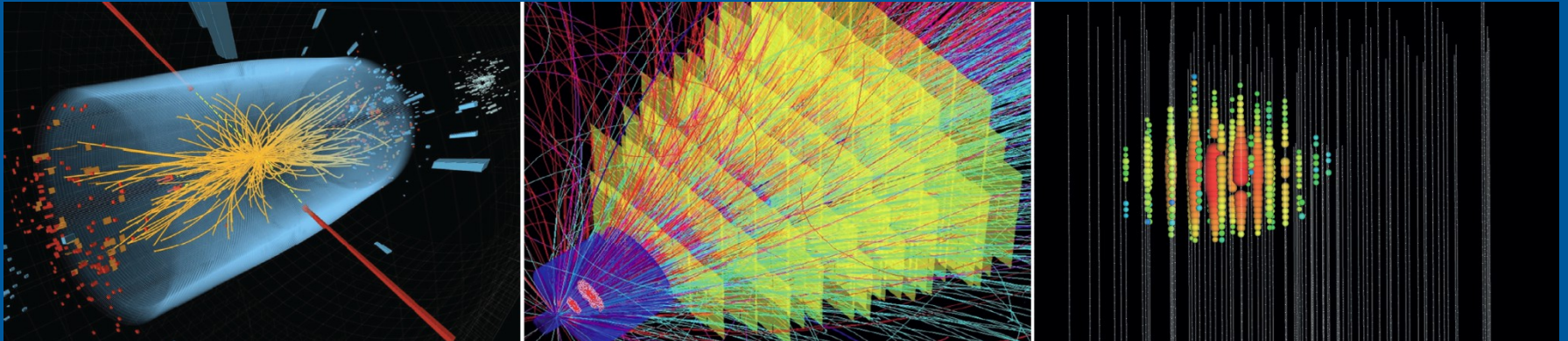
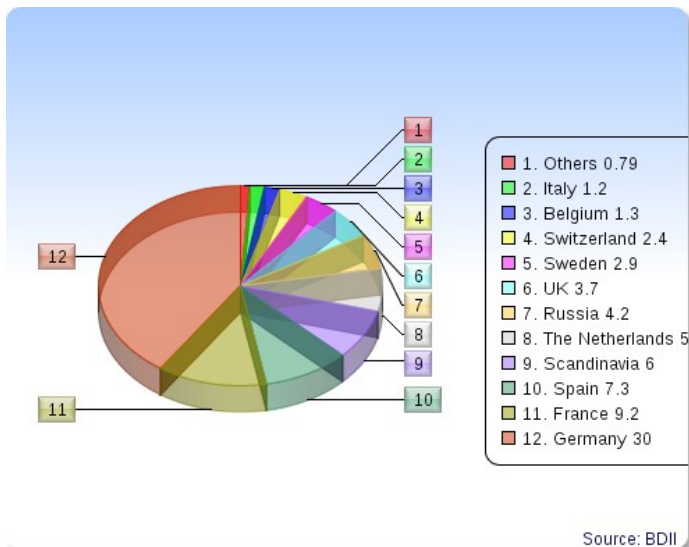
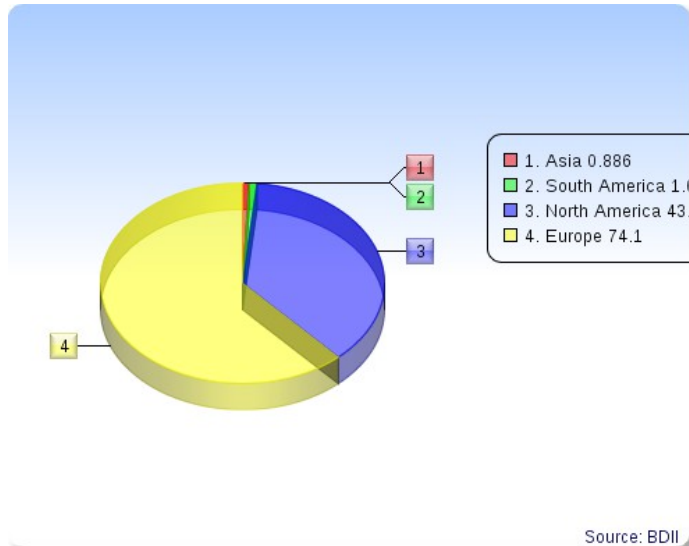


