



MAX PLANCK
COMPUTING & DATA FACILITY



GITLAB AT MPCDF

Raphael Ritz, Head of MPCDF Data Division

Future Opportunities for Software in Research – Plön, May 13, 2022



1961 ...

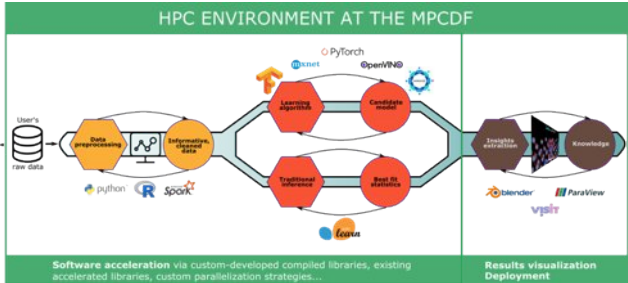
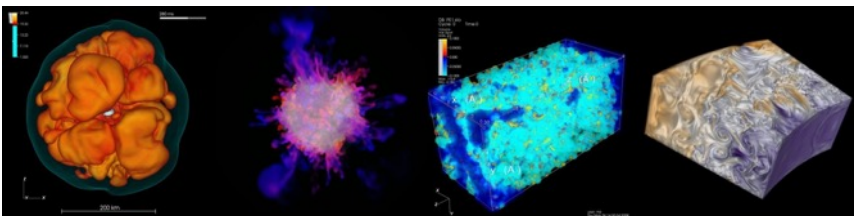
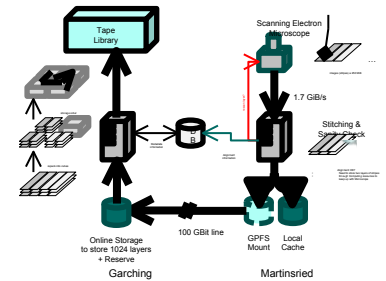
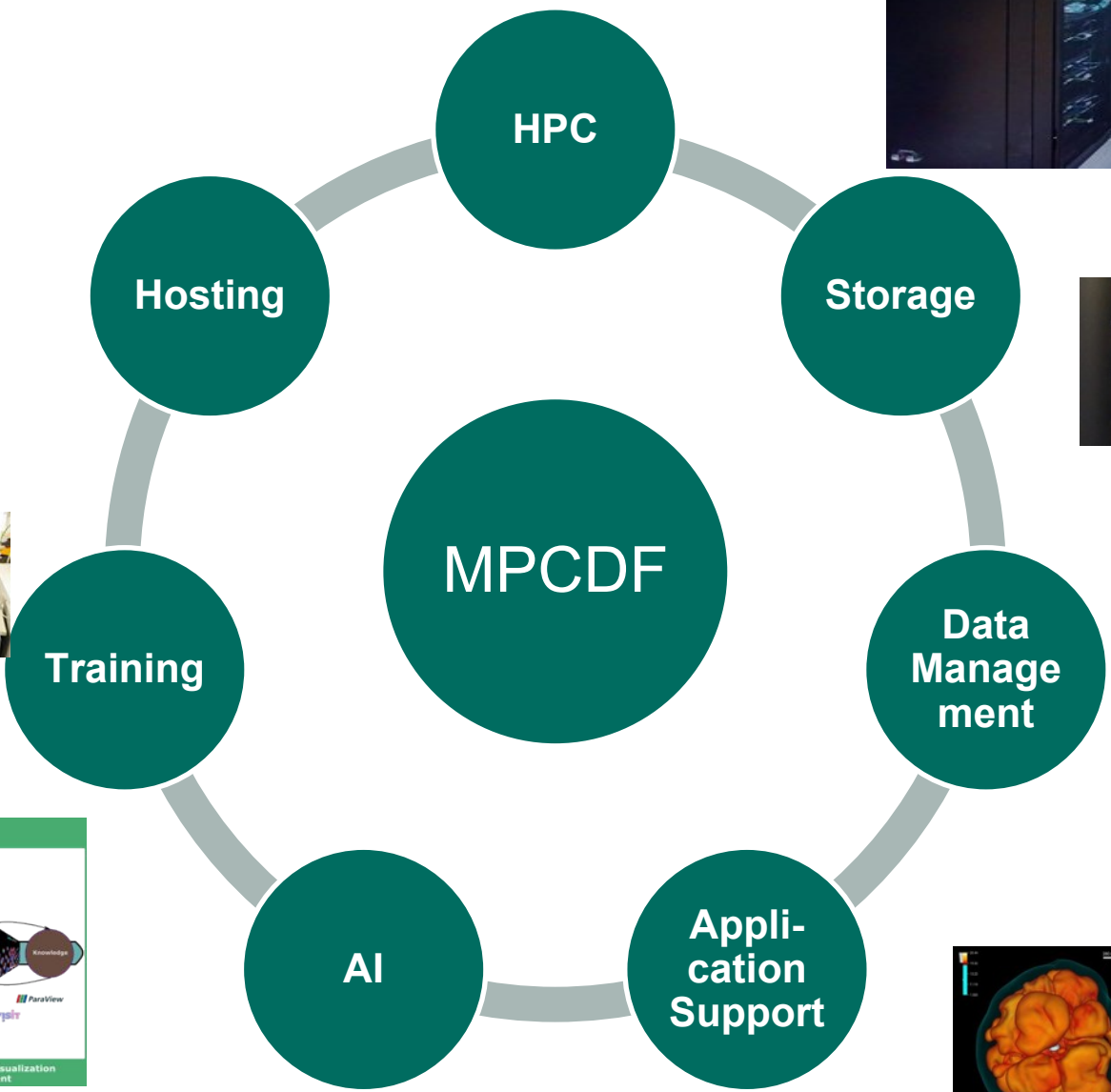
IPP procured an IBM 7090



