Digital Innovation

Minalogic

Minalogic is a global innovation cluster for digital technologies based in France's Auvergne-Rhône-Alpes region.

Minalogic covers the full value chain of Digital :
        Microelectronics - Photonics - Software - content - use case

Minalogic's goal is to stimulate innovation based on digital technologies

- Minalogic'facilitate **network-building** between, research centers, manufacturing companies, and financers so that they can **cooperate effectively** to bring the technologies born of **collaborative R&D** projects **to market** and support the development of the innovative companies.

Key figures

More than 400 Members :

- **86%** companies (73% Startups & SMEs)
- **6%** research centers and universities

576 certified and financed projects

- The cluster has certified nearly 586 projects that have secured total government funding of €881 million of the more than €2.2 billion in total R&D spending these projects represent.

- in collaboration with an European network of Digital Innovation Hubs **minasmart** provides for all economy stakeholders willing to benefit from the advantages of digital technologies in their businesses :
  - access to necessary technologies and skills
  - an understanding of use cases, the value chain and the supply chain
  - an acceleration of R&D
  - support services related to innovation
  - field trials for experimenting with digital innovations

- to achieve these objectives, **Minasmart** leverages the Auvergne-Rhône-Alpes region's capacity to reinforce the hardware-software continuum on 6 key technologies:
  - high-performance computing and simulation
  - artificial intelligence
  - cyber-security and privacy
  - connectivity (5G and Internet of Things)
  - integrated and smart microelectronic components
  - cyber-physical systems

Digital innovation main issues

Innovation creates new solutions for sustainable development and societal concerns, but has to be transformed in economic development and benefits for the territory.

- Smart mobility : connected, driverless car

- smart health : advanced diagnostic

- smart energy : integration of renewable energy sources

- smart cities : environment concerns

- smart education : individual learning solution

Microelectronics at the core of digital technologies

Only 9 percent of all chips worldwide now come from factories in the EU.

Microelectronics has been identified by the Commission as one of the six Key Enabling Technologies (KET), crucial for future industrial development.

Commissioner Mariya **Gabriel**, in charge of Digital Economy and Society said: "*Every connected device, every modern machine, all our digital services depend on microelectronic components that become smaller and faster with time. **If we don't want to depend on others for such essential technology, for example for security or performance reasons, we have to be able to design and produce them ourselves.***

In Nov 2018 Commission approves plan by France, Germany, Italy and the UK to give €1.75 billion public support to joint research and innovation project in microelectronics