



What data governance for the future?

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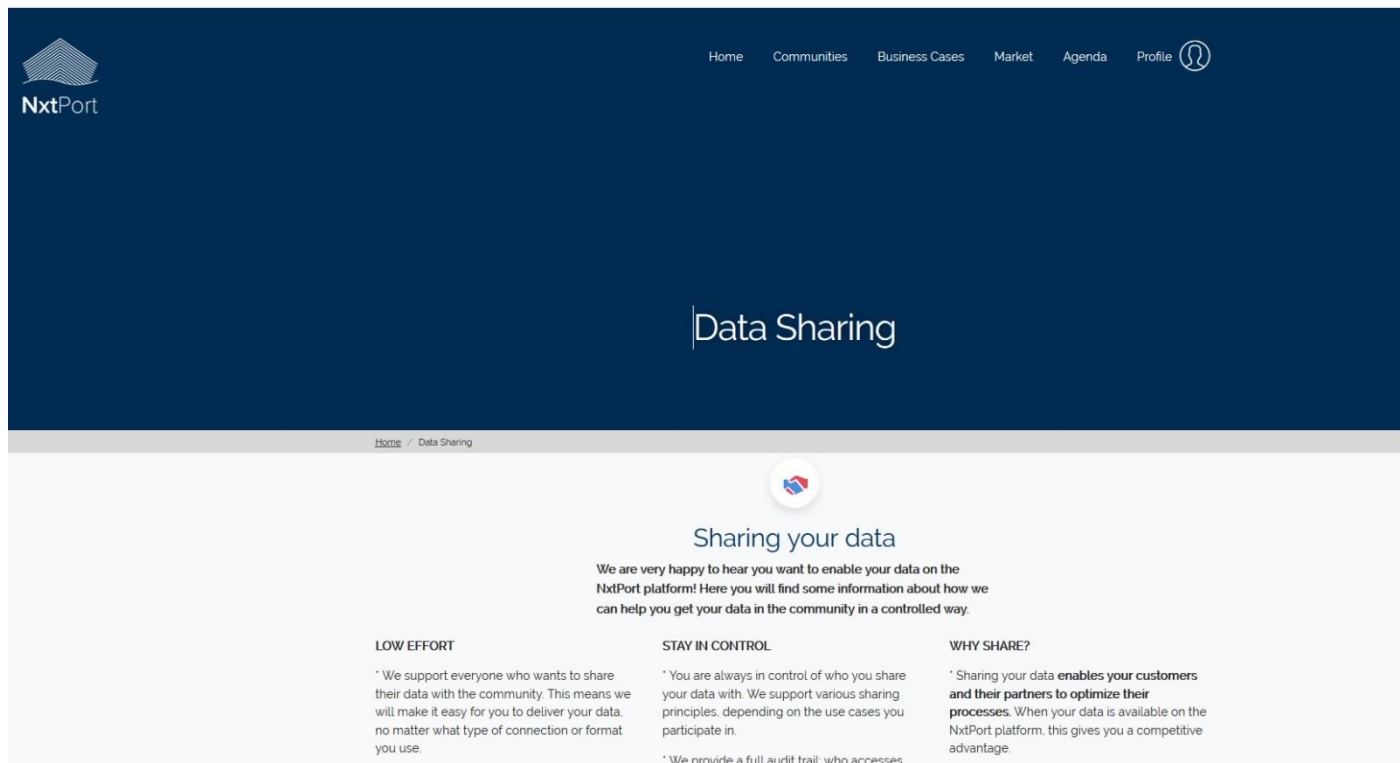
The economic and technical setting for B2B data sharing

- Emerging **technologies**: (almost) ubiquitous 4G-5G connectivity, (almost) ubiquitous data collection and transmission (in particular IoT), greatly improved data processing (hardware, Big Data analytics, AI):
"Because certain things have become possible, you will do it"
- Continued **business need** to optimise any process based on digitisation.

The policy setting for B2B data sharing

- Part of the **Digital Single Market strategy**:
Commitment to address the "emerging issues of ownership, interoperability, usability and access to data in situations such as business-to-business, business to consumer, machine generated and machine-to-machine data. It will encourage access to public data to help drive innovation."
- Latest policy document:
[Communication "Towards a common European data space"](#)
of 25 April 2018

The vision: Functioning 'data markets'



The screenshot shows the NextPort website's 'Data Sharing' page. The header is dark blue with the NextPort logo on the left and navigation links (Home, Communities, Business Cases, Market, Agenda, Profile) on the right. The main content area is white and features a central heading 'Data Sharing' with a vertical line to its left. Below this is a sub-heading 'Sharing your data' with a circular icon containing a blue and red data symbol. The main text reads: 'We are very happy to hear you want to enable your data on the NextPort platform! Here you will find some information about how we can help you get your data in the community in a controlled way.' Below this text are three columns of information:

- LOW EFFORT**
* We support everyone who wants to share their data with the community. This means we will make it easy for you to deliver your data, no matter what type of connection or format you use.
- STAY IN CONTROL**
* You are always in control of who you share your data with. We support various sharing principles, depending on the use cases you participate in.
* We provide a full audit trail: who accesses
- WHY SHARE?**
* Sharing your data **enables your customers and their partners to optimize their processes**. When your data is available on the NextPort platform, this gives you a competitive advantage.

