



Press release

05/11/2025

Data4NuclearX, a sovereign and secure digital dataspace for the nuclear sector

A consortium of six European nuclear and digital stakeholders—EDF, CEA, Dawex, GIFEN, Institut Mines-Télécom, and Sopra Steria—have joined forces to create a sovereign and secure digital dataspace: Data4NuclearX, led by major players in the sector and GIFEN.

The Data4NuclearX project aims to provide the nuclear industry with a trusted digital dataspace that enhances performance, security, and sovereignty of the data shared among the nearly 2,000 companies that make up the nuclear sector in France. This is a critical issue in the context of nuclear expansion, where data exchanges could increase tenfold within five years, reaching an estimated volume of 25 million data exchanges annually.

As part of France's nuclear revival, Data4NuclearX offers a new solution to promote secure data exchange and support the sector's growth. It facilitates interaction between nuclear companies, improves the management of complex projects, strengthens interface reliability, and accelerates innovation and digital transformation across the industry.

The Data4NuclearX dataspace aims to:

- Ensure each partner has access to reliable data to make timely operational decisions. The exchanged data will cover all processes within the nuclear sector.
- Use common languages to foster cooperation among nuclear companies.
- Maintain data control: each company retains full control over its data and manages access conditions.
- Provide technologies based on European technical standards aligned with Gaia-X principles.

Among the first operational implementations include data exchanges related to equipment manufacturing tracking, enabling faster decision-making and reduced lead times. The expected benefits span the entire supply chain: improved quality, schedule control and traceability, and faster issue resolution.

The project includes a design and planning phase until 2027, followed by a pilot phase focusing on three priority use cases, and a full-scale operational rollout starting in 2028.

Data4NuclearX is supported by the French government under the France 2030 initiative, aiming to ensure mastery of sovereign digital technologies.

The six consortium members contribute with their expertise and concrete solutions:

- **EDF** leads and coordinates the project, involving its nuclear teams in implementing the initial use cases.
- **CEA**, with 80 years of nuclear expertise, contributes its knowledge in data semantics and artificial intelligence to develop tools that streamline partner integration, especially for SMEs.
- **Dawex** brings to Data4NuclearX its Data Exchange solution to distribute or share data products with trust, security, traceability and in compliance with data regulations.
- **GIFEN** serves as the collaborative hub where nuclear companies work together to digitize processes and exchanges. The creation of a data space fits within this framework and will improve information processing.
- **Institut Mines-Télécom** and its subsidiary IMT Transfert support prototyping and experimentation through the Data Space Lab, helping scale the data space for the benefit of the entire nuclear sector and its SMEs.

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- **Sopra Steria** brings its expertise in architecture and development to design and implement the specific components required for the dataspace.

About EDF

The EDF Group is a key player in the energy transition, as an integrated energy operator engaged in all aspects of the energy business: power generation, distribution, trading, energy sales and energy services. The Group is a world leader in low-carbon energy, with an output of 520TWh 94% decarbonised and a carbon intensity of 30gCO₂/kWh in 2024, a diverse generation mix based mainly on nuclear and renewable energy (including hydropower). It is also investing in new technologies to support the energy transition. EDF's raison d'être is to build a net zero energy future with electricity and innovative solutions and services, to help save the planet and drive well-being and economic development. The Group supplies energy and services to approximately 41.5 million customers⁽¹⁾ and generated consolidated sales of €118.7 billion in 2024.

(1) The customer portfolio consists of electricity, gas and recurring service contracts

About CEA

The CEA is a public research organization that supports public policy decision-making and equips French and European businesses and communities with the scientific and technological means to better navigate four major societal transitions: energy transition, digital transition, future healthcare, and national/global security. Its mission is to ensure France and Europe maintain scientific, technological, and industrial leadership, contributing to a more secure and controlled present and future for all. The CEA is guided by three core values: curiosity, cooperation, and a strong sense of responsibility.

Learn more at: www.cea.fr/english

About Dawex

Dawex is the leader in Data Exchange solutions to distribute or share data products, with trust, traceability and, in compliance with data regulations. With Dawex Data Exchange technology, organizations create data ecosystems such as Corporate Data Hubs, Data Marketplaces and Industry Data Spaces to improve competitiveness, market efficiency and value chain resilience. At the invitation of the United Nations, Dawex joins the Data Expert Group of the United Nations Environment Program. Awarded Technology Pioneer by the World Economic Forum, Dawex is also the initiator of an international standardization program on Trusted Data Transaction. Created in 2015, Dawex is headquartered in France, expanding business operations to Europe, Asia, North America and the Middle East.

