



PHIDIAS

Prototype of HPC/Data Infrastructure for On-demand Services

PHIDIAS: Steps forward in detection and identification of anomalous atmospheric events


Webinar | October 13, 2020, 15:00 CEST

Nicolas Pascal, AERIS/ICARE technical director



The PHIDIAS project has received funding from the European Union's Connecting Europe Facility under grant agreement n° INEA/CEF/ICT/A2018/1810854.

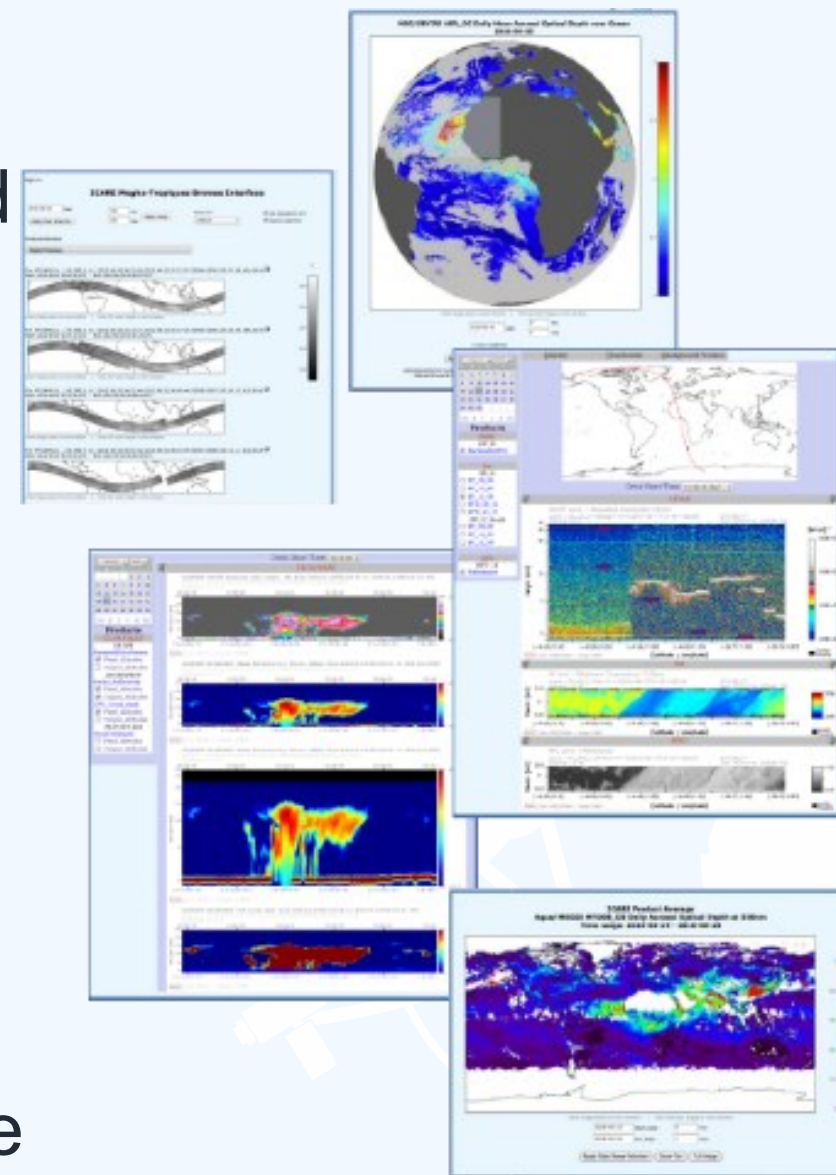
AERIS/ICARE ?

 A Data and Services Centre mostly dedicated to satellite data, but also ground-based and model data



- 6,7 PB of usable storage capacity,
- ~1200 cores dedicated to production,
- 10 Gb bidirectional connection to RENATER.

