# Data Spaces Symposium

9:00

Data spaces making logistics more efficient, supply chains more resilient

Domain session [automotive | logistics | supply chains]

# Data Spaces Symposium

Data spaces making logistics more efficient, supply chains more resilient

**Ute Burkhardt** 

#### Introduction of the speaker



**Ute Burkhardt** Orchestrating Data Spaces | Catena-





#### **Ute Burkhardt**

Fraunhofer Institute for Software and Systems Engineering ISST

IDSA Executive Board Member iSHARE Supervisory Board Member



https://www.linkedin.com/in/ute-burkhardt/



INTERNATIONAL DATA SPACES ASSOCIATION



# Data Spaces Symposium

Onboarding of an automotive supplier to Catena-X

Sebastian Kleff & Arunav Mishra



Experience with

Data Spaces

since 2016

#### Our Founders



Dr. Sebastian Opriel & Sebastian Kleff

#### Values & Benefits

- Expert support
- Seamless integration
- Data Sovereignty
- Scalable solution
- Plug & Play
- Decentralized
- Interoperable
- Fast business case

#### **Trusted by customers**



**Empowering effortless and** 

trustworthy connectivity



























Only a selection

#### **Involved in numerous Data Spaces**











Best Tech Eclipse Data Space Components
Stack & Tractus-X and open-source





Connector as a Service



Easiest onboarding and participation

Data Space as a Service



**Fastest setup** of entire Data Space

#### Data Space Consulting

**Individual guidance** on use case **architecture** 

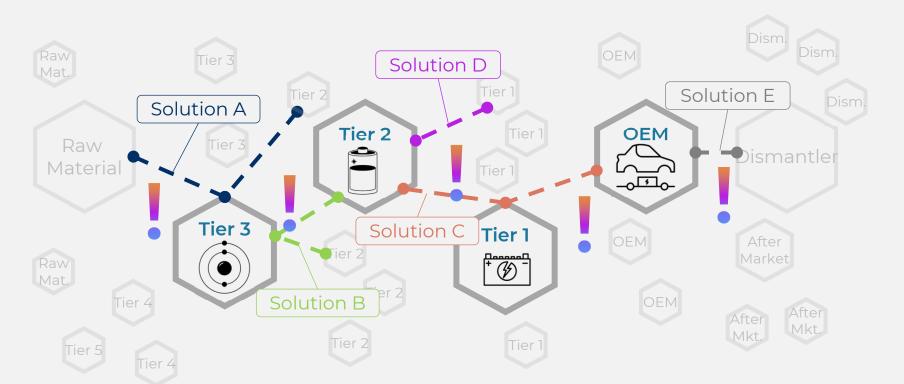
Follow Us



#### **CHALLENGE**

## End-to-end data exchange for battery data mandatory

#### Regulations | market pressure | required process improvements





We create chemistry

Traceability of battery parts incl. product passport is fundamental!



#### **DATA SPACES**

## Exchange data based on standards

#### **Standardized**

common basis for data ecosystems by standards from data formats over protocols

#### Decentralized

Peer-to-peer network to keep data stored on data owner's side





#### Scalable

Based on open-source software to connect various sources, apps & partners



To establish end-to-end connectivity for all Automotive use cases



#### **REQUIREMENTS**

Data Spaces as one new key requirement for BASF

#### **Software**

Mandatory to use relevant software components

#### **Open-source**

Fast moving developments and community

#### Skill

New skills and knowledge in tech and cloud required

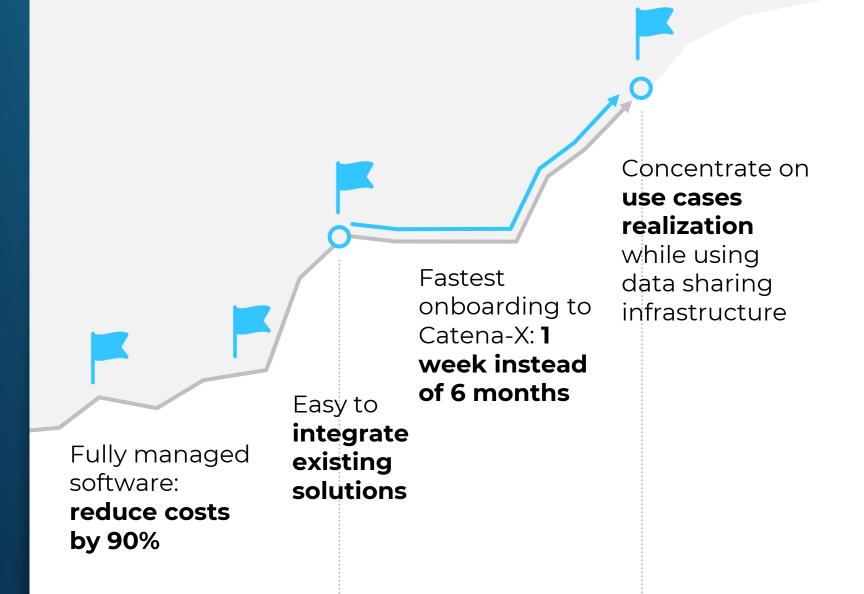
#### Value creation

Complementing BASF infrastructure and business



#### SUCCESS

Data Space enablement for fastest value creation





#### **VALUE CREATION**

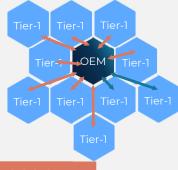
# Generate Flywheel of thousands participants with unlimited use cases

