

CSC Fact Sheet



Non-profit company owned by
Finnish state (70%) and HEI (30%)

Volume 2023: ~89 M€
Employees: 676 (Oct 2024)

CSC's solutions



Computing and software



Data management and analytics for
research



Support and training for research



Research administration



Solutions for managing and
organizing education



Solutions for learners and teachers



Solutions for educational and
teaching cooperation



Hosting services tailored to
customers' needs



Identity and authorisation



Management and use of data

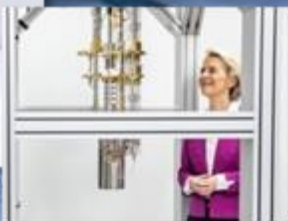


ICT platforms, Funet network and
data center functions



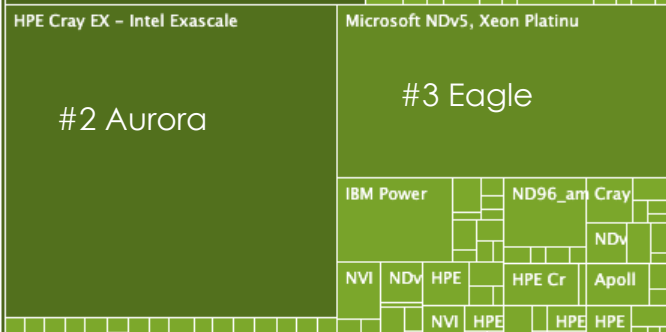
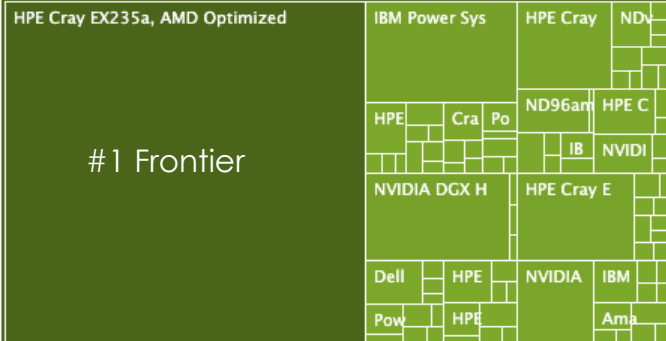
LUMI

- Europe's #1 supercomputer
- Hosted by CSC
- Consortium of EC (EuroHPC JU) and 11 EU countries
- Resource for whole ERA including industry

