

# VESPA-Cloud Update #3

Virtual European Solar and Planetary Access Europlanet-20204-RI

Website: <a href="http://europlanet-vespa.eu">http://europlanet-vespa.eu</a>

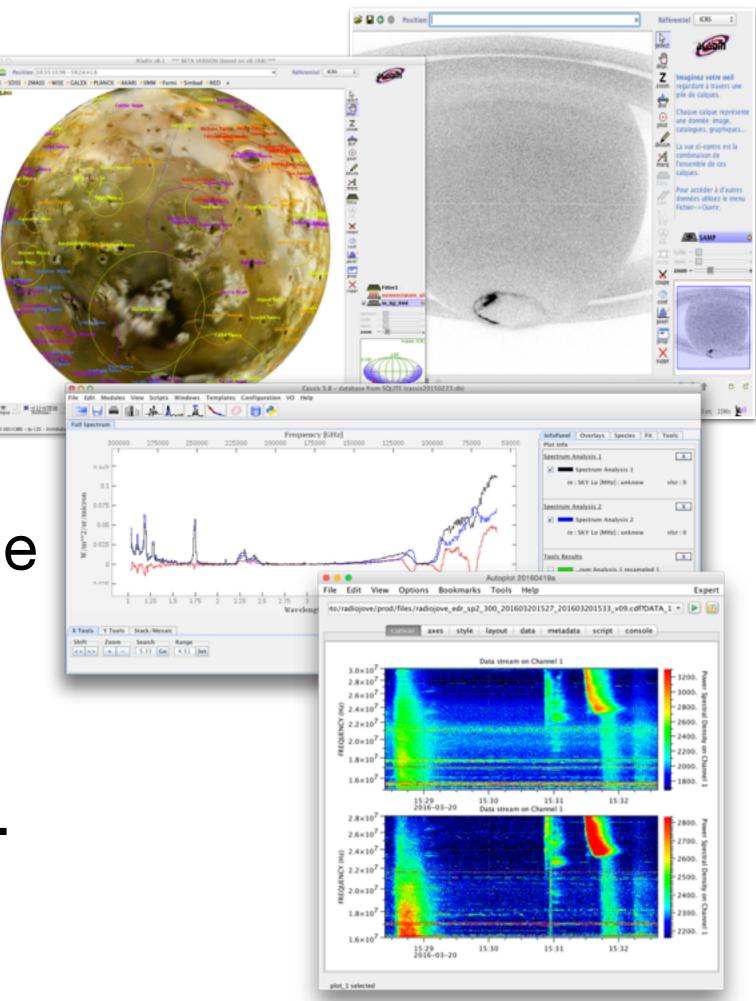
Main Query Portal: <a href="http://vespa.obspm.fr">http://vespa.obspm.fr</a>

Baptiste Cecconi (Obs. Paris) & Baptiste Grenier (EGI)



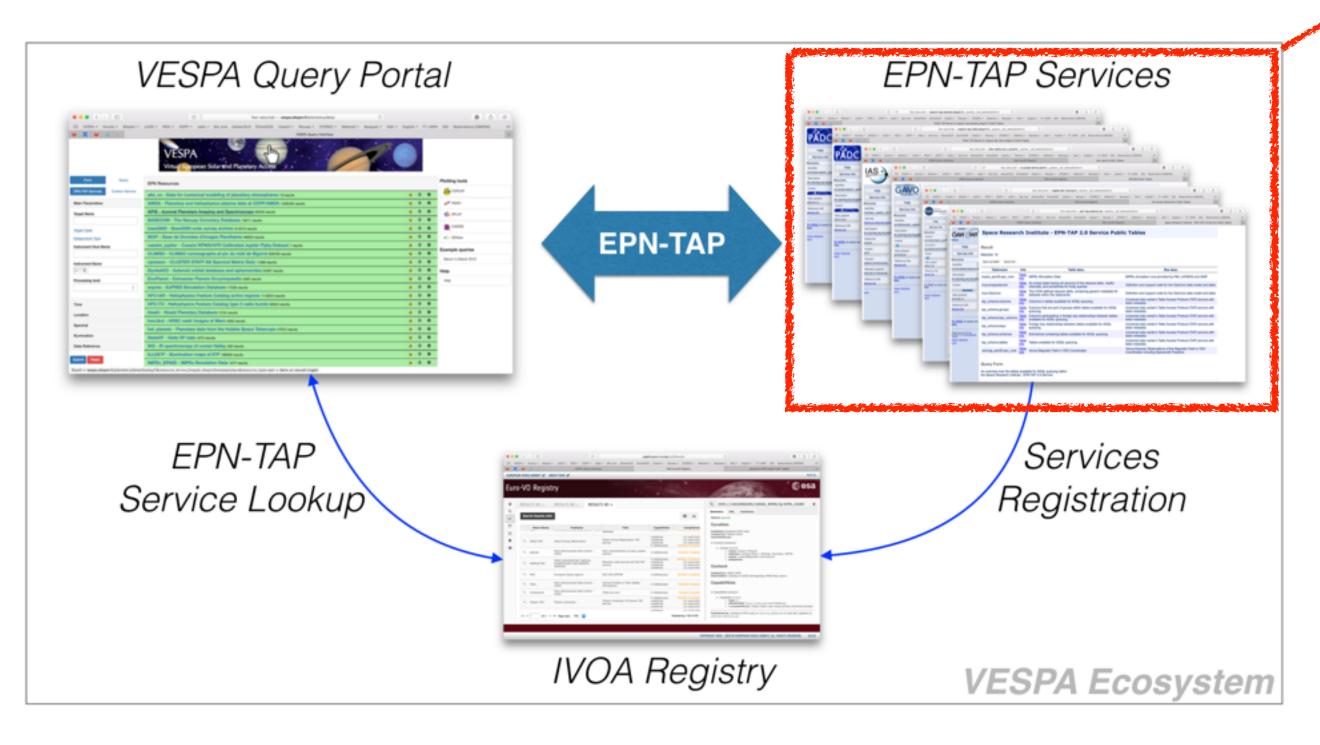
#### A distributed Virtual Observatory for Solar System Sciences