This is made possible with a new product **CONXIFY** 



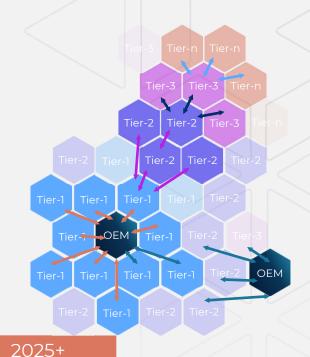
Summer 2024

Realize first business case in PoC



Q4-2024+

Horizontal scaling for first use case



Vertical scaling along entire network with multiple use cases





## Seamless application connection across the value chain

Solution offering – Gateway to ecosystems with a snowball effect

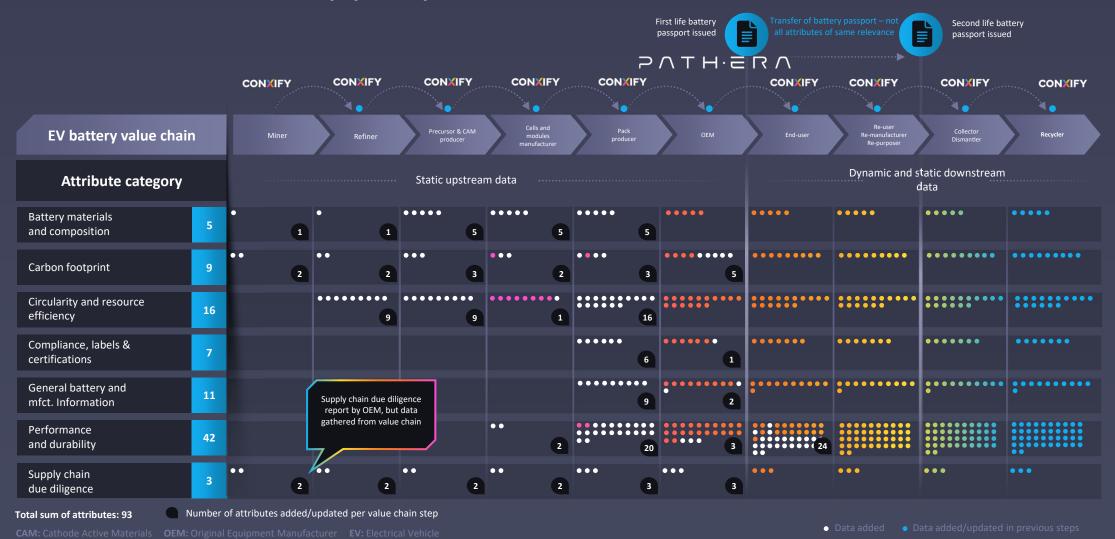




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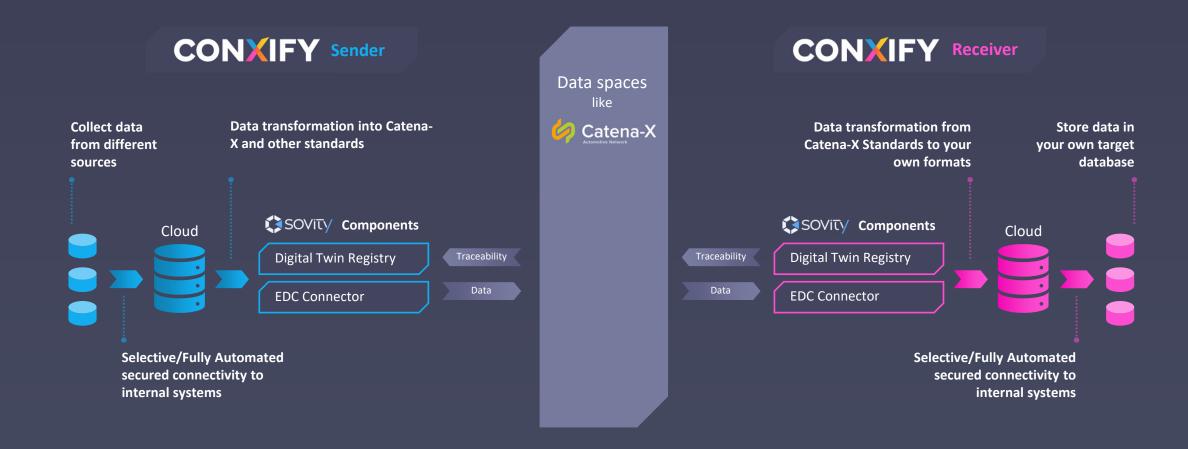
# Every EV battery value chain player will be required to provide data attributes to battery passports



DATA SPACE SOLUTIONS



# ConXify: Out-of-the-Box Decentralized Components with Catena-X Services for Instant Start-up!





A subsidiary of BASF SE

15 years of IT experience and own IP in Data Space Connectivity

Located in Mannheim, Germany

Services beyond connecting Data Spaces, comprehensive supply chain connectivity

International/Global R&D Team

Offering tailormade solutions

"enhancing digital capabilities with seamless connectivity"

# Let us scale Data Spaces, together!

**Sebastian Kleff** 

CEO & Co-Founder

Sebastian.Kleff@sovity.de

www.sovity.de github.com/sovity

**Arunav Mishra** 

CEO & MD

<u>Arunav.Mishra@dataspacesolutions.com</u>

www.conxify.de, www.dataspacesolutions.com







# Data Spaces Symposium

Increasing productivity in automotive supply chains

Sven Löffler

# Data Spaces Symposium

Sven Löffler



Let's stay in contact!





















**T** Systems

Director, Dataspaces & Data Products

INTERNATIONAL DATA SPACES ASSOCIATION

IDSA Ambassador



Steering Committee member at Eclipse Dataspace Working Group (EDWG)



Steering Council member, Manufacturing (M-X)



Steering member Gaia-X Federated Services for Clearing House Providers



Project lead T-Systems & Business Owner (C-X Consortia phase 1 for IAM, portal, dataspace components)

#### Expertise fields

+25 years of experience in the field of Data, AI, Dataspaces & Data Products

Worked previously for Cognos, IBM & Deutsche Telekom











## **Telekom Data Intelligence Hub**

dih.telekom.com









**T** Systems

## Real use cases and benefits for digital ecosystems



No market player, neither OEM nor supplier can solve these problems on their own

**T** Systems

# Success stories & references

"As a clearing house for Gaia-X and Catena-X, T-Systems is one of the first clearing houses available on the market, not only for Catena-X, but also for other partners. We found the right partner to give the right people in the dataspace to credit - who you are, are you rightfully or wrongfully in there - and to make sure that we are Gaia-X compliant."



Oliver Ganser, Chief Executive Officer "Catena-X Association and Industry Consortium"



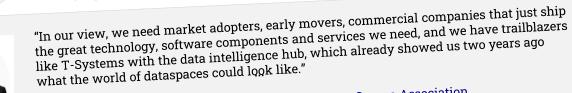
"The integrity of dataspaces is built on verified company identities. T-Systems, Gaia-X compliant clearing house is a key pillar during the onboarding of new members into the Catena-X dataspace, and an important partner for us in building a trusted data ecosystem"

Thomas Rösch - Chief Executive Officer, Cofinity-X

"Market players like T-Systems are playing an important role in making dataspaces a reality, operating digital clearing houses according to the specification of Gaia-X. With this we are creating a global standard for dataspaces in different domains, starting with flagship domains like the automotive."



