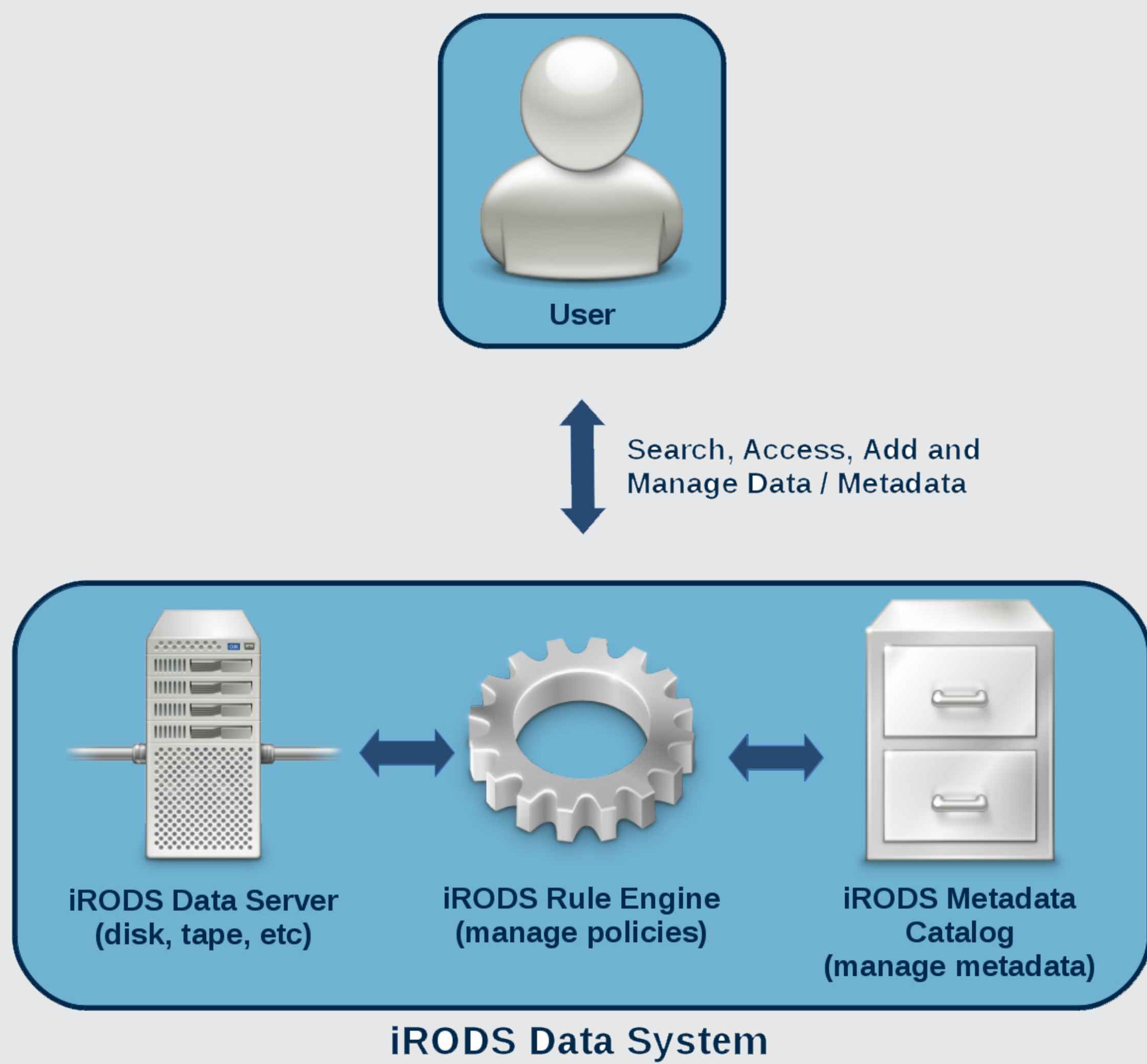


French NGI Distributed Storage Infrastructure: An Easy-to-Use and High-Availability Solution Powered by iRODS

What is iRODS?

