

Advanced Technology Watch - Technology Focus on Data Sharing

Data is an essential resource for economic growth, job creation and societal progress. In connection with proper analytics, data is crucial for making informed decisions and is the backbone of the European Commission's digital strategy. The amount of data is expected to grow, creating opportunities for businesses. The huge potential of data can only be further unlocked when shared.

Data sharing is a collection of practices enabling the exchange of information to derive tangible benefits. Sharing data can facilitate a more efficient and transparent process, create new opportunities and spur innovation.



By **2025**, the **global data volume** will have increased by **530%** and the **data economy of the EU27** will reach a value of **€829 bn** (from €301 bn in 2018)

Several data sharing models and frameworks exist, where open data is the pioneer of data sharing:





Data donorship



Data partnerships



Data intermediaries



Data sharing by regulation



Solving common challenges and enabling data sharing will create value for organisations in the public and private sector

Present challenges in data sharing

Lack of technological knowledge and skills to work with complex data

Reluctance to sharing public sector information Presence of local regulations makes it difficult to know which regulations to adhere to

Low commitment to share data from the scientific domain Reluctance to sharing company data due to competitive advantage Lack of quality data, metadata, licensing information and infrastructure for sharing

Impact and benefits of data sharing



Over **30%** of consulted **SMEs** are actively collecting data.



39% of European companies share data with other organisations.



Open data market size is valued at €184.45 bn for the EU27+ countries.

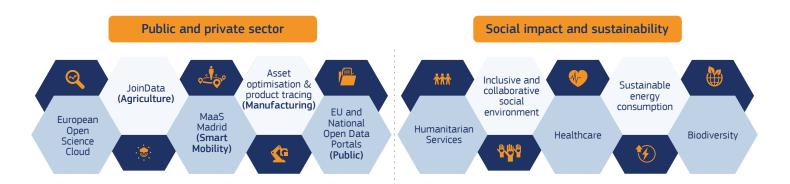


Data sharing results in **cost savings** across various sectors. For example, better allocation of resources to fight malaria.



Efficiency gains due to more and better data availability. For example, energy savings due to more efficient use of solar panels on rooftops.

Data sharing and open data have broad implications for the public and private sector, and accelerate initiatives in the social impact and sustainability domains



Policies, regulations and strategies guide and facilitate data sharing

Open data

- Open Data Directive (Public Sector Information Directive)
- Inspire Directive



Non-open data

- · Support Centre for Data Sharing
- · Safeguarding and ensuring compliance to General Data Protection Regulation is important



Data Strategy

- · High-level strategic objectives for data sharing on an EU level
- · Introduce regulatory constraints to ensure good data sharing practices
- European Data Spaces foster data sharing and serve as data governance mechanisms
- The Regulation on European data governance ensures leadership in the global data economy



About the Advanced Technologies for Industry (ATI) project

The ATI project – funded by the European Commission – supports the **implementation** of Europe's new growth strategy with a systematic monitoring of **technological trends** and reliable, **up-to-date data** on advanced technologies.



The **Advanced Technology Watch Reports** explore the futuristic, upcoming technologies that are on the horizon of technology development today and that are characterised by high speed of evolution and a significative disruptive potential.



For more information, read the full Advanced Technology Watch Report on Data Sharing here: https://ati.ec.europa.eu/reports/technology-watch/technology-focus-data-sharing