 Part of the Data Terra Research Infrastructure



Towards a interoperable infrastructure



Credits: R. Moreno

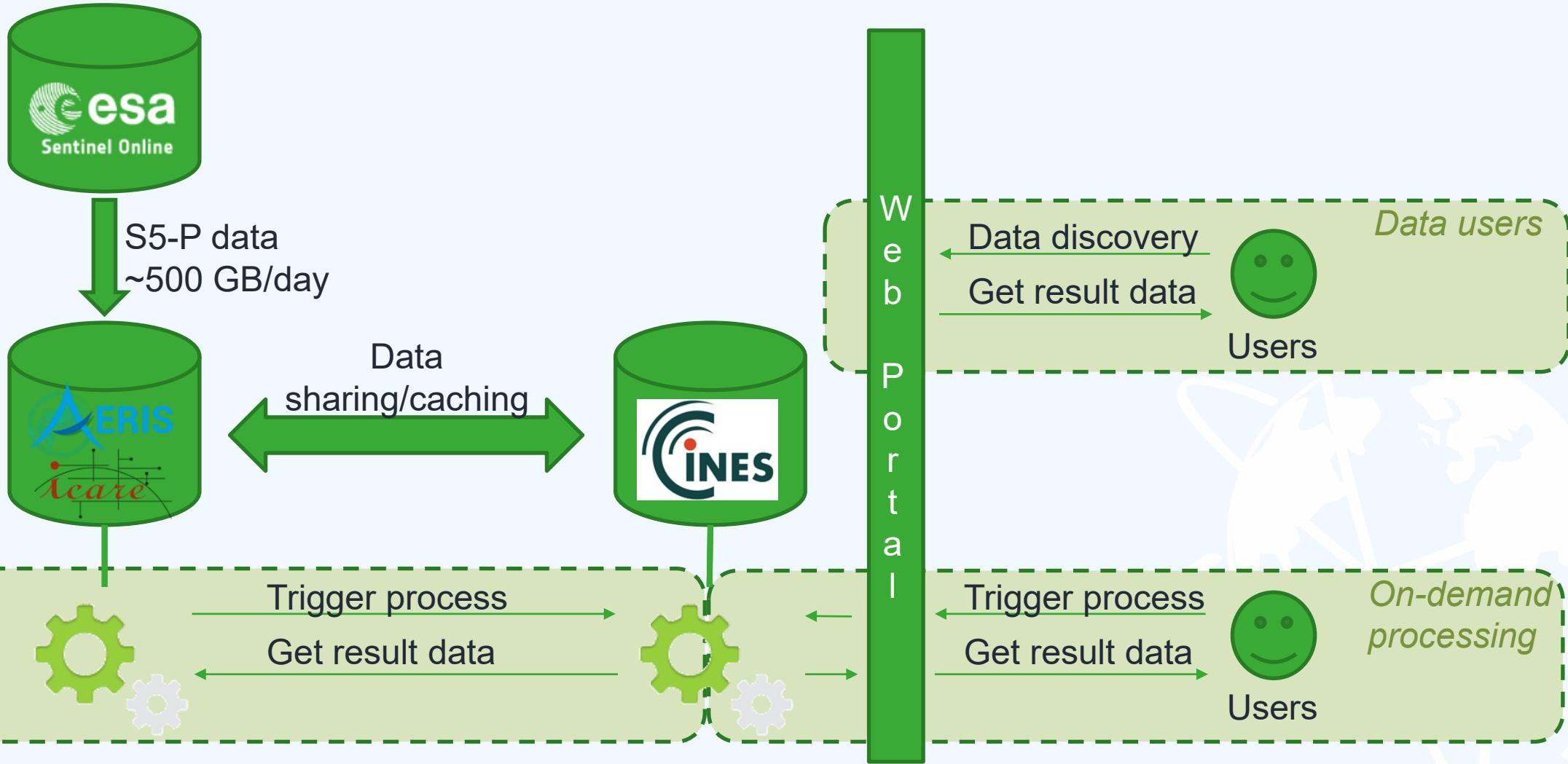


Why CINES and AERIS/ICARE ?

- ❖ Convergence needed for HPDA algorithms: processing of big data volume with big computing resources
- ❖ CINES: access to important computing resources, experts in HPC and data sharing techniques.
- ❖ AERIS/ICARE: access to big volume satellite database, close to the atmosphere science community, experienced in science prototypes industrialization.

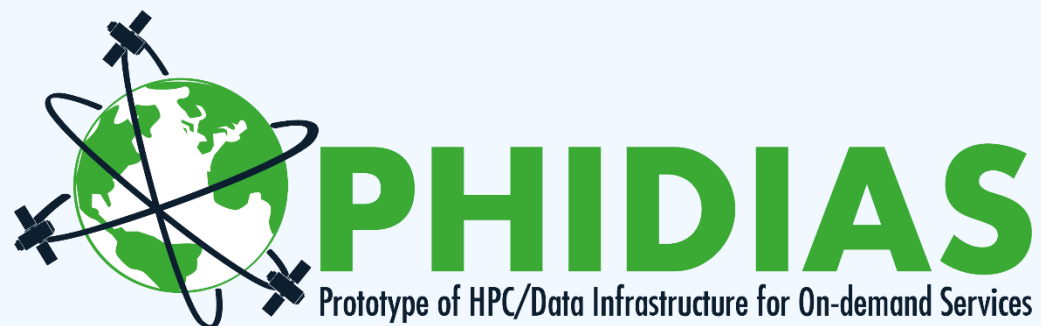


High level implementation scheme



Thank-you

Nicolas Pascal, Technical Director, AERIS/ICARE, <https://www.icare.univ-lille.fr>



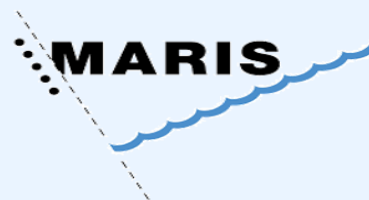
www.phidias-hpc.eu

[@PhidiasHpc](https://twitter.com/PhidiasHpc)

phidias-contact@cines.fr



NEOVIA
INNOVATION



 CERFACS



 GEOMATYS



 Institut de Recherche
pour le Développement
FRANCE



 Ifremer

SPASCI A

 Trust-IT Services
Communicating ICT to markets