



The Adonis research data preservation project for digital humanities in France

What is Adonis ?



The aim of the Adonis project is to provide computing, data storage, data access and data management facilities to the french research community on Digital Humanities, based on a shared infrastructure.

It should also promote and coordinate high level application software development dedicated on digital humanities content treatment.

Adonis was created 2 years ago by the CNRS. The reflection really started 1 year ago.

The CNRS is the National Center for Scientific Research. It is a national institute and it covers all scientific research activities from digital humanities to HEP.

~25000 collaborators working on as scientists, engineers, techniciens and administratives.

It works in coordination with the french universities and also with 5 other specific national institutes (CEA, IFREMER, INRA, INRIA, INSERM).

- Research on digital humanities:
 - Ministry of education and research
 - Ministry of culture
- Digital humanities data are spread over:
 - CNRS
 - Universities
 - Archive of France (national, regional, ...)
 - Museums (national, regional, ...)
 - Libraries (BNF, ...)

Hopefully, Adonis is only concerned by research data !

▶ European contacts



Similar activities are starting in other european countries and some projects are done at European Community level like DARIAH, CLARIN, ...

Adonis is involved in these european projects.

→ hope to have national infrastructures that can exchange informations

Aim of the project & the CRN's



The Adonis project is based on the network of the ~12 Numerical Resources Centers (CRN) and 2 computing centers (CC-IN2P3 & CINES). The CRN are dedicated to specific data subjects and studies.

These CRN's have limited resources and can not manage long term preservation:

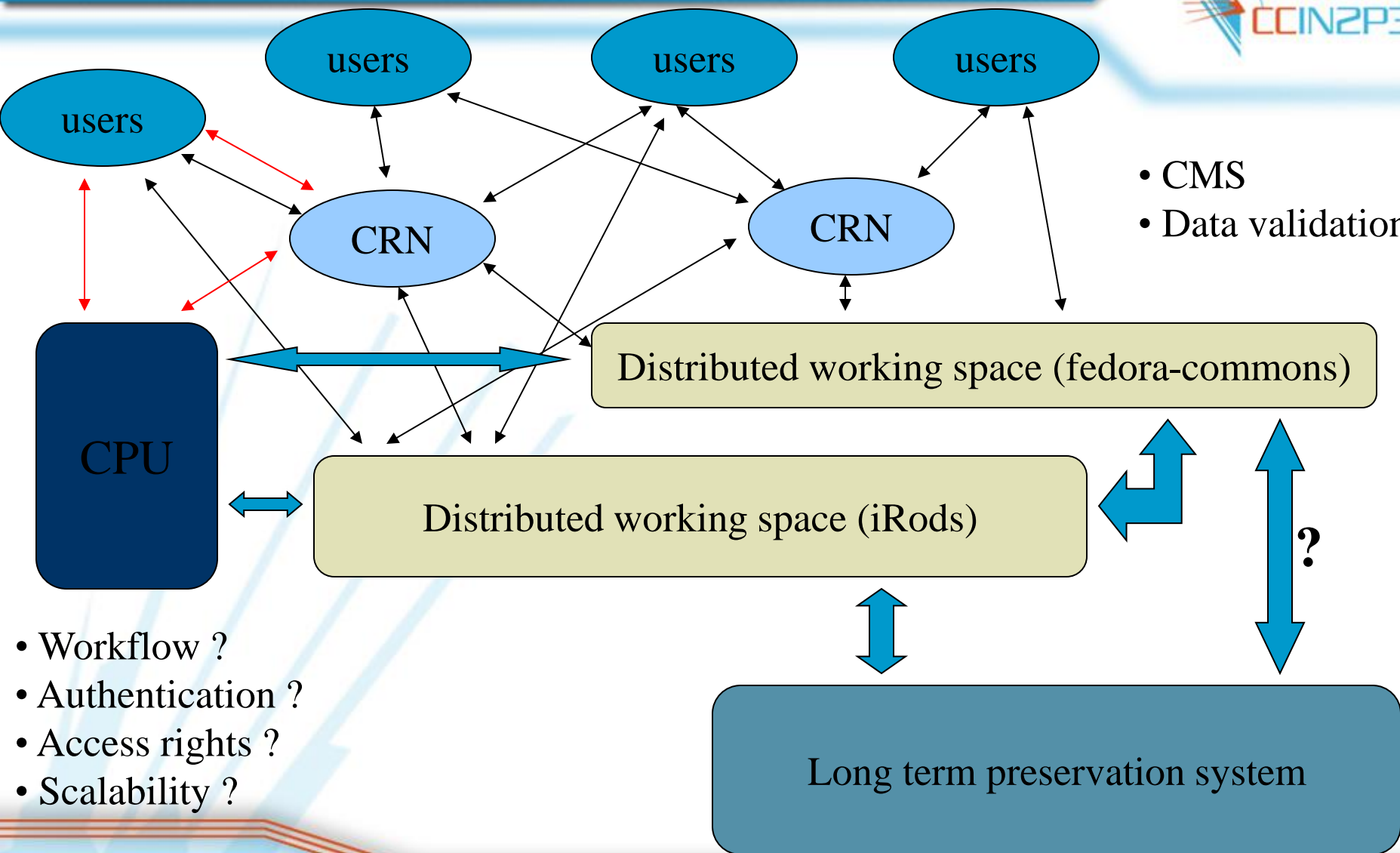
- ➡ externalization of the data to computing centers (200-300 TB)
- ➡ use a shared infrastructure.
- ➡ concentration on high level application for data content treatment

CC-IN2P3 & CINES in Adonis



- The CC-IN2P3:
 - Data management, data access, data storage
 - Computing
 - Web servers, databases, ...
- The CINES:
 - long term data preservation (format, physical support)
 - data format check & metadata check

Infrastructure architecture



Technologies used



- Numerical object level:
 - fedora-commons (web services, api's)
- File level:
 - iRods & i-commands
 - iRods api's (java, php)
 - java & windows iRods browsers
- Authentication:
 - LDAP ? Shibboleth ? GSI ? ...
 - Authentication transmission ?
- Access rights management:
 - LDAP ? RDB ? ...
- Video streaming

We need performances at each level.



Thank you