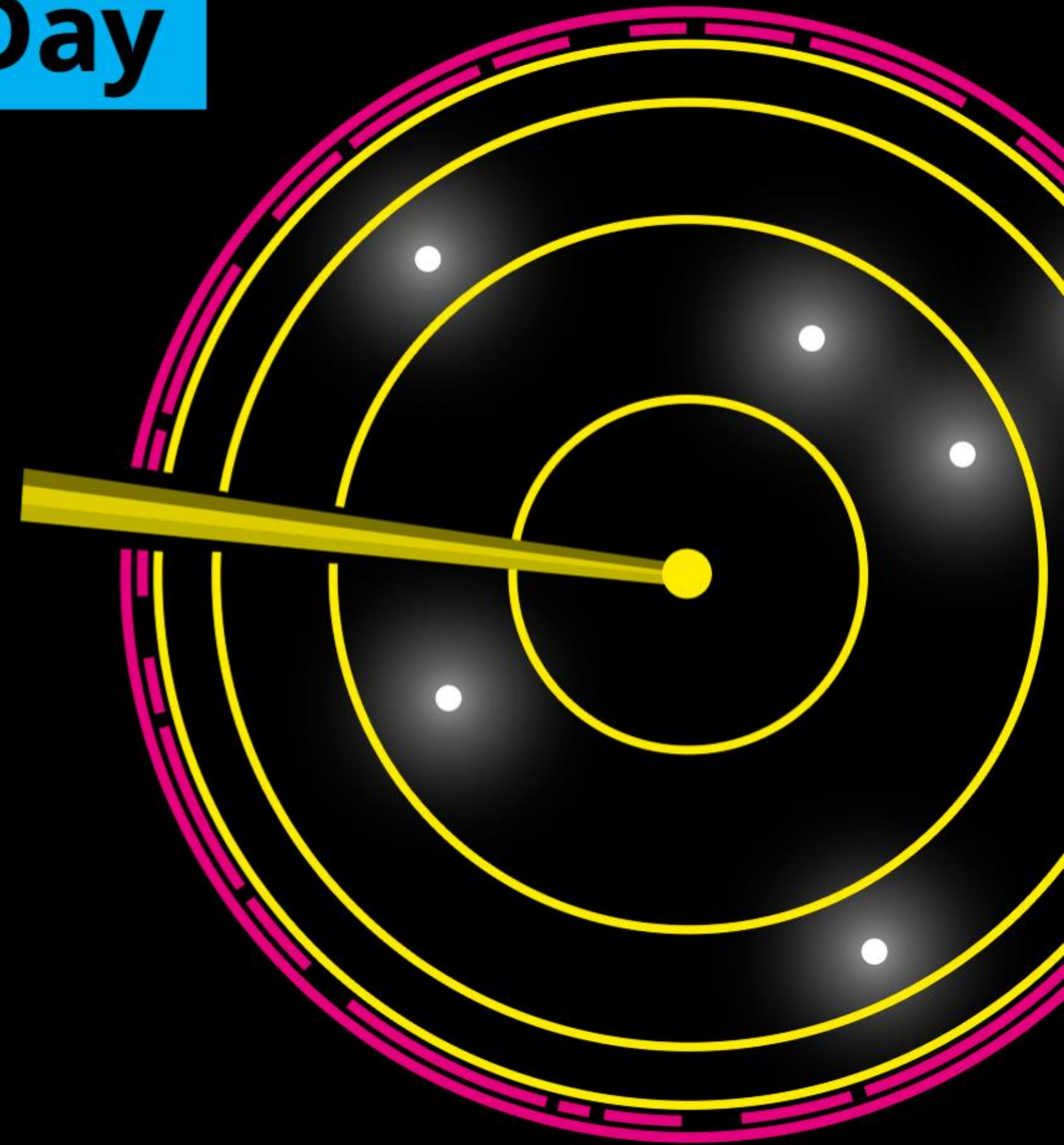


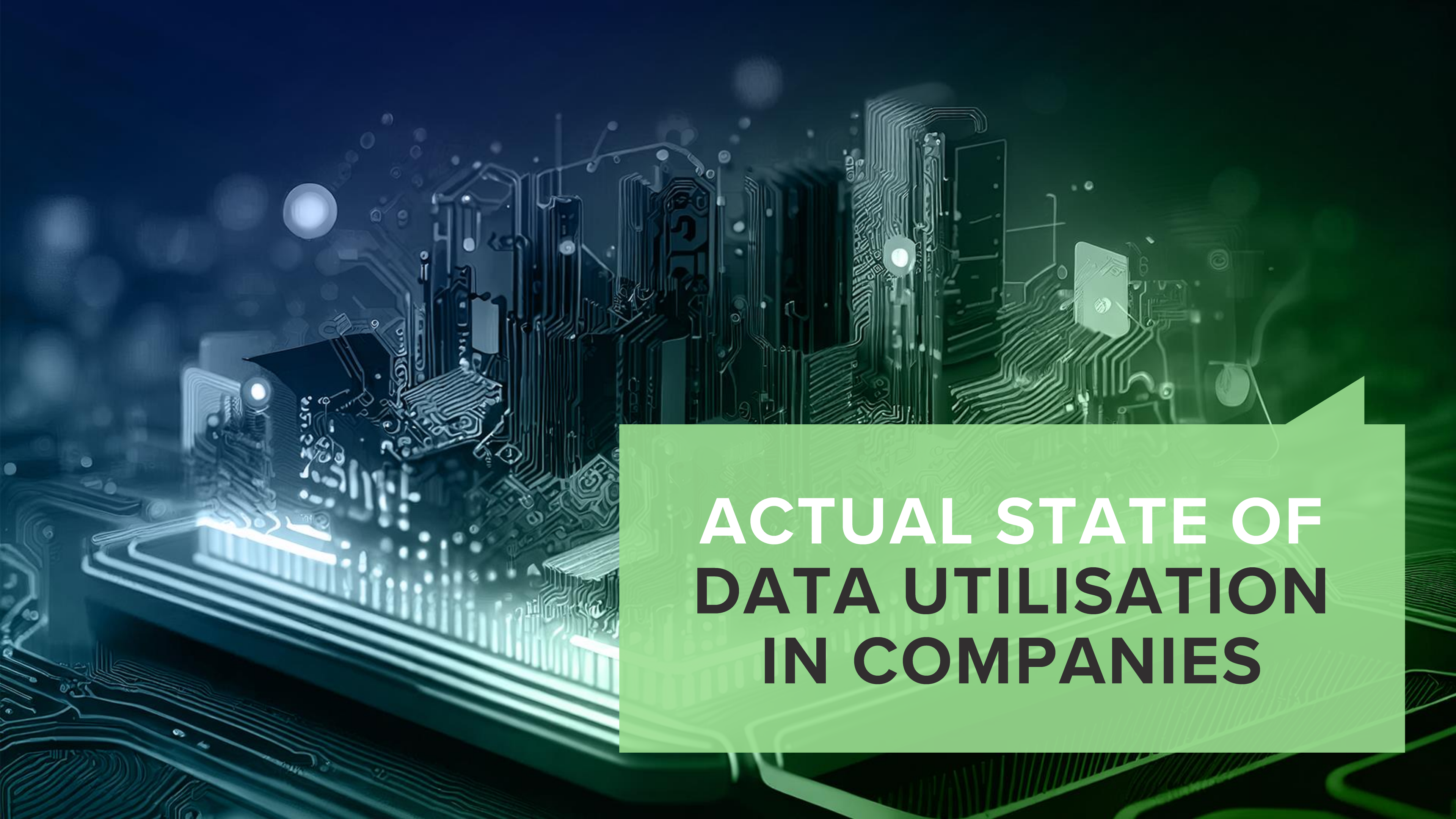
Data Spaces Discovery Day

October 19, 2023 | Vienna

dataSChare –
Data Spaces for Supply Chains

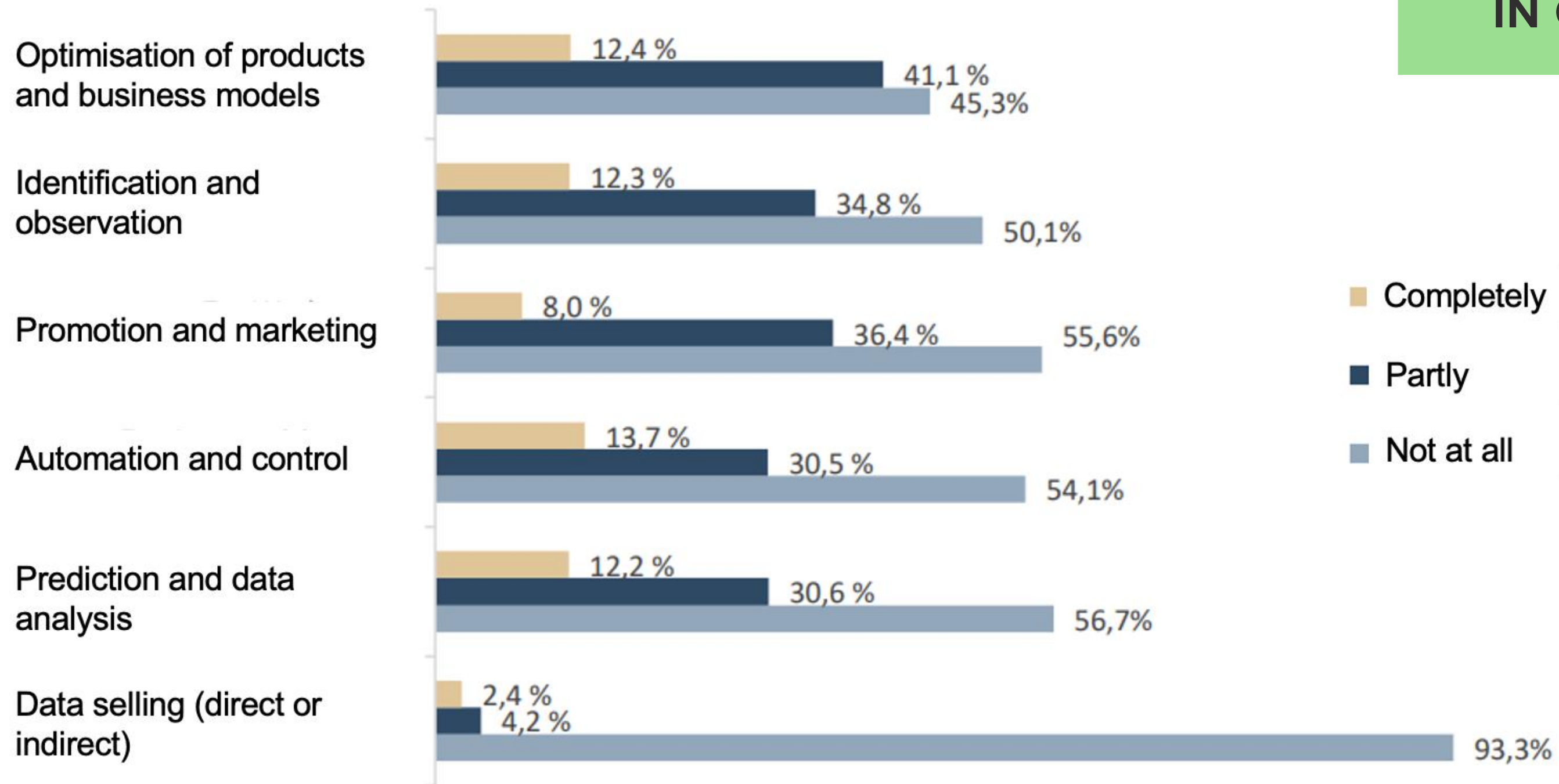
Dr. Angela Fessler
Know-Center



The background of the image is a complex, glowing digital landscape. It features a dense network of circuitry, data lines, and glowing nodes in shades of green and blue. The perspective is from a low angle, looking up at a series of vertical, glowing structures that resemble server racks or data centers. The overall atmosphere is high-tech and futuristic.

