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Research software services

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► **To cite this version:**

Teresa Gomez-Diaz, Vincent Legoll, Jérôme Pansanel, Sorina Camarasu-Pop, Genevieve Romier. Research software services. EGI 2017, May 2017, Catania, Italy. , 2017, 10.5281/zenodo.1405606 . hal-01806908

HAL Id: hal-01806908

<https://hal.science/hal-01806908v1>

Submitted on 4 Jun 2018

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Research software services

FG-SOL : access & preservation for research software

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Vision: to create the necessary environment where research software can be discovered, studied and re-used by other researchers in order to validate and reproduce published results, which will produce new knowledge.

Résumé

- collaborative design: CNRS, EGI.eu, IASA, University of Edinburgh
- user-driven design approach
- considering research software producer needs
- structure: sound, flexible, scalable, easily adaptable

SOL2020

March 2016



Access

- based in two existing components: EGI AppDB, PLUME
- metadata, software description, with links to publications and data
- produces: catalogue, search interface

Preservation

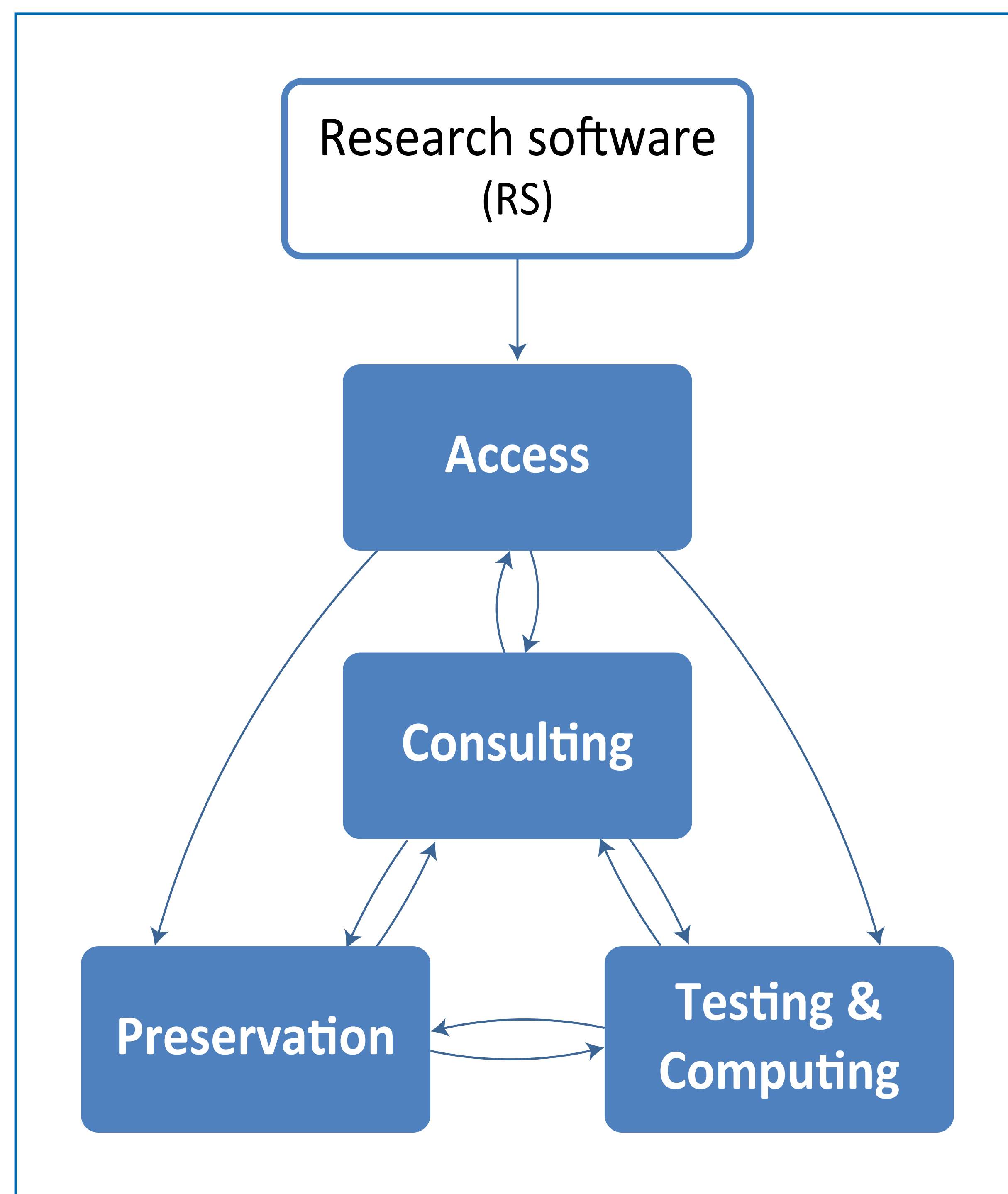
- first level of preservation
- to recover a fixed copy of RS
- based in EUDAT data services: B2SHARE, B2SAFE
- produces: RS retrieval interface

