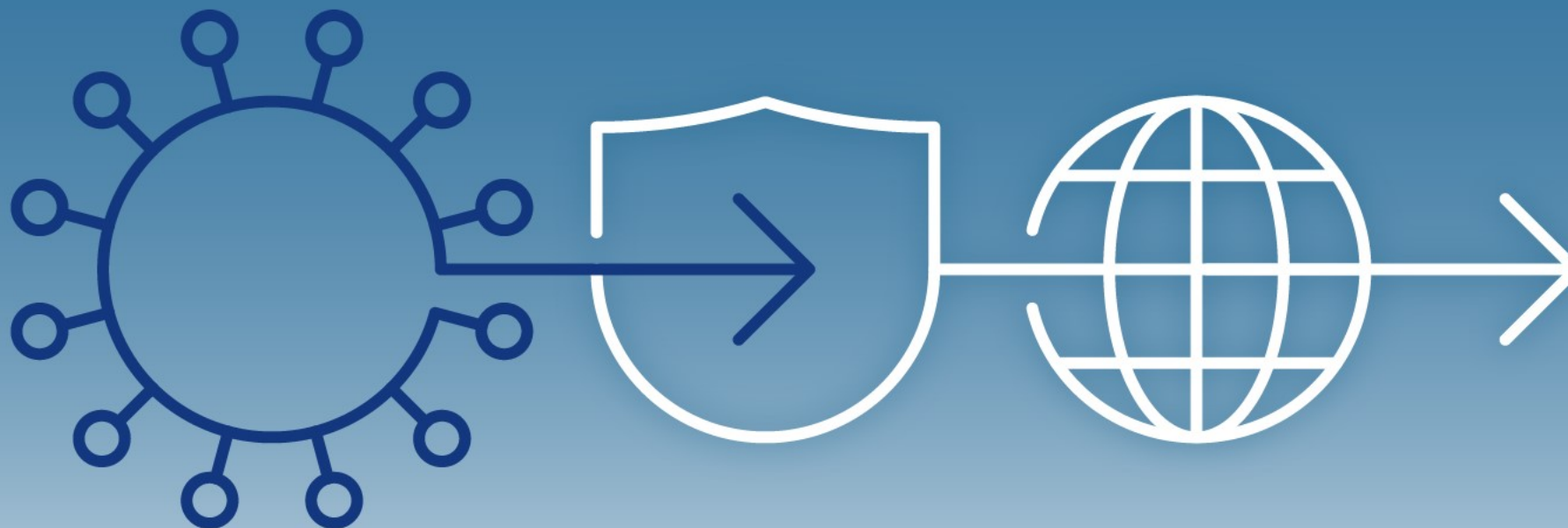


# Konferencja Naukowa Bezpieczeństwo w Internecie – Cyberpandemia

22-23 października 2020 r.



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POLSKIE TOWARZYSTWO INFORMATYCZNE

  
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# European cloud federation

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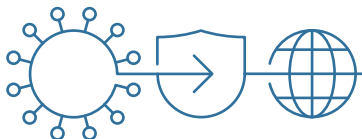


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# Cloud declaration

- Declaration - Building the next generation cloud for businesses and the public sector in the EU - signed on the 15th October 2020
- Text available on <https://ec.europa.eu/digital-single-market/en/news/towards-next-generation-cloud-europe>
- All EU27 Member States
- Overall aim to work together towards deploying resilient and competitive cloud infrastructure and services across Europe.
- Announced in the EC Communication **A European strategy for data** of February 2020 - <https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1593073685620&uri=CELEX%3A52020DC0066>

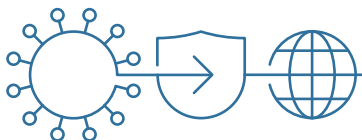




# Cloud declaration – overall goals

The Member State Signatories agree to:

- 1) work together towards a European cloud federation initiative to shape the next generation secure, energy-efficient and interoperable cloud supply for Europe.
- 2) cooperate towards one set of common technical rules and norms (future EU Cloud Rulebook) and
- 3) cooperate towards the deployment of interconnected cloud capacities across the EU, including common marketplaces.