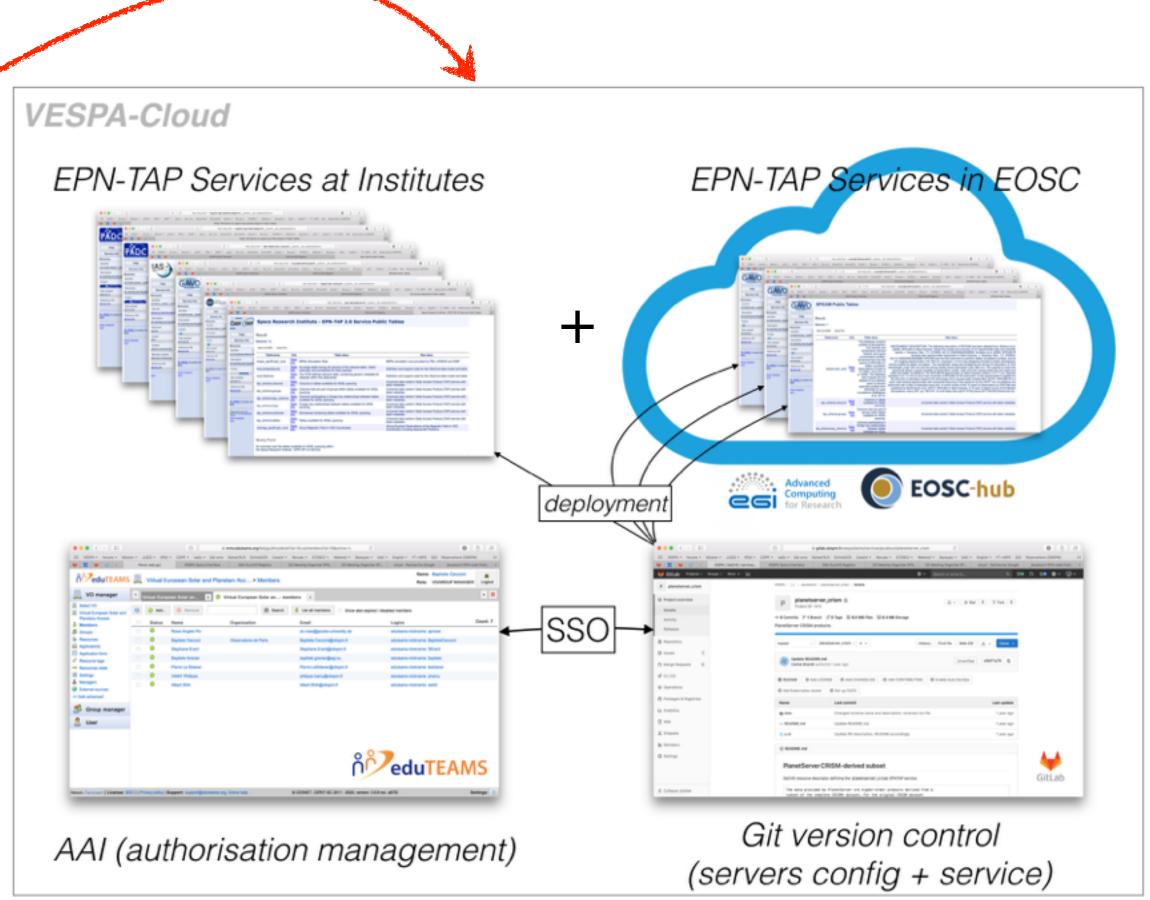
- Sharing metadata for science data products using relational databases and a standard metadata (target, observer, location, spectral range, time range, physical parameter, product type...)
- Distributed virtual research environment:
  - Astronomy interoperability framework (IVOA) and the tools developed by this community
  - Other interoperability standards from *heliophysics*, *planetary sciences* archives, and associated tools...
  - Community recommended data formats