The birth of “Rechenzentrum Garching” (RZG)



FROM HPC PROVIDER TO COMPREHENSIVE COMPETENCE CENTRE





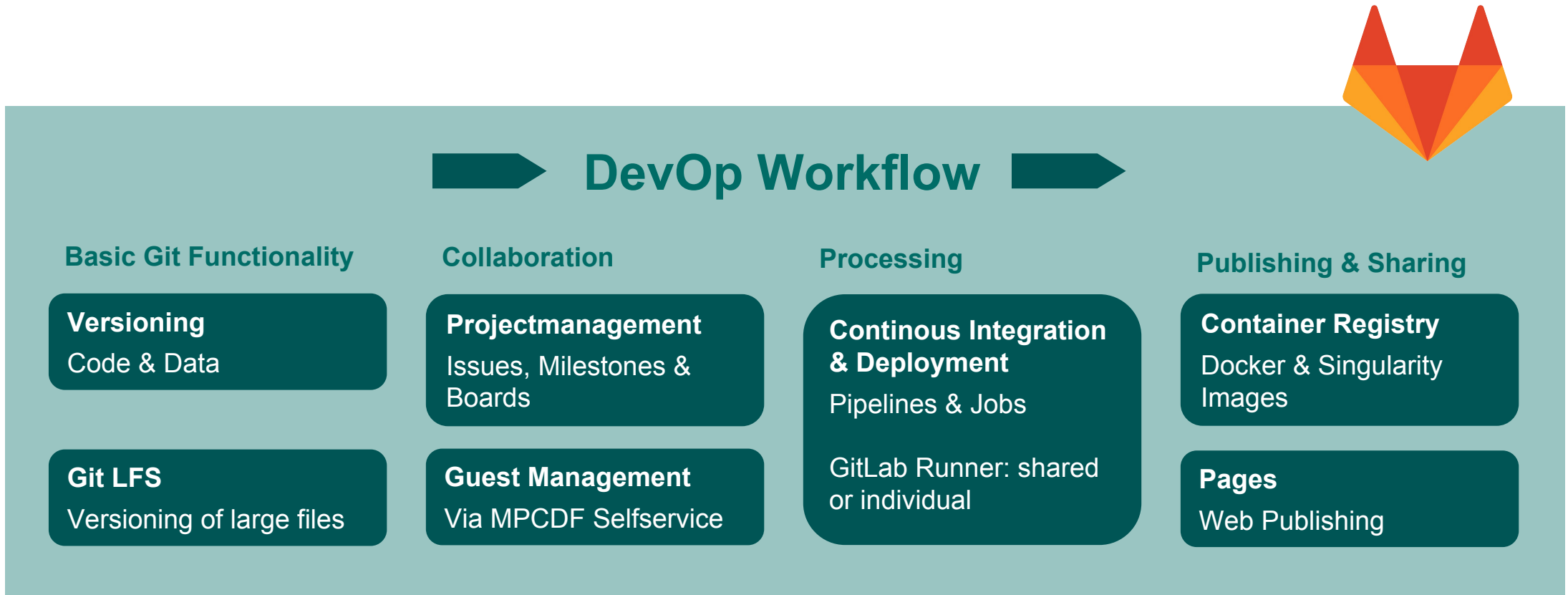
THE GITLAB ECOSYSTEM @ MPCDF



Functionality		Usage (May 2022)
Git Code & Data Versioning	Container Registry Docker & Singularity Images	4.000 Users
Projectmanagement Issues, Milestones & Boards	Pages Web Publishing	5.900 Repositories
Continous Integration & Deployment Pipelines & Jobs	Git LFS Versioning of large files	214 Groups
GitLab Runner: shared or individual	Guest Management Via MPCDF Selfservice	129.000 Pipelines
		11.000 Issues
		10.500 Merge Requests



THE GITLAB ECOSYSTEM @ MPCDF



We deploy the community edition – together with MPDL working on license options ...

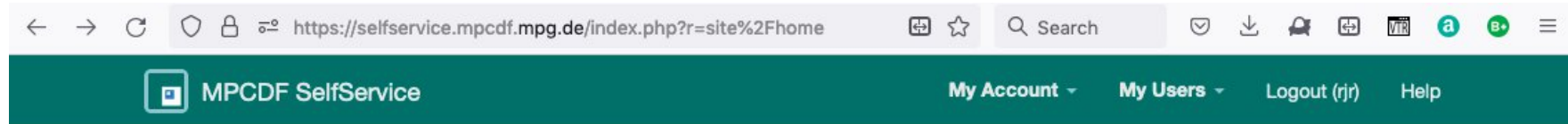


GETTING STARTED

- 1. You need to have an MPCDF Account – available to all in the MPG**
 - Registration: <https://selfservice.mpcdf.mpg.de/register/antrag.php>
- 2. With that account you can then use MPCDF's Self Service <https://selfservice.mpcdf.mpg.de> to**
 - Activate Gitlab for yourself
 - Invite non-MPG people as guest users



[HTTPS://SELFSERVICE.MPCDF.MPG.DE/](https://selfservice.mpcdf.mpg.de/)



USER MANAGEMENT



Supervised MPCDF Accounts

MPG employees with an MPCDF account that you supervise



External Guests

Your external collaborators on GitLab and DataShare



New Guest Invitation

Invite a new collaborator to GitLab or DataShare



Bulk Invitation

Invite multiple new collaborators to GitLab or DataShare

MPCDF SERVICES



E-Mail

Webmail service



GitLab

Code versioning tool



DataShare

File sharing service



SELECTED TOPICS

1. Groups

- We control the top-level namespace – [ask us](#) if you want a group for your institute, department or project

2. Publishing your code

- Gitlab itself (releases, registry, pages, ...)
- Get a [DOI from MPDL](#) to point to any of the above
- Publish at Zenodo, using, e.g., something like [gitlab2zenodo](#)
- Register your project at [Software Heritage](#)
<https://docs.mpcdf.mpg.de/bnb/208.html#software-publishing>



AND NOW FOR SOMETHING COMPLETELY DIFFERENT ...

