

Press release

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France 2030: Institut Mines-Telecom appointed to set up the "France 6G" platform

[Institut Mines-Telecom](#) has been chosen by the French Ministry of the Economy, Finance and Industrial and Digital Sovereignty and the Ministry of Higher Education and Research to design and manage the future France 6G platform. The aim is to bring together industrial and academic stakeholders working on 6G and the networks of the future. The platform community will actively promote its technologies in standardization committees.

As part of the France 2030 initiative, the government is launching a large-scale public research program into the networks of the future, including the July 10 launch of PEPR 5G (5G Priority Research Programs and Equipment) and *Networks of the Future*. With the arrival of 6G, the next generation of networks will be a vital tool for industry to remain competitive, and an asset for France, which needs to reassert itself around the technological standards that will shape future markets.

From 5G to 6G

5G saw the arrival of native multi-service and multi-sector networks structuring different vertical industries. Now comes 6G, which is up to 100 times faster than 5G, with increased performance and digital sobriety. This opens up new potential for operational solutions to meet the challenges of industry, particularly for applications and services based on integrative and frugal AI: interactive robotics, immersive virtual reality, digital twins, etc.

And standardization plays a key role in this highly competitive environment. Drafting of the 3GPP (3rd Generation Partnership Project) standards for 5G Advanced began in 2022 with version 18, while drafting for 6G is scheduled for 2026 with version 21. Telecoms players are now working together to draw up the first service specifications for 6G, with its rollout scheduled for 2030.

The France 6G platform: a leading-edge initiative

The France 6G platform aims to leverage, unite, and structure ecosystems to identify and implement key technologies – taking into account energy and societal issues. It will then promote these technologies in published standards. The long-term goal is to acquire a pool of essential 6G patents, enabling French companies to gain the advantage in certain market segments.

As part of this project, Institut Mines-Telecom has been appointed to:

- Develop a single and joint position for French players in 6G industry and carry out research into certain target themes (vehicular mobility, industry of the future, etc.), in collaboration with the Strategic Committee for Digital Infrastructures as well as governing the PEPR 5G, *Networks of the Future* and IRT b-com (b-com Institute of Research and Technology)
- Strengthen cooperation between the various players in the ecosystem (research institutes, start-ups, industry, etc.), by creating collaborative projects between research and industry
- Identify alternatives for certain 6G applications that could have significant environmental impact (frequencies used, distribution of processing between transmitter and receiver or between local and centralized, optimization of signaling and data rates, etc.) and put forward standardization strategies to support best environmental practices
- Support research and industry players in joint and coordinated actions to encourage participation in and contributions to 6G standardization
- Promote the French 6G network to European and international industry players, and share information with this network on the funding mechanisms available in France and Europe
- Help promote the intellectual property assets held by players in the French telecoms ecosystem within specific forums (3GPP, ETSI (European Telecommunications Standards Institute), ITU (International Telecommunication Union) and IETF (Internet Engineering Task Force) in particular).

Institut Mines-Telecom, a recognized leader in the telecoms sector

With expertise in 5G-6G, telecom networks of the future and technology transfer, Institut Mines-Telecom is a major player in the industry. The Institut is joint coordinator of the PEPR 5G and *Networks of the Future*, partner in the *Beyond 5G* project under PIA4 (Investment for the Future Program), co-sponsor of the *FramexG* maturation/prematuration project, coordinator of the 5G Skills and Professions of the Future project, coordinator of the 5G Metaverse project and founder and coordinator of the Carnot Telecom & Digital Society institute. It covers a wide scope of fields: radio, communication networks, cloud, data spaces, uses and regulation, standardization, which will enable it to work with industrial and academic players to build the France 6G platform and roll it out across Europe.

Institut Mines-Telecom is composed of the following schools: IMT Atlantique, IMT Nord Europe, Mines Saint-Étienne, Telecom Paris, Telecom SudParis and EURECOM.

Françoise Prêteux, Director of Research and Economic Development, Institut Mines-Telecom: *“Institut Mines-Telecom has long been recognized for its research and training in the fields of engineering and digital technology. Today, with its expertise in 5G-6G, telecom networks of the future and technology transfer, Institut Mines-Telecom is a major player in the field, covering the entire spectrum of training, research and economic development. By setting up the France 6G platform, we are taking responsibility for our commitment to industry. Our ambition is to help France play a leading role in future communications networks and meet the challenges of digital sovereignty.”*

About Institut Mines-Télécom www.imt.fr

Institut Mines-Telecom is the leading public group of French engineering and management schools to be placed under the supervisory authority of the Ministry of the Economy, Finances and Industrial and Digital Sovereignty. It is a public research and higher education institution made up of eight public graduate schools: IMT Atlantique, IMT Mines Albi, IMT Mines Alès, IMT Nord Europe, Institut Mines-Telecom Business School, Mines Saint-Étienne, Telecom Paris and Telecom SudParis as well as two subsidiary schools: EURECOM and InSIC. It leads and

develops a rich ecosystem of partner schools and economic, academic and institutional partners and players in training, research and economic development.

Created to meet France's needs in economic and industrial development since the 19th century, Institut MinesTelecom's graduate schools have supported all the communications and industrial revolutions. Through its research and its training of engineers, managers and PhD students, Institut Mines-Telecom tackles the major industrial, digital, energy and environmental challenges in France, Europe and around the world.

Today, Institut Mines-Telecom and its 10 schools are imagining and building a world that combines science, technology and economic development with a respect for the planet and the people who live on it. It is double Carnot certified and trains 13,300 students every year.



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