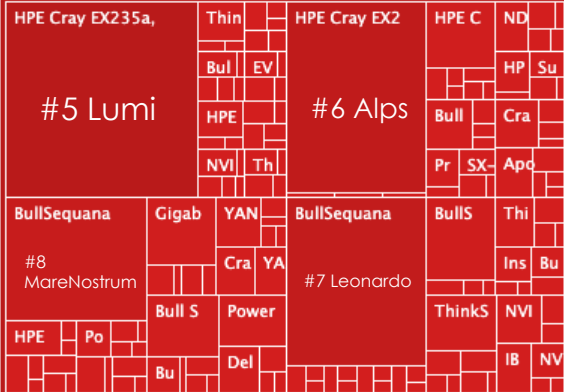


LUMI

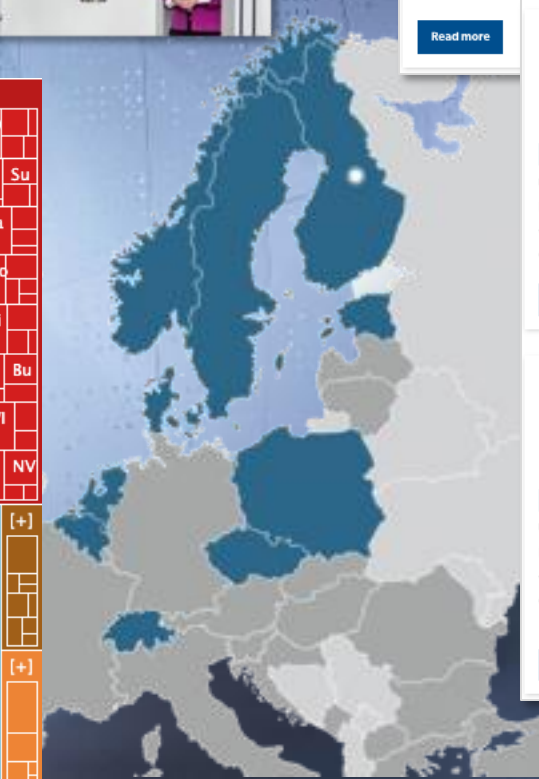
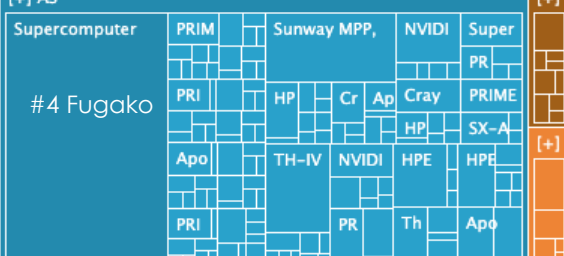
[+] NA



[+] EU



[+] AS



Euro-IPC JU

Updated 13.3.2024

Users in Europe

Information for all users in Europe how to apply for the resources allocated by the...

[Read more](#)



the Netherlands

Updated 13.3.2024

Users in the Netherlands

Information for users in the Netherlands. More information coming soon!...

[Read more](#)



Belgium

Updated 6.3.2024

Users in Belgium

You can apply for the national LUMI resources either as an academic user affiliated with...

[Read more](#)



Czech Republic

Updated 12.2.2024

Users in the Czech Republic

Calls for LUMI Czech Republic allocations are issued by e-INFRA CZ, and...

[Read more](#)



Denmark

Updated 11.3.2024

Users in Denmark

You can apply for the national LUMI resources either as an academic user affiliated with...

[Read more](#)



Estonia

Updated 29.11.2024

Users in Estonia

Information for users in Estonia on how to access LUMI. You...

[Read more](#)



Finland

Updated 19.1.2024

Users in Finland

You can apply for the national LUMI resources either as an academic user affiliated with...

[Read more](#)



Iceland

Updated 7.3.2024

Users in Iceland

You can apply for the national LUMI resources either as an academic user affiliated with...

[Read more](#)



Norway

Updated 30.1.2024

Users in Norway

You can apply for the national LUMI resources either as an academic user affiliated with...

[Read more](#)



Poland

Updated 8.2.2024

Users in Poland

You can apply for the national LUMI resources either as an academic user affiliated with...

[Read more](#)



Sweden

Updated 27.3.2024

Users in Sweden

Calls for LUMI Sweden allocations are issued by NAIS - National Infrastructure for Supercomputing...

[Read more](#)



Switzerland

Updated 26.4.2022

Users in Switzerland

You can access the national LUMI resources as an academic user by applying to CSCS...

[Read more](#)

With High-Performance Computing we can Simulate and Understand Natural Phenomena

LUMI



About Energy and HPC

- Strive to minimize CO₂ emissions
 - Scientists should not be scared of doing science because of the related CO₂ emissions
 - Operate HPC data centre with renewable energy
 - Reduce environmental impact in data centre construction
- Vendors need to ensure sustainable solutions in their supply chains
 - "Embedded carbon" need to be in the equation
- The CO₂ emission should be the headache of the HPC facility, not the end user
 - We will need to mind how and where the systems are being operated
 - This does not mean just Nordics. There is an abundance of solar power in the southern latitudes, and wind power in multiple areas. It will impose some new factors how to operate the systems and where they actually are being placed
 - Reuse waste heat
- For the first time in history we will see a decline in (fp64) flops/Watt!
 - The science community should be ready to adapt their workloads to better match with the upcoming hardware

With AI, will the lab move into the supercomputer?

Lab run by science foundation models?

