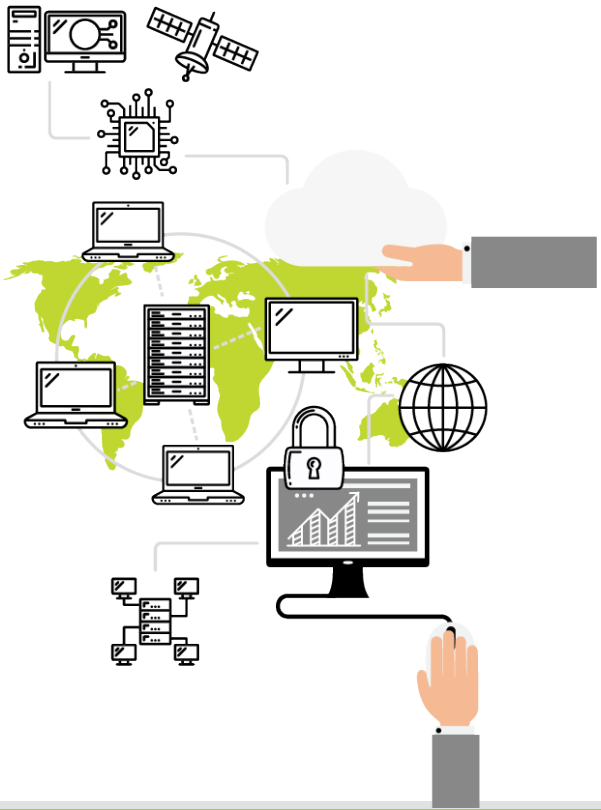


> DeiC visit to AAU March 2023

> An introduction to DeiC and our services

About DeiC

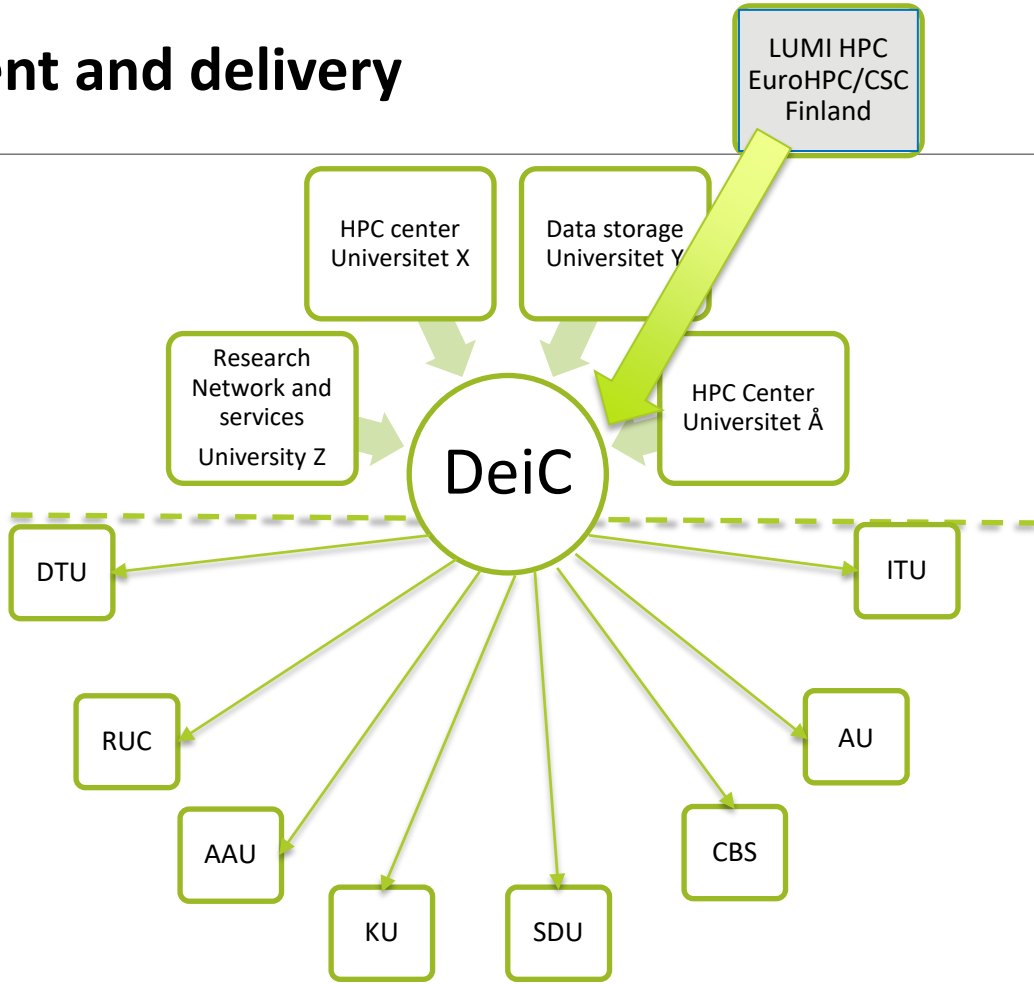
- The **collaboration** between the Ministry of Higher Education and Science and the eight universities on the national digital research infrastructure.
- DeiC **coordinates** the national delivery of
  - Computing resources
  - Data storage and services
  - Network Infrastructure

Researchers at the Danish universities have access to a digital research infrastructure supporting research and education on a high international level.