ACTUAL STATE OF DATA UTILISATION IN COMPANIES

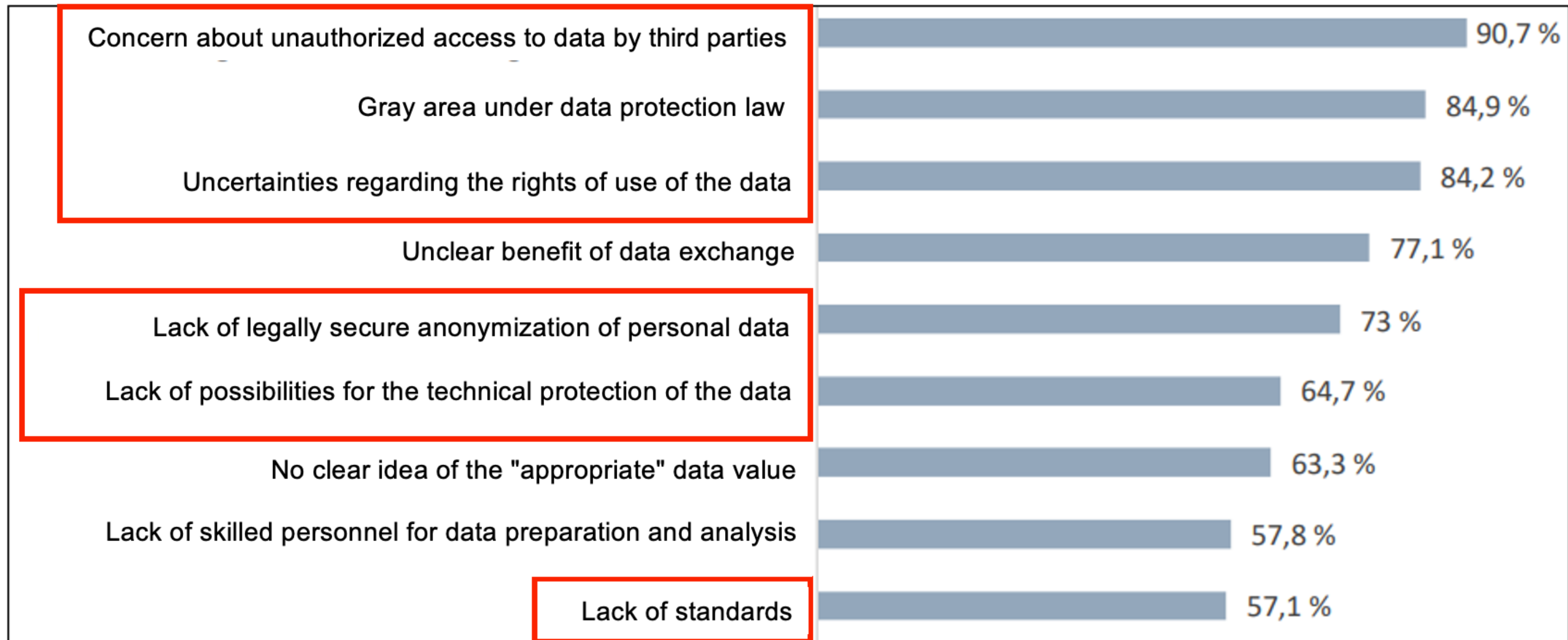
ACTUAL STATE OF DATA UTILISATION IN COMPANIES





BARRIERS TO INCREASED ECONOMIC USE OF DATA

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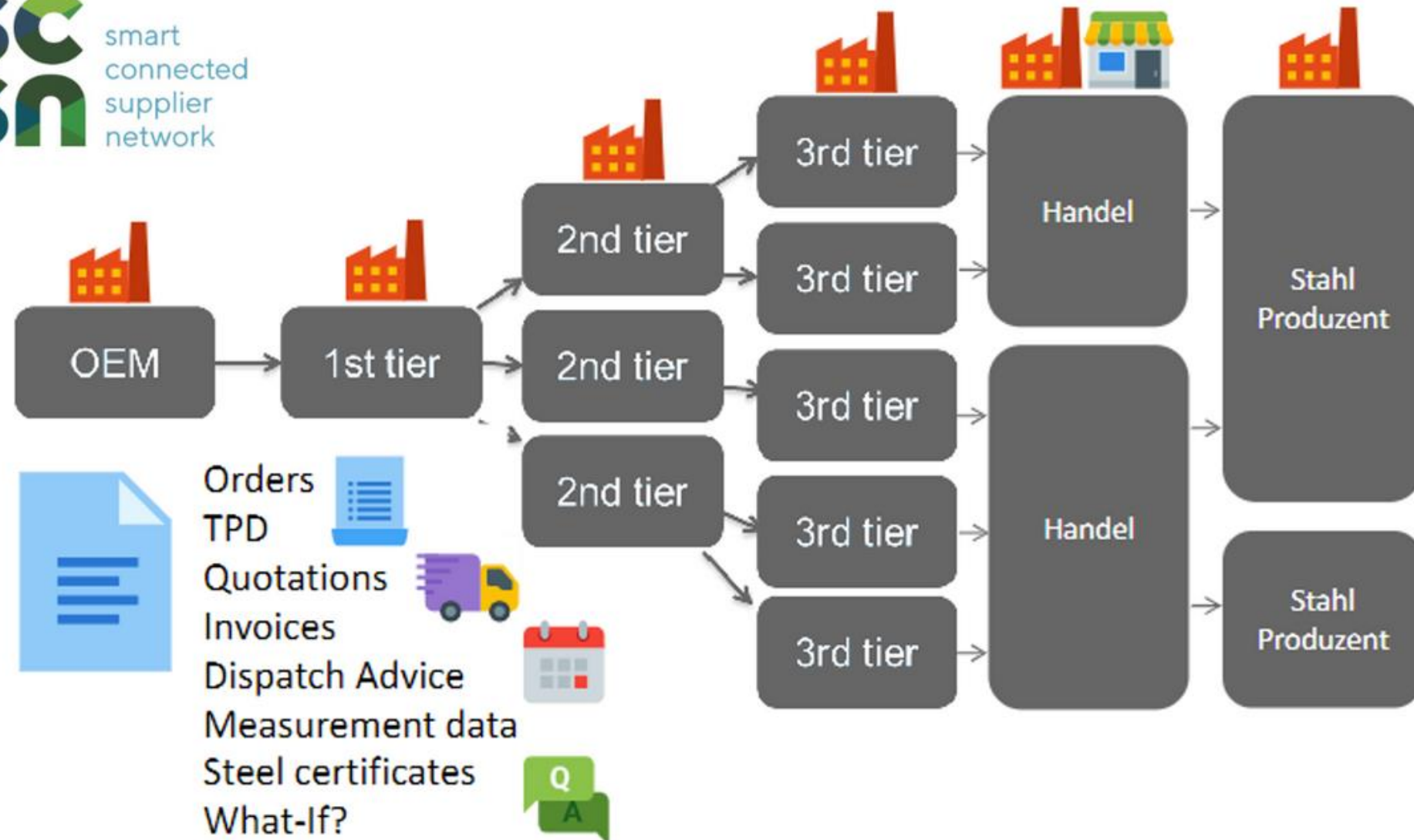


