



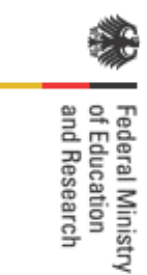
Status and plans



INDIGO - DataCloud

Patrick Fuhrmann

On behalf of the project team





Non-technical news

News on the team composition



Some changes at DESY

- Karsten left for a better job in industry
- New people
 - Marina (RESTful service and release mgnt)
 - Anupam (AAI)
 - Femi (GUI and Web 2 applications)
 - Jürgen (QoS in Storage and Release mgnt)
 - New person (N.A.) starting an about 2 m

More new people



Dr. Millar and Baby Ben

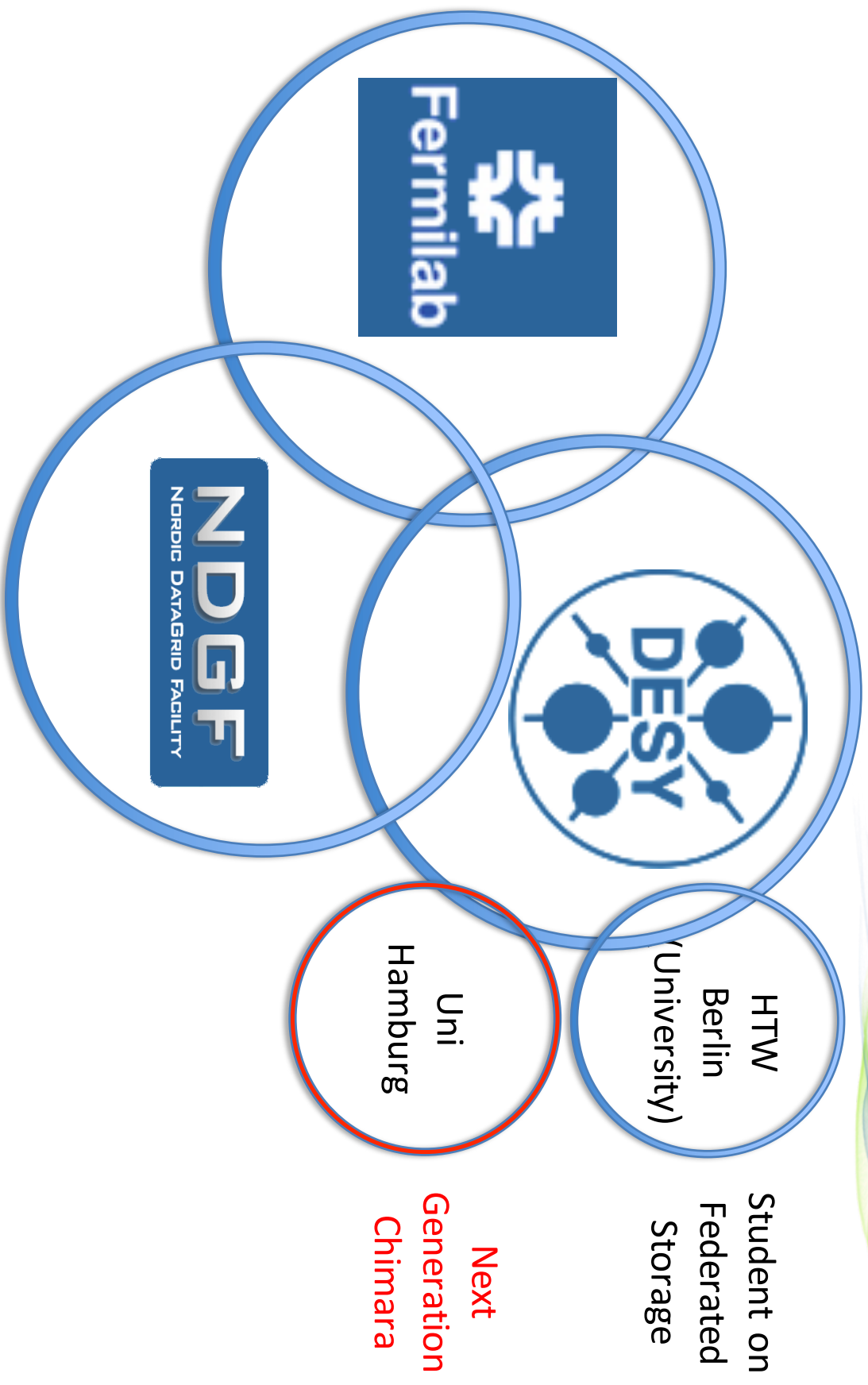
**Benjamin joined
2016-03-23, at 08:47**