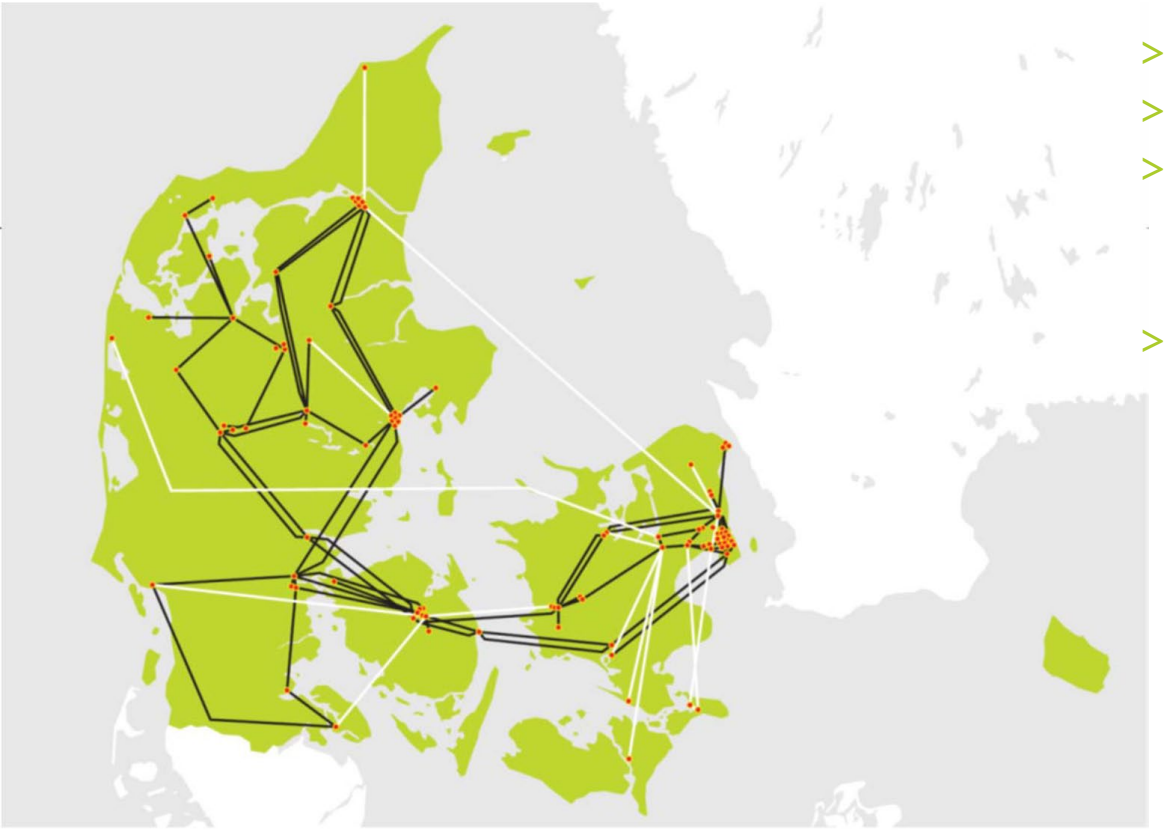
Other tasks

- Develop and maintain a policy for the handling of research data and coordination of national data management services.
- Coordinate and participate in national and international collaborations on digital research infrastructure.
- Advice the Minister of Higher Education and Science on digital research infrastructure matters

