

Luxembourg at the centre of a European network of supercomputers

Third industrial revolution

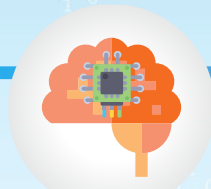
Underpinned by digitalisation, a different economic model takes root; based on qualitative and sustainable development

Digitalisation

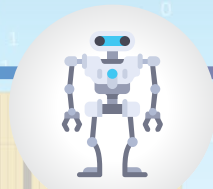
In the future, virtually all our objects will be connected to the Internet and exchange huge amounts of data, which can only be handled by supercomputers.



Internet of things



Artificial intelligence



Robotics



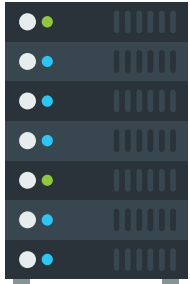
3D printing



Biotechnologies

GROWING NEED FOR COMPUTING POWER

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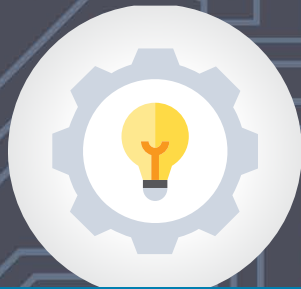


HPC

A **H**igh **P**erformance **C**omputer is a computer with a computing performance equal to one million personal computers. A HPC performs several billion of calculations per second.

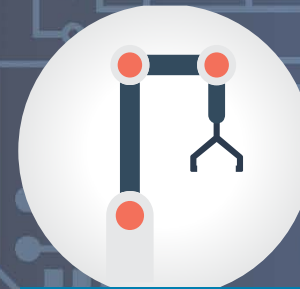


University,
research &
sciences



Competitiveness,
innovation
& industry

APPLICATIONS



Industrial
simulation
& prototyping



Financial
sector,
fintech

The European Union aims to implement a European network of interconnected HPC by 2023.

Given the strategic importance of this project, the EU Commission has earmarked a budget in excess of €5 bn.

By 2018, Luxembourg will operate its own HPC with a speed of 1 petaflop/s; the equivalent of 1,000,000,000,000,000 calculations per second.

The division of the EU Commission dealing with HPC will be based in Luxembourg and employ 200 staff.