Reminder : Our collaboration

The dCache.org collaboration





On funding



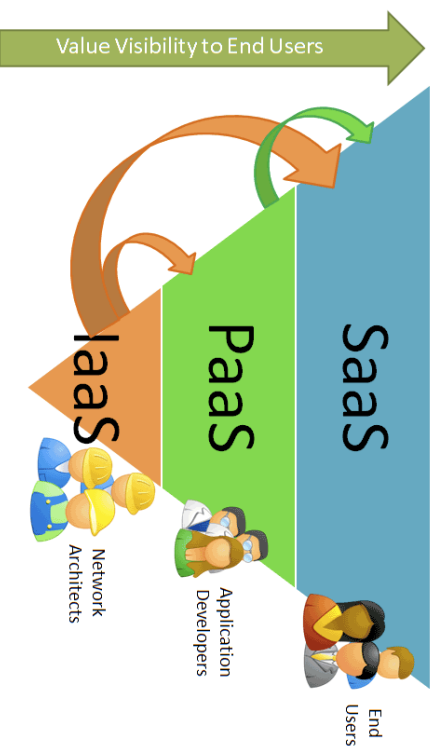
- Horizon 2020 project started April 2015
- Project led by INFN Italy
- Budget 11.1 Million Euros (800.000 for dCache)
- 26 Partners = 11 European Countries
- Duration 30 months (about 15 left now)
- The project aims for an Open Source Data and Computing platform targeted at scientific communities, deployable on multiple hardware, and provisioned over private and public e-infrastructures.

INDIGO in a nutshell



In the end,
Applications Rule.

1. Self-service, on-demand
2. Access through the network
3. Resource pooling
4. Elasticity (with *infinite resources*)
5. Pay as you go

