



Content

European Data Act - Basics

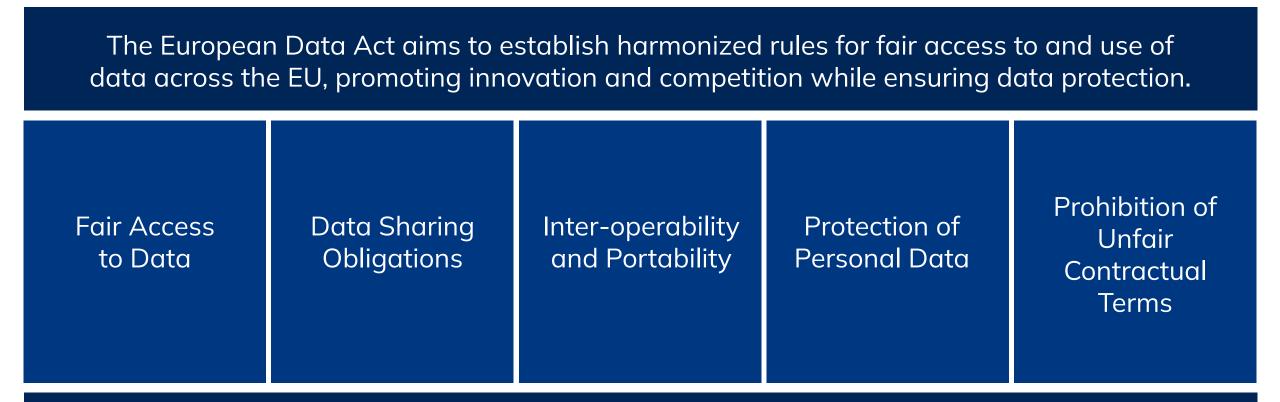
Data Economy and Logistics 0

- Logistics in the World of Data Platforms
- Al as Bridge Builders



EUROPEAN DATA ACT – WHAT IT IS ABOUT?

Base principles of the Data Act



Text generated with copilot

EUROPEAN DATA ACT - BASICS

Expected economy around the Europen Data Act

By 2025 global data volume >175 billion gigabytes

> By 2030 data economy value >11 trillion €

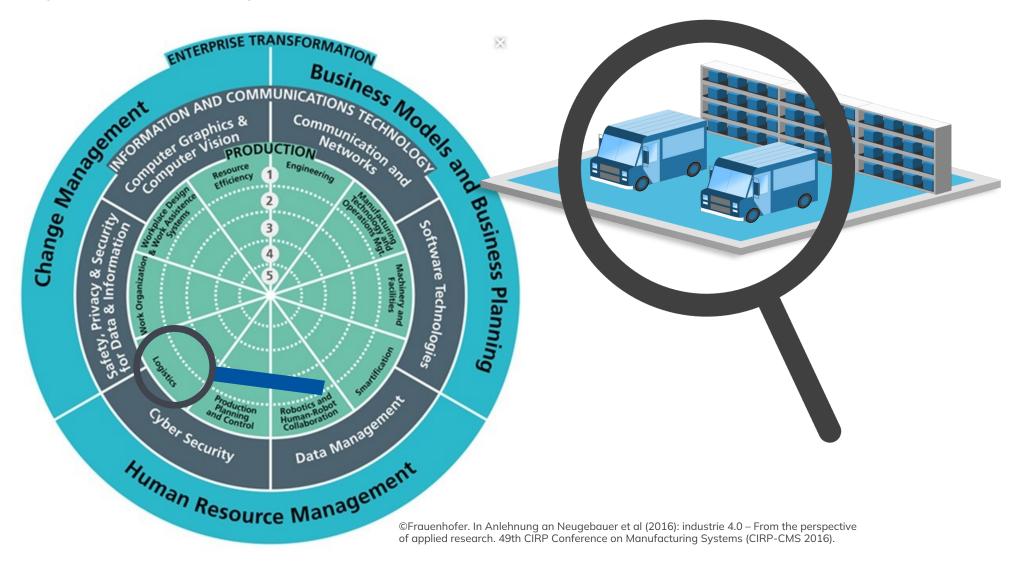
European Commission defines a data strategy to foster Europe's digital sovereignty and global competitiveness

