



## TECHNICAL EVALUATION REPORT EGI-2023-001

## Open procedure

"Procurement: Purchase of software/service for image analysis in phenological research with implementation, licensing, support, and maintenance".

#### 1. INTRODUCTION

This document corresponds to the results obtained from the technical analysis of the evaluation of the bids submitted to the tender for the contracting of "purchase of software/service for image analysis in phenological research with implementation, licensing, support, and maintenance".

Following a detailed and in-depth analysis of the bids submitted, this report has been prepared by the Evaluation Committee, composed of the following persons:

- Elisa Cauhé, EOSC DIH Coordinator, Strategy, and Innovation Officer at EGI FOUNDATION
- Dr. Eng. Damian Józefczyk. University of Life Sciences, Poznán
- Dr. Eng. Nikos Vogiatzis, EOSC DIH monitorization and impact evaluation

#### 2. METHODOLOGY

The following methodology has been used for the analysis and evaluation of the bids submitted by the competing companies:

- 1. Receipt and verification of tenders submitted.
- 2. Personal reading of them by all members of the Evaluation committee
- 3. Score for each of the proposals in each of the evaluation criteria established in the tender specifications for the analysis of the bids submitted, with the weighting assigned to each of them.

#### 3. ANALYSIS AND EVALUATION OF THE SUBMITTED BIDS

The first analysis of the bids submitted is based on the personal reading, by all the members of the evaluation committee, and the tender specifications that served as the basis for the tender, as well as the proposals submitted by the competing companies.

Subsequently, the report on the proposals submitted will be drawn up, which will include all the technical aspects necessary for the evaluation of the bid.

Once the proposals submitted have been analysed individually, they are score taking into account the Award criteria established in the tender specifications, and the weightings assigned to each one of them.





The evaluation criteria used in this report will be as follows:

ASSESSMENT	Maximum		<b>Total points:</b>
QUALITY AWARD	number of		100
CRITERIA	points per		Weighting:
	criterion		70%
Methodology		Very good proposal:	90-100 points
- Sub criterion 1.1:	14	referring both to the	1
quality and		suitability and the scope of the	
relevance of the		methodology proposed in	
proposed		such a way that could be	
methodology for		perfectly implemented. The	
the		proposal is more than	
		adequate in terms of	
implementation of		methodology and its sub	
activity 1	14	criterions.	
- Sub criterion 1.2:			
quality and		Cood proposal referring	75-90 points
relevance of the		Good proposal: referring both to the suitability and the	
proposed		scope of the methodology	
methodology for		proposed in such a way that	
the		could be implemented,	
implementation of		although some weak points or	
activity 2	14	aspects exists so the	
- Sub criterion 1.3:		methodology could be	
quality and		implemented after an	
relevance of the		adjustment.	
proposed		adjustificite.	
methodology for		Acceptable proposal:	(0.75
the		referring both to the	60-75 points
implementation of		suitability and scope of the	
activity 3		methodology proposed in	
uctivity 5		such a way that could be	
		implemented, although there	
		are many weal points or	
		aspects that should be	
		adjusted before putting the	
		proposal into practice.	
		Deficient proposal reforming	
		<b>Deficient proposal</b> : referring both to the appropriateness of	Less than 60
		the methodology and the	points
		scope, the evaluation	-
		committee has identified	
		many weaknesses which	
		would make it unfeasible to	
		service delivery with an	
		adequate level of quality.	
Total points	42	and desired of demity.	
rotai pointo	74	]	