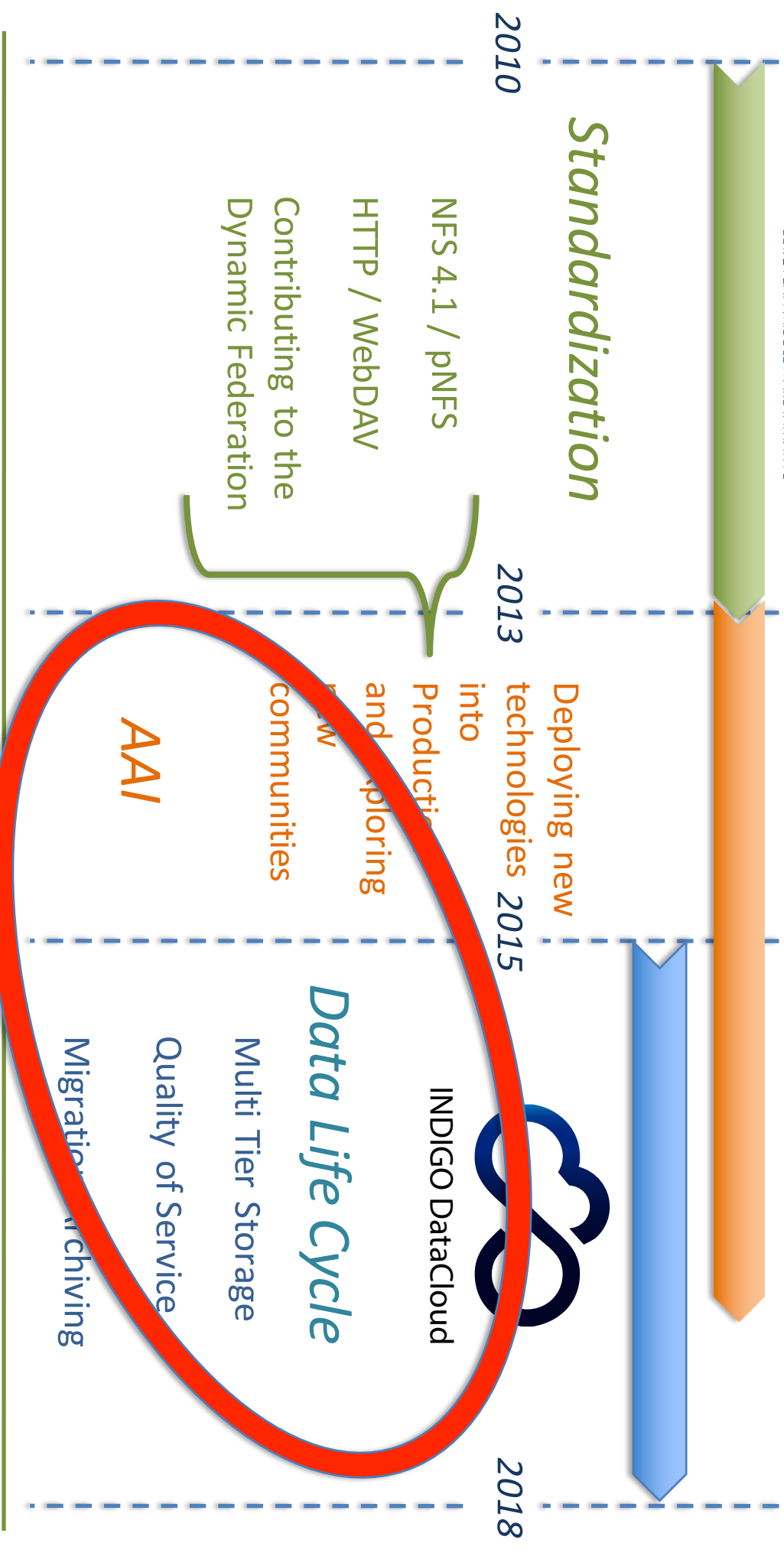


Stolen from Davide Salomoni (Project Director)