The regulatory scope is mainly for digital products and service in the Area of B2C and B2B

Affected are all industry/users/3rd parties with smart products and services

LOGISTICS AND THE EUROPEAN DATA ACT

The logistics are part of the data provider



DATA PLATFORMS

Data platforms are the base for collaboration of different companies



Highly competitive pressure and new regulatory requirements.

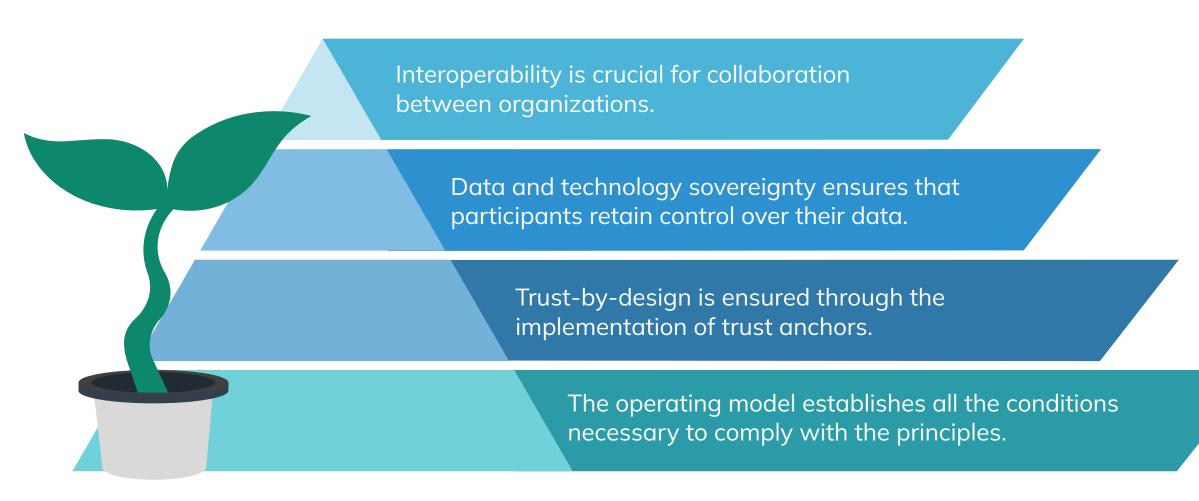
Close cooperation is essential to develop complex products with high customer benefits.

Data spaces enable the exchange of data across corporate boundaries.

They provide a digital infrastructure to strengthen existing value creation and to develop new business models.

