

AGINFRA+: Virtual Research Environments to Support Agriculture and Food Research Communities

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Entry in the community requirement database: [AGINFRA+](#)

About the pilot

This project aims a create/reinforce a DataMiner (DM) cluster and make it available to all the communities served by D4Science.

AGINFRA+ system is in TRL9.

Team

Participant	Role	Name and Surname
CNR	PI	Leonardo Candela
CSIC	Shepherd	Pablo Orviz
IFCA-LCG2	EGI Cloud Compute provider	Alvaro Lopez Garcia

Technical Plan

The full technical plan can be found here:

Goal(s) to be achieved after 1 year	<ul style="list-style-type: none">• Operation of a production DataMiner clusters• Registration of the AGINFRA+ VREs in the EOSC Portal Marketplace• Implement a sustainability plan with the providers involved in the project
Work planned for Q1	<ul style="list-style-type: none">• Identify the initial resource capacity needed by the project• Engage with EOSC-hub providers interested to support the project activities• Deploy DM cluster in a single cloud provider• Enabling EOSC-hub monitoring and accounting
Work planned for Q2	<ul style="list-style-type: none">• Quarterly review of performance thresholds<ul style="list-style-type: none">• Number of analytics tasks increased 10%• Availability (uptime) > 95%• Availability of monitoring probes for checking the status of the DM cluster (through API).
Work planned for Q3	<ul style="list-style-type: none">• Quarterly review of performance thresholds<ul style="list-style-type: none">• Number of analytics tasks increased 10%• Availability (uptime) > 95%• Integration of monitoring probes in EOSC Monitoring service
Work planned for Q4	<ul style="list-style-type: none">• Quarterly review of performance thresholds<ul style="list-style-type: none">• Number of analytics tasks increased 10%• Availability (uptime) > 95%• Review of EAP experience and assessment of operational continuity of the application• Registration of AGINFRA+ VREs in the EOSC Portal

EOSC services and providers

EOSC service	Provider	Resources to be committed
EGI Cloud Compute	IFCA-LCG2	4 VMs with 16 vCPU cores and 32GB RAM running in a single data center with local disk space of 250GB . Additionally, 1 VM + 1 public IP for proxying requests to the DM cluster.