Consulting

- Software Sustainability Institute (SSI), PLUME
- goal: improve research software dissemination
- produces: documentation, support, training

Testing & Computing

- user interface for RS test and re-use
- access to source code
- based in EGI computing services
- produces: RS user interfaces



FG-SOL

work in progress

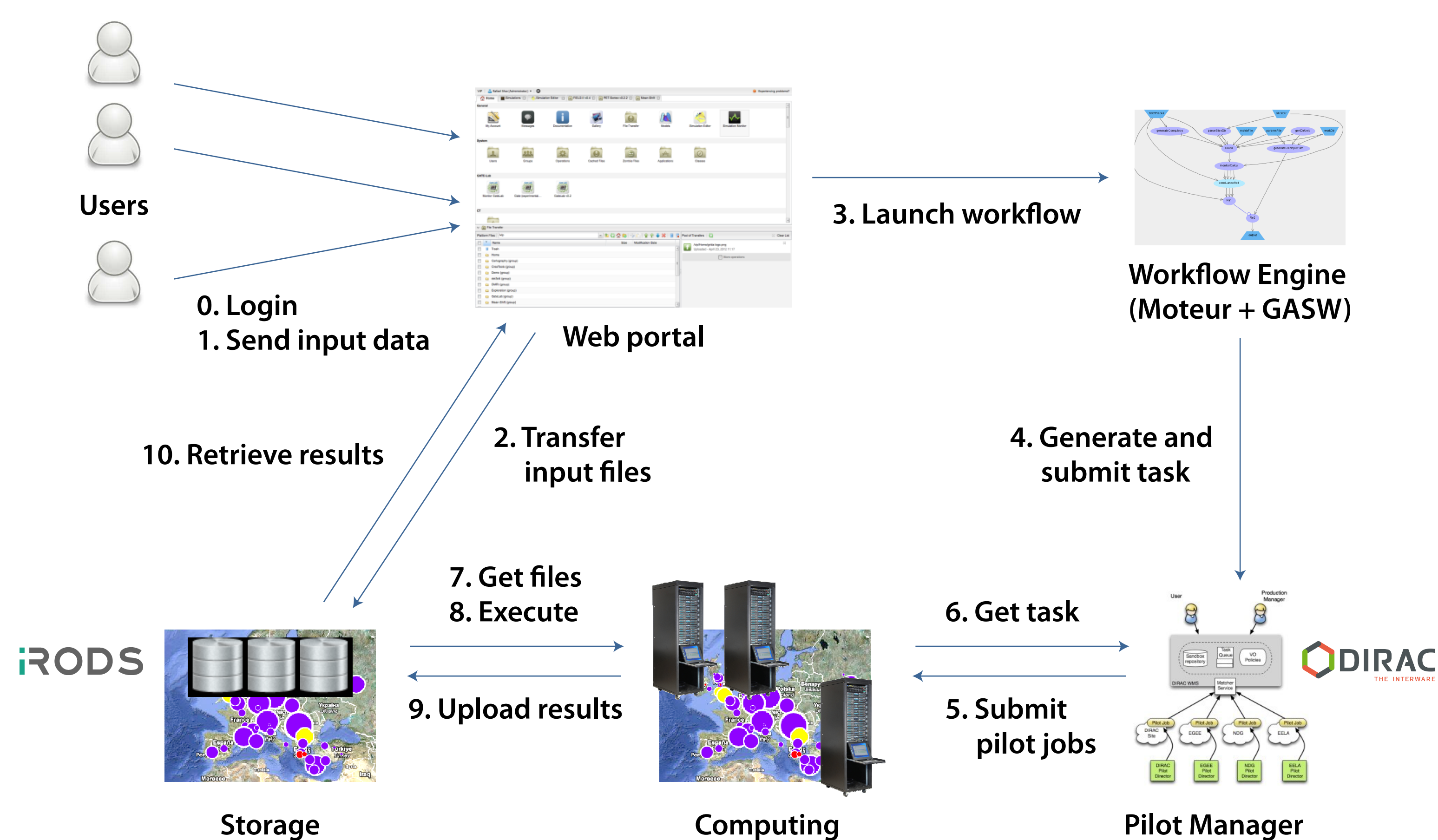
Aims

- to implement SOL2020 research software services
- following a pragmatic roadmap
- to be opened soon in France Grilles
- goal1: provide services in France
- goal2: to be extended to European level in collaboration with our SOL2020 partners, and to link with existing e-infrastructures

Technical Architecture

- based on FG existing services and resources
- portal with its own VIP instance
- use of FG-DIRAC instance to execute jobs
- execution on the IPHC Cloud Computing resources
- data storage using FG-iRODS

VIP architecture adopted by FG-SOL



France Grilles

- French National Grid Initiative
- represents France within EGI
- distributed computing infrastructures for data storage and analysis

Supported by
FG EGI

VIP: Virtual Imaging Platform

Developed by
CREATIS



EGI Conference 2017
Catania, 9-12 may 2017

Keywords: infrastructures, open science, research software, reproducibility, accessibility, free/open access.