DATA PLATFORMS

Base principles of a data platform



THE CURRENT PLATFORM ECONOMY

Each Industry or specific use case leads to a separate platform



WAREHOUSE AUTOMATION – 1ST FOCUS

Warehouse automation create high volume of data



Telegram Data

can be used for technical monitoring of the equipment



Handling Unit

Full traceability of HU



Volume Data

Analyze performance and throughput

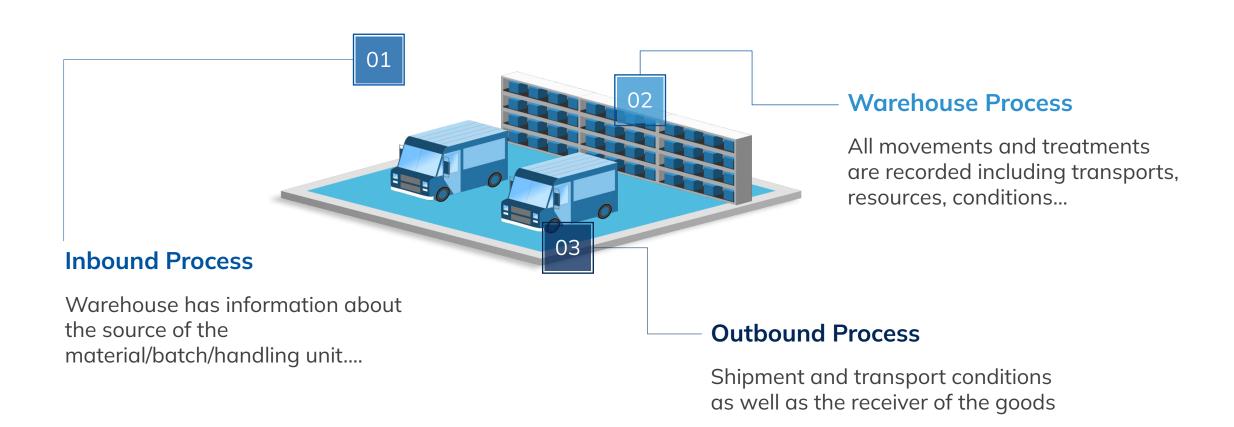


Error Messages

Create heatmaps and find hot spots

WAREHOUSE MANAGEMENT DATA FOR DATA PLATFORMS

WMS will provide information about the material/packages/batch movement



LOGISTICS IS A CROSS-INDUSTRY FUNCTION

The best way to deal with a lot of different data platforms with different connectors



Pilot with Data from Automation and Processes

First approach is to provide data from Warehouse Management systems



Identify Target Data

Identify the target data format as well as interface technics



Abstract Data Format

Data model for conversion



Train Al

Al is possible to create automatic interface in different techniques and data formats

DATA PLATFORM REQUIRES USAGE OF SPECIFIC ADAPTERS

Al agents help to generate the interface data

- Foundation is a large language model-based mapping mechanism based on GBPT-5, Gemini 2.5 and others
- Not only exact hits can be uses, but also synonyms, abbreviations and semantic relations
- As a result, there is a clear mapping to a field
- Human resource needs to define the content and check the result
- Workflow is shown in a demo

- Data can be mapped very fast w/o knowing the exact field names
- Various input data can be used, e.g. telegrams, transport order, warehouse tasks

Al as a practical tool to generate interface mappings on a semantic base.