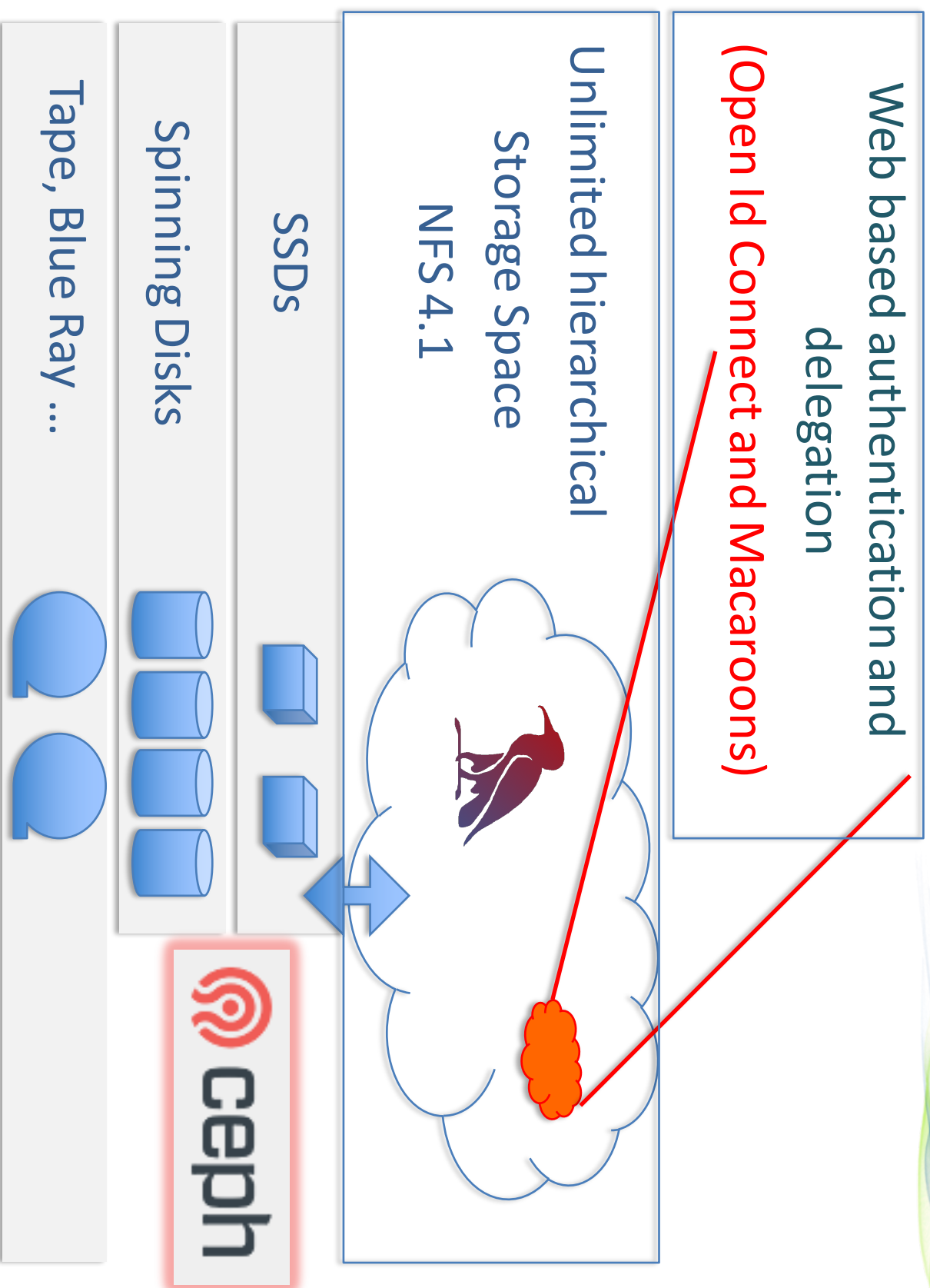
Funding and technology directions

Funding influences dCache