Organisation of the work	14	Very good proposal:	90-100 points
and resources		referring both to the	yo 100 points
- Roles,		suitability and the scope of	
responsibilities of		the organisation of the work	
the team involved,		and resources. The proposal	
and distribution		is more than adequate since	
for each activity.		the composition, structure,	
- Composition and		roles, responsibilities, and	
structure of the		distribution of tasks are	
team		totally clear.	
team			
		Good proposal: referring	75-90 points
		both to the suitability and the	
		scope of the organisation of	
		the work and resources. The	
		proposal could be	
		implemented, although some weak points or aspects exists	
		so the proposal could be	
		implemented after a slight	
		adjustment.	
		aujustinent.	
		Acceptable proposal:	
		referring both to the	60-75 points
		suitability and scope of	1
		organisation of the work and	
		resources. The proposal	
		could be implemented,	
		although there are many	
		weak points or aspects that	
		should be adjusted before	
		putting the proposal into	
		practice.	
		Deficient proposal, referring	
		<b>Deficient proposal:</b> referring	Less than 60
		both to the appropriateness of the organisation of work and	points
		resources, the evaluation	ponits
		committee has identified	
		many weaknesses which	
		would make it unfeasible to	
		service delivery with an	
		adequate level of quality.	
<b>Total points</b>	14		
Quality control measures	14	Very good proposal:	90-100 points
- Quality system		referring both to the	
- Risk management		suitability and the scope of the	
- Measures to		quality control measures. The	
ensure		proposal is more than	
compliance with		adequate since the quality	





the D-4-		avatam mials management	
the Data		system, risk management, measures to ensure	
protection law.		compliance with the data	
- Measures to		protection, and measures to	
ensure the		ensure the performance of the	
performance of		software for at least 12	
the software for at		months after the end of the	
least 12 months			
after the end of		,	
the contract.		± •	
		explained.	
		Good proposal: referring both to the suitability and the scope of the quality control measures. The proposal could be implemented, although some weak points or aspects exists to the proposal could be implemented after a slight adjustment.	75-90 points
		Acceptable proposal: referring both to the suitability and scope of the quality control measures. The proposal could be implemented, although there are many weak points or aspects that should be adjusted before putting the proposal into practice.	60-75 points
The Andrews 2 of the	14	Deficient proposal: referring both to the appropriateness of the quality control measures. The evaluation committee has identified many weaknesses which would make it unfeasible to service delivery with an adequate level of quality.	Less than 60 points
Total points	14		
Total points of the three	70		
criterion (Sum)			

The specific characteristics that motivate the scoring of each of the competing companies in the Award criteria are those included in the following evaluation sheets:





#### 3.1 COMPANY 1: CERTH

#### Quality award criteria:

**Methodology:** (Please, evaluate the methodology in general terms.

- **Sub criterion 1.1:** The offer describes all required activities from no. 1 but Amazon cloud application can be problematic in the future taking in to account the cost of AWS.
- **Sub criterion 1.2:** The activity no. 2 lacks detailed information.
- **Sub criterion 1.3:** The activity no. 3 does not describe any information about applied AI method.

Methodology		
Strong points	Weak points	
General description of the methodology is included.	Weak detailed description of the activities, not fully adapted to the structure of activities and sub-activities suggested.  The description lacks more details on each of the criteria.  In general it is described at a very high level.	
FINAL SCORE		
28.5 /42		

#### Organisation of the work and resources

- Roles, responsibilities of the team involved, and distribution for each activity.

Roles, responsibilities, and work organization are presented for each team member. However, there is a lack of Work organization at team/group level.

The usage of planning tools such as GANTT and/or Sprints would have helped the work planning for each activity.

- Composition and structure of the team

The participating team members appear to be sufficient for the tasks at hand.

Organisation of the work and resources	
Strong points Weak points	





All the basic roles and responsibilities of team members are described.  Roles, responsibilities, and work organization of the team involved and	The work schedule of the team members was not presented, the required graphic description is missing. Lack of a GANTT or sprints to help map the flow of work.
distribution for each activity are addressed.	No description of hardware resource management.
The participating team members appear to	
be sufficient for the tasks at hand.	Organization of work and how experience fits the activities to carry out could be elaborated with more details.
	Lack of Work organization at team/group level.
FINAL SCORE	1
10.5 / 14	

#### **Quality control measures**

#### - Quality system

A rigorous testing and review process, involving testing at different levels of the software development process, is claimed to be implemented for quality control, including unit, integration, system, and acceptance testing. However no specific measures are proposed.