Ulrich Ahle, Chief Executive Officer - Gaia-X European Association for Data and Cloud AISBL

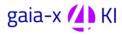


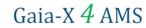
Lars Nagel, Chief Executive Officer, International Data Spaces Association

































































## T-Systems certified full-service provider for Catena-X



Expert Consulting for Catena-X Onboarding, Workshops Tailored for All Company Sizes



Registration with Catena-X/Cofinity-X

Registration in less than 72 hours to obtain a Business Partner Number. Single Sign-On access across multiple Dataspaces



Integration with Catena-X

Seamless data exchange across the entire automotive network with a multi-certified Connect & Integrate solution. One connector for all use cases. In the cloud of your choice



Catena-X Sandbox Provider

Certified Catena-X Sandbox Environment for secure testing and app development



Support for customers in using and integrating the Dataspace OS Nova solution









Partnership with





## Catena-X onboarding support by T-Systems

#### **Consulting:**

- Consulting across the entire Catena-X Portfolio
- Support throughout the onboarding process, from benefit analysis and registration with Cofinity-X to the first productive integration and beyond
- Assistance in Selecting Use Cases and Performing the Necessary
   Steps for Timely Onboarding
- Selection of the right Connector Solution
- Explanation of Security Measures and protocols implemented to protect data within the Catena-X Ecosystem and additionally in our Solutions

#### Integration:

- Our dedicated expert team will guide you through the Registration Process and provide Comprehensive Support before, during, and after the go-live phase.
- Support in obtaining the Cofinity-X Business Partner Number
- Setting up your Catena-X integration for seamless data transfer with a unified connector solution

#### **Operationalization & Scaling:**

- We continuously maintain and develop your solution
- We assist you in Scaling effortlessly to other Use Cases with the Connector Solution
- Global 24/7 Support

Step-by-step support by an onboarding expert team for a successful Catena-X integration



## Flex | Product Carbon Footprint (PCF) in Catena-X



Building on our more than 50-year history with a clear purpose, mission, and vision, Flex is the advanced end-to-end manufacturing partner of choice, helping market-leading brands across a diverse set of industries design, build, deliver, and manage products that improve the world.

Through the collective strength of a global workforce across 30 countries, and responsible, sustainable operations, Flex supports their customers' entire product lifecycles with leading design and engineering, supply chain, manufacturing, post-production and post-sale capabilities in every major region.



#### Challenges

- Participate in an automotive OEM-led data chain to track primary CO2 emissions for accurate Product Carbon Footprint (PCF) tracking
- Ensure full compliance with Catena-X technology and standards for seamless interoperability
- Enable potential reuse of the solution in other use cases, such as the battery passport.



#### Solution

- Consulting services for knowledge transfer and solution design
- Implementation of Catena-X-certified "Connect & Integrate" for dataspace connectivity
- Deployment of Catena-X-certified PCF
   Exchange App for seamless interoperability in PCF data chains
- Migration to the first Catena-X operating environment provided by Cofinity-X



#### **Benefits**

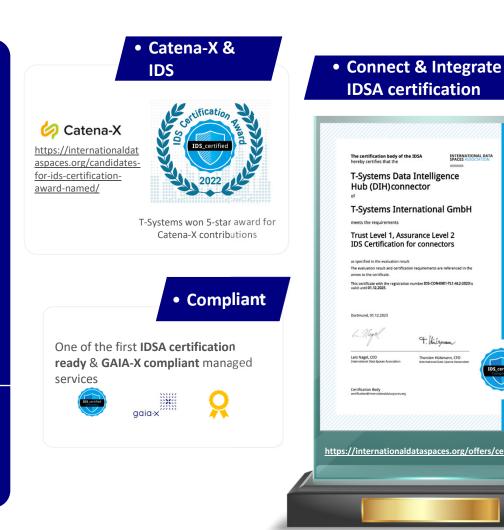
- Achieved quick results without the need for complex systems integration
- Delivered on time and within budget, with a live demonstration at the 2024 IMDS-AIAG conference
- Built a scalable foundation for adding more PCF components and expanding to new use cases like the battery passport.



## T-Systems: Verified and certified by external auditors

- Product quality and data security are a matter of trust, which is why T-Systems places the highest value on certified data protection and data security.
- Our automotive locations and cloud data centers are ISO and TISAX certified.
- Depending on the composition of the project teams, employees hold the necessary certifications, such as Scrum Master, AWS, Azure, etc.

We are the number 1 among the certified, trusted partners in the automotive, cloud, and dataspace industries.



Germany

Darmstadt

Dresden

Frankfurt/Main

Ingolstadt

Köln

P

Ca

te

Automotive

Leinfelden-Echterdingen

Magdeburg

München

Wolfsburg

#### International

Cerdanyola del Valles/Spain

Debrecen/Hungary

Košice/Slovakia

Moscow/Russian Federation

Pécs/Hungary

Pune/India

Quinta do Anjo Palmela/Portugal

Reus/Spain

Saint – Petersburg/Russian Federation

Sao Bernardo do Campo'/Brazil

Szeged/Hungary

Voronezh/Russian Federation

• TISAX

## Why T-Systems? Your one-stop shop for dataspaces







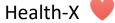


#### WE SUPPORT YOU THROUGH YOUR WHOLE DATASPACE JOURNEY!







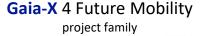






**COMPLETE** | Full-Service Provider: Advisory, Onboarding, Enablement







**CERTIFIED** | T-Systems solutions being compliant to Catena-X standards









**SCALABLE** | Data chain setup for all company sizes: from few to massdata







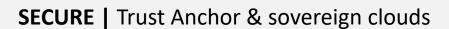


**AGNOSTIC** | Any Use Case. Any Cloud. Any Software Vendor











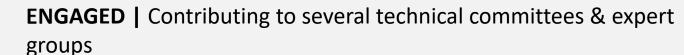




**EFFICIENT** | Low effort with automated processes. User-friendly UIs









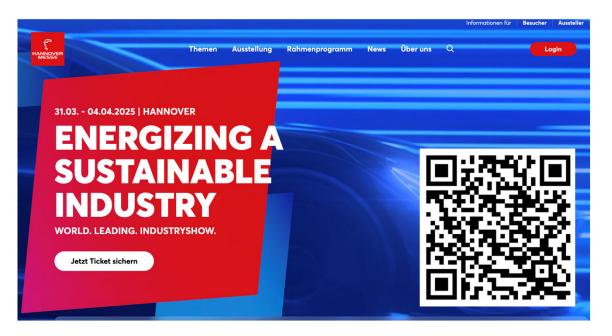


## Join us at Hannover Messe 2025



Lead, Dataspaces and
Data Products
sven.loeffler@t-systems.com





#### **T-Systems activities:**

- 5 booths: VDMA-Umati, Catena-X, Factory-X, RoX, T-Systems metaverse applications ...
- 11 talks: featuring Ford, Flex, DeltaDao, NTT Communications, Cofinity-X, GDSO, Siemens, Gaia-X ...
- Topics: Dataspaces across industries (Manufacturing, Automotive, Robotics...), AI readiness, Federated identities, supply chain transparency ... and much more

Contact us to schedule a meeting and get your free ticket!