What 'data governance' for functioning 'data markets'? – Why?

- Fostering digitisation of transactions, cross-company data integrations
- Fostering re-use of data ('the new oil') so as to leverage on its potential
- Ensuring 'data sovereignty', i.e. ensuring maximum transparency and control when sharing data

What 'data governance' for functioning 'data markets'? How to?

- Contracts as cornerstone of any data governance for B2B
- Sector-wide voluntary Codes of Conduct, model contract clauses or similar to frame contracting practices, lower transaction costs etc.
- Regulation to complement, organise if need be, e.g. to ensure fair competition, ensuring interoperability
Sector-specific rules articulating with generic sector-independent rules
- Support for open IT architectures;

The principles for IoT data exchange

- are applicable to non-personal data (GDPR takes care of the 'rest');
 - are written to ensure fair competition for IoT data;
 - Shall be taken into account when contracting on IoT data use;
-
- Transparency
 - Shared value creation
 - Respect for each others' commercial interests
 - Do not distort competition
 - Minimise data lock-ins

Support through funding actions (H2020 programme)

Creation of open, non-proprietary 'industrial data platforms'

OUR APPROACH THE PRINCIPLES GET INVOLVED SUCCESS STORIES THE ASSOCIATION MEDIA & COMMUNICATION Q SPACES ASSOCIATION

A TRUSTWORTHY ARCHITECTURE FOR THE DATA ECONOMY

The IDS provides self-determined control between all imaginable data endpoints

Endless Connectivity
Standard for data flows between all kinds of data endpoints

Trust between different security domains
Competence and audit-proof security functions providing a maximum level of trust

Governance for the data economy
Usage control and enforcement for data flows and assignments of data

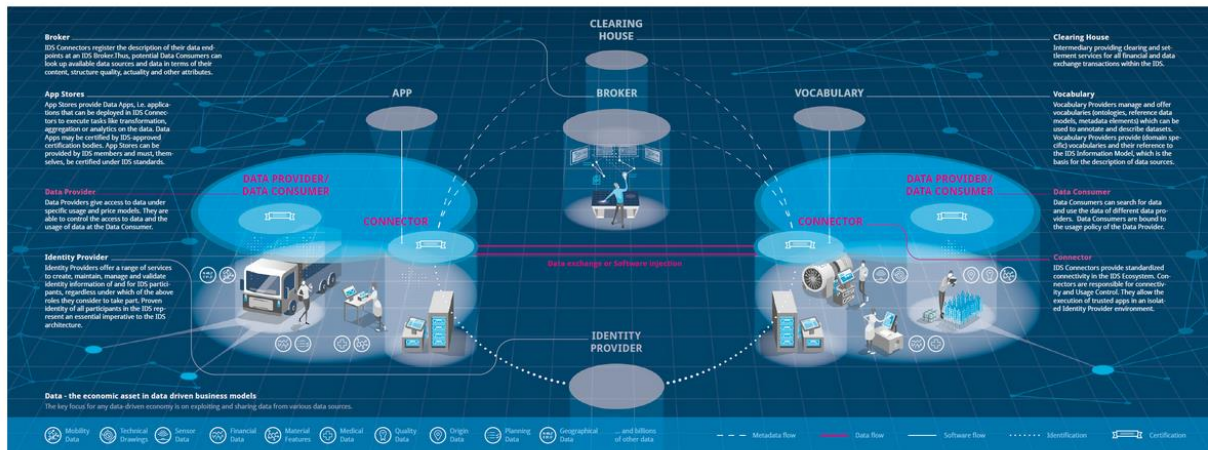
Secure Data Exchange
It forms the basis for a variety of certifiable software solutions, smart services ...

Business Models
Data Owners remain sovereign owners of their data at any time

International Standards
IDS defines the basic conditions and governance for a reference architecture and interfaces

Use Cases
This standard is actively developed and updated on the basis of use cases

A network of trusted entities in the data economy requires a mechanism for digital entities, that can reliably identify a participant and can provide more information on transaction partners. Additional information must be updated regularly and be provided in a trusted manner.



USE CASES

COMMUNITIES

10 THINGS TO KNOW ABOUT

CERTIFICATION

CALL TO

Using Big Data to optimise port processes

EU funded project on different transport modes
Development of a dashboard to monitor and predict port operations in real time using Big Data technologies



Ports as Intelligent Logistics Hubs



València Sea Port Pilot
Duisport Inland Port Pilot

Thank you for your attention!
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