IT: development

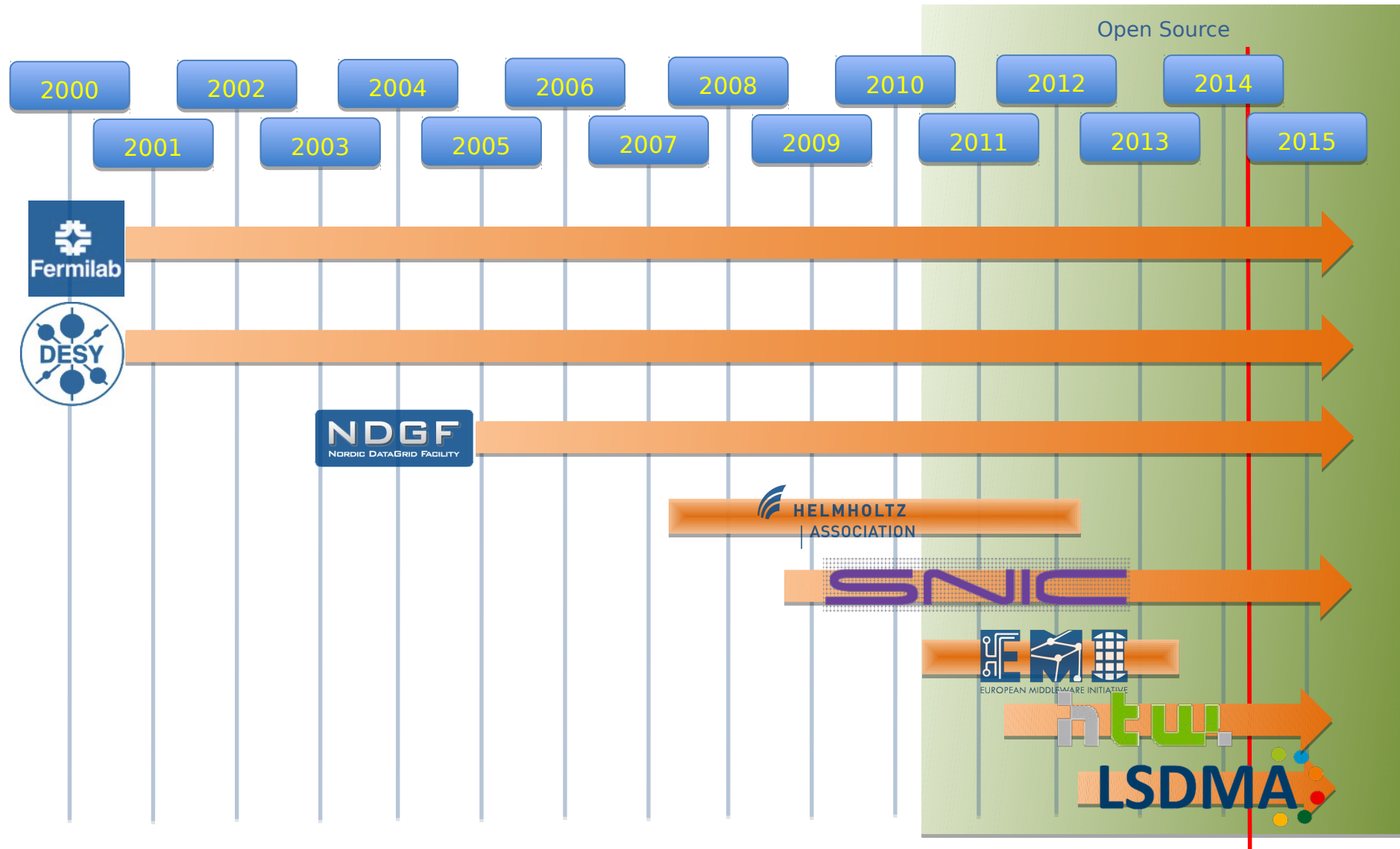


Paul Millar – DESY


dCache: Big Data throughout the world



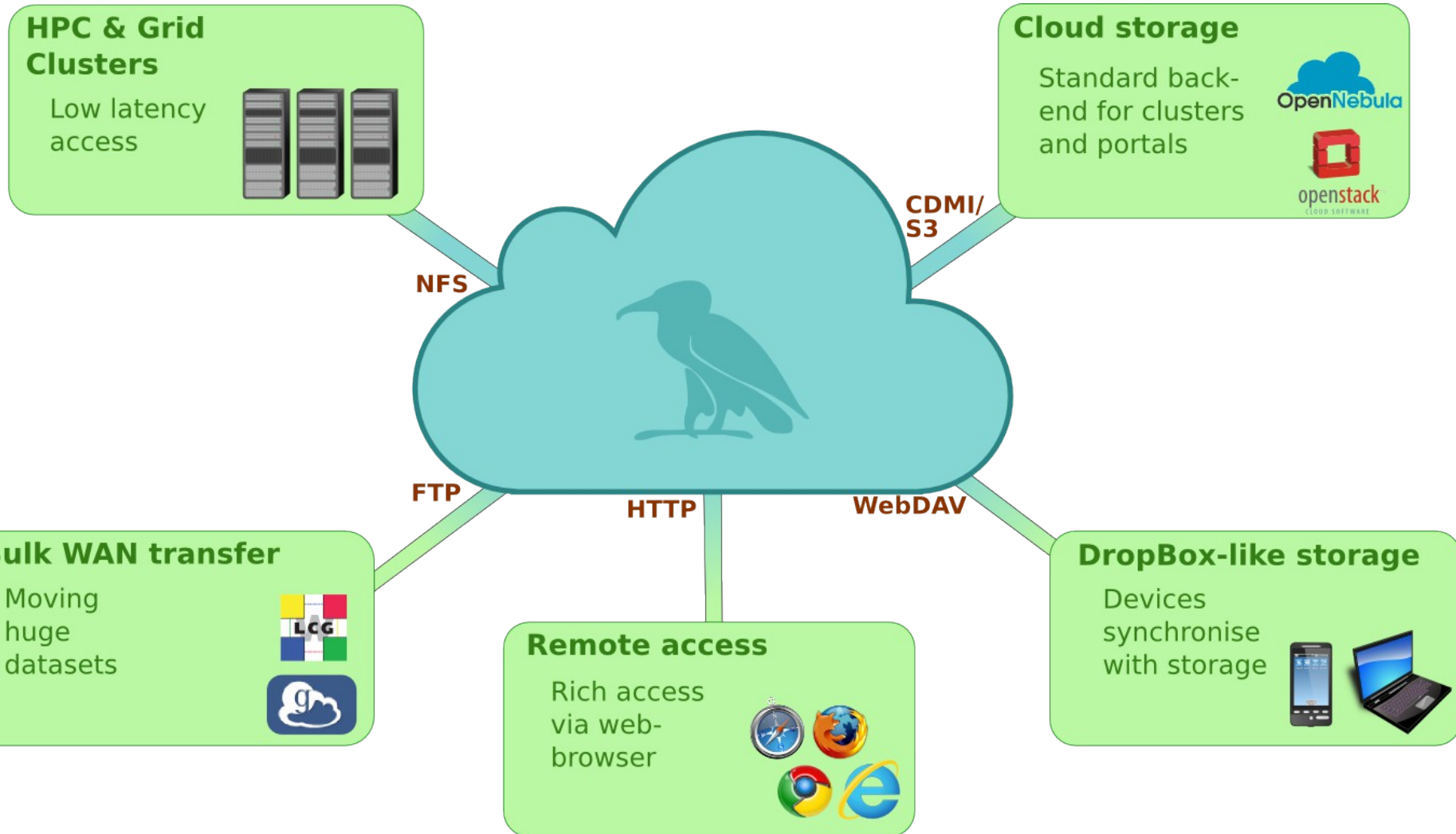