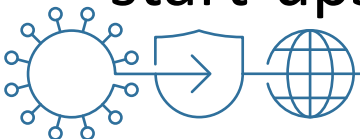




# Cloud declaration – III parts

The Signatories agree to work together on the European cloud federation initiative, by:

1. Investing to **shape the next generation of competitive cloud infrastructures** and services for businesses, the public sector or areas of public interest.
2. Defining a **common approach** on federating cloud capacities at European level, notably by creating synergies with and building on existing national initiatives
3. **Driving the uptake** of trustworthy, secure, and energy-efficient data processing capacities for small and medium-sized enterprises (SMEs), start-ups and public administration.

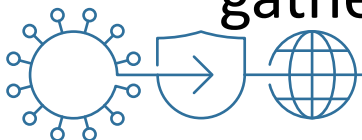




# Shaping the next generation cloud

The Signatories agree to work together on the European cloud federation initiative, by:

- 1) Investing to shape the next generation of competitive cloud infrastructures and services for businesses, the public sector or areas of public interest.
- 2) Stimulating the emergence of a resilient and competitive European supply for the public and private sector needs. The cloud infrastructure and services should be highly trusted, secure, interoperable and energy-efficient, cover all architecture levels and encompass the edge.
- 3) Working together with the EC to deliver options for a European cloud federation initiative, together with an ambitious investment plan, gathering private, national and EU efforts.

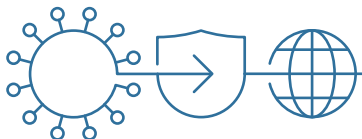




# Shaping the next generation cloud - European Alliance

## 4) Supporting the launch of a **European Alliance for Industrial Data and Cloud**

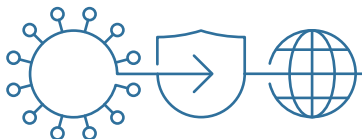
- a) broad European industry participation, all interested Member States,
- b) facilitated by the Commission,
- c) built upon existing industrial initiatives,
- d) mandate to design the detailed business, investment and implementation plan to deploy the next generation cloud capacities,
- e) foster the emergence of cross-sectoral data, computing and industrial ecosystems.





# Shaping the next generation cloud

- 5) Where possible, mobilising national public and private funds to (co-) invest in the panEuropean deployment of cloud infrastructures and services.
- 6) To modernise public sector cloud capacities, identifying, on a voluntary basis, appropriate use cases for interconnecting existing national, regional and/or local public sector cloud capacities.
- 7) Striving to make the EU a worldwide data hub, by increasing the attractiveness of the EU for data storage and processing activities towards relevant international partners.







# Defining a common approach – EU cloud Rulebook

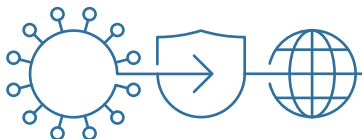
- 1) Cooperate with the EC to define and implement common conditions of participation in the federation through a set of norms (such as technical standards, codes of conduct and certifications, including those foreseen in EU legislation)

This set of norms should be compiled in an **EU Cloud Rulebook**.

Built on existing European initiatives.

Developed by the Commission with close involvement of Member States, while taking into account suppliers and users.

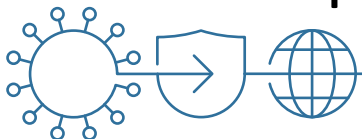
It will be regularly updated, and stimulate the participation of SMEs in European cloud federation.





# Defining a common approach

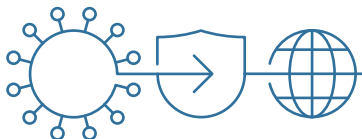
- 2) Work towards technical solutions for federating European cloud capacities (common standards, profiles and technical specifications) in order to ensure portability, trust, data protection, security and interoperability.
- 3) Cooperate with the EC in the swift deployment of European data spaces, amongst other by developing the framework for interoperability between industrial and public partners of a data space using different cloud providers.
- 4) Support the deployment of common and interoperable EU cloud marketplaces. This will be facilitated by the Commission.