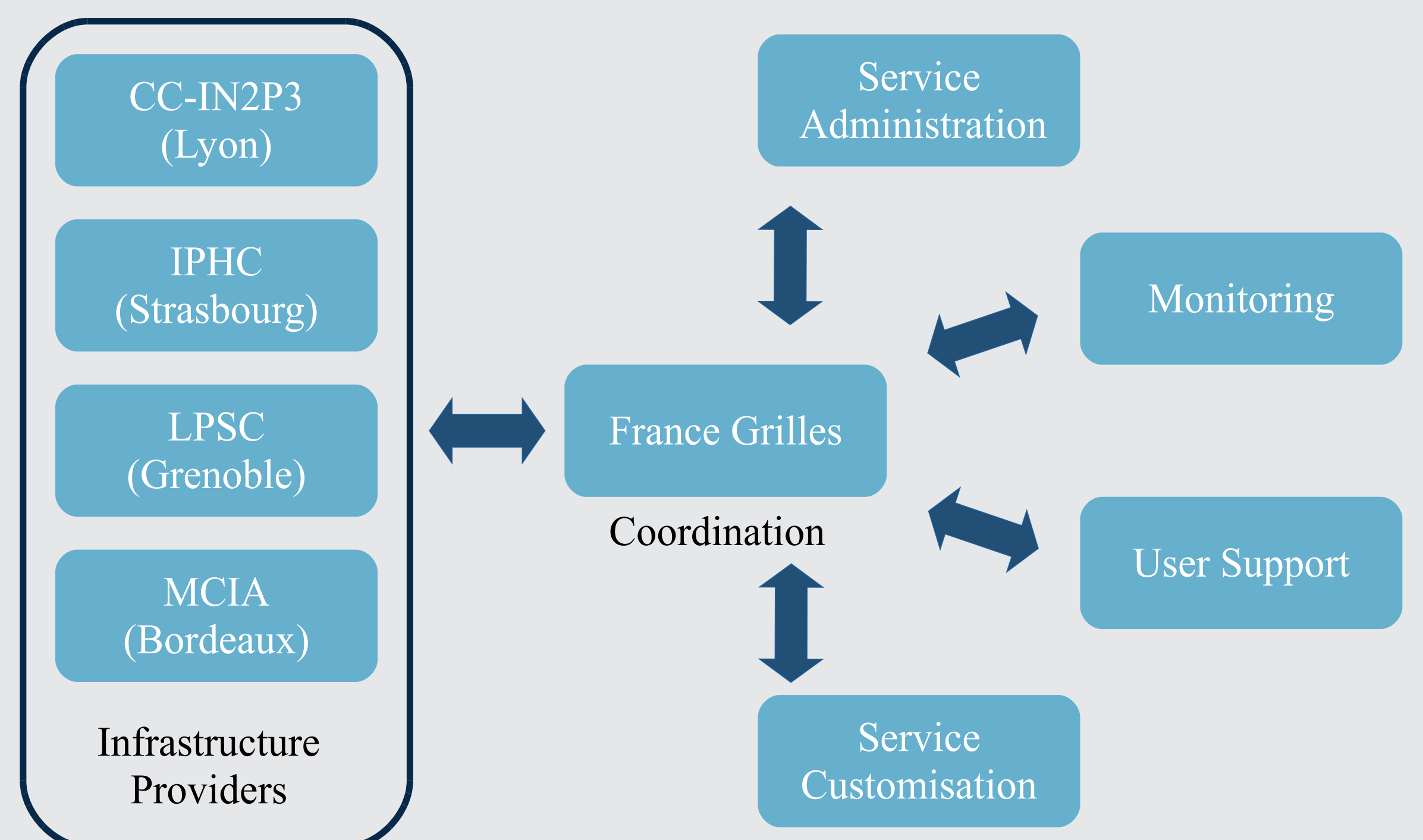
iRODS is a data grid software system providing a transparent access to data spread over different physical locations and heterogeneous storage technologies.

Developed by the Data Intensive Cyber Environments group at the University of North Carolina at Chapel Hill and the University of California, San Diego.



Collaboration

- National instance coordinated by the French NGI "France Grilles"
- Administrated collectively by three partners
- Centralised iRODS rule engine and catalogue to enforce coherent and homogeneous data management
- Resources distributed in different locations for high data availability



Access to the service

For whom?

- Scientific projects
- Single user or group
- Any scientific field

How?

- Contact and expression of needs
- Integration to the French National VO
- Acknowledgments for iRODS and France Grilles in resulting publications

Goals

- Analysis of large data volumes
- High availability by data distribution or replication over several locations
- Physical organisation of data transparent to users
- Automatic data annotation
- Data findable by metadata search
- Fine-grained access control
- Data available from desktops, grids and clouds
- Continuous user support including tutorials, personalised advice and case studies of the user specific applications