Possible Solution: Utilisation of Data Spaces !!

The background is a complex, glowing digital landscape. It features a series of vertical, glowing green structures that resemble circuit boards or data towers, set against a dark blue and green background. The scene is filled with intricate patterns of light and shadow, suggesting a high-tech, data-driven environment. The overall aesthetic is clean, modern, and futuristic.

**USING DATA SPACES FOR
SHARING DATA ALONG
THE SC IS NOT A THING OF
THE FUTURE, IT IS REALITY**

USING DATA SPACES FOR SHARING DATA ALONG THE SC IS NOT A THING OF THE FUTURE, IT IS REALITY



- Manuelles Übertragen von Informationen in ERP-Systeme und Webportale
- Verwaltungsaufwand (20, 50, 100)
- Fehleranfällig
- Suboptimale Lieferkette



**WHAT IS THE
SECRET OF
THE SCSN?**

WHAT IS THE SECRET OF THE SCSN?

SCSN AMBITION

Connect once, communicate
with the entire supply chain



**COMPANIES IN
CONTROL!**
Each company
decides for itself
which data it wants
to share and with
whom it wants to
share.

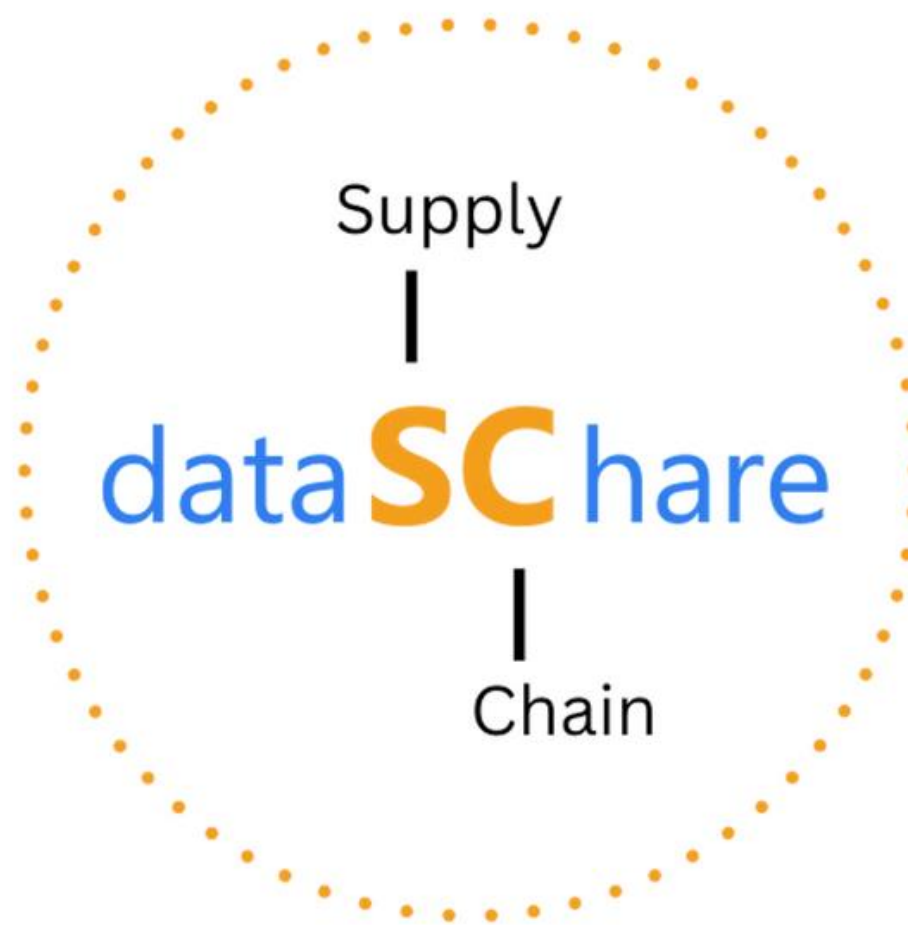
SCSN is a data standard that makes the exchange of information in the supply chain more efficient, allowing companies to share data more easily, quickly and reliably.

Result: 20% higher productivity in the supply chain through fast, secure and interoperable exchange of information between companies.



**HOW TO
TRANSFER
THE SCSN TO
AUSTRIA ?**

HOW TO TRANSFER THE SCSN TO AUSTRIA ?



FFG IKT Research Project „dataSChare“

FH OÖ - Logistikum/ Know-Center/ DIO

Development of a concept for the implementation of a Supply Chain Data Space

- Cross-organisational data exchange is essential for supply chain challenges
- Data Spaces enable sovereign data exchange

Goal: Identify and concretize SC use cases that are relevant to industrial data spaces. Based on these UC, a concept for a supply chain data space is derived.