#### - Risk management

An Artificial Intelligence sector is claimed to exist among the centre, with several high-quality developers who will be shadowing the lead developers, and will be monitoring the progress of the development, ready to step in case of absence or need. However, this is a rather generic statement on Risk management.

#### - Measures to ensure compliance with the Data protection law.

All data are claimed to be compliant with the GDPR in terms of lawful processing, purpose limitation, minimization, accuracy, storage limitation, confidentiality and accountability of the processors and controllers. However no specific measures are reported.

# - Measures to ensure the performance of the software for at least 12 months after the end of the contract.

To ensure the performance and maintenance of the platform for the desired time, a comprehensive maintenance and support plan is claimed to be implemented. This will include updates, bug fixes and patches, performance monitoring, logging and error handling, backup and disaster recovery, testing and validation, documentation, and support. However, this is a rather broad and generic approach.





Quality control measures		
Strong points	Weak points	
A rigorous testing and review process is claimed to be implemented.	No specific quality system measures are proposed.	
An Artificial Intelligence sector is claimed to exist among the centre, with several high-quality developers who will be shadowing the lead developers.	Risk management is rather generic. No specific data protection measures are proposed. Broad statements on maintenance and support plan without KPIs and targets to	
All data are claimed to be compliant with the GDPR.	help benchmark performance.	
A comprehensive maintenance and support plan is claimed to be implemented.	A description of maintaining the platform for 12 months after delivery is missing.	
FINAL SCORE		
9.8 /14		





#### 3.2 COMPANY 2: SCIO

### Quality award criteria:

**Methodology:** (Please, evaluate the methodology in general terms.

- **Sub criterion 1.1:** There is no detailed information about data storage and transfer. The methodology described in A1 is unclear.
- **Sub criterion 1.2:** Activity no. 2 description of the data processing process does not include the details required for proper execution of the task.
- **Sub criterion 1.3:** The activity no. 3 is not fully described there is a lack of description of suggested AI methods.

Methodology		
Strong points	Weak points	
General description of the methodology is	The methodology described in A1 is	
included according with the specification of	unclear.	
the tender.	A2 description does not include the	
W-11 4-6 - 4 - 41 - 4-1	details required for proper execution of	
Well defined methodology, especially for	the task.	
1.1, 1.3.	the task.	
Description of sub activities including	A3 Deployment of the final solution to	
references to specific hardware	production environment is not very well	
1	described	
References to the co-development with		
PULS / EGI		
Consideration of user journeys and mock-		
ups.		
Roles, credentials for users are considered.		
FINAL SCORE		
32.4 / 42		

## **Organisation of the work and resources**

- Roles, responsibilities of the team involved, and distribution for each activity.

Each major development task is claimed to be taken over by a dedicated team, led by a senior expert in the relevant field.

The Team descriptions and experts are well documented.

Team leaders are appointed.





#### - Composition and structure of the team

The participating team members appear to be sufficient for the tasks at hand.

Organisation of the work and resources		
Strong points	Weak points	
Each major development task is claimed to be taken over by a dedicated team, led by a senior expert in the relevant field.  The Team descriptions and experts are well documented.  Team leaders are appointed.  A GANTT chart is presented.  The participating team members appear to be sufficient for the tasks at hand.	The names of team members are not thoroughly listed in the table section.  The meaning of colors in the Gantt chart is not described, which makes it difficult to accurately analyse the chart.	
FINAL SCORE		
13.5 /14		

### **Quality control measures**

#### - Quality system

The development of the platform is claimed to be carried out under a comprehensive Quality Assurance (QA) / Quality Control (QC).

Specific quality system measures are presented (e.g. JIRA/confluence etc)

KPIs and baseline targets are presented.

## - Risk management

Risk management proposes specific measures.