> Coordinator of development and delivery



DeiC Forskningsnettet

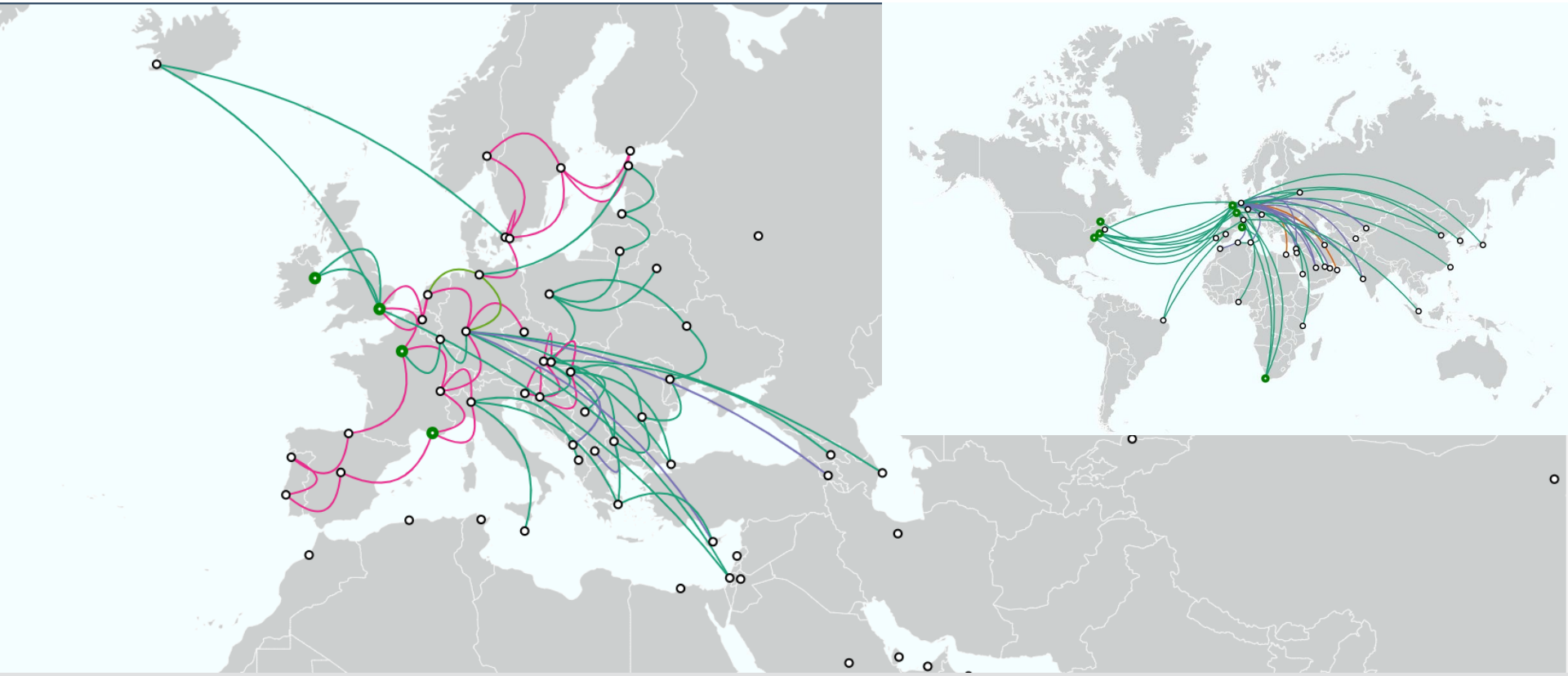


- 337 locations
- 4333 km black fiber
- 315 black fiber connections

- Secure, high speed connections to the whole world through international research networks

NORDUnet – connecting the Nordic Research Networks

> GÉANT – Connecting Europe – and the rest of the world



Other Services from DeiC Forskningsnettet

- eduroam – wifi everyvhere
- WAYF – AAI service
- FileSender
- Media and collaborations services
  - Zoom
  - Kaltura
  - Panopto
- DKCERT – security on the network

> Data Services and Activities (1)

DeiC Storage

- File system like storage
- Support for project work
  - International partners
- Special environment for working with sensitive data
- Accessible from laptop, servers and HPC

DeiC Dataverse

- Repository for publishing data
- National repository in a global federation
- Branding of repositories and collections
  - Institution, Lab, Research area, etc.
- New tool for existing data stewards
  - Local governance and curation
- Metadata is searchable (FAIR)
- Branded repository references to datasets published elsewhere

> Data Services and Activities

- > DMPonline – helps you create you data management plans
- > DataCite – provides Persistant Identifiers (PID) for your data
- > Coordinating the implementation of the national strategy based on FAIR
- > **International engagement:**

eosc

EUDAT

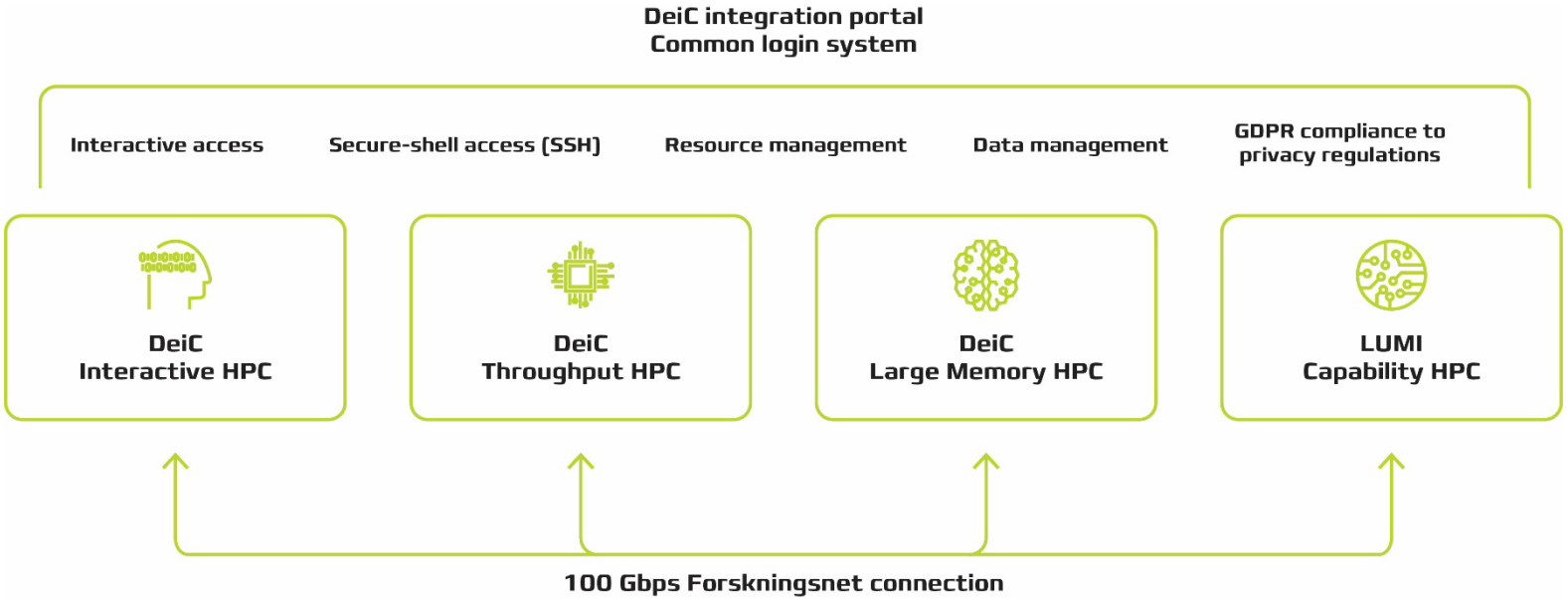
GO FAIR

eosc | FAIR-IMPACT
Expanding FAIR solutions across EOSC

Skills 4 eosc

Knowledge Exchange

> Supercomputers (HPC)