TELEGRAM- AGENT

Procedure to generate interface data





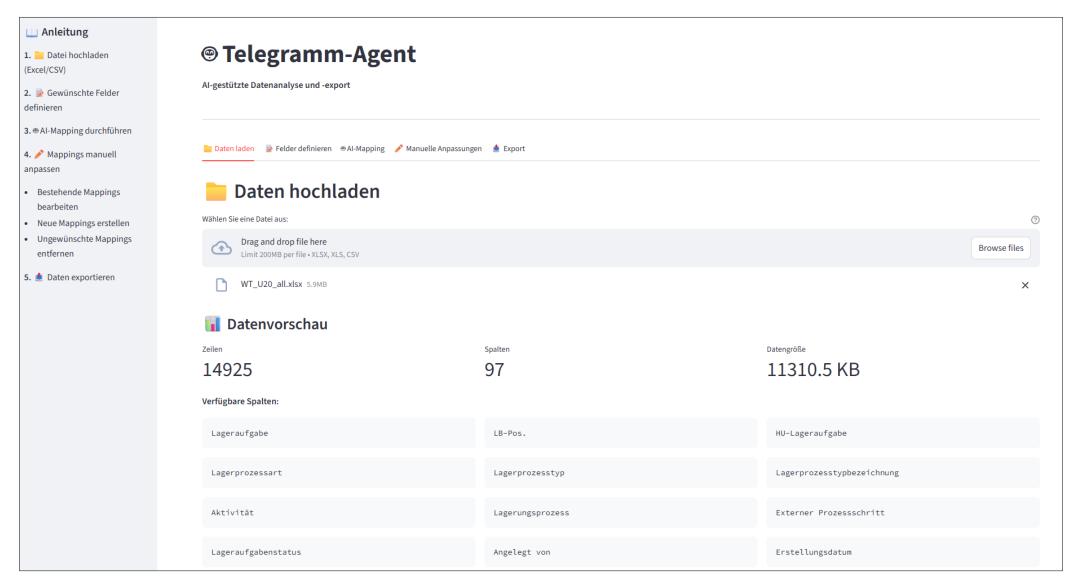






DATA LOAD

Data are analyzed and header information are determined

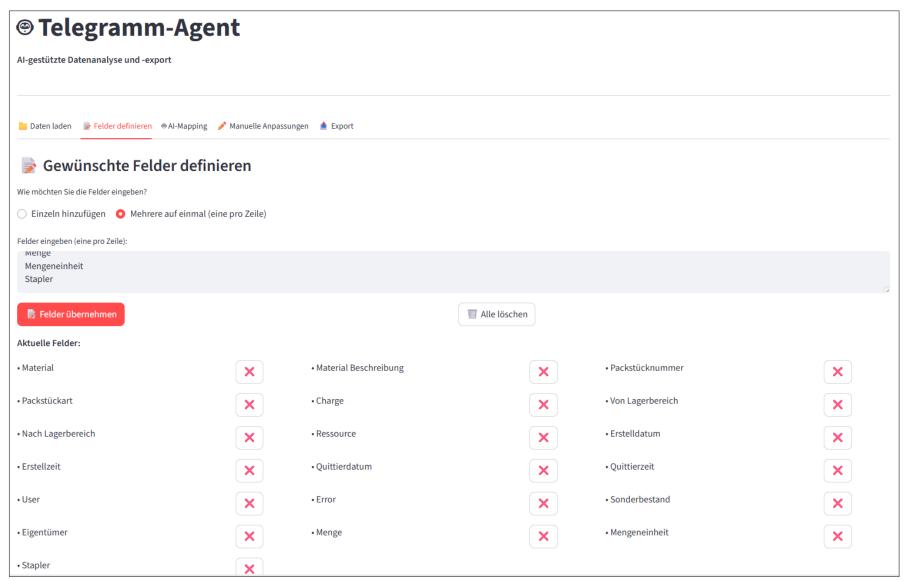


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DEFINE FIELDS

