provided during support hours.

## 3 Support

Support is provided via EGI Service Desk<sup>8</sup>. Access requires a valid X.509 or the login via a EGI SSO account<sup>9</sup>. Support is available between:

- Monday to Friday.
- From 09:00 to 17:00 CET/CEST.

Service times always apply with the exception of public holidays in the country of the supporting Resource Centres.

<sup>9</sup> https://www.egi.eu/sso/



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<sup>&</sup>lt;sup>5</sup> http://accounting.egi.eu/

<sup>&</sup>lt;sup>6</sup> http://argo.egi.eu/

<sup>&</sup>lt;sup>7</sup> https://operations-portal.egi.eu/broadcast

<sup>&</sup>lt;sup>8</sup> http://helpdesk.egi.eu/

## 3.1 Incident handling

Incidents will be handled according to the Quality of Support level that is estimated according to the impact of the outage or service quality degradation.

The Quality of Support in this Agreement has level: Medium<sup>10</sup>

The Quality of Support levels are defined as follows:

#### **Medium level:**

Incident priority	Response time	Comment	
Less urgent 5 working days wishes and enhancements that are "nice to have"		wishes and enhancements that are "nice to have"	
Urgent 1 working day service degraded; workaround available		service degraded; workaround available	
Very Urgent 1 working day		service degraded; no workaround available	
Top priority	1 working day	service interrupted; needs to be addressed as soon as possible	

Response time is provided as a service level target.

## 3.2 Service requests

In addition to resolving incidents, standard service requests (e.g. change requests, information requests, documentation) will be fulfilled through the defined support channels in the same way as incidents. Service requests are classified as "Less urgent".

# 4 Service level targets

#### **Monthly Availability**

- Defined as the ability of a service or service component to fulfil its intended function at a specific time or over a calendar month.
- Minimum (as a percentage per month): 90%

#### **Monthly Reliability**

- Defined as the ability of a service or service component to fulfil its intended function at a specific time or over a calendar month, excluding scheduled maintenance periods.
- Minimum (as a percentage per month): 95%

#### **Quality of Support level**

Medium (Section 3)

<sup>&</sup>lt;sup>10</sup> https://wiki.egi.eu/wiki/FAQ GGUS-QoS-Levels



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## 5 Limitations and constraints

The provisioning of the service under the agreed service level targets is subject to the following limitations and constraints:

- Support is provided in the following language: English
- Downtimes caused due to upgrades for fixing critical security issues are not considered Agreement violations.
- Force Majeure. A party shall not be liable for any failure of, or delay in the performance of this
  Agreement for the period that such failure or delay is due to causes beyond its reasonable
  control. Means any
  - o fire, flood, earthquake or natural phenomena
  - o war, embargo, riot, civil disorder, rebellion, revolution which is beyond the Provider's control
- Availability and Reliability calculations are based on the Service Monitoring operational results.
- Failures in VO monitoring are not considered as the Agreement violations.

# 6 Communication, reporting and escalation

### 6.1 General communication

The following contacts will be generally used for communications related to the service in the scope of this Agreement.

Provider contact	Giacinto Donvito	
	giacinto.donvito@ba.infn.it	
Provider technical contact	Marica Antonacci	
	marica.antonacci@ba.infn.it	
EGI contact	Malgorzata Krakowian, EGI Foundation	
	slm@mailman.egi.eu	
	SLM manager	
EGI technical contact	Mattew Viljoen, EGI Foundation	
	operations@egi.eu	
	Operations manager	
Service Support contact	EGI Service Desk (See Section 3)	



# 6.2 Regular reporting

The Component Provider will supply Performance reports together with their invoices to EGI Foundation (Section 9.2).

The Component Provider is committed to providing the following reports using predefined templates<sup>11</sup>:

Report title	Content	Frequency	Produced by	Delivery
Service Performance Report	The document provides an overall assessment of service performance (per month) and OLA target performance achieved during the reporting period based on values from EGI monitoring <sup>12</sup>	Aligned with invoicing schedule (Section 9), unless otherwise specified/request ed by the customer.	Component Provider	Email to EGI contact together with invoice for period.
Agreement Violation	Agreement violation justification and a plan for service enhancement	Within 10 working days from the date of notification to/from the EGI Foundation about violation	Component Provider	Email to EGI technical contact together with invoice for period.

<sup>11</sup> https://documents.egi.eu/document/3477

<sup>12</sup> http://argo.egi.eu/



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#### 6.3 Violations

The Component Provider commits to inform the EGI Foundation, if the Agreement is violated or violation is anticipated. The following rules are agreed for communication in the event of the Agreement violation:

- In case of service target violation, the Component Provider must provide justifications and a plan
  for service enhancement within 10 working days from the date of notification to/from the EGI
  Foundation.
  - In case of no or unsatisfactory justification and plan for improvement, EGI Foundation reserves the right to replace the Component Provider, in which the Component Provider forfeits future payments.
- In the case of repeated violations that jeopardizes the ability of the Customer to meet their goals,
   EGI Foundation reserves the right to replace the Component Provider and the Component
   Provider forfeits all outstanding payments (i.e. current and future).