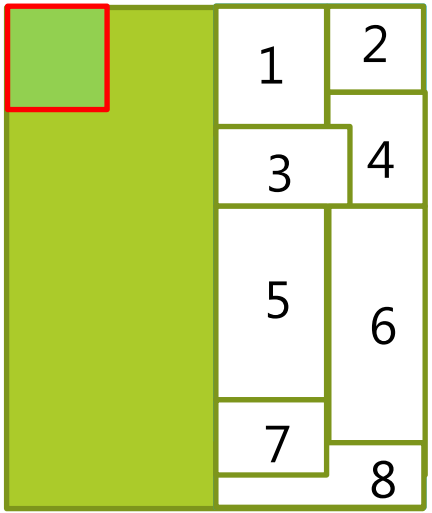


No matter who you are, no matter where you are – we have the HPC solution for you

> Get access

- AAU share
  - Contact the CLAAUDIA team
- Apply for national ressources
  - Contact the CLAAUDIA team
- Sand box resources:
  - Test
  - Student projects; bachelor or thesis projects
  - Preparation for applications

  – Contact the CLAAUDIA team

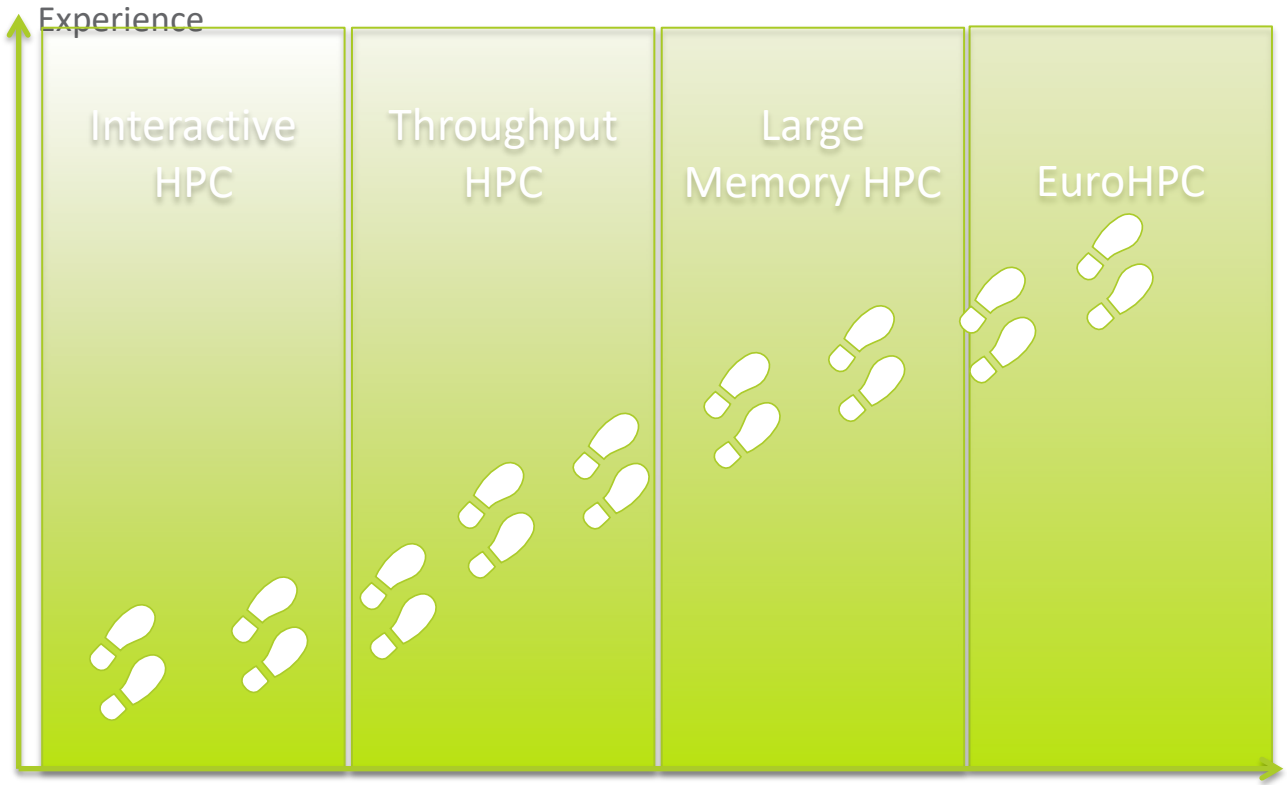


International HPC resources

- **LUMI**
  pre-exascale, Finland.
- LEONARDO
  pre-exascale, Italy.
- MARENOSTRUM 5
  pre-exascale, Spain.
- **Vega**
  petascale, Slovenia
- **MELUXINA**
  petascale, Luxembourg
- **KAROLINA,**
  petascale, Czech Republic
- **DISCOVERER**
  petascale, Bulgaria
- **DEUCALION**
  petascale, Portugal