development topics



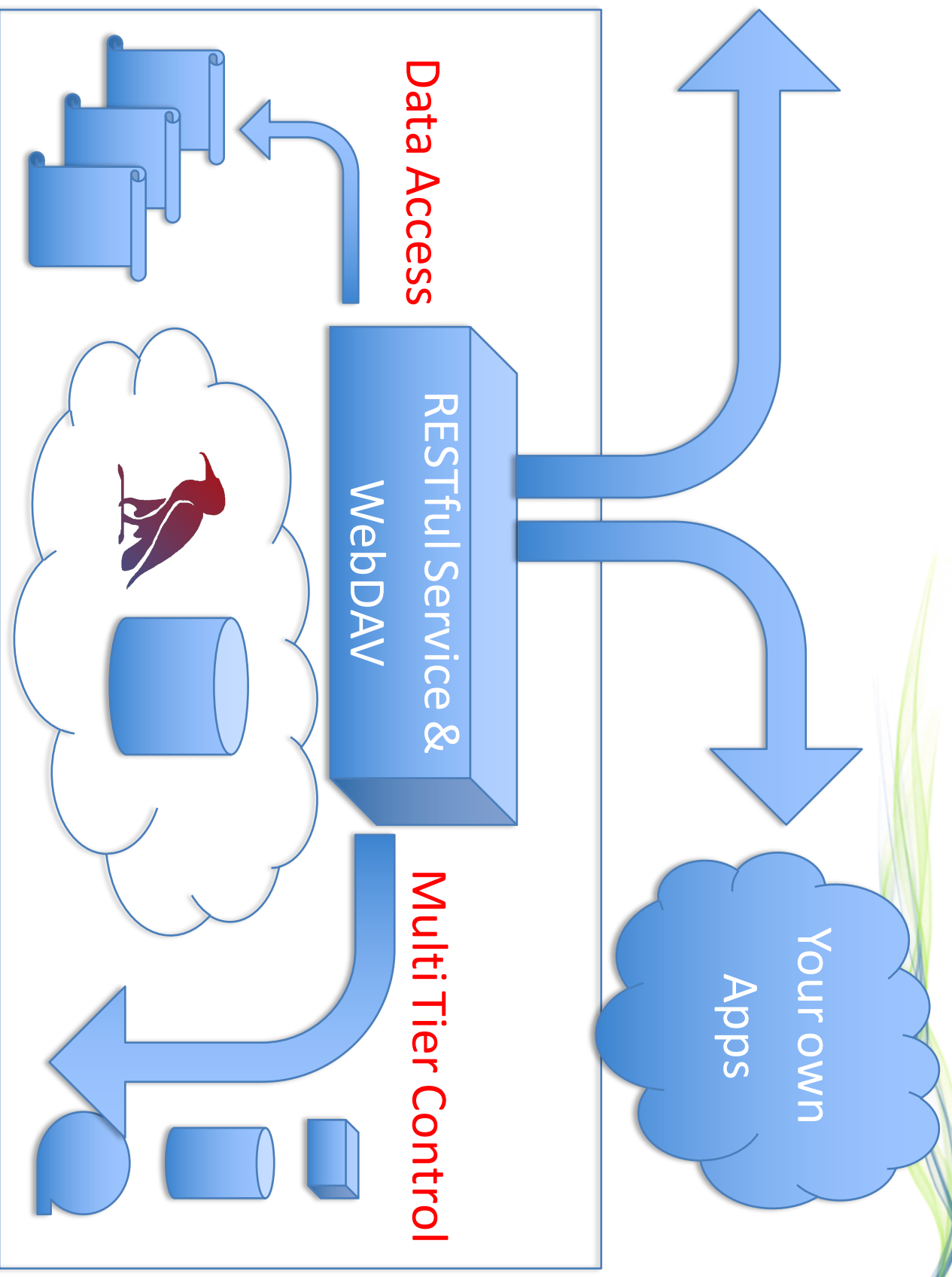
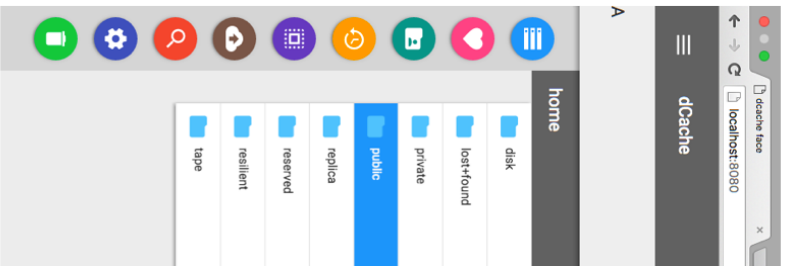