Fields can be defined as required by the target system



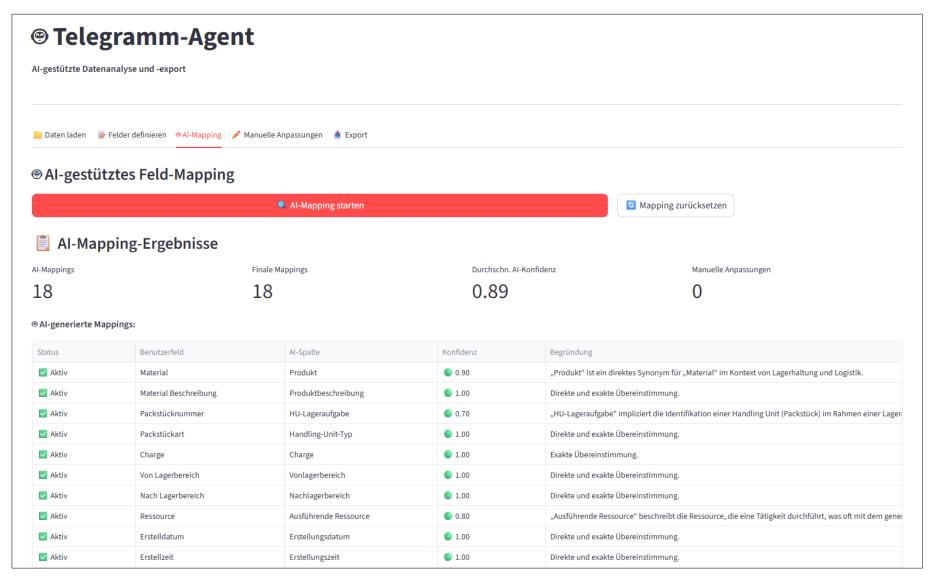
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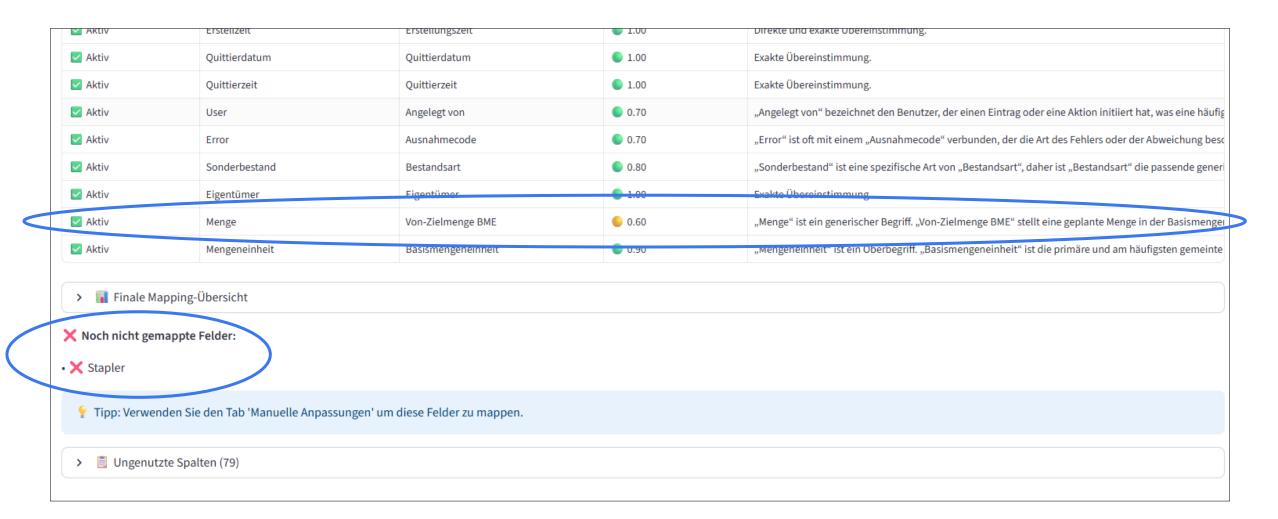
AI BASED MAPPING OF FIELDS