Collaboration and funding for dCache



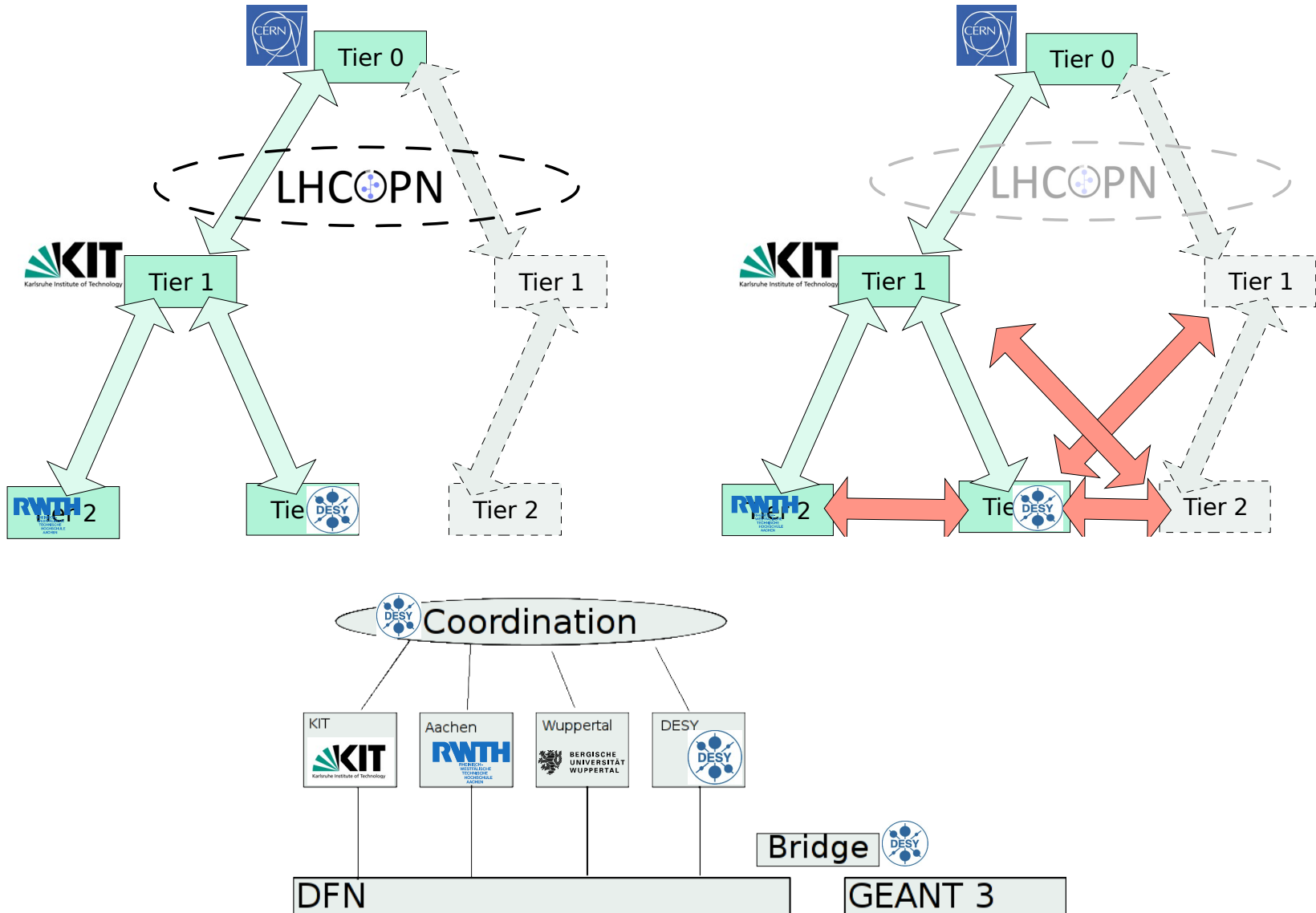
dCache evolution for Big Data and Cloud

Era				
Additional Communities				
Authentication	<p>Trusted host</p>	<p>Trusted host, X.509, Kerberos</p>	<p>Trusted host, X.509, Kerberos, Username+PW</p>	<p>Trusted host, X.509, Kerberos, Username+PW, SAML, OpenID, OAuth, Token, ...</p>