High level technical overview



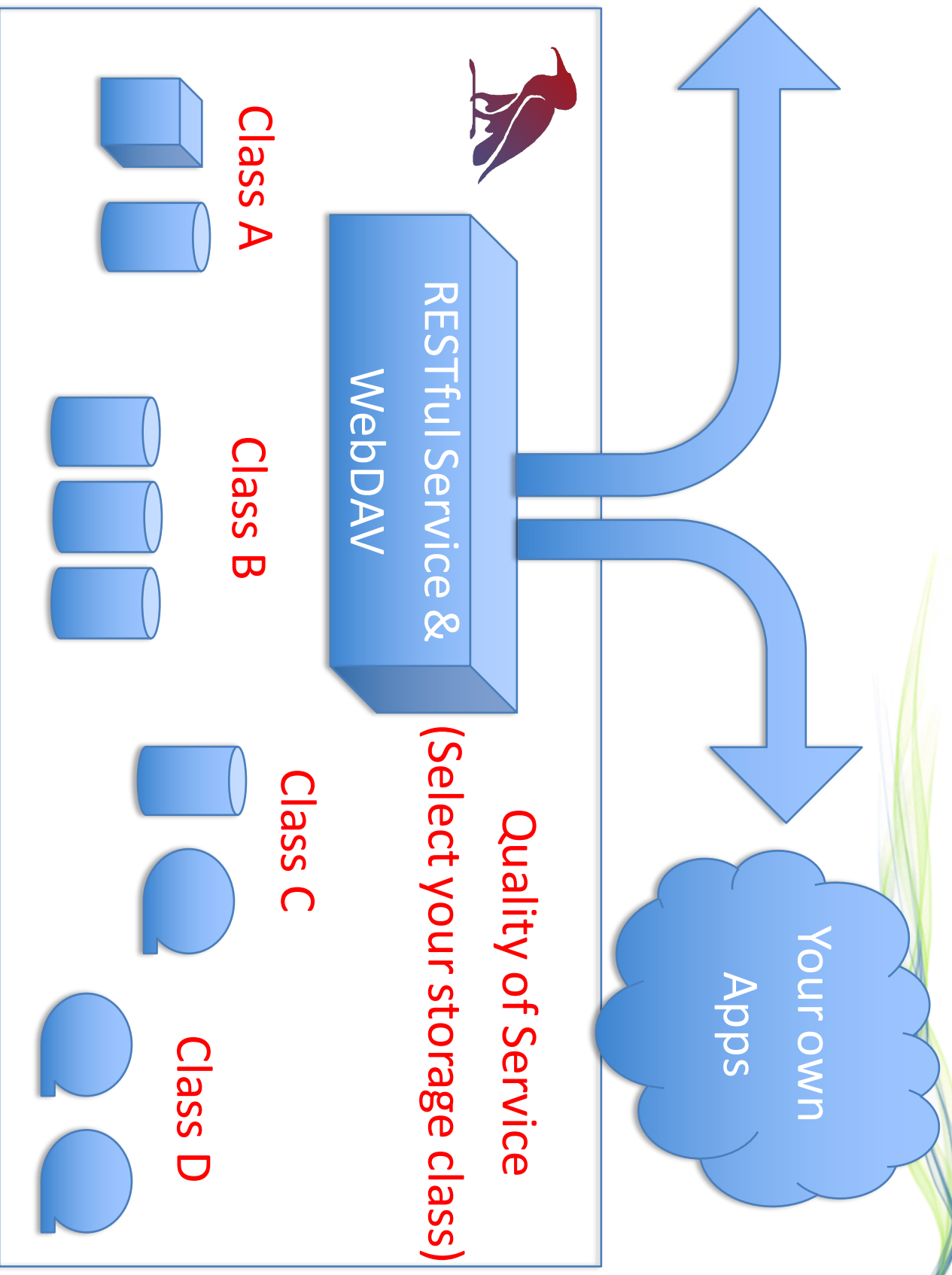
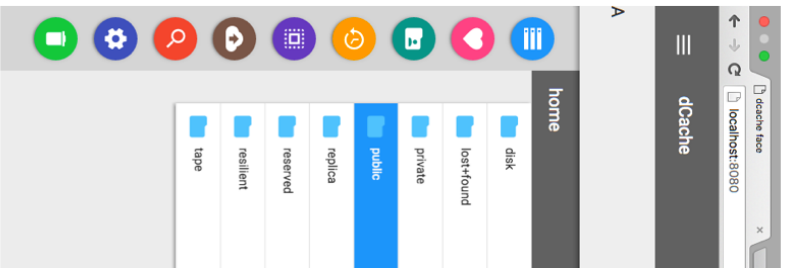
New approaches in dCache