# Data Spaces Symposium

How Cofinity-X leads the way of industry data exchange

Niklas Midolo

# From Theory to Practice

How Cofinity-X Leads the Way of Industry Data Exchange.

Data Spaces Symposium 2025



Niklas Midolo
Product & Strategy Manager

Cofinity-X











# From Theory to Practice

How Cofinity-X Leads the Way of Industry Data Exchange.

Niklas Midolo

Data Spaces Symposium 2025

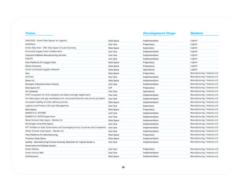
# **Status Quo**

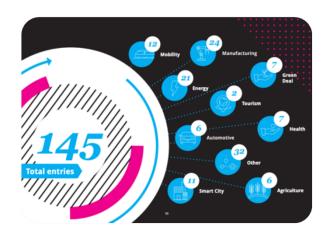
#### of Dataspaces in 2025

## **145+ Dataspace Projects**

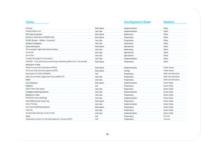
(IDSA The Data Space Radar, March 2024)













#### Gefördert durch:



aufgrund eines Beschlusses des Deutschen Bundestages



~90% of this Dataspace-Projects are still in a Research-Phase\*

\*all Projects below "Operational" Stage

**PUBLIC** 

DATA SPACES SYMPOSIUM 2025

# Lighthouse Project



# Lighthouse Project

**Important Milestones** 



# Dataspace

powered by

Cofinity-X

#### May 2021

Foundation of Catena-X Automotive Network e.V.

#### August 2021

Official foundation of the Catena-X Consortium

#### December 2022

Go-Live of Tractus-X Open-Source Community

#### Oktober 2023

Go-Live of Catena-X Dataspace, powered by Cofinity-X



### **Smooth Operator of Industry Dataspaces**

We are on a mission to bring global industries together and empower sovereign data exchange.

#### Oktober 2023

Go-Live of Catena-X Dataspace, powered by Cofinity-X

Cofinity-X is a Joint Venture founded in January 2023 by 10 Shareholders





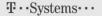






SCHAEFFLER

**SIEMENS** 







Unlock the Power of Dataspaces



Cofinity-X



**PUBLIC** 

DATA SPACES SYMPOSIUM 202

Unlock the Power of Dataspaces

# Focus on your Core Business, while we ensure your Smooth Dataspace Integration.

Cofinity-X provides **access and guidance** to the Catena-X dataspace.

Then we empower you to exploit its full potential for your **long-term success.** 

Cofinity-X PUBLIC DATA SPACES SYMPOSIUM 2025

#### Unlock the Power of Dataspaces

# **Dataspace Lab**

Our Dataspace Lab enables you to develop and validate your initial **Proof-of-Concept (PoC)** for secure data exchange.

Easily integrate supply chain data, share compliance reports, or test new collaboration models in our pre-configured test environment.

**Based on Tractus-X Tech-Stack**, but no mandatory enforcement of Catena-X Standards.

Start your free trial



**Proof-of-Concept:** Immediate access to a fully functional test environment.



**Minimal Setup Time**: Start right away and enjoy a free 30-day trial.



**Support**: Benefit from direct guidance from Dataspace professionals.

Dataspace Lab Onboarding Journey

# 3 Simple Steps into a fully functional Test-Environment



Register your Company Connect

**Proof-of-Concept** for Data Exchange



## **Register** your Company

We will prepare your account and ask you to confirm your company details, such as VAT-ID and address.

A clearing house will validate the data before **we generate your unique Business Partner Number (BPN)**, essential for all activities within the dataspace.

Start your registration



Provide your company data



External **clearing house** validates your data



You receive your BPN and access to the test environment

Cofinity-X

PUBLIC

DATA SPACES SYMPOSIUM 2025



## **Connect** to the Dataspace

Before you can exchange data within the ecosystem, you need to set up your technical environment.

Whether you build or buy, one thing is crucial:

✓ Eclipse Dataspace Components (EDC)

Now that you have access, it's time to get set up for secure data exchange. With Cofinity-X, you get an out-of-the-box **Dataspace OS EDC-Connector** included in your trial subscription to get you up and running quickly and seamlessly.

For those who prefer flexibility, you can also **integrate**your own open-source components or explore
alternative solutions available on the market.

Our team is on hand to guide you through the setup process, ensuring a smooth experience tailored to your needs.

Cofinity-X PUBLIC DATA SPACES SYMPOSIUM 2025



## **Proof-of-Concept**

### Data Exchange

Once your setup is complete, you can **begin exchanging test data** with a Test Company or other Business Partners within the Dataspace ecosystem.

This step allows you to validate secure data exchange, evaluate integration with your systems and explore real-world collaboration scenarios.

#### **Scaling Beyond Proof of Concept**

- ✓ Optimising data workflows to improve automation and efficiency
- Explore advanced security measures for improved compliance
- ✓ Connecting with additional business partners to extend collaboration

With tailored support, you can move seamlessly **from pilot to production-ready data integration**, unlocking new business opportunities and strengthening your data ecosystem.

## **Dataspace Lab**

30-day free trial, then €4,000 per year\*



Get exclusive access to a fully functional Test Environment, based on Tractus-X Tech-Stack.

Dataspace OS connects you seamlessly and provides all essential tools for participation.

Best-in-class Customer Support, delivered by Dataspace Pioneers and Integration Experts.