- Measures to ensure compliance with the Data protection law.

Data protection measures are sufficiently elaborated.

- Measures to ensure the performance of the software for at least 12 months after the end of the contract.

Performance and maintenance measures are claimed but are rather vague and not sufficiently elaborated.





Quality control measures		
Strong points	Weak points	
The development of the platform is claimed to be carried out under a comprehensive Quality Assurance (QA) / Quality Control (QC).  Specific quality system measures are presented (e.g. JIRA/confluence etc).  KPIs and baseline targets are presented. Risk management proposes specific measures.  KPIs and baseline targets are presented. Data protection measures are sufficiently elaborated.	Performance and maintenance measures are not sufficiently elaborated.	
FINAL SCORE		
11/14		





#### 3.2 COMPANY 3: SETH

## Quality award criteria:

**Methodology:** (Please, evaluate the methodology in general terms.

- **Sub criterion 1.1:** Well defined methodology for 1.1. Detailed description of the functionalities and reference to hardware, methods and technology used.
- **Sub criterion 1.2:** Well defined methodology for 1,2. References to the pre-processing operations for image quality
- **Sub criterion 1.3:** Very well described methodology for 1.3

Methodology		
Strong points	Weak points	
General description of the methodology and	Prepared user manual (a1.5 activity)	
tools are included.	description is weakly described in the activity no. 1.	
Suggested tools for application in activity 1-3 are well planned and explained.	activity no. 1.	
The activity description in no. 3 is very well described and full of details.		
FINAL SCORE		
37.8/42		

#### Organisation of the work and resources

- Roles, responsibilities of the team involved, and distribution for each activity.

Each major development task is claimed to be taken over by a dedicated team and/or expert. However specific persons and team leaders are not documented/appointed.

Organization of work in sprints utilizing Scrum Agile methodology.

## - Composition and structure of the team

The participating roles appear to be sufficient for the tasks at hand.

Organisation of the work and resources		
Strong points Weak points		





Distribution for each activity is very well described. Each major development task is claimed to be taken over by a dedicated team and/or expert.

Composition and structure of the team is clear. Organization of work in sprints utilizing Scrum Agile methodology. The time schedule of the two-week sprints is adequate for the tasks presented in the assumed time of the project.

Task management is clearly presented graphically.

Reference to collaboration with the scientific community is included.

Specific persons and team leaders are not documented/appointed.

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11.9/14

## **Quality control measures**

- Quality system

A quality system with specific quality system measures is presented e.g. scrum agile tech, jira/confluence, etc.

KPIs and baseline targets are presented.

ISO 9001 in place covering quality management for software development.

#### - Risk management

Risk management proposed processes are sufficient.

- Measures to ensure compliance with the Data protection law.

Data protection is claimed to adhere to ISO 27001.

- Measures to ensure the performance of the software for at least 12 months after the end of the contract.

Performance and maintenance measures are presented and convincing.





Quality control measures			
Strong points	Weak points		
Specific quality system measures are presented (e.g. scrum agile tech, jira/confluence).  Quality management of the platform and related components is described in high detail. Reference to a good technical infrastructure to maintain the platform beyond 12 months after the end of the contract.			
ISO 9001 in place covering quality management for software development.			
KPIs and baseline targets are presented.			
Risk management proposed processes are sufficient.			
Performance and maintenance measures are presented and convincing.			
Data protection is claimed to adhere to ISO 27001.			
FINAL SCORE			
13.8/14			





#### 4. SUMMARY

This evaluation committee, on the basis of the detailed and comparative study of the bids submitted by the competing companies, establishes and proposes to eh Evaluation Committee the following order of points:

#	COMPANY	TOTAL SCORE
1	SETH	63.5
2	SCIO	56.9
3	CERTH	47.8

Netherlands, 21st March 2023

**PRESIDENT** 

Docusigned by: Elisa Caulié Martin 26B00FB49C00496...

Elisa Cauhé

**SECRETARY** 

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