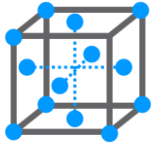


What is HPC? High-Performance Computing (HPC) is the ability to process data and perform complex calculations at high speed. It helps scientists and companies to make predictions built on simulations and modelling of complex patterns (pure HPC), to conduct analyses of large amounts of data (High Performance Data Analytics, HPDA), or to develop artificial intelligence (AI) solutions aimed to solve the greatest challenges of our time.



Mathematical Simulations



Big Data Analytics



Artificial Intelligence



The national dimension



Luxembourg national competence centre in HPC

One-stop shop for HPC/HPDA/AI support services

Business support



- Identification of opportunities
- Funding opportunities
- Partner search
- RDI project set up

Technical support



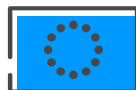
- Feasibility studies
- Proof of concept
- Technology transfer
- Access to HPC resources

Skills development



- Multiple levels of training
- Sector-specific training
- Training certificates
- Personalised training sessions

The mission of the Luxembourg national competence centre in HPC is to promote the use of HPC linked to computing, data analytics and artificial intelligence by industry – in particular SMEs – academia and public administration. To learn more, visit: eurocc-luxembourg.lu



The European dimension



European network of National Competence Centres

European gateway to:



- Cross-border cooperation
- EuroCC HPC
- European HPC initiatives

EuroCC is a network of 33 national HPC competence centres reinforcing each other with the ultimate objective of supporting academia, public administration and industry – especially SMEs – to benefit from the numerous advantages of HPC and available HPC expertise, experience and resources across Europe.