### Cofinity-X

## Let's connect and start a great journey together.

#### **Niklas Midolo**

Product & Strategy Manager



niklas.midolo@cofinity-x.com



https://www.cofinity-x.com/dataspace-lab

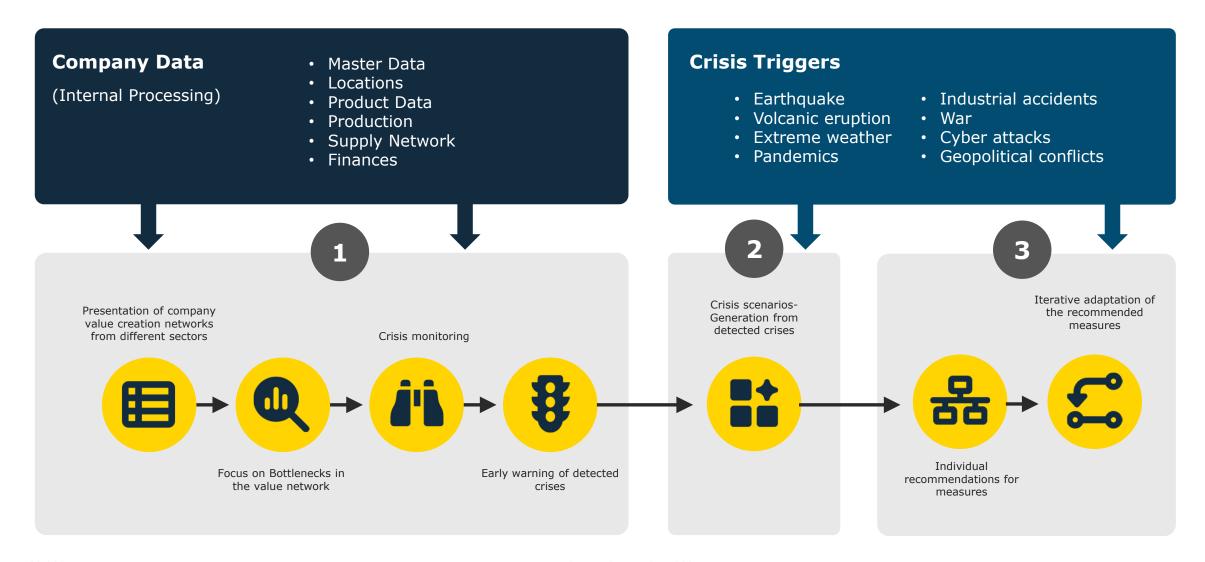
## Data Spaces Symposium

Supply Chain Radar: Efficient and proactive countermeasures to impending crises

Julien Adelberger



#### Use of data for company-specific crisis defense





# Benefits of the SCR for SMEs



Customized "software as a service" solution for crisis management



No own IT infrastructure necessary



**Quick start** 



Use of (sensitive) company data significantly increases the value of early risk detection and rapid action

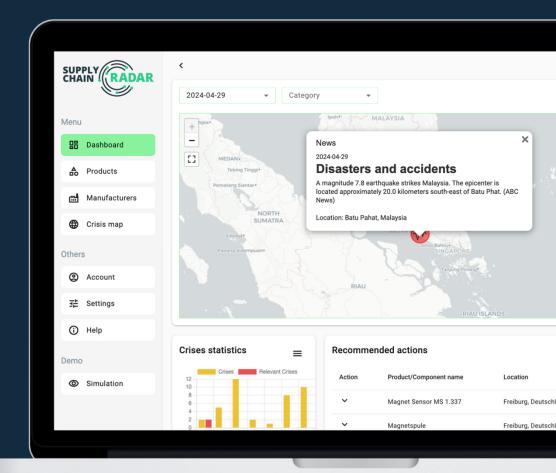


Sensitive data can be used without loss of IP protection and without disclosing business secrets

17.03.2025

### **Use Case Description**

- Forward-looking risk and crisis management in supply chains
- First demonstrator available
- Modularly expandable
- Investigation of contingencies and options
- Continuous Development via German and EU funded research projects ScaleTrust
- Online Demo:bretfeld@advaneo.de



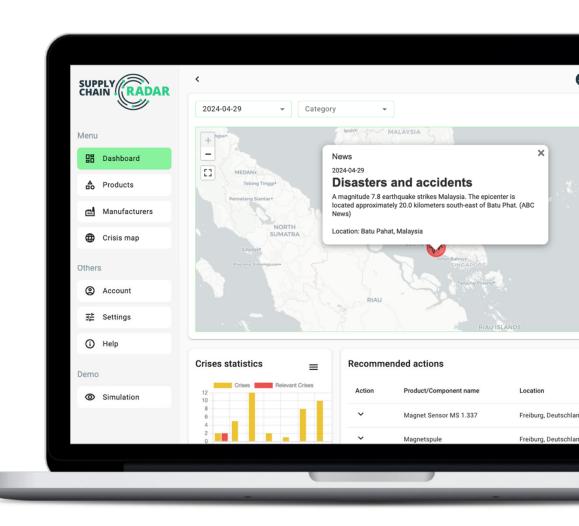


## Overcoming crises, securing competitive advantages - how SMEs benefit from the SCR

The particular need for SMEs is primarily due to the fact that they generally do not have their own risk management team. The SCR fills this gap in an uncomplicated way and enables SMEs to set up an early warning system by giving them access to the SCR "as a service".

#### **Further advantages:**

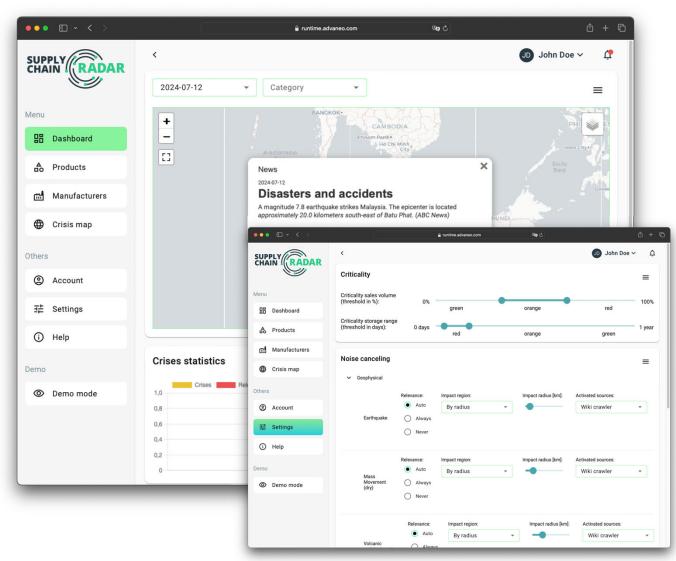
- Creation of transparency for purchasing, controlling and management
- Risks in supply chains can be identified earlier, and alternative courses of action can be initiated more quickly
- Financial or production-related risks and disruptions can be avoided or at least minimized



Modular structure of the individually configurable dashboard

An efficient early warning system for risk assessment and the development of dynamic crisis management

- Separate systems: The SCR consists of a general part (crisis monitoring) and a local part that processes sensitive company data.
- Local data processing: Sensitive data is processed locally on your systems and not transferred to the cloud.
- Secure data exchange: Only necessary geocoordinates are exchanged between the systems.