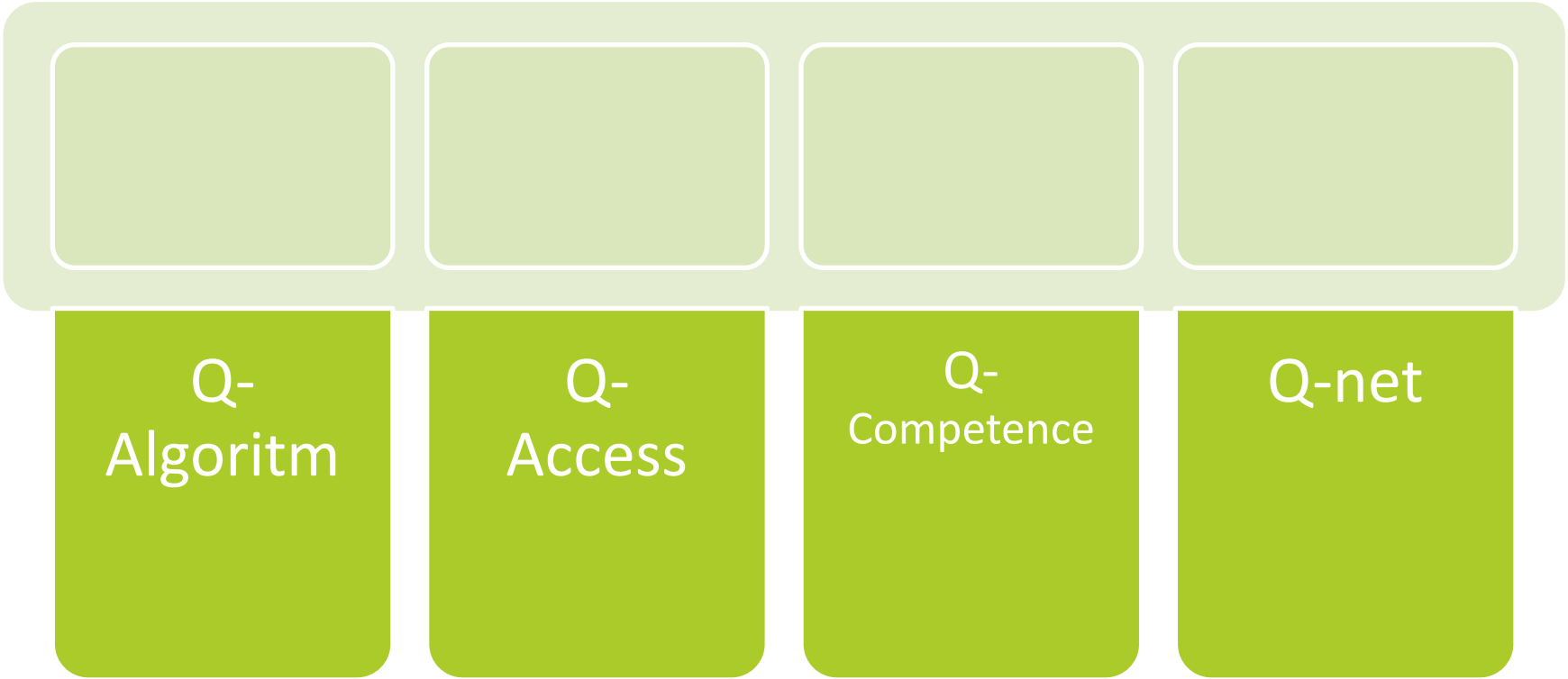
https://eurohpc-ju.europa.eu/

> Supporting the user journey

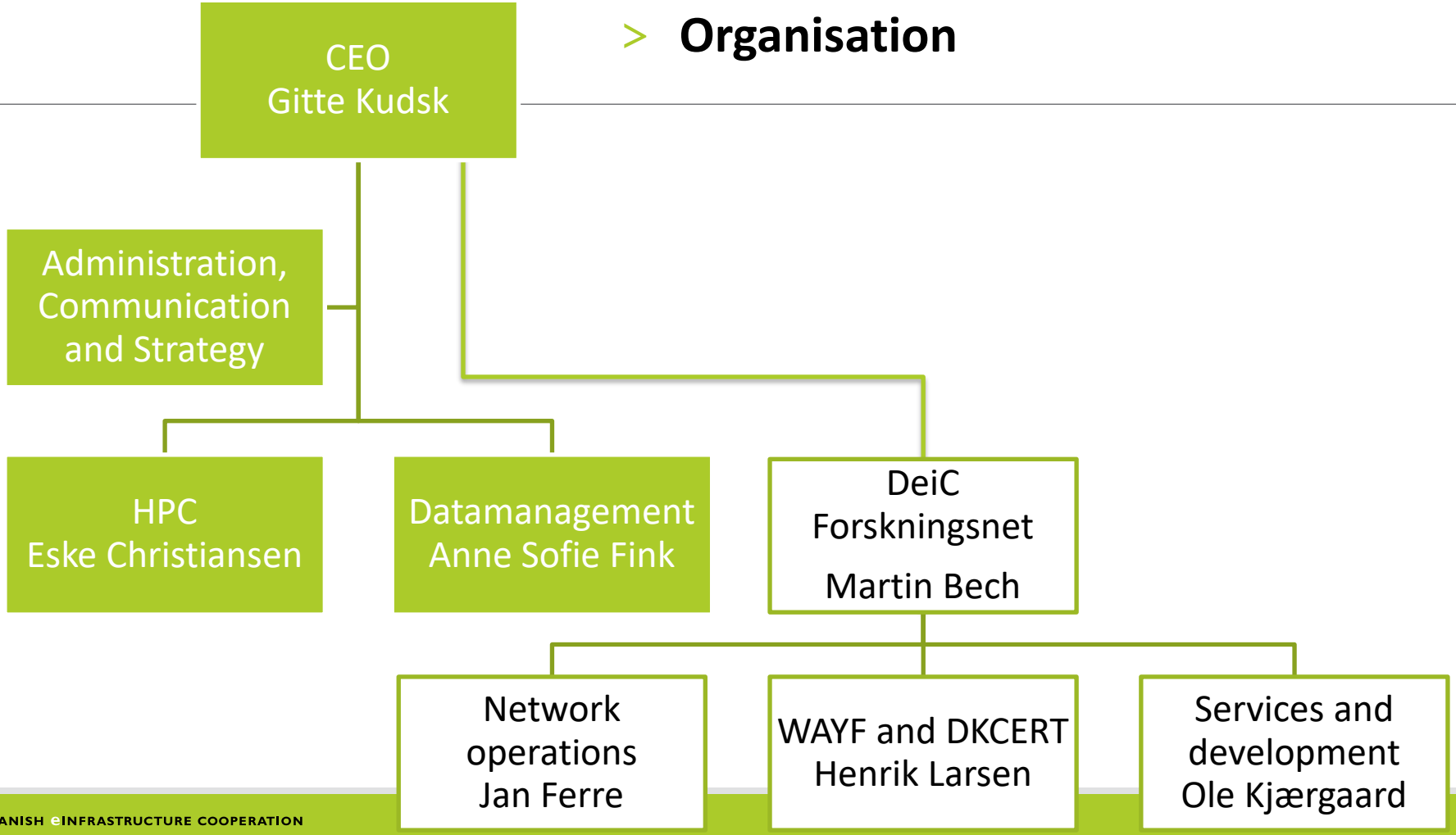


Contact the CLAAUDIA team to start the journey

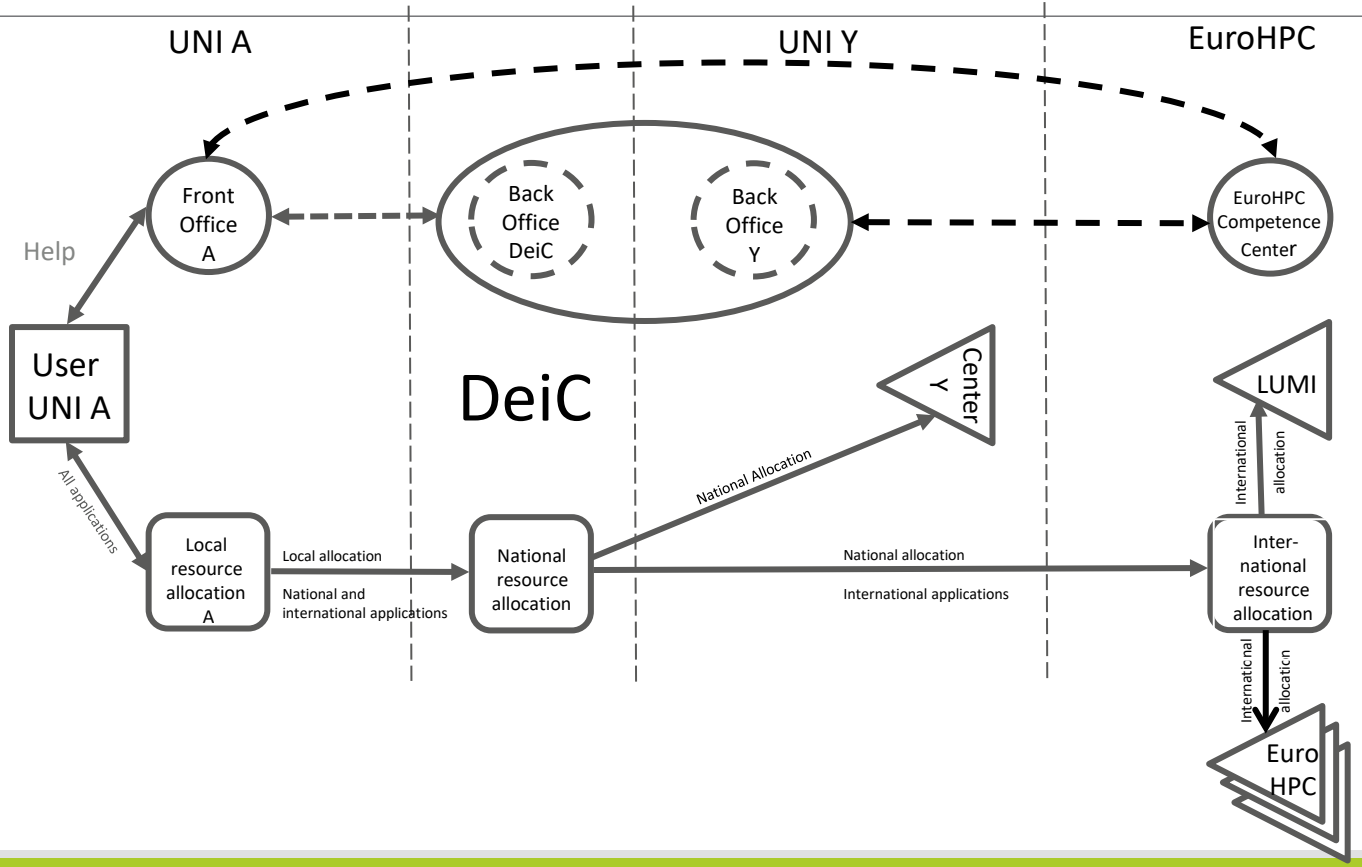
> Q-initiatives

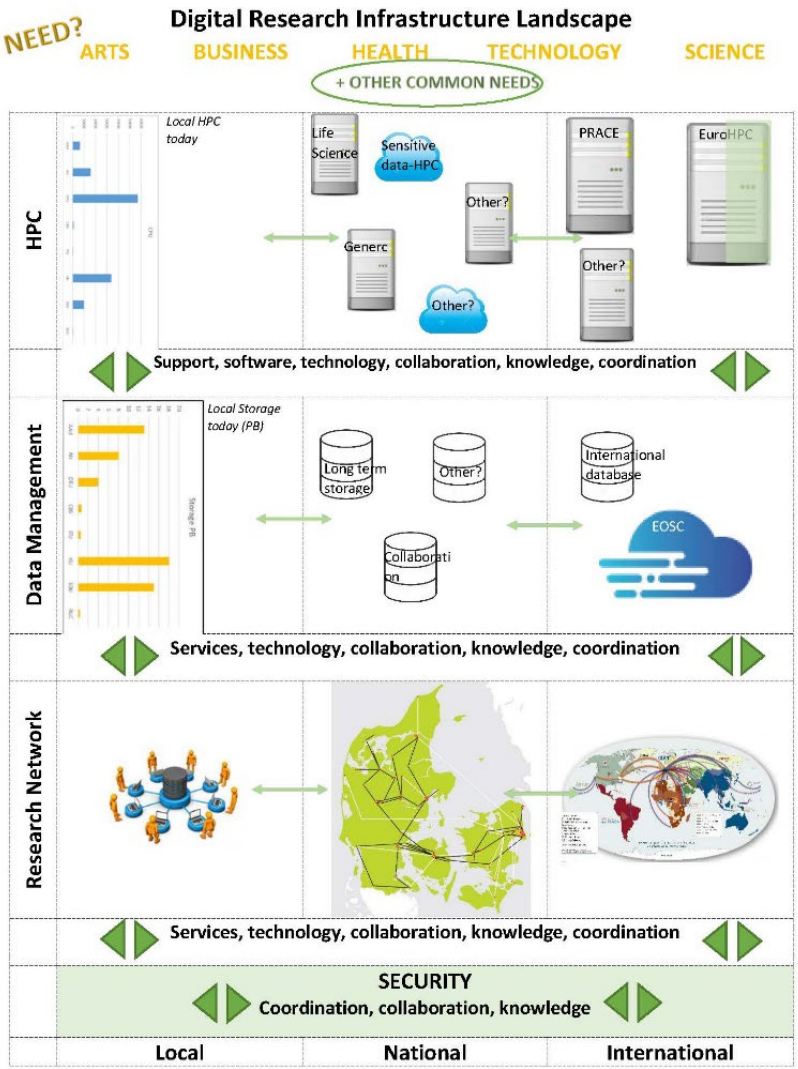