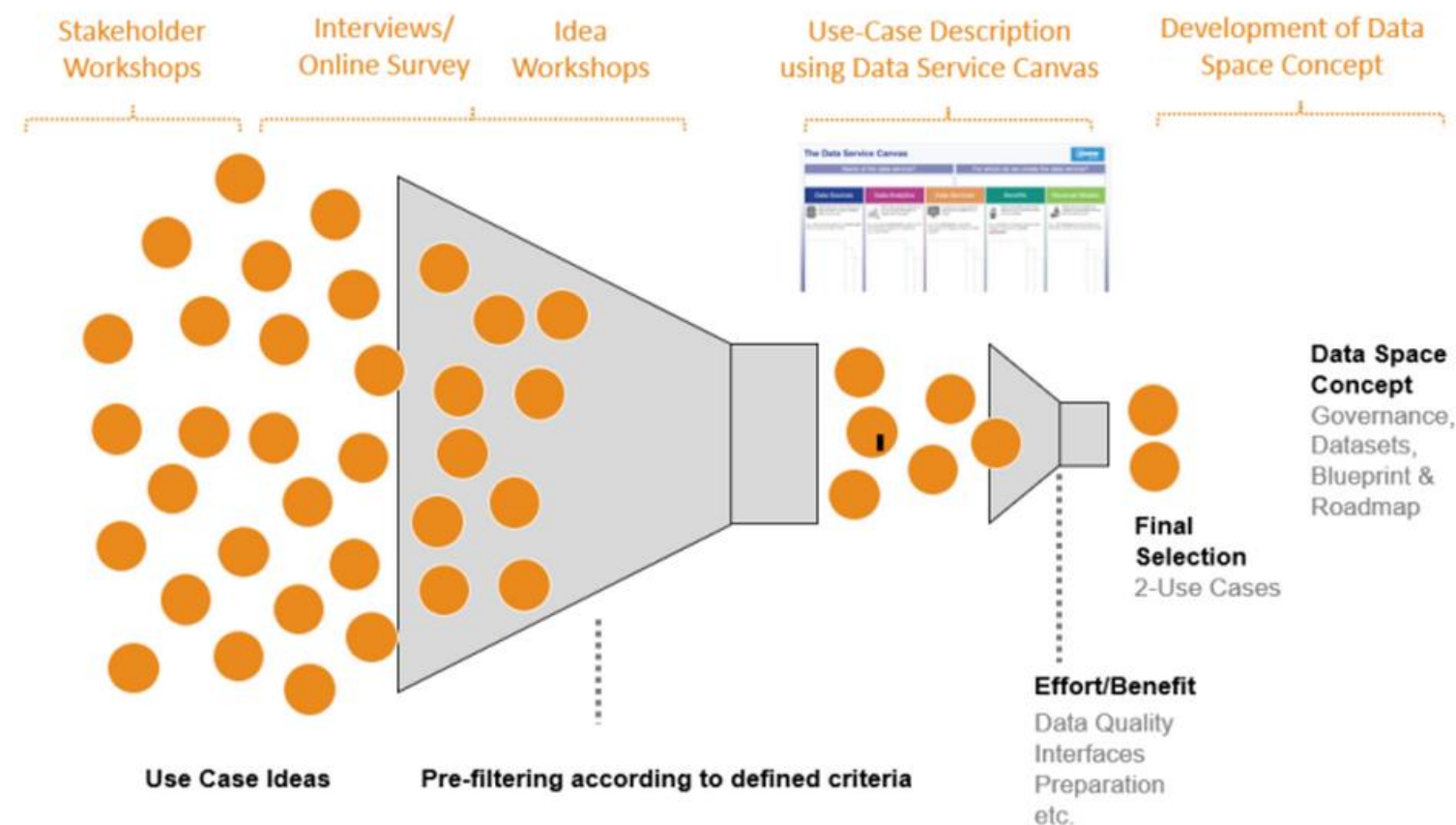
- Subsequent provision of the project results to the public