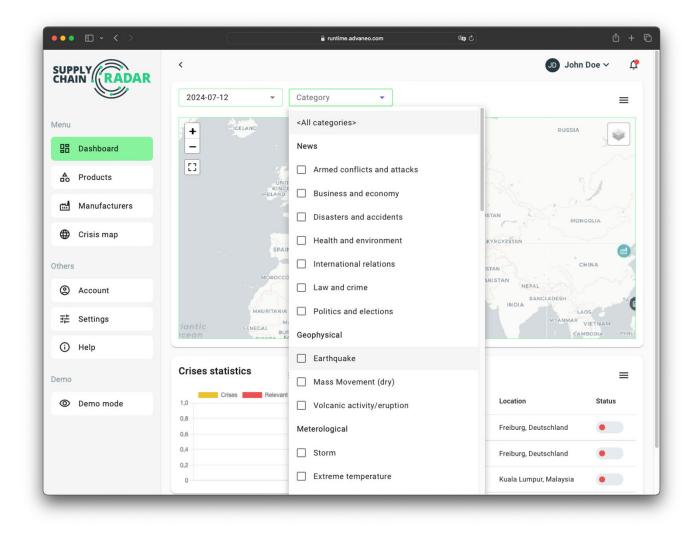


#### **Feature: Global Crisis Radar**

#### **Crisis Radar**

- Worldwide recording of crisis-triggering events in 48 categories
- Holistic overall view
- Modular, individually configurable and quickly expandable
  - Criticality of the traffic light function can be set individually
  - Individually configurable data sources at product and component level
  - Impact calibration of events
  - "pay-per-use" purchase of data and services

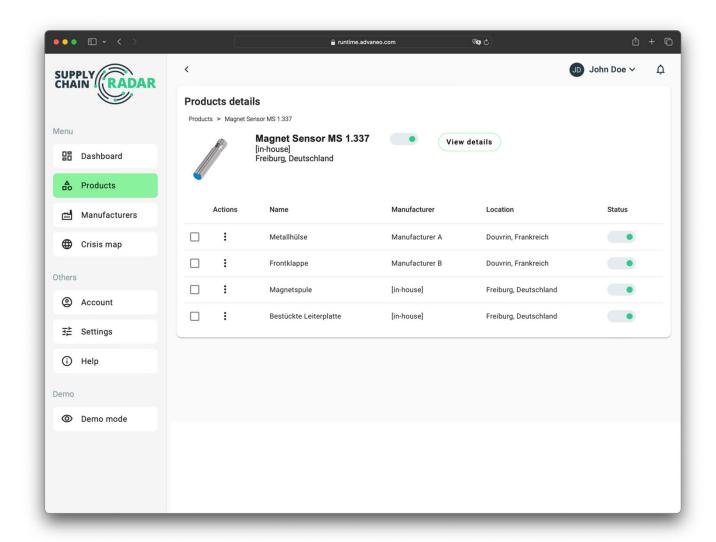




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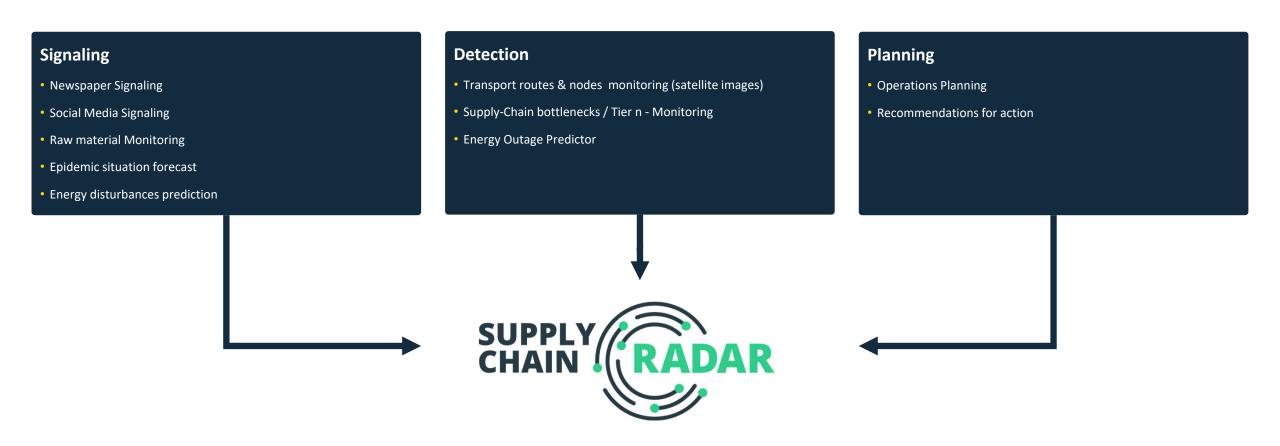
## Feature: Product and component description

- Recording of all (important) products and components
- Recursive recording/display of tier-n components
- Clear overview of location information, status and separation of inhouse or external suppliers for specific product entries



### **Outlook: Al-Modules in the Supply Chain Radar**

The AI-based analysis tools are being developed in the PAIRS R&D project and other AI lighthouse projects of the Federal Ministry for Economic Affairs and Climate Protection.



## Thank you for your attention!

If there are questions, please do not hesitate to ask...



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Business Development Manager