dFace



New approaches in dCache

dFace





And many more things afoot



On the meeting today and tomorrow (resorted agenda)

We'll talk about (cont.)



- What's new in dCache (Gerd)
- dCache Release Process (Marina and Jürgen)
- dCache Operations
 - Puppet : (Oleg, Christina)
 - dCache in Docker (Tigran)
 - Ganeti (Ulf)
 - Multi VO SRM in dCache (Marc)

We'll talk about



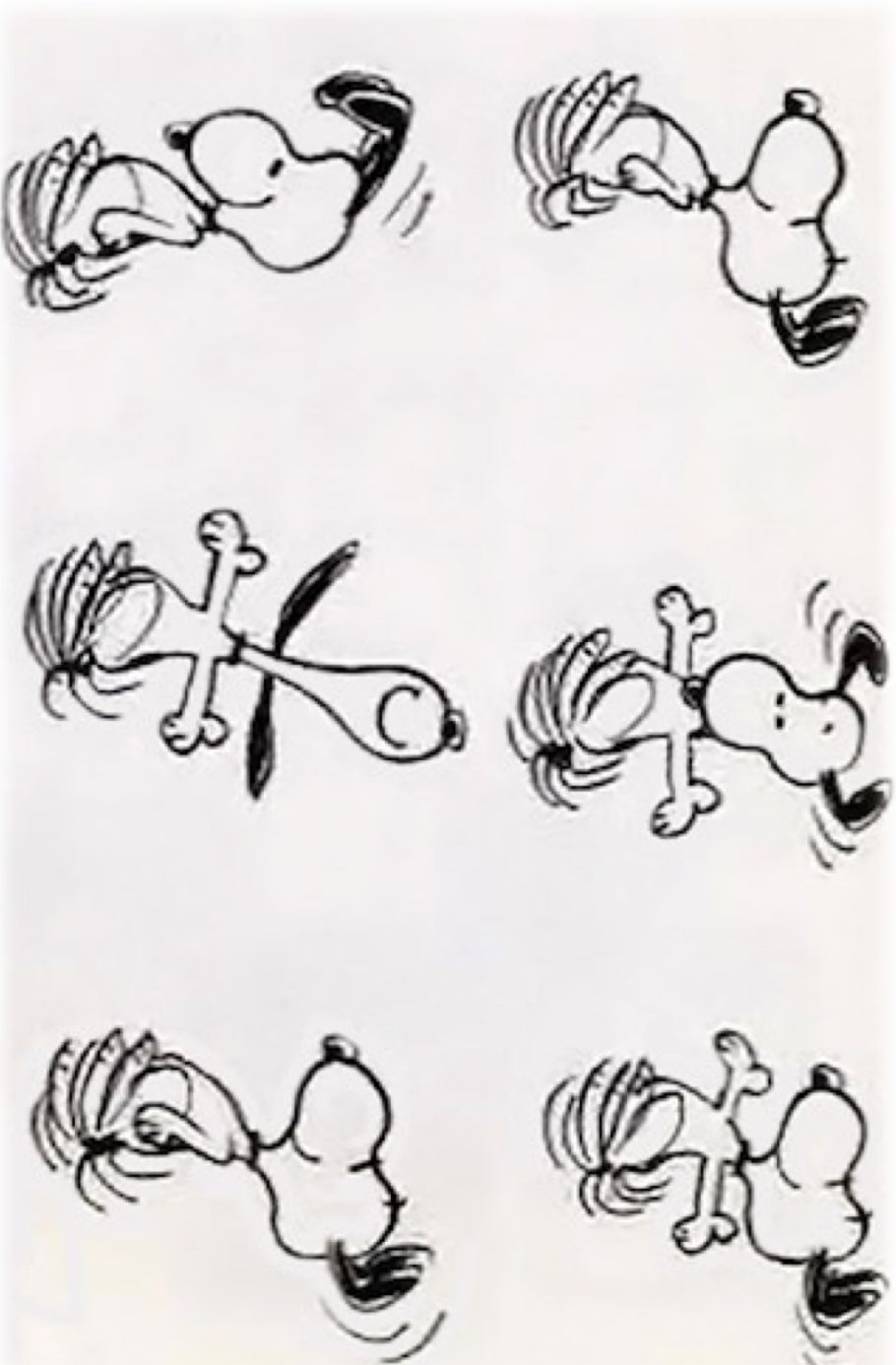
- Ongoing development
 - DEMO on the resilient manager (Dmitry)
 - RESTful API into dCache (Marina)
 - New Graphical Interface (Femi)
 - New Authentication Mechanisms (Anupam)
- dCache Lab's:
 - Trying out dCache for local use at Nikhef (Andrew)
 - Zookeeper in dCache (Gerd)
 - Adapting new storage interfaces, CEPH (Tigran)
 - Delegated Authorization (me)
- Sharing directly in dCache and QoS (me too)

