

Europe in the Global Data Economy

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Sharing as a Culture Worth Promoting

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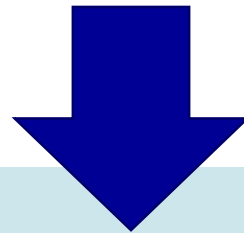
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The European Data Strategy
Status quo

Enhancing Innovation and Economic Growth with Data

- Data is critical to digital innovation and economic growth. It enables progress in various sectors (manufacturing, healthcare, urban development...)
- Currently, 80 percent of data in Europe remains unused, highlighting a significant opportunity for improvement



The European Data Strategy aims to create a regulatory framework that facilitates a fair data economy, encourages data-driven innovation, and promotes shared data spaces to maximize the use of data.

European Data Strategy: Implementation and Progress



Introduction of the Data Governance Act (DGA) and Data Act (DA) to provide a consistent legal framework for data usage



Supporting institutions: The European Data Innovation Board (EDIB) and the Data Spaces Support Centre (DSSC) are key to implementing the legal framework and ensuring interoperability across the EU



Launch of more than 100 data space initiatives, fostering environments in which data can be shared securely and efficiently

Collaborative Efforts - Adapting to New Realities

Organizations such as Gaia-X and the International Data Spaces Association (IDSA) play a key role in the development of data spaces

Industry associations

Numerous projects are funded through the Digital Europe Program and national instruments, fostering innovation and collaboration

Funded projects

Industry-led initiatives such as Catena-X (automotive) and Eona-X (tourism) demonstrate the sector-specific applications and benefits of shared data spaces

Sector-specific initiatives

Geopolitical tensions

Rising geopolitical and industrial tensions necessitate Europe's strategic autonomy in digital capabilities

Reducing dependency

Europe seeks to strengthen its own digital infrastructure and capabilities to reduce dependence on external entities and increase "economic security"

02

The European Data Strategy Future Directions

Enhancing the Single Market with Data

**“[...] the EU holds a vast but underutilized pool of data, expertise and startups. Without full utilization, there's a risk that this wealth of resources could end up benefiting other global entities better positioned to capitalize on it and hamper our strategic autonomy and economic security.”
(Enrico Letta, 2024)**

- Letta's "fifth freedom" concept: Focus on the free movement of research, innovation, data, skills, knowledge, and education within the single market
- Avoiding fragmentation: A single set of rules avoids the fragmentation that could result from different rules in different member states and ensures a coherent approach
- Global comparisons: Other regions such as China are developing their own data strategies can provide insights for Europe to remain competitive (e.g., China National Data Bureau)

Future Directions for the European Data Strategy

- **Global interaction:** Emphasize the need for cross-border data sharing to support global supply chains and enhance international trade relationships.
- **Foundation models:** Focus on the development of open, quality-driven foundation models for AI, leveraging Europe's wealth of high-quality data.
- **Multilateral data sharing:** Encourage multilateral data sharing to foster innovation by combining different data sources.
- **Open source and standards:** Promote the use of open-source software and international standards to ensure interoperability and widespread adoption.
- **Platform economy:** Recognize data spaces as platforms and leverage platform economics to create network effects and achieve critical mass.
- **Automated compliance:** Develop automated compliance technologies to streamline compliance and foster innovation.



"Culture eats strategy for breakfast"

We need to emphasize common European values, such as human rights and democracy, in **fostering a culture of data sharing.**

From Common Values to a Culture of Data Sharing

Six basic principles

Partner ecosystems

Data is shared within ecosystems that facilitate the free movement of data and knowledge.

Data sovereignty and trust

Trust frameworks based on European values ensure data sovereignty and build trust among partners.

Shared data management

Data spaces are jointly managed without the need for proprietary intermediaries or centralized data storage.

Encourage data sharing

Encourage data sharing as essential to address global challenges such as climate change.

Economic framework

Establish a fair and transparent economic framework for value creation within data spaces.

Shared data assets

Recognize shared data assets as critical to AI development and innovation.

References

Brousseau, E., Eustache, L. and Toledano, J. (2024). Economics of Data Sharing. Gaia-X Institute; University of Paris Dauphine.

Centre de Recherche sur les Modèles de Fondations (CRFM). (2021) On the opportunities and risks of foundation models. Stanford, California: Stanford University.

CGTN. (25 October 2023). China inaugurates national data bureau. (<https://news.cgtn.com/news/2023-10-25/China-inaugurates-national-data-bureau-1obqU3dvBks/index.html>, accessed 12 June 2024)

DSSC of the EU. (2024). 1 Foundation of the European Data Economy Concepts. (<https://dssc.eu/space/BVE/357073710/1+-Foundation+of+the+European+data+economy+concepts>, retrieved on 12/06/2024).

DSSC of the EU. (2024). 2 Basic concepts. (<https://dssc.eu/space/BVE/357073747/2+Core+Concepts>, retrieved on 12/06/2024)

European Commission. (19 February 2020). A European strategy for data. (<https://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=CELEX:52020DC0066>, accessed 12/06/2024)

Letta, E. (2024). More than a market. April.

Roy, O. (29 March 2024). Le grand récement. (<https://legrandcontinent.eu/fr/2024/03/29/le-grand-recentrement/>, retrieved 12/06/2024)

Tardieu, H. and Otto, B. (2021). Digital sovereignty, European strength and the data and cloud economy - en concordia varié. European Journal of Law, pp. 98-104.

Van Alstyne, M., Parker, G. and Choudary, SP (2016). Pipelines, platforms and new rules for strategy. Harvard Business Review.

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Thank you

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