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adelberger@advaneo.de



### Jürgen Bretfeld CEO

**T** +49 (0) 211 87 66 91- 0 **M** +49 (0) 178 8 32 09 65

bretfeld@advaneo.de

## **NDVNNEO**

Access to the world of data

#### **ADVANEO GmbH**

Neuer Zollhof 2 40221 Düsseldorf

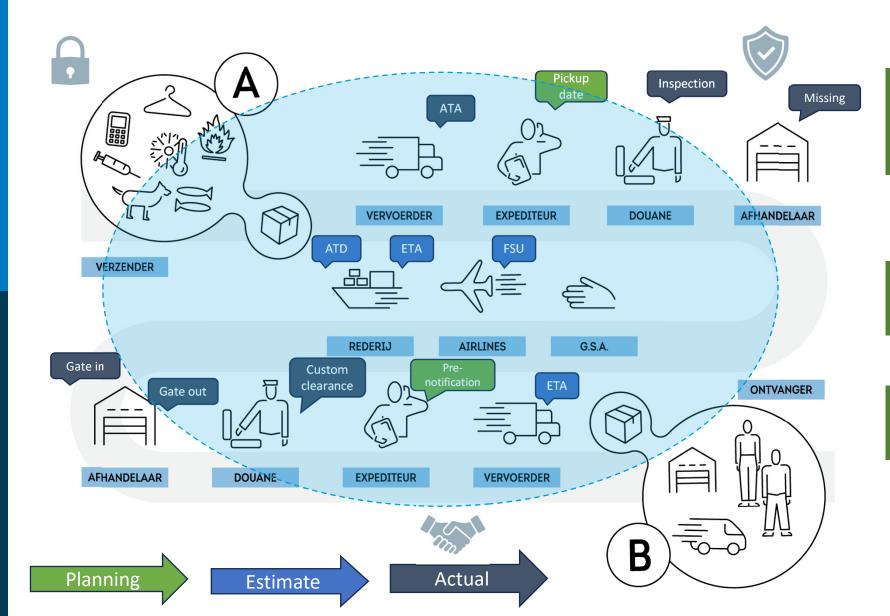
**T** +49 (0) 211 876691-0

## Data Spaces Symposium

BDI & Digital Freight Documents: Why and how to get involved

Steven Schouten

## Controlled Data sharing with the BDI



Parties in the chain are informed at the same time about relevant events

You will receive the data for which you are authorized

A virtual data network with adhoc links



#### Join these and many others





#### **Nieuwe deelnemers**



















### What do we offer



#### BASIC DATA INFRASTRUCTURE





(Technical) support



Stakeholder engagement



Governance set-up



#### Living Lab Digital Freight Documents

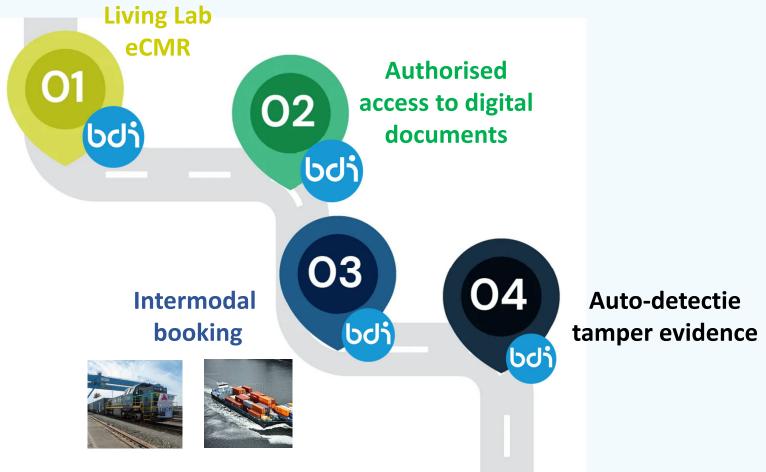
- Digitise documents. Drivers now often write a paper CMR themselves or receive one at the counter (regional terminals).
- Saving time in the handling of the container, for both shippers (terminal, producer) and transporters.
- Provide more information, For example OCR / camera images.
- Standardised processes for data sharing and signing of documents across terminals. Container transfer is based on gate in/out at the participating terminals.
- Combating criminal activities. With e-CMR we increase the security in the operational processes. For example, in the chartering. From an insurance perspective this can lead to a lower deductible or the elimination thereof for carriers.





### Roadmap







#### Success







#### Succesfactoren voor adoptie

- Level playing field
- No vendor lock-in
- Broad participation of chain partners
- Operationalise in practice







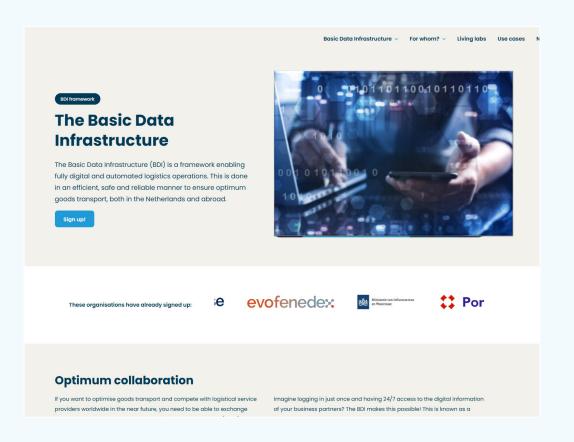


## How to join





bdinetwork.org









#### Contact

Connekt Ezelsveldlaan 2611 RV Delft

Postbus 48 2600 AA Delft

+31 15 251 65 65 https://bdinetwork.org/

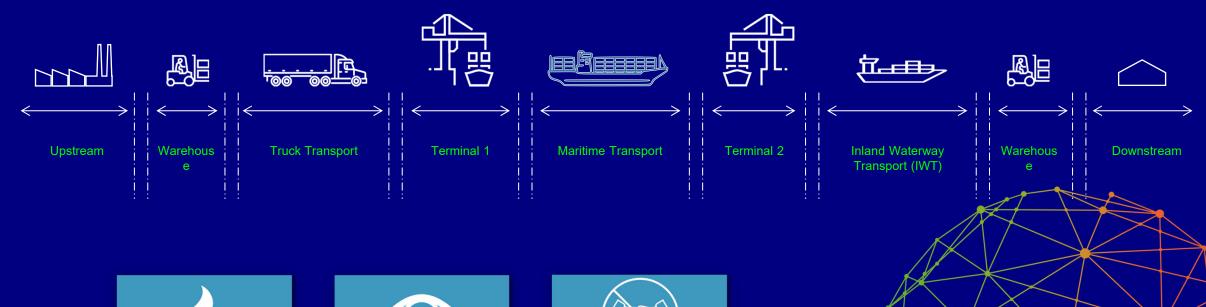
## Data Spaces Symposium

From outbound steel delivery to inbound sportswear shipment

- fully digitized and made secure through data spaces

Birger Schrevens

### The Fragmented Supply Chain





#### Uncertainty

Interconnected supply chains cause cascading effects when disruptions occur



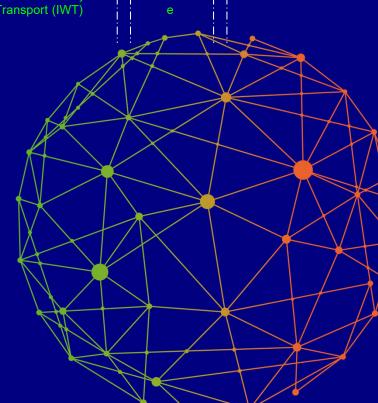
#### **Limited visibility**

Lack of an E2E view of the supply chain affect planning optimization or response to disruptions



#### Inability (or unwillingness) to collaborate

Technical or competitive restrictions limit otherwise beneficial collaborations



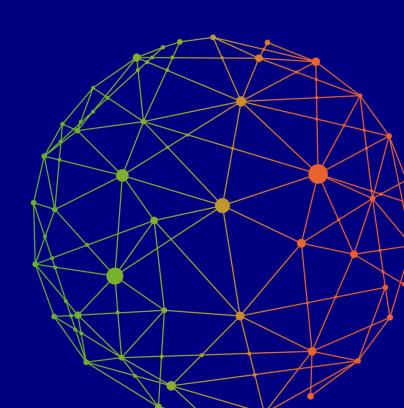
### SYTADEL project

#### What?

Apply Data Space technology in multimodal supply chains to create end-to-end visibility

