



CSC

ICT Solutions for
Brilliant Minds



Machine learning with spatial data seminar

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Non-profit state organization with special tasks



Turn over in 2022
64,4M€



LUMI

Owned together with EuroHCP JU and unique consortium of 10 countries – Belgium, Czech Republic, Denmark, Estonia, Finland, Iceland, Norway, Poland, Sweden and Switzerland.



Headquarters in Espoo,
data center in Kajaani



Owned by the Finnish state **(70%)**
and all Finnish higher education institutions **(30%)**



652
employees



EuroHPC
Joint Undertaking

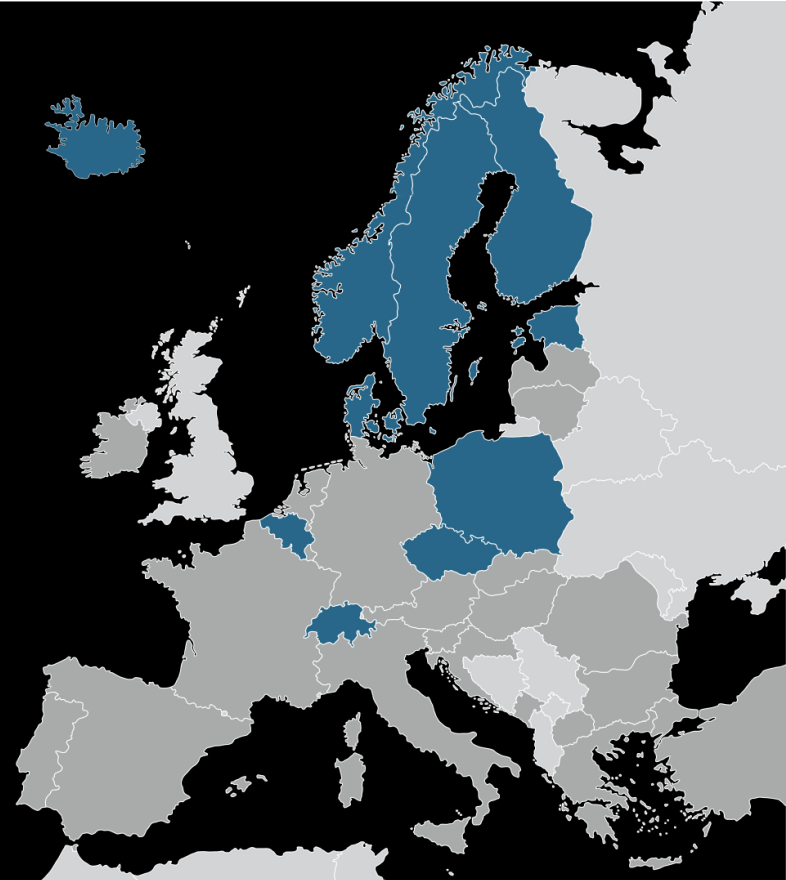


LUMI

LUMI: fastest supercomputer in Europe and 5th in the world

EuroHPC joint undertaking: EU and participating countries

- **The supercomputer hosted by the LUMI consortium (10 countries) in Kajaani**
- Developing competence in high-performance computing
 - **CSC operates EuroCC Finland, National competence center in Finland**
- **20% of LUMI capacity is reserved for European industry and SMEs**





- Services for research

Compute services

- Supercomputers: [Puhti](#), [Mahti](#), [LUMI](#)
- Virtual machines for web services and database: [cPouta](#)
- Container cloud for scalable web services :[Rahti](#)
- Sensitive data: [SD services](#), [ePouta](#)
- Quantum learning machine: [Kvasi](#)

Data services

- Project lifetime data storage:[Allas](#)
- Databases:[Pukki](#), [Kaivos](#)
- Publishing, storing or downloading open data:
[OKM Fairdata](#): IDA, Etsin, Qvain, PAS
- Sending data: [Funet FileSender](#)
- Sensitive data: [SD services](#)
- [Research information hub](#)
- Spatial data sharing and download: [Paituli](#)

Working at Finnish higher education institution (universities, universities of applied sciences), or a state research institute?

→ You can use many of our services **free of charge** !



- Support and training

Support

- E-mail to servicedesk@csc.fi
- [CSC user support session](#) in Zoom every Wednesday at 14.00

Training

- [General CSC courses, seminars and self-learning](#)
- [Geoinformatics course materials](#)

Geoportti - The Hub for for Finnish Geospatial Research and Education Resources

- A shared service for using geospatial data and geocomputing tools. Geoportti RI helps the researchers in Finland to use, to refine, to preserve and to share their geospatial resources.
- Coordinated by National Land Survey of Finland NLS

<https://www.geoportti.fi/>

Location Innovation Hub LIH European Digital Innovation Hub EDIH

- Large network that consists of companies, research organizations and universities, as well as the public sector.
- Goal: to expand the use of geospatial data in services, new business and technologies, and produce new benefits and innovations for society based on them.
- Coordinated by NLS

<https://locationinnovationhub.eu/en/home/>

EuroCC

- Network of European High-Performance Computing (HPC) resource and support providers.
- CSC hosts the Finnish node, and offers services for Finnish HPC users.
- Coordinated by University of Stuttgart.

<https://www.eurocc-access.eu/>

siili.rahtiapp.fi/geoml_seminar