

# EURO<sup>2</sup>

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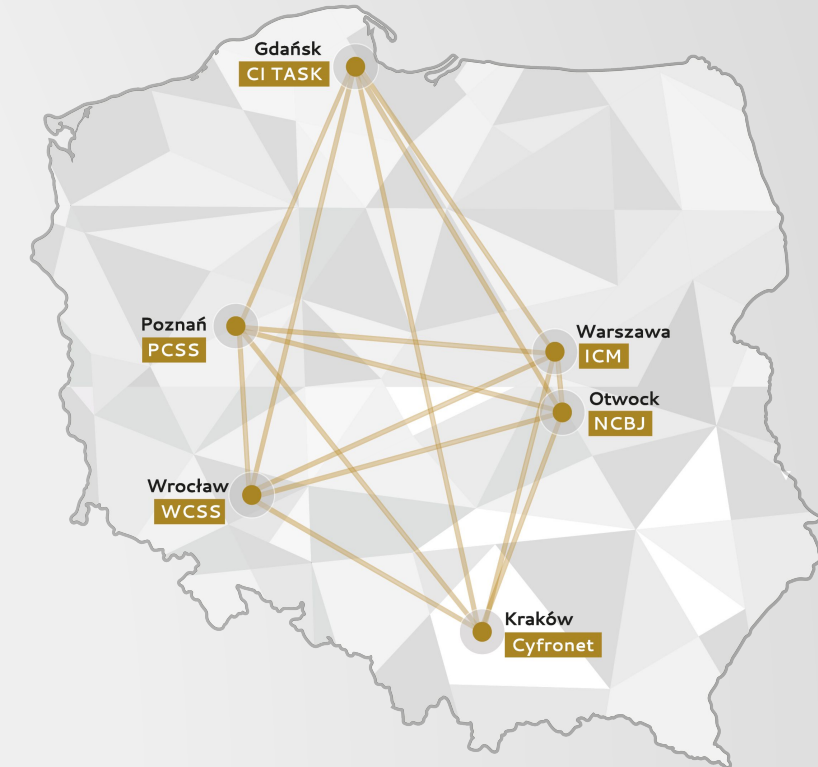
**LUMI Day Poland 2023**  
April 14th 2023

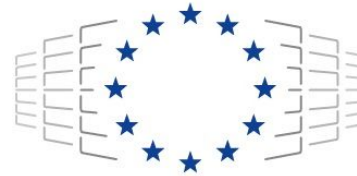
# The Polish National Competence Centre in HPC



The Polish National Competence Centre in HPC includes the resources of six Polish computing centres in the first phase of the project and five in the second phase:

- **CI TASK** – Centre of Informatics – Tricity Academic Supercomputer & Network
- **Cyfronet** – Academic Computer Centre Cyfronet AGH – project leader
- **ICM** – Interdisciplinary Centre for Mathematical and Computational Modelling  
UW (supporting partner)
- **NCBJ** – National Centre for Nuclear Research
- **PCSS** – Poznan Supercomputing and Networking Center
- **WCSS** – Wrocław Centre for Networking and Supercomputing





- The European High Performance Computing Joint Undertaking
  - 32 participating countries
  - the European Union (represented by the European Commission)
  - private partners



- Goals
  - deploy top-of-the-range supercomputing infrastructures across Europe to support European HPC users wherever they are in Europe
  - implement an ambitious research and innovation agenda to develop a competitive HPC ecosystem and supply chain in Europe, which includes hardware, software, applications but also training and skills