Big Data Strategy

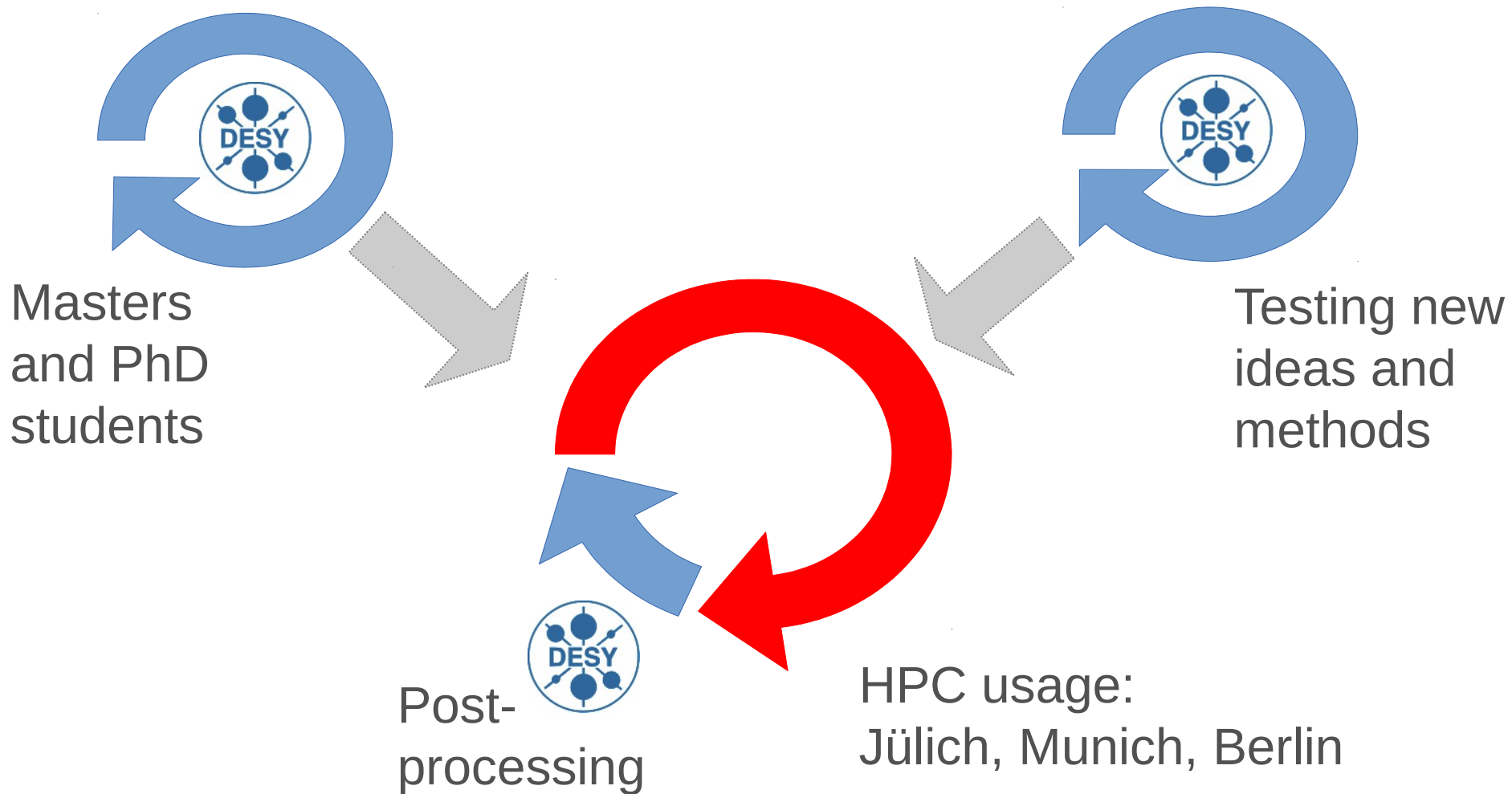


Advances in networking