> Organisation

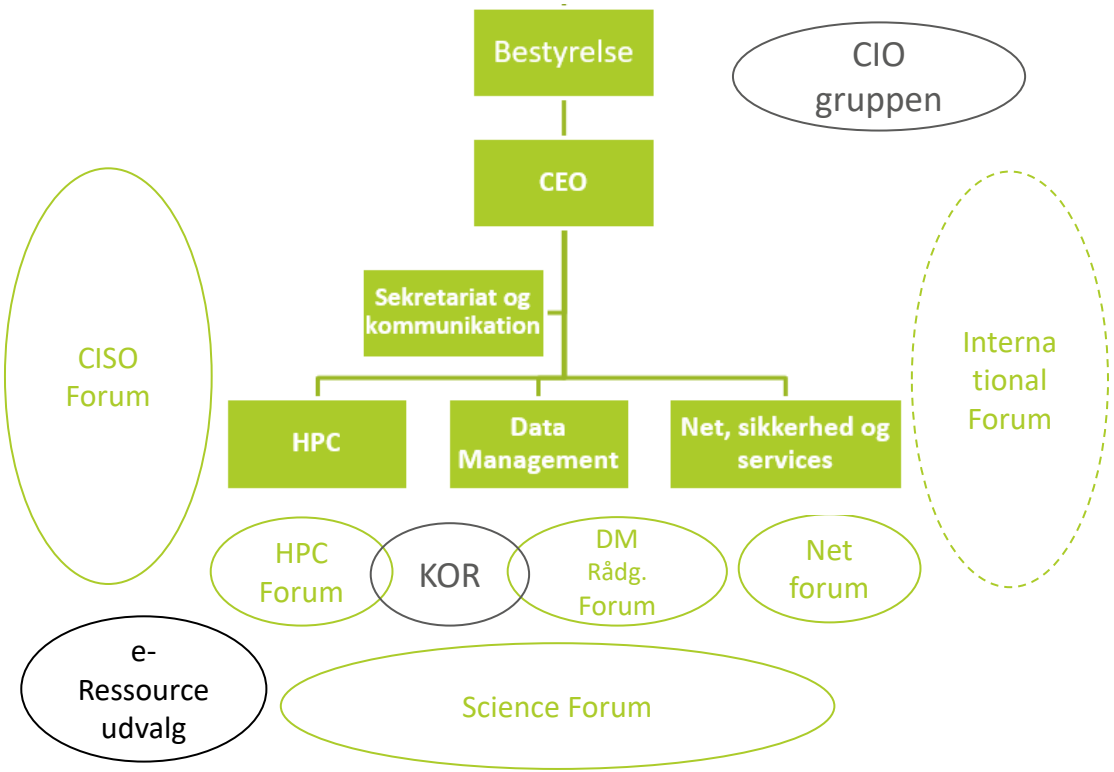


Back office – front office

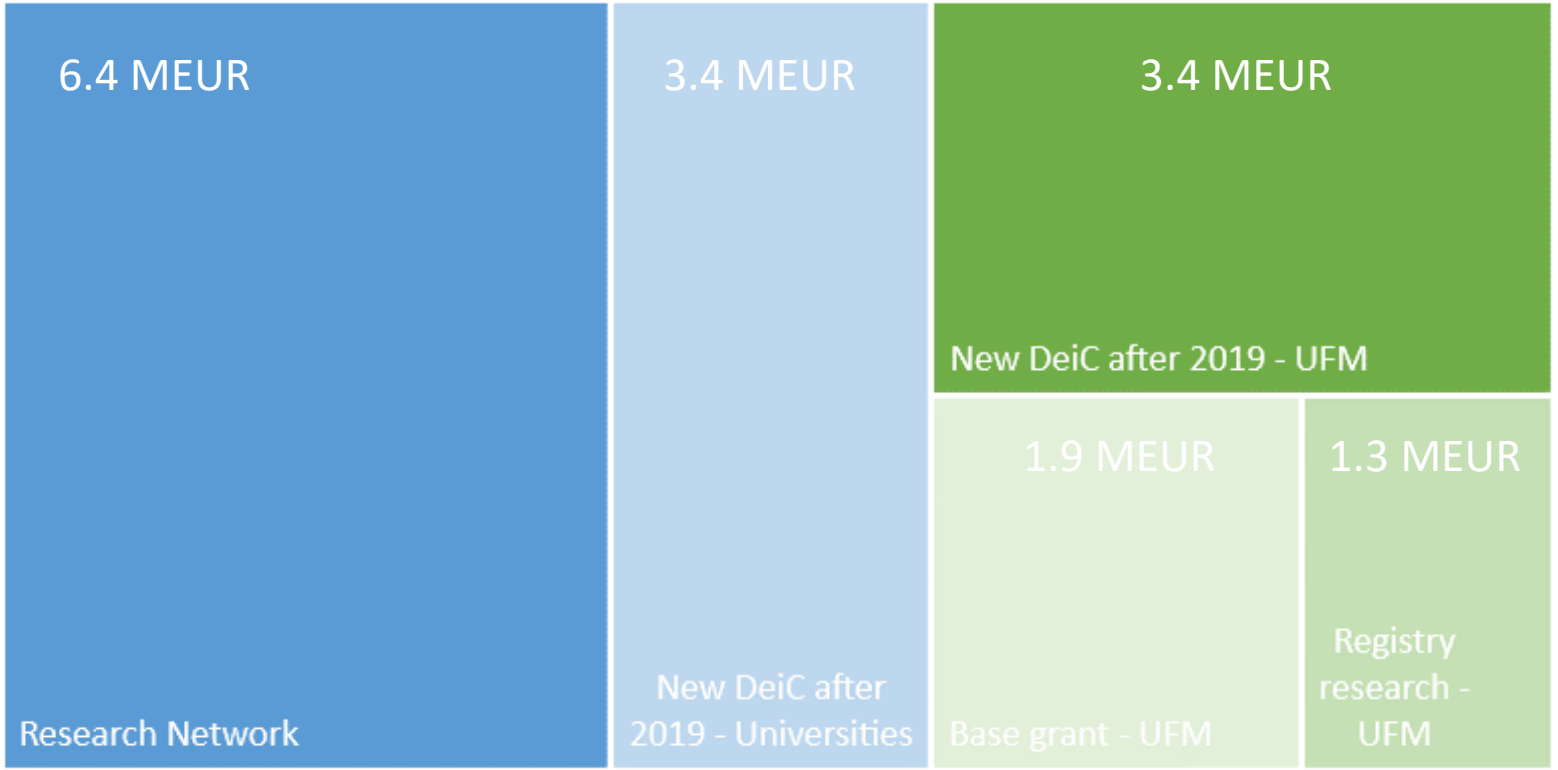



Digital Research Infrastructure Landscape
NEED?
ARTS
BUSINESS
HEALTH
TECHNOLOGY
SCIENCE
+ OTHER COMMON NEEDS
HPC
Local HPC today
Life Science
Sensitive data-HPC
Other?
Generc
Other?
PRACE
Other?
EuroHPC
Support, software, technology, collaboration, knowledge, coordination
Data Management
Local Storage today (PB)
Long term storage
Other?
International database
Collaborati on
EOSC
Services, technology, collaboration, knowledge, coordination
Research Network
Services, technology, collaboration, knowledge, coordination
SECURITY
Coordination, collaboration, knowledge
Local
National
International

> Organisation and reference groups



> Funding – total 16.4 MEUR



Universities

Ministry (State Budget)