# Driving the uptake of the cloud

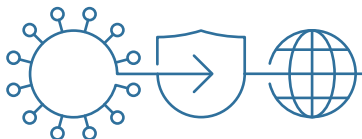
- 1) Acknowledge the leading role of the public sector in cloud and edge uptake ('cloud first' and multi-cloud policies at national, regional and local levels)
- 2) Develop EU common requirements and standards for cloud procurement
- 3) Consider demand aggregation of public administrations, and subsequently by working towards common cloud procurement.
- 4) Lead a shift towards more secure and energy-efficient data centers and cloud services, including by promoting the new EU green public procurement criteria services in procurement national action plans.
- 5) Support advanced education, training and new digital skills development related to cloud computing.





# Financing European Cloud Federation & Data Spaces (2021-2027)

- The High Impact Project on European Data Spaces and federal cloud infrastructure (European Data Strategy) to fund: infrastructures, data sharing tools, architecture and governance mechanisms.
- Up to 2 billion euro EU Funding (DEP, CEF, Invest EU, Recovery Plan for Europe)
- Co-investment from Industry & Member States
- Total expect funding of 4 – 6 billion euro

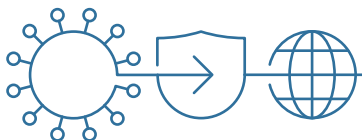




# Cloud declaration – current initiatives

The declaration mentions different initiatives:

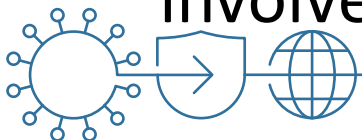
- Public – private: the Gaia-X initiative for “a European federated data infrastructure”
- National cloud initiatives: the Polish Common State IT Infrastructure Program (WIIP), Italian Cloud for public administration, Belgium’s G-Cloud, Estonia Government Cloud, French cloud strategy for public administration, Spanish cloud strategy for the state public administration, Portugal’s National Cloud Strategy for Public Administration, Greece’s G-Cloud, Ireland’s G-Cloud, Austria’s Ö-Cloud initiative and Lithuania’s project on the government infrastructure consolidation.





# GAIA-X

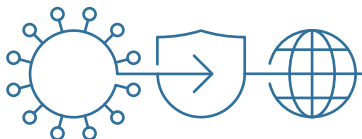
- FR – DE initiative to implement in practice the European Cloud Federation.
- Its aim is to develop common requirements, identify the minimum technical requirements and services necessary to operate the federated GAIA-X Ecosystem (Security by Design, Privacy by Design).
- Give users access to a broad and highly useful range of specialised products and services from cloud providers, thus enabling the use of tailored solutions.
- More than 300 organizations from various countries are already involved in GAIA-X.





# GAIA-X Association

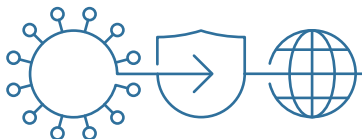
- An umbrella organization based on belgian law - association internationale sans but lucratif, AISBL – currently being set up.
- Founding members - 22 companies: Amadeus, Atos, Beckhoff, Bosch, BMW, DE-CIX, Deutsche Telekom, Dicaposte, EDF, Fraunhofer, German Edge Cloud, Institut Mines Telecom, International Data Spaces Association, Orange, 3DS Outscale, OVHcloud, PlusServer, Safran, SAP, Scaleway i Siemens.
- Open for further participation - [contact@datainfrastructure.eu](mailto:contact@datainfrastructure.eu)





# Cloud federation – next steps

- EC analyses the options for a formal framework of the Cloud Alliance – a platform to cooperate and exchange views.
- EC plans to outreach to all stakeholders interested in taking part in the Alliance and work on the EU Cloud Rulebook.
- The Alliance to be established at the beginning of 2021







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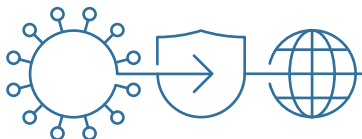


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Dziękuję za uwagę

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