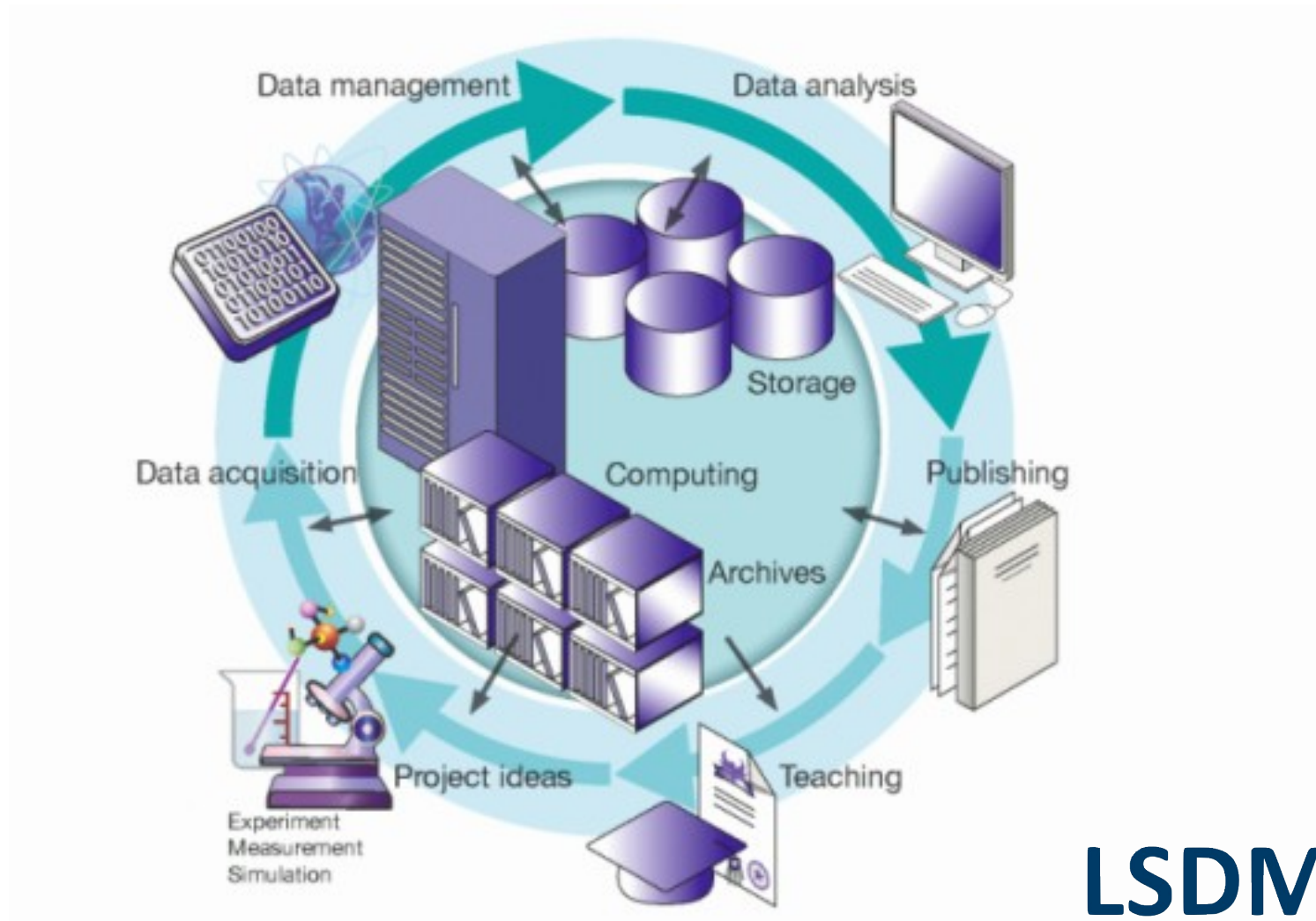


Supporting Heavy HPC users:

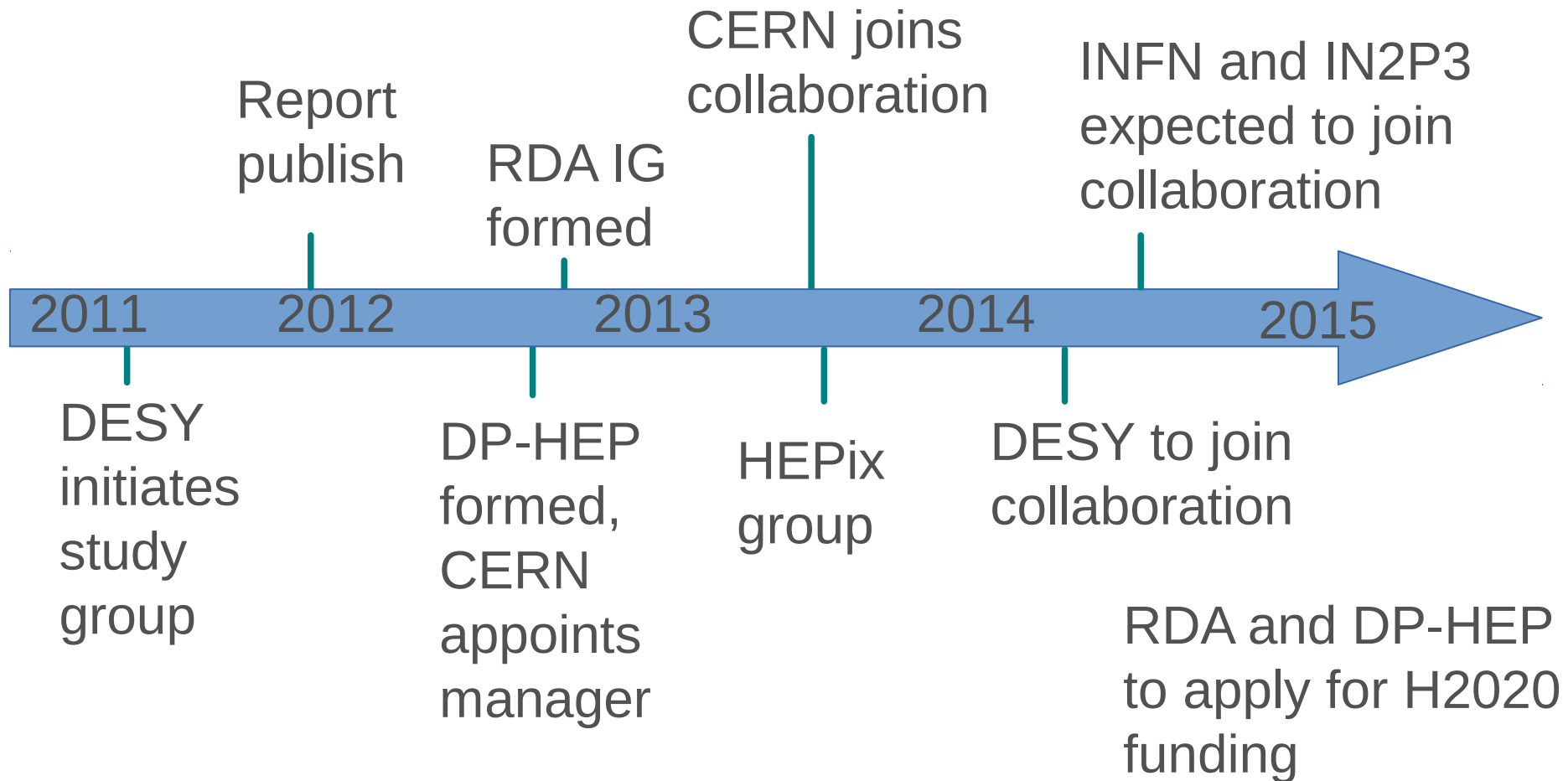
Lattice QCD, Simulation for Photon Science, Plasma, ...



