PHIDIAS

Prototype of HPC/Data Infrastructure for On-demand Services

Creating access services to increase HPC and data capacities of the European Data Infrastructure.

PHIDIAS Goals

Optimising and industrialising treatment workflows for extensive reusability

Ensuring open access to standardised HPC services & improving FAIRisation processes

Exploring a distributed model for data transfer and resource allocation between two EU computing centers: CINES (FR) & CSC (FI)

PHIDIAS Use Cases

Enabling the earth science community to discover, manage and process spatial and environmental data, spanning the earth's surface, atmosphere, oceans.

Use Cases 1
Intelligent screening of satellite data

Improving efficiency of the intelligent screening of environmental satellite data

Use Cases 2
Big data earth observations (EO)

Enhancing the scalability of EO data processing chain for environmental monitoring to meet end-users needs of the THEIA land data centre network

Use Cases 3
Ocean
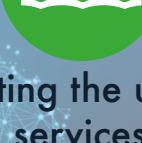
Boosting the use of cloud services for marine data management, services and processing, with the EOSC challenge and the DIAS top of mind

PHIDIAS Impacts
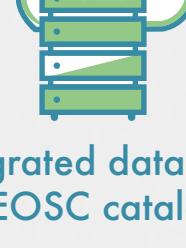
Integrated datasets in the EOSC catalogues

Availability of data and services on EU Open Data Portal, EUDAT and EOSC

Ensured sustainability through service evolution: from experimental to production phase

The Consortium

CINES — Centre Informatique National de l'Enseignement Supérieur

CERFACS — CENTRE EUROPÉEN DE RECHERCHE ET DE FORMATION AVANCÉE EN CALCUL SCIENTIFIQUE

cnrs

CSC

GEOMATYS

Ifremer

IRD Éditions — Institut de Recherche pour le Développement FRANCE

MARIS

NEOVIA INNOVATION

SPASCIA

SYKE

Trust-IT Services — Communicating ICT to markets

LIÈGE université
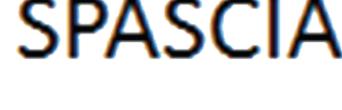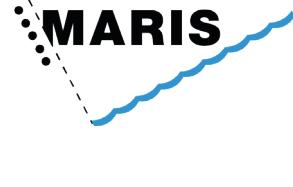
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