More information on <https://www.dawex.com/>

About GIFEN

GIFEN (Groupement des Industriels Français de l'Énergie Nucléaire), created in 2018, is the professional association representing the entire nuclear sector in France, which employs over 200,000 people. GIFEN currently brings together nearly 600 companies, including operators of French nuclear facilities, large corporations, mid-sized companies, SMEs, micro-enterprises, professional organizations, and associations. GIFEN addresses cross-cutting issues within the nuclear sector and offers shared services to nuclear stakeholders with the goal of achieving excellence. Its missions include enhancing industrial performance, supporting the development of the nuclear sector in France and internationally, providing value-creating services, representing and advocating for the sector. Through these actions, GIFEN contributes to building the French nuclear industry of today and tomorrow.

About Institut Mines-Télécom

Institut Mines-Télécom is France's leading public group of engineering and management Grandes Écoles, operating under the supervision of the Ministry of the Economy, Finance, and Industrial and Digital Sovereignty. As a public institution for higher education and research, it comprises eight Grandes Écoles: IMT Atlantique, IMT Mines Albi, IMT Mines Alès, IMT Nord Europe, Institut Mines-Télécom Business School, Mines Saint-Étienne, Télécom Paris, and Télécom SudParis, along with two affiliated schools: EURECOM and InSIC.

Founded to meet France's economic and industrial development needs since the 19th century, the Grandes Écoles of Institut Mines-Télécom have supported every industrial and communications revolution through research and the training of engineers, managers, and PhD graduates. Institut Mines-Télécom is a founding member of Gaia-X and co-leads its France Hub. Its data and AI platform, TeraLab (IMT Transfert), acts as a trusted third party, offering state-of-the-art tools to facilitate collaboration between businesses and researchers in a neutral, secure, and sovereign environment.

About Sopra Steria

Sopra Steria, a major Tech player in Europe with 50,000 employees in nearly 30 countries, is recognised for its consulting, digital services and solutions. It helps its clients drive their digital transformation and obtain tangible and sustainable benefits. The Group provides end-to-end solutions to make large companies and organisations more competitive by combining in-depth knowledge of a wide range of business sectors and innovative technologies with a collaborative approach. Sopra Steria places people at the heart of everything it does and is committed to putting digital to work for its clients in order to build a positive future for all.

In 2024, the Group generated revenues of €5.8 billion.

Sopra Steria (SOP) is listed on Euronext Paris (Compartment A) – ISIN: FR0000050809



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About France 2030

This project has received support from the France 2030 program.

Presented on October 12, 2021 by the President of the Republic, France 2030:

- ✓ **To transform** key sectors of the French economy such as energy, automotive, healthcare, aerospace, and space through technological and industrial innovation, and to position France not just as a participant, but as a global leader in shaping the future, and **to support** the entire innovation lifecycle, from fundamental research and idea emergence to the production of new products or services, all the way through to industrialization.
- ✓ **is unprecedented in scale, with 54 billion invested** to help businesses, universities, and research organizations successfully navigate transitions in strategic sectors. The goal is to enable them **to respond competitively** to ecological and attractiveness challenges, and to foster the emergence of future champions in fields of excellence thus reinforcing France's sovereignty and independence in key industries. 50% of the funding is dedicated to decarbonizing the economy. 50% is allocated to emerging players driving innovation with no significant negative environmental impact (in line with the Do No Significant Harm principle).
- ✓ **is implemented collectively**: the plan is designed and deployed in consultation with economic, academic, local, and European stakeholders who helped define its strategic directions and flagship actions. Project leaders are invited to submit proposals through open, rigorous, and selective procedures to benefit from State support.
- ✓ **Is coordinated** by the General Secretariat for Investment on behalf of the Prime Minister and implemented by: ADEME (Agency for Ecological Transition), ANR (National Research Agency), Bpifrance, and Caisse des Dépôts et Consignations (CDC).

More informations on : france2030.gouv.fr

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