1. EOSC

- TF AAI Architecture (Johannes Reetz)
- TF Infrastructure for Quality Research Software (Raphael Ritz)

2. RDA

- Organizational Advisory Board considers how to join forces with the RSE community (RR is member)

3. G6 (CNRS, CNR, CSIC, HGF, Leibniz, MPG)

- Statement on Open Science highlighting i.a. the importance of research software



MPCDF CONTACTS

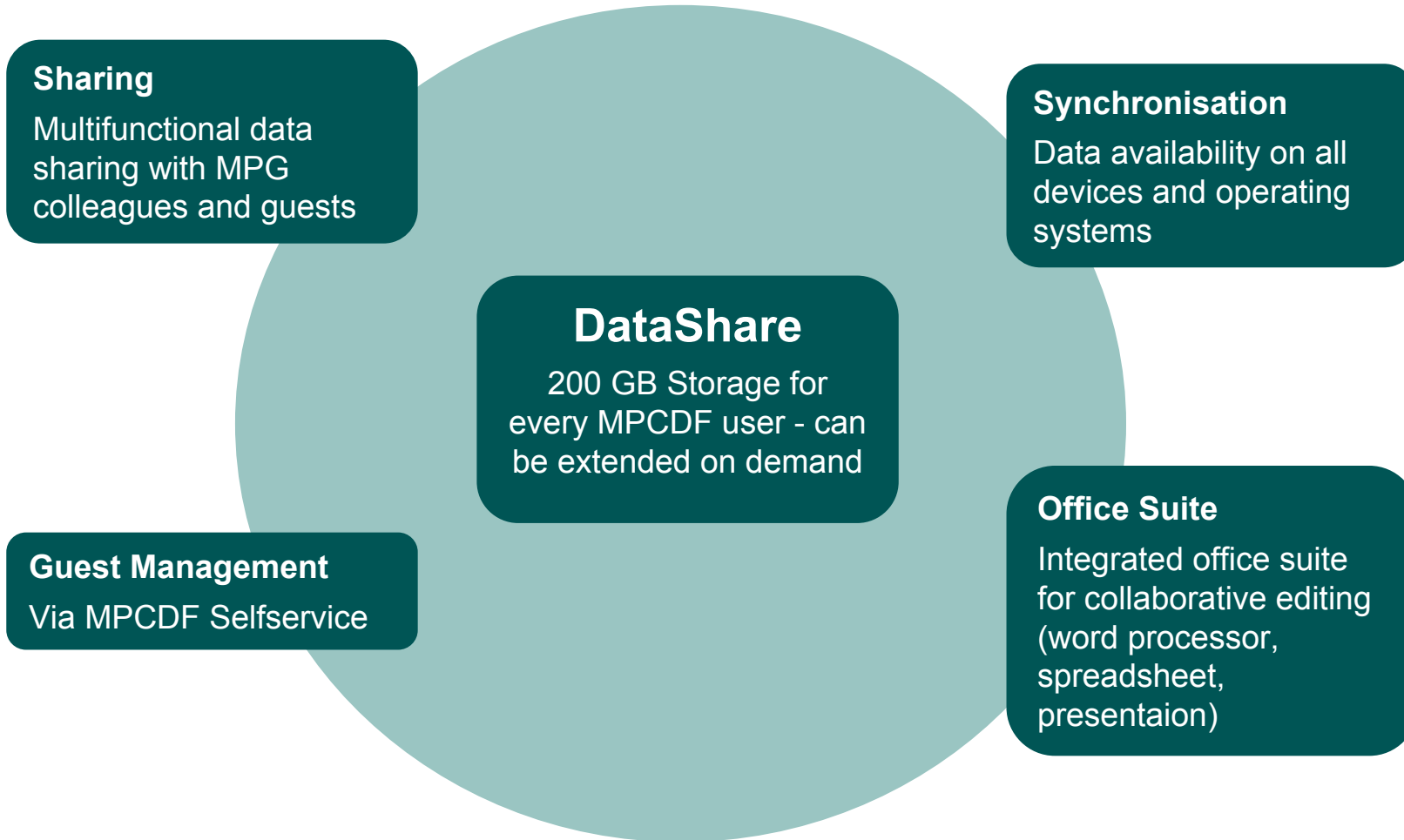
- **Website:** <https://gitlab.mpcdf.mpg.de>
- **Documentation**
 - High-level: <https://docs.mpcdf.mpg.de/doc/data/gitlab/gitlab.html>
 - In detail: <https://gitlab.mpcdf.mpg.de/help>
- **Activation (incl. guests):** <https://selfservice.mpcdf.mpg.de>
- **Helpdesk:** <https://helpdesk.mpcdf.mpg.de>
- **Email:** support@mpcdf.mpg.de