## 6.4 Escalation and complaints

For complaints, the defined EGI Foundation contact point shall be used, and the following rules apply:

- Complaints should be directed to the EGI Foundation contact
- The Component Provider contact will be contacted in case of received complaints.

# 7 Information security and data protection

The following rules for information security and data protection apply:

- Assertion of absolute security in IT systems is impossible. The Component Provider is making every effort to maximize security level of users' data and minimize possible harm in the event of an incident.
- The Component Provider must define and abide by an information security and data protection policy related to the service being provided.
- This must meet all requirements of any relevant EGI policies or procedures<sup>13</sup> and also must be compliant with the relevant national legislation.

<sup>13</sup> https://www.egi.eu/about/policy/policies\_procedures.html



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## 8 Responsibilities

## 8.1 Of the Component Provider

Additional responsibilities of the Component Provider are as follow:

- Adhere to all applicable operational and security policies and procedures<sup>12</sup> and to other policy documents referenced therein applicable to "Infrastructure" scope.
- Use communication channel defined in the agreement.
- Accept EGI monitoring services provided to measure fulfilment of agreed service level targets.
- Ensure the accuracy of the information in EGI Configuration Database GOCDB
  - The Component Provider contact details (name, phone number, e-mail address) of a set of contact points for security, operational and administrative emergencies.
  - O Components of the service are registered and in the EGI scope.
  - O The services that are offered by the Component Provider must be specified.
- All services with information system or accounting capabilities, must have at least one local or remote endpoint to publish information:
  - O Being provided into the site information system.
  - O Being delivered to the EGI accounting infrastructure.
- Enable and support
  - o The OPS VO and DTEAM VO.
  - At least one either national or global non-monitoring/troubleshooting user group (e.g. managed using an interoperable VO management service), which must be registered in the EGI Operations Portal.
    - The Component Provider is encouraged to support as many user groups as possible. Specific agreements between the Provider and individual user groups are covered in separate agreements.

#### Enable

- O Operational service monitoring provided centrally by EGI Foundation and (if deemed necessary by the Resource Infrastructure Provider) by the Resource Infrastructure Provider.
- Central security monitoring performed centrally by EGI Foundation.
- O Remote access via service APIs for troubleshooting and testing.

#### Ensure

- O At least one system administrator reachable during working hours of supporting organization.
- O Sufficient computational and storage resources and network connectivity to support the proper operation of its services, as indicated by passing all relevant Monitoring Service tests.
- The provisioning of services in itself not create any intellectual property rights in software, information and data provided to the services provided by the Component Provider, or in data generated by the services provided.



- Operate UMD-compliant Middleware supported by EGI Foundation— applicable for High Throughput Computing Platform.
  - The Component Provider is encouraged to stay abreast of updates in order to benefit from the latest improvements and features.

## 8.2 Of the EGI Foundation

The responsibilities of EGI Foundation are:

Collect requirements from the Component Provider and raise any issues deemed necessary by the

- Provider to the attention of EGI and to ensure that these issues are properly dealt with.
- Raise any issues deemed necessary to the attention of the Component Provider.
- Register the Component Provider and its administrators in GOCDB and in the available helpdesk facilities as applicable.
- Provide support by helping in the resolution of advanced and specialised operational problems that cannot be solved by the Component Provider.
  - o If necessary, the EGI Foundation will propagate and follow-up problems with higher-level operational or development teams.
- Monitor progress of incident and problem records and to ensure that the Provider works on records opened against them.
- Respond to incident and problem records from the Component Provider in a timely manner.
- Provide the operational services defined in Resource infrastructure Provider OLA and ensure their interoperation with the EGI Foundation ones as applicable.
- Coordinate and support the deployment of UMD-compliant middleware by the Component Provider.
- Coordinate local operational security activities and provide operational security support.
- Support coordination with other Component Providers.
- Support coordination and conflict resolution with the User.

#### 8.3 Of the User

All responsibilities of the User are listed in relevant VO SLA.

# 9 Finance and Administration

#### 9.1 Service Offers

Component Provider is expected to adhere to the service offer and associated costs provided and agreed timescales, unless changes are otherwise agreed between both parties in writing (See Section 2).



## 9.2 Invoicing and Payment Schedule

Component Providers are to invoice the EGI Foundation according to the below schedule. Note that invoices need to be accompanied by a Service Performance Report (see Section 6.2).

Service delivery period	Invoicing frequency	Produced by	Delivery
01/04/2018 – 31/05/2020 Thirty-six (26) months	Three times, for [total/3]€ by 1. 31/01/2019 2. 31/01/2020 and 3. 31/06/2020	Component provider	Email to <b>EGI contact</b> together with Service Performance Report for period.

#### Invoice details:

Name: Yannick Legré, EGI Foundation Director

Address: Science Park, 140 - 1098XG – Amsterdam, Netherlands

VAT: NL8219.84.986.B.01Email: <a href="mailto:inkoop@egi.eu">inkoop@egi.eu</a>Date: [DD/MM/YYYY]

• Reference: NextGEOSS Pilots

# 10 Review, extensions and termination

This agreement is subject to review at least on an annual basis (from signature date) or at any time by written request by any party.

