



# PHIDIAS

Prototype of HPC/Data Infrastructure for On-demand Services

## Final impact webinar: The technical architecture of PHIDIAS HPC (12 Jul 2022)

Jean Christophe Penalva

*PHIDIAS WP2, CINES*



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

## Objectives :

### Architecture around HPC services :

-  New methods

-  Security concerns






### Work with Scientific WP4, 5 and 6:

-  Work to identify needs

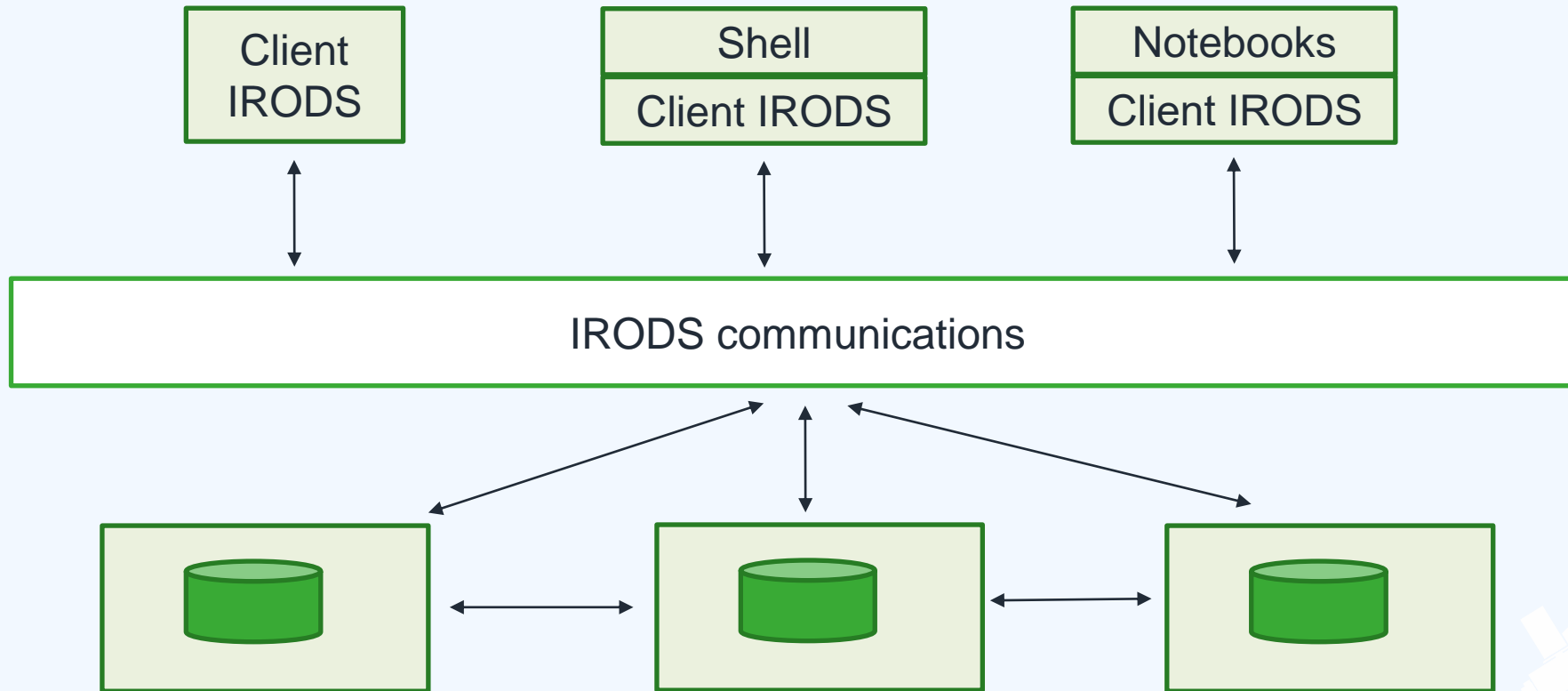
-  Search for the minimum services shared by all WPs



## Technologies :

-  IRODS
-  Notebooks
-  Batch jobs in HPC environment
-  Containers
-  Portal





- 🌐 notebooks :
  - 🌐 On Occigen (HPC environment at CINES)
  - 🌐 On K8S (on a new cluster Phidias)
- 🌐 Containers :
  - 🌐 Singularity on Occigen (for Batch jobs)
  - 🌐 Docker on K8S
- 🌐 Portal : Zoo-Project (outside CINES)
- 🌐 Security everywhere (always !)



# Thank-you



[www.phidias-hpc.eu](http://www.phidias-hpc.eu)

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

[phidias-contact@cines.fr](mailto:phidias-contact@cines.fr)



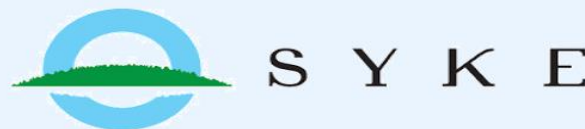
NEOVIA  
INNOVATION



CERFACS



GEOMATYS



Institut de Recherche  
pour le Développement  
FRANCE



Ifremer

SPASCIA

Trust-IT Services  
Communicating ICT to markets