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# RéCLasSIF
# The French Smart Industry Campus Network

## Motivations

**Maintaining the competitiveness of French industrial companies** depends on the **adoption of the numerous innovations associated with Industry 5.0**, whether they originate from academic research or from industrial service providers.

However, many **SMEs and mid-sized companies** have yet to embark on this transformation journey. This may be due to a **lack of awareness** of the solutions available, **concerns about investing in unsuitable technologies**, or difficulties in **identifying trusted partners** capable of supporting and guiding them throughout their transformation.

**Industrial transformation requires more than technological innovation: it requires the ability to connect, integrate and diffuse innovation across ecosystems. In order to address those challenges, RéCLasSIF was initiated to connect the distributed technological platforms, research capabilities and expertise of Arts et Métiers and the Institut Mines-Télécom within a national innovation network.**

RéCLasSIF aims to:

- ✓ Connect complementary academic, technological and industrial capabilities;
- ✓ Facilitate co-innovation between researchers, technology providers and companies;
- ✓ Accelerate technology transfer from research and demonstration platforms to industry;
- ✓ Support the scaling and diffusion of solutions across regional and national ecosystems;
- ✓ Strengthen skills and knowledge circulation through education and lifelong learning.

**RéCLasSIF therefore aims to transform a set of geographically distributed capabilities into a coordinated innovation network, able to support the ecological, digital and societal transformation of industry.**

## Methodology

**An integrated approach combining research, transfer, dissemination, and training, based on 4 pillars**

- **Network Structuring**
  - Coordination of **15 academic and technology-transfer campuses** across Arts et Métiers and Institut Mines-Télécom networks, with complementary expertise and industrial platforms.



- **Shared Innovation Infrastructures**
  - Development of a **shared service platform** to facilitate access to technological solutions, demonstrators, expertise and services across the network.



- **Co-Innovation Projects**
  - Implementation of a **portfolio of research and innovation projects** addressing four strategic areas: **green industry and impact measurement, digital infrastructures and IoT, advanced design and manufacturing technologies, and economic and societal transformation.**



- **Knowledge & Skills Transfer**
  - Integration of research, industrial demonstrations supported by **initial and continuing education** to facilitate the adoption and dissemination of solutions within industrial ecosystems.



A **collaborative governance model** brings together academic, industrial and institutional stakeholders. Cross-institutional working groups and shared performance indicators support coordination, monitoring and continuous improvement throughout the project. The overall approach is designed to move from **distributed capabilities to a coordinated innovation network**, while preserving the regional anchoring and sector-specific expertise of individual campuses.

## Preliminary Results





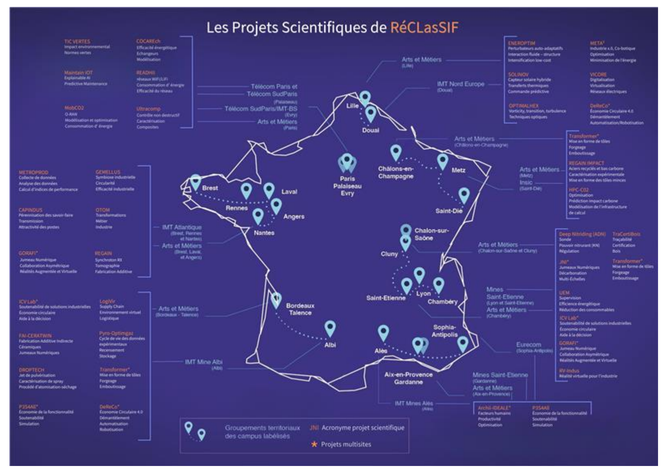




The first phase of RéCLasSIF has focused on **building the foundations of the national innovation network** and initiating collaboration across the participating campuses. To date, the project has achieved several milestones:

- ✓ **15 campuses** are being integrated into the national RéCLasSIF network, combining the Arts et Métiers and Institut Mines-Télécom ecosystems.
- ✓ A portfolio of **35 research and innovation projects** has been initiated across the four strategic areas of the programme, covering topics such as energy efficiency, digital twins, metrology, advanced manufacturing and new approaches to industrial training.
- ✓ **Shared governance and working groups** have been established to coordinate the network, develop common services and define quality and continuous-improvement processes.
- ✓ The **shared-service platform approach** is currently being developed to facilitate the circulation of technological solutions, demonstrators and expertise between campuses and industrial stakeholders.
- ✓ The network has established a common framework for the **SIF campus label**, intended to provide greater visibility and coherence to the technological, research and training capabilities offered by the participating campuses. The first labels will be granted by the end of 2026.

These first results suggest that the main challenge is not only to develop new technological solutions, but also to create the **organizational and relational mechanisms required to connect, transfer and scale innovation across a distributed network**.




## Key conclusions and perspectives

RéCLasSIF illustrates how a distributed academic and technological ecosystem can be structured as a **national innovation network** while maintaining strong connections with regional industrial ecosystems.
The project highlights three key principles:

- ➢ **Connectivity matters:** combining geographically distributed infrastructures and expertise can increase the accessibility and visibility of innovation capabilities.
- ➢ **Integration is essential:** technological development, industrial demonstration, knowledge transfer and skills development need to be addressed within a common framework.
- ➢ **Networks require coordination mechanisms:** shared governance, quality processes, digital services and common standards are necessary to transform a collection of actors and resources into a functioning innovation network.

### AND NOW ?

The next phase will focus on **strengthening inter-campus collaboration, expanding industrial engagement and operationalising the shared services and labelling framework**.

A key perspective is to assess how the network contributes to the **diffusion and scaling of innovation** across regional ecosystems, particularly towards SMEs and mid-sized companies.

### RESEARCH POTENTIAL

From a research perspective, RéCLasSIF provides an opportunity to investigate how **network architecture, governance and knowledge flows** influence the capacity of distributed innovation ecosystems to generate and scale industrial transformation.

Ultimately, the ambition is to move from a network of connected campuses towards a **self-sustaining innovation ecosystem**, capable of continuously connecting technological capabilities, industrial needs and emerging skills.

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