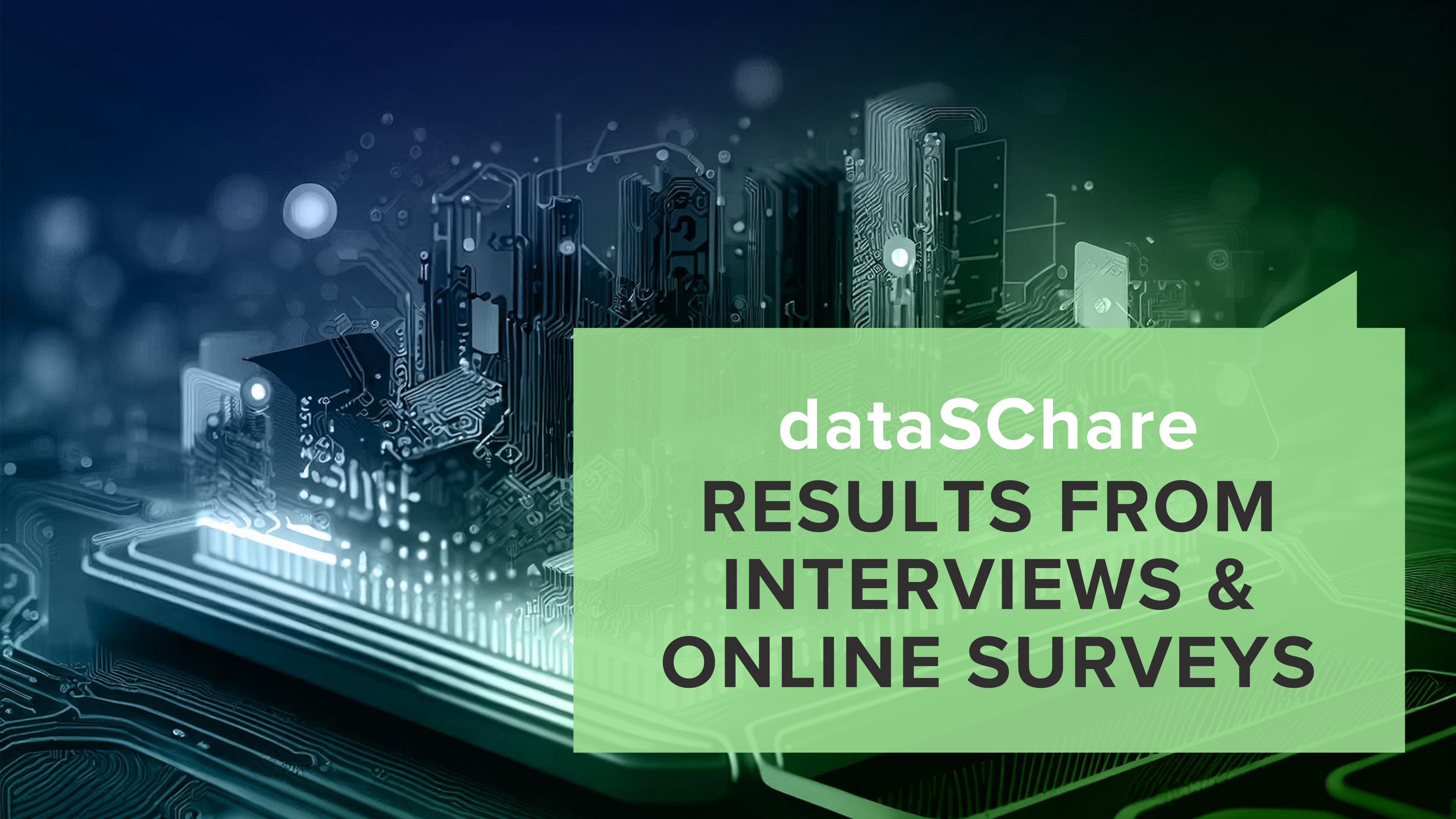


dataSChare
PROJECT ACTIVITIES

dataSChare PROJECT ACTIVITIES

- Literature review including identification of relevant supply chain domain topics and stakeholders
- Online questionnaire for the concretisation of the topics
- Workshops on Use Case Ideation & Stakeholder Needs
- Interviews & online questionnaire for selection of the use cases
- Creation of the blueprint for the development of the CS Data Space



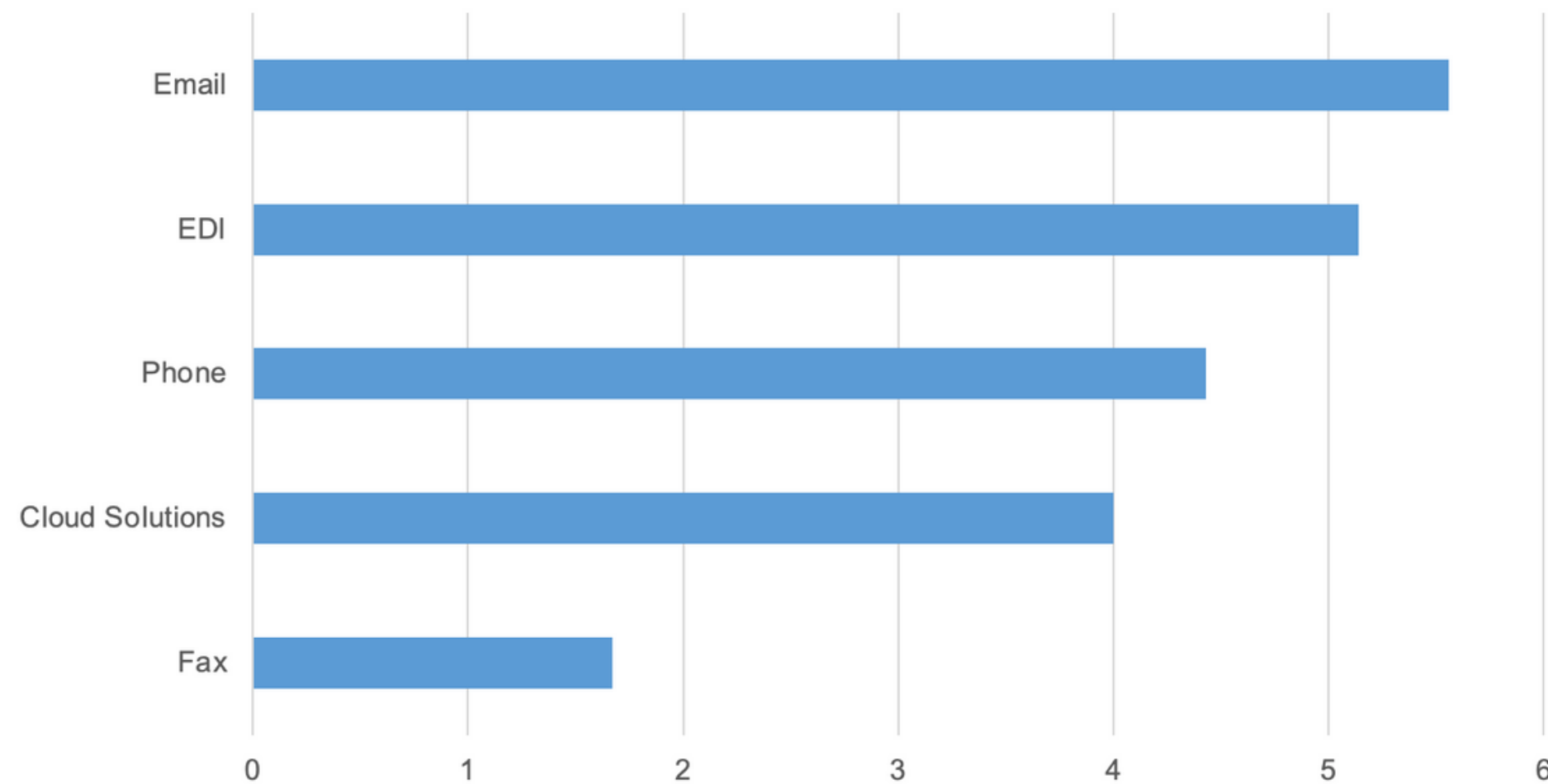


dataSChare
RESULTS FROM
INTERVIEWS &
ONLINE SURVEYS

dataSChare
RESULTS FROM
INTERVIEWS &
ONLINE SURVEYS

Which media are currently used to exchange data with supply chain partners?