# LUMI

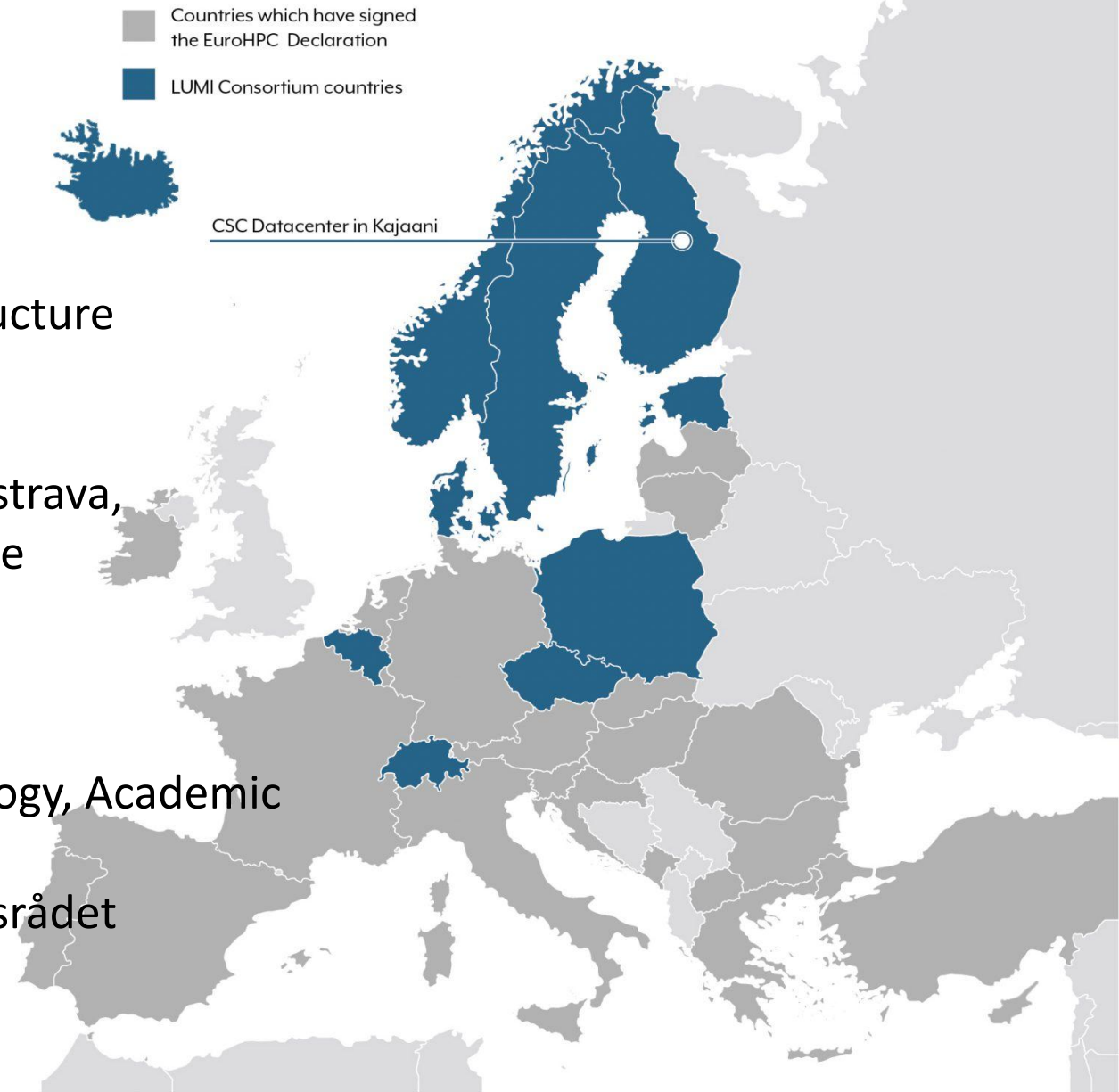


27.4.2021



# LUMI Consortium Partners

- Estonia: Estonian Scientific Computing Infrastructure
- Finland: CSC – IT Center for Science Ltd.
- Belgium: Belgian Science Policy Office
- Czech Republic: VSB – Technical University of Ostrava, IT4Innovations National Supercomputing Centre
- Denmark: Universities Denmark
- Iceland: University of Iceland
- Norway: UNINETT Sigma2 AS
- Poland: AGH University of Science and Technology, Academic Computer Centre Cyfronet AGH
- Sweden: Swedish Research Council, Vetenskapsrådet
- Switzerland: ETH Zürich



# LUMI system share

- 50% of LUMI resources allocated to EuroHPC JU
  - access available through EuroHPC open calls
- 50% of resources allocated to consortium members
  - Poland has 2,3% share
  - access to Polish resources available via PLGrid

# EuroHPC JU Calls for access



- Development
  - code and algorithm development and optimization
- Benchmark
  - code scalability tests, the outcome to be included in future Extreme Scale and Regular Access call
- Regular access
  - large-scale projects
  - enabling progress and innovation in their domains
- Extreme Scale
  - extremely large allocations (compute time, storage, support)
  - high-impact and high-gain innovative research

# EuroHPC Development Access Call



- multiple cut-off dates (1st day of every month)
- projects from academia, industry or part of large public or private funded initiatives (NCCs, CoEs)
- small number of node hours
- allocation period: one year
- renewable up to 2 times



# EuroHPC Benchmark Access Call



- multiple cut-off dates (1st day of every month)
- limited number of node hours
- maximum allocation period: 3 months

# EuroHPC Benchmark and Development Access Call



- submissions through portal: <https://pracecalls.eu/>
- systems provided:
  - Vega (Slovenia) - CPU and GPU
  - Karolina (Czech Republic) - CPU and GPU
  - Meluxina (Luxembourg) - CPU and GPU
  - Discoverer (Bulgaria) - CPU
  - LUMI (Finland) - CPU and GPU

# EuroHPC Regular Access



- multiple cut-off:
  - 7th July 2023
  - 3rd November 2023
- development of innovative solutions tackling societal and/or technological challenges
- all fields of science, industry and public sector
- allocations for one year
- option to apply for one additional year



# EuroHPC Regular Access



- submissions through portal (will open soon):  
<https://pracecalls.eu/>
- systems provided:
  - Vega (Slovenia) - CPU and GPU
  - Karolina (Czech Republic) - CPU and GPU
  - MeluXina (Luxembourg) - CPU and GPU
  - Discoverer (Bulgaria) - CPU
  - LUMI (Finland) - CPU and GPU
  - Leonardo (Italy) - CPU and GPU
  - MareNostrum 5 (Spain) - CPU

# EuroHPC JU Call for Proposals for Extreme Scale access mode



- multiple cut-off
  - 28th April 2023
  - 28th September 2023
- systems provided:
  - LUMI (Finland) - 3rd on the TOP500 list, CPU and GPU
  - Leonardo (Italy) - 4th on the TOP500 list, CPU and GPU
- allocations for one year

# EuroHPC JU Call for Proposals for Extreme Scale access mode



- submissions through portal (will open soon): <https://pracecalls.eu/>
- open for all categories (scientific, industry, public sector)
- evaluation based on technical review and scientific peer-review
- ranking criteria: excellence, innovation, impact, quality of implementation



# Thanks!



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