#### A distributed Virtual Observatory for Solar System Sciences



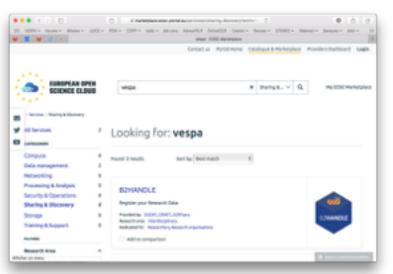


### VESPA-Cloud Virtual European Solar and Planetary Access

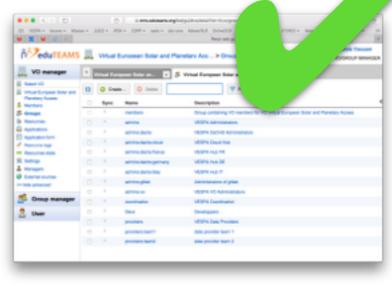
#### Service configuration and metadata management

- Provider orders a VESPA-Cloud service
- VESPA-Cloud registers Provider in VESPA-Cloud VO (eduTEAMS)
- Provider is authenticated through eduTEAMS to access GitLab server
- Provider manages his service configuration and metadata in GitLab
- VESPA-Cloud deploys the service configuration on server instances (DaCHS on EGI, Storage on B2SAFE...)

#### Marketplace

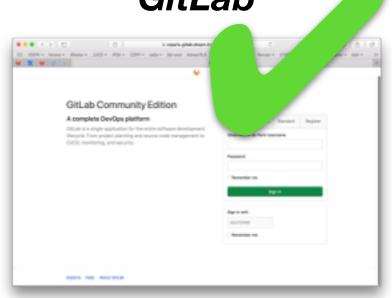


*eduTEAMS* 

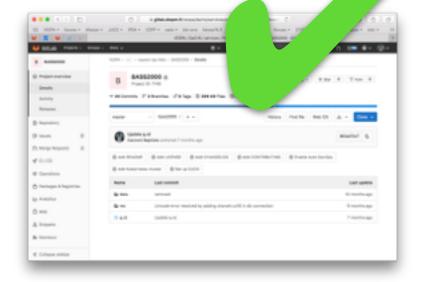


AAI

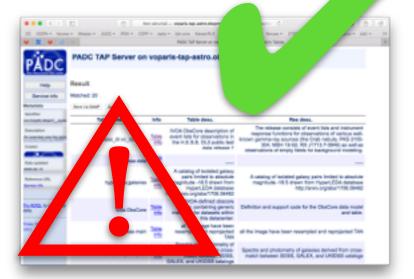
GitLab



GitLab



**DaCHS** 



**VESPA** 



server config.

service config.

openstack deployment

accessible and findable

(not failsafe, redeploy script needed)

## VESPA-Cloud Virtual European Solar and Planetary Access

#### VESPA VO Community AAI with eduTEAMS

- implemented and configured.
- mapped to <u>vo.europlanet-vespa.eu</u> at EGI-CheckIn AAI for VM deployment authorization
- VM resources at CESNET and CC-IN2P3
  - access granted and tested (with manual deployment)
  - SLA in place
- Storage resources: not tested.

Marketplace: not started

- Issue:
  - need for automation for reloading VM resource.

### VESPA-Cloud Sustainability plans

- VESPA-Cloud infrastructure:
  - AAI (eduTEAMS)
  - Storage spaces (EUDAT, EGI)

- DaCHS Services (EGI IN2P3+CESNET)
- Community + Marketplace
- Ambitious initial programme of work. Not all done, but promising prototype.
- What happens now:
  - On VESPA side, willing to continue prototyping of current architecture
  - Continuation of SLA
  - Extensions: let's first finish this one