Ranking of the proposed options according to frequency of use in the company, (N=17)



dataSChare
RESULTS FROM
INTERVIEWS &
ONLINE SURVEYS

Barriers to the use of Data Spaces

- Basic technical requirements in the supply chains were critically questioned ("Is my partner even able to do this?")
- Low availability of resources
- Uncertainty due to the novelty of the topic
- Participation of supply chain partners questionable
- Lack of trust internally as well as externally

dataSChare
RESULTS FROM
INTERVIEWS &
ONLINE SURVEYS

Requirements for the use of Data Spaces

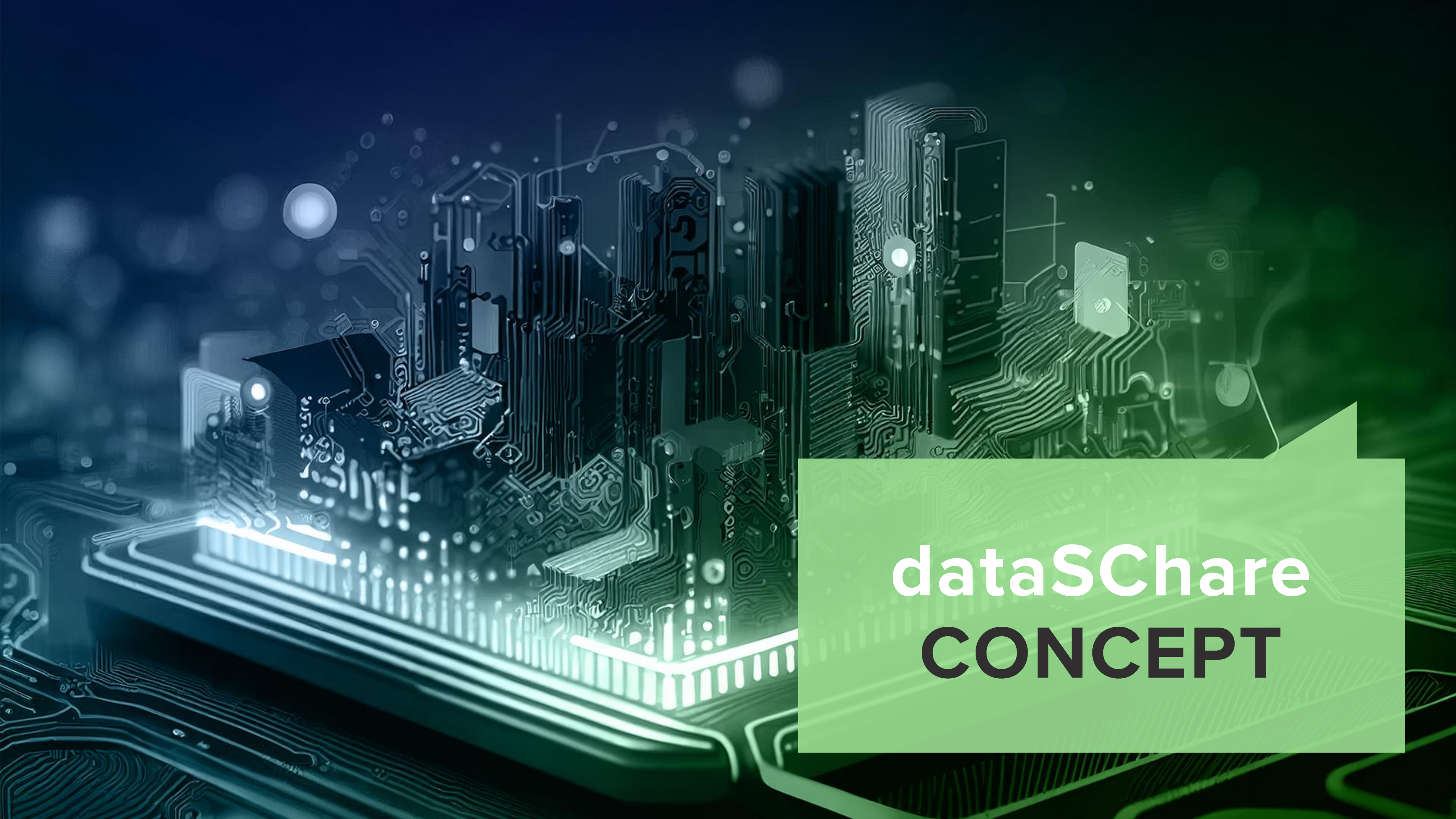
Technical Requirements	Organisational Requirements	Legal Requirements
<ul style="list-style-type: none">• Encrypted data transmission	<ul style="list-style-type: none">• Transparency about cost and pricing models	<ul style="list-style-type: none">• Data security through legal liabilities
<ul style="list-style-type: none">• Cybersecurity Standards	<ul style="list-style-type: none">• Transparency about data availability	<ul style="list-style-type: none">• Intellectual property agreements for data
<ul style="list-style-type: none">• Usage of international Data Space Standards	<ul style="list-style-type: none">• Standards for assigning values for data	<ul style="list-style-type: none">• Ensuring data sovereignty
<ul style="list-style-type: none">• Usability / UX	<ul style="list-style-type: none">• Trust in the Data Space Partners	<ul style="list-style-type: none">• Liability agreements



dataSChare
USE-CASE EXAMPLE

dataSChare USE-CASE EXAMPLE

	C-Supplier without standardised data exchange
Problem Statement	<ul style="list-style-type: none"> • No standardized data exchange along the SC, especially for C-suppliers • Complex and unstructured exchange by post, e-mail, platforms, etc., etc. → Variety of systems • Up to now only bilateral data exchange - no integration of intermediaries
Objectives	<ul style="list-style-type: none"> • Simplification of the order process and data exchange with C-suppliers → make the process more sustainable and efficient → Standardisation
Value	<ul style="list-style-type: none"> • Automation of the currently still largely manual ordering processes with C-suppliers. • Automation with low setup costs compared to e.g. EDI connections. • Secure trusted data exchange platform that enables seamless interaction between all business partners along the supply chain. • Easy access to the Data Space for small and medium-sized enterprises (SMEs)
Stakeholder	<ul style="list-style-type: none"> • Partner company (customer or supplier) • DS-Operator/Host (etc. ERP or EDI supplier) • DS or IT-Provider (e.g. implementation of connectors to the existing ERP system)