FALLBACK SLIDES FOR OTHER TOPICS

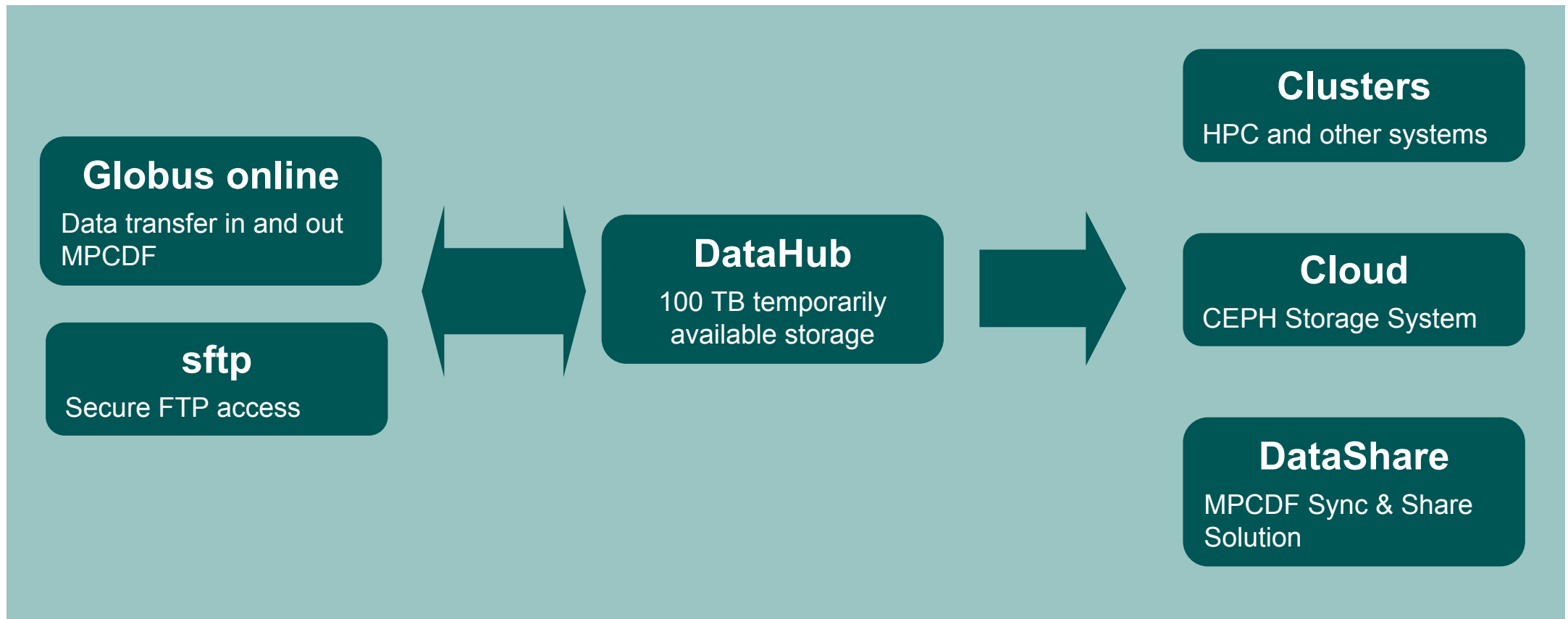


DATASHARE - THE MPCDF SYNC & SHARE SOLUTION





DATAHUB - STAGING AREA FOR DATA





CKAN: DATA PUBLISHING @ MPCDF