Handling the complete data life-cycle



Responsible curation of unique Hera data



Strategic outlook

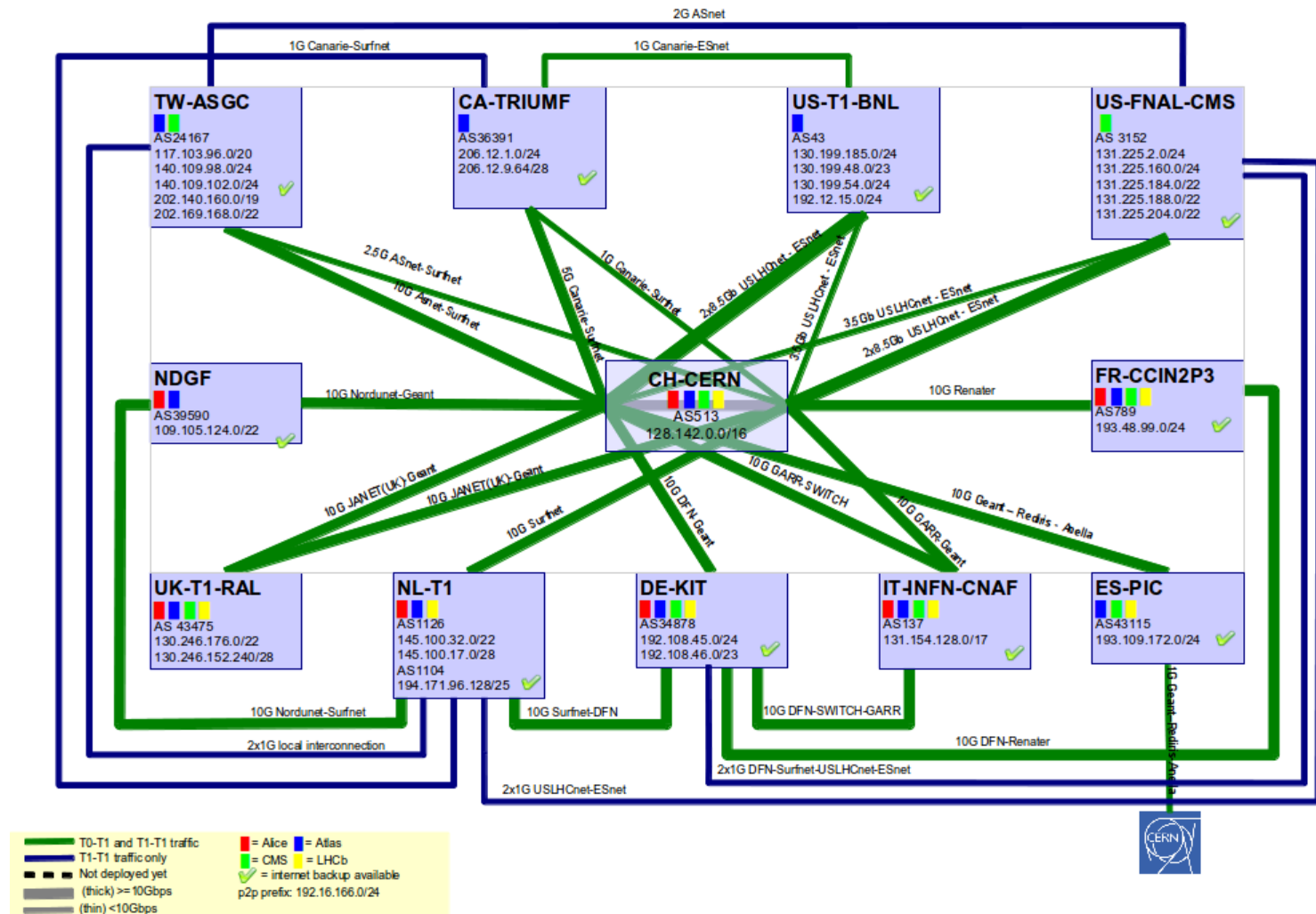
DESY is advancing IT by

- developing Big Data solutions,
- pushing network connections,
- exploring bit preservation,
- providing systems to handle complete lifecycle
- providing online/DAC systems to support fast data ingest

Backup slides

Advances in networking

LHCOPN



Advances in networking

LHCONE: A global infrastructure for the LHC Tier1 Data Center – Tier 2 Analysis Center Connectivity