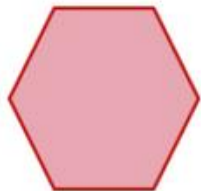
dataSChare
CONCEPT

dataSChare CONCEPT



Data Space Service Provider

- Digital platforms connected by seamless agreements.
- Independent "address book" to search for the destination of the information/data.
- Offers selection opportunities from many data providers with different data



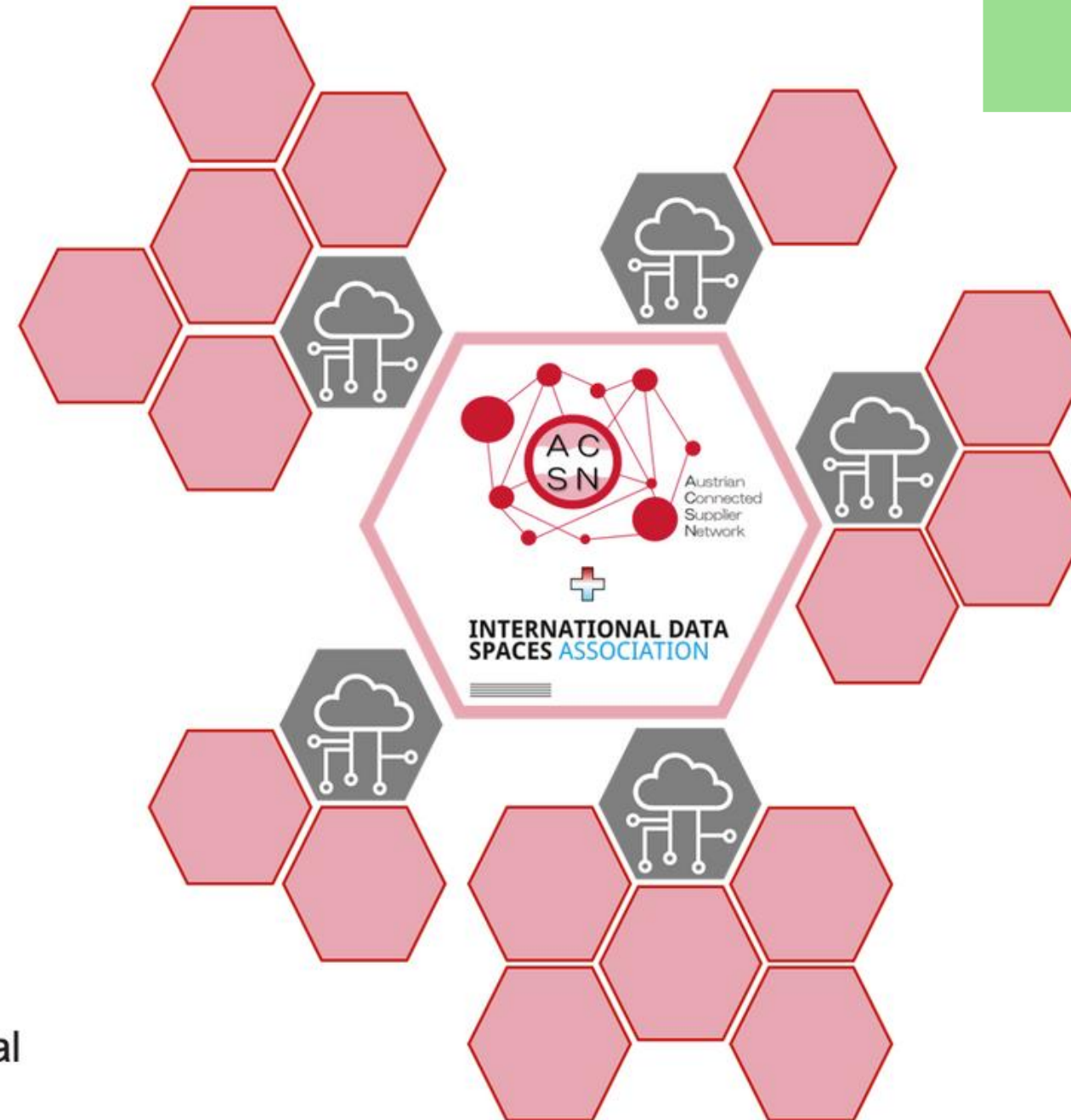
Company / Supply Chain Partner

- Connect only once the own ERP-system with the help of standardised connectors
- Be only once added to the ACSN address book



Data Space Operator

- Continuous management, maintenance and improvement of ACSN standards.
- Coordination and management of the technical infrastructure, including address book
- Representing the interests of all ACSN members



Source: <https://smart-connected.nl/de/uber-scsn/funktionsweise>



TAKE AWAYS

TAKE AWAYS

Data Spaces can contribute to **overcoming barriers** around data sharing

The implementation of a **Data Space** is not "Rocket Science"

An ACSN would make information sharing in the **supply chain more efficient**

An ACSN allows companies (SMEs as well as large industrial companies) to share data more **easily, reliably and securely**



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Join the **dataSChare 2.0** implementation project



CREATING VALUE FROM DATA



ANGELA FESSL

AFESSL@KNOW-CENTER.AT

THANK YOU

