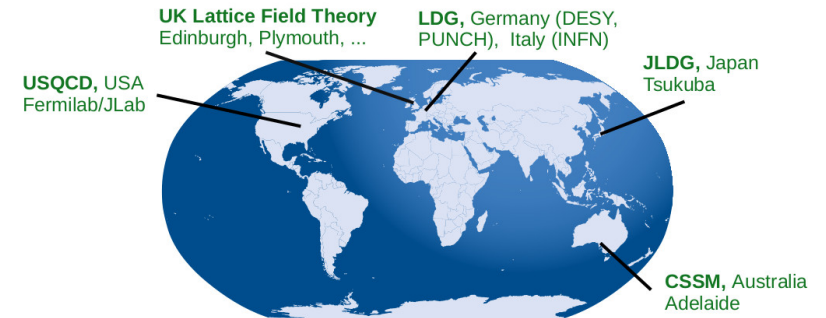


International Lattice Data Grid (ILDG)



Organization:

- federation of autonomous “Regional Grids”
- forming a single Virtual Organization (VO)
- 2 Working Groups (metadata and middleware) + Board



Basic Concepts:

- ILDG defines standardized metadata schema, file-format, API [hpc.desy.de/ildg]
- Regional grids (with specific policies, technologies, resources, . . .)
provide catalogue services + storage
E.g. LDG makes to a large extent also use of WLCG technology and services

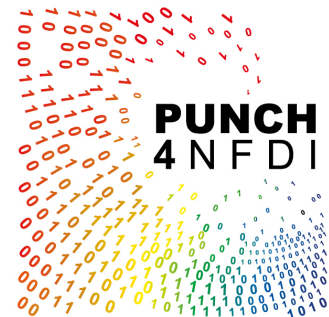
Towards ILDG 2.0

Situation around 2020

- ✗ Usability of ILDG services had severely degraded
- ✗ ILDG had started 10 years before formulation of FAIR principles

Aims for ILDG 2.0

- ➔ Become fully FAIR-compliant
- ➔ Re-activate and organize regional grids
- ➔ Modernize concepts and basic gearbox



Critically relied on PUNCH4NFDI funding for a professional SW developer

LDG Resources and Services

❑ Storage Elements

site	type / interf	legacy	tolerated*)	comment
INFN-CNAF	disk / StoRM	2 TB	0.1 PB	
DESY HH	tape / dCache	0 TB	1 PB	
DESY ZN	tape / dCache	70 TB	1 PB	(2026)
Jülich	tape / dCache	200 TB	1 PB	(per year)

*) no formal agreement at any site

❑ Metadata and File Catalogue (operational concept at DESY ZN)

❑ Webpage (LDG and ILDG-wide)

- `Services.xml` — URL of all services
- “Simple listings” — read-only access to all catalogues
- VO Policy