Defined fields will be mapped to source data structure



AI BASED MAPPING OF FIELDS

Al gives confidence level and fields which can not be mapped

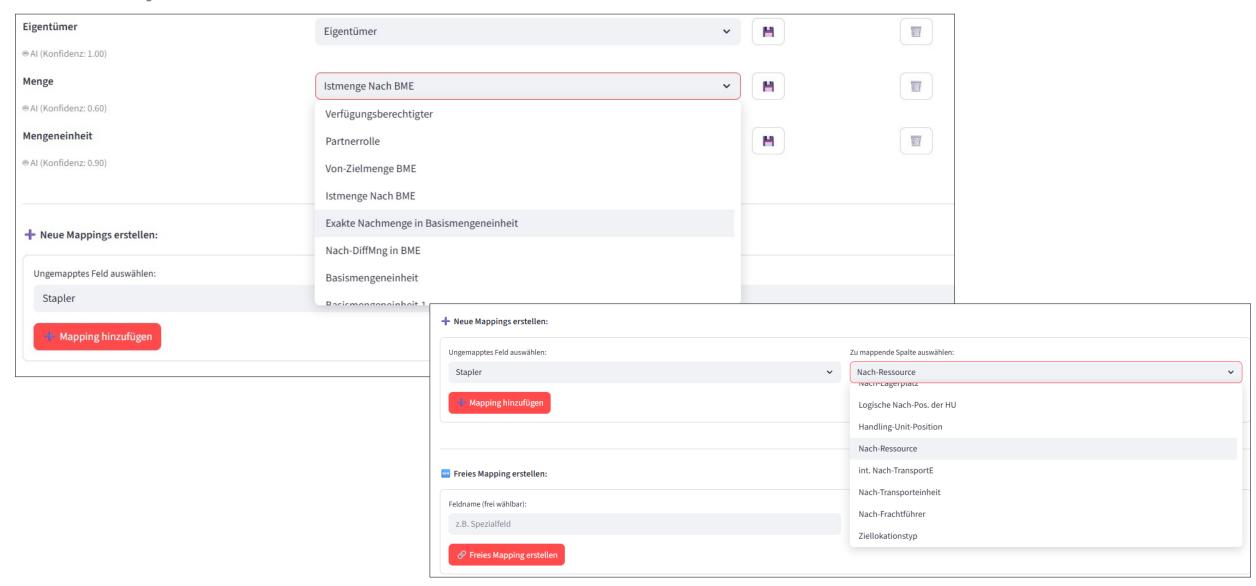


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AI BASED MAPPING OF FIELDS

Manual adjustments

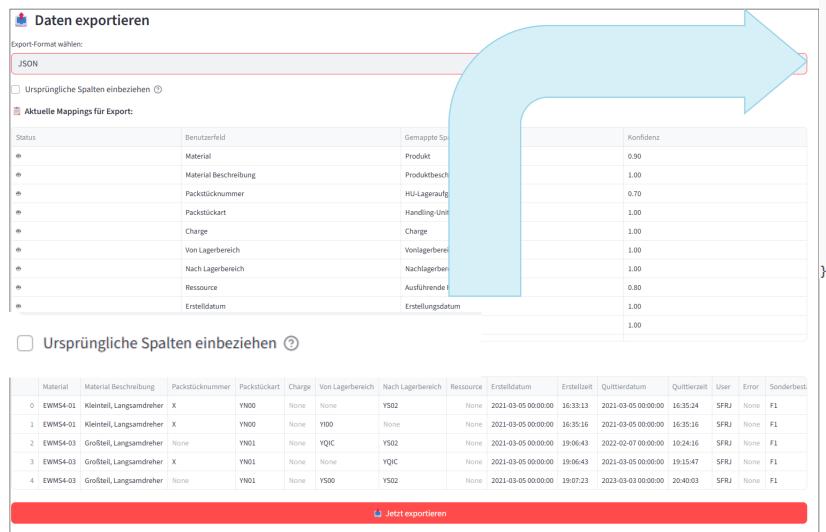


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EXPORT DATA

Export in different formats possible



"Material": "EWMS4-01", "Material Beschreibung": "Kleinteil, Langsamdreher", "Packstücknummer": "X", "Packstückart": "YN00", "Charge":null, "Von Lagerbereich":null, "Nach Lagerbereich": "YS02", "Ressource":null, "Erstelldatum":1614902400000, "Erstellzeit": "16:33:13", "Quittierdatum":1614902400000, "Quittierzeit": "16:35:24", "User": "SFRJ", "Error":null, "Sonderbestand": "F1", "Eigentümer": "BP1010", "Menge":6.0, "Mengeneinheit": "ST" "Stapler": "null"

SUMMARY

Al used for mapping of data structures

- European Data Act may foster the exchange of data or data provisioning to data platforms.
- Warehouse management processes are very similar across industries.
- Automation or warehouse management data may be distributed using different techniques and content.
- Al generated interface mapping can reduce the effort of building interface structures.
- Al will still be controlled by experts.

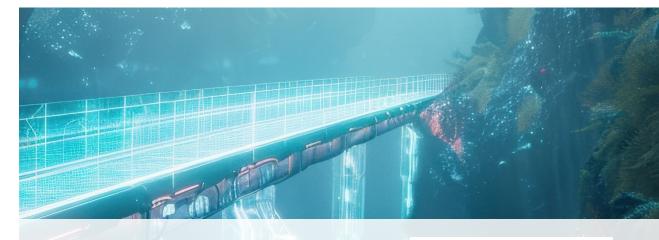


VIELEN DANK FÜR IHRE AUFMERKSAMKEIT!

Besuchen Sie uns am Stand B3 in Halle 1.







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