Special Contributions



- Dave Fellingner
 - “Exploring the Efficiencies of Operating dCache in a Virtual Environment On a Mass Storage System”
- Lightning Talks
 - Whatever you think is worth mentioning in terms of storage technologies ... or something really funny. (according to Christian)
- Special Announcement by Mattias

Enjoy the workshop



dCache is well prepared



Historically dCache supports multi-tier storage and the corresponding transition.

Automatic

NFS/pNFS

httpWebDAV

gridFTP

xRootd/dCap

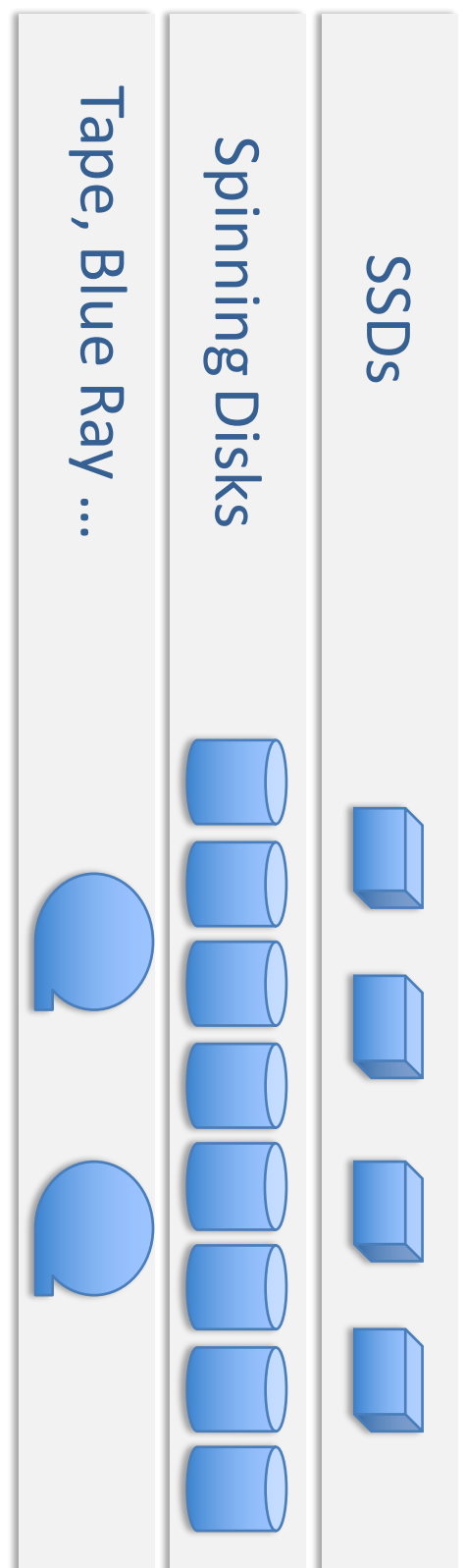
and



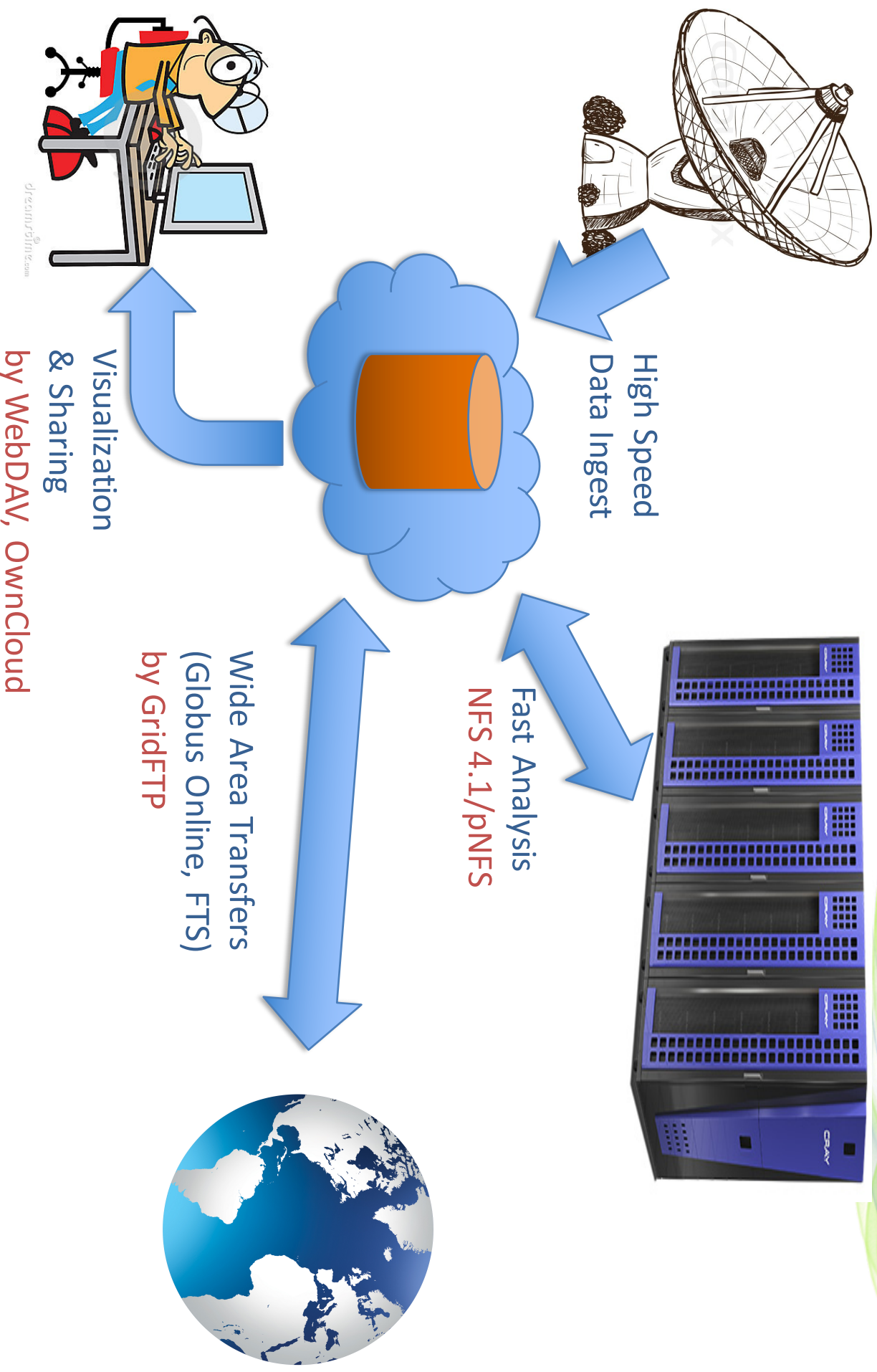
Manual

Virtual File-system Layer

Media transitions



Scientific Data Lifecycle





The END

further reading

www.dCache.org