#### How?

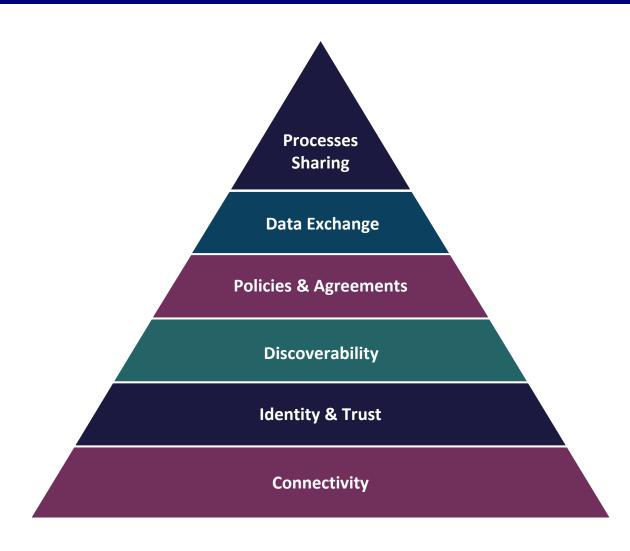
- 1. EDC Connector to automate real-time data exchange according to role-based policies
- 2. ETA predictions to synchronize logistics processes
- 3. Anticipate delays by comparing Estimated to Required Time of Arrival



## Nike-BCTN inbound sportswear shipment



### Data Sharing = By-Product of Process Sharing



<u>Collaborate efficiently in an automated</u> <u>way</u>

**Exchange information about your services** 

Determine your collaboration rules

Access all other players & services

**Identify** yourself

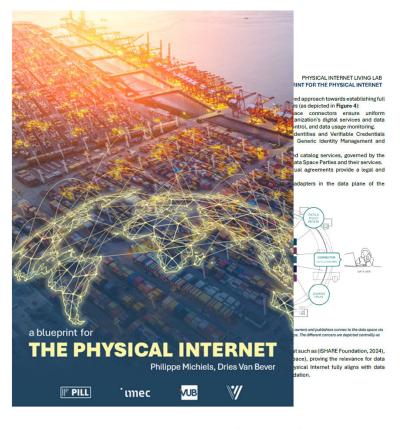
Connect to the network

#### The Physical Internet Blueprint

comprehensive vision for implementing the **Physical Internet** 







PHYSICAL INTERNET LIVING LAB

 Choice of what community you want to join, whom you want to collaborate

#### oundation for PI

es a robust, scalable, and secure foundation to enable diverse logistics stakeholders. Data spaces provide an

oritize data sovereignty, allowing stakeholders to retain r data while participating in a collaborative network. The a spaces mirrors the decentralized nature of the PI. reliance on a single controlling entity. Data spaces asparency while enabling accountability through eventie visibility into network activities. Data spaces are built alar components, enabling seamless integration and

#### A Layered Architecture

l & Lycklama, 2021b) addresses different concerns at ed as a layered architecture depicted in the below figure. id explain how and why this layered architecture can be











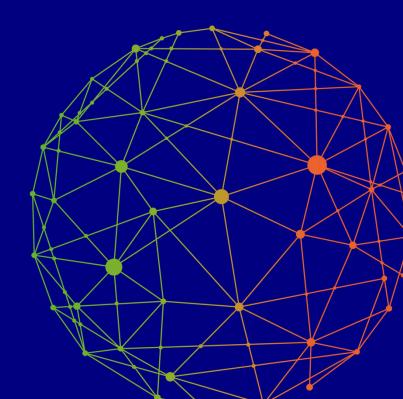
#### Contact

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birger.schrevens@imec.be



## Data Spaces Symposium

Expert talk | A data space from three key perspectives

Ute Burkhardt, Riccardo Giovannotti, Pierre Guinault & Ramy H'cini

## Data Spaces Symposium

GDSO growth, new use cases, tyre industry journey

Riccardo Giovannotti



#### **2022 MEMBERS**



**International Non-Profit Association Established in Belgium in January 2022** 



**Brussels - Belgium** 

#### **2022 MEMBERSHIPS**





# Global Data Service Organisation for Tyres and Automotive Components (GDSO)

**International Non-Profit Association Established in Belgium in January 2022** 



**Brussels - Belgium** 

### **2025 MEMBERSHIPS**

#### 12 MEMBERS













































# Building the worldwide language that unlocks tyres' potential







# DATA SPACE & CONNECTOR

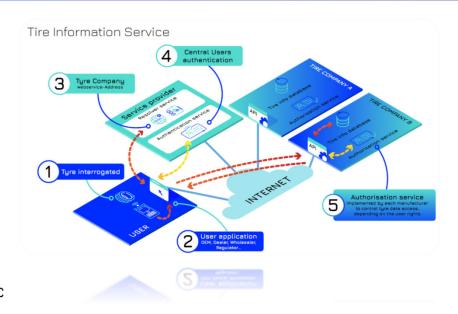
• Tyre Information Service (TIS)







### **TYRE INFORMATION SERVICE**



UII: 301854AAC1493D023116405C



### **UPDATES**

- **SEMANTIC:** new parameters for **OEMs**
- SERVICE: query by batch (up to 100 ids)





# **ENABLED USE CASES**

THREE MOMENTS OF TRUTH











### THROUGH ELECTRONIC IDENTIFICATION AND DATA SHARING:

**BENEFITS** 

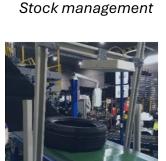
- TRANSPARENCY OF LOGISTICS WORKFLOW INCLUDING CONFIRMATION OF FULFILLMENT (e.g. DELIVERY & INVENTORY) MANAGEMENT
- COMPLIANCE FOR OEMs (THE RIGHT TYRE ON THE RIGHT VEHICLE)
- FOR FLEETS SIMPLIFICATIONS AND COST SAVING

## RFID and Tire Data enables efficiency and traceability

From cradle to grave also contributes to improve customer experience and sustainability

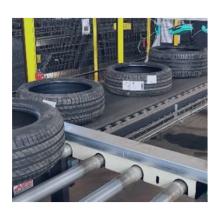








Tire & Wheel assembly





DSS25 - The Tyre Industry Journey - March 12, 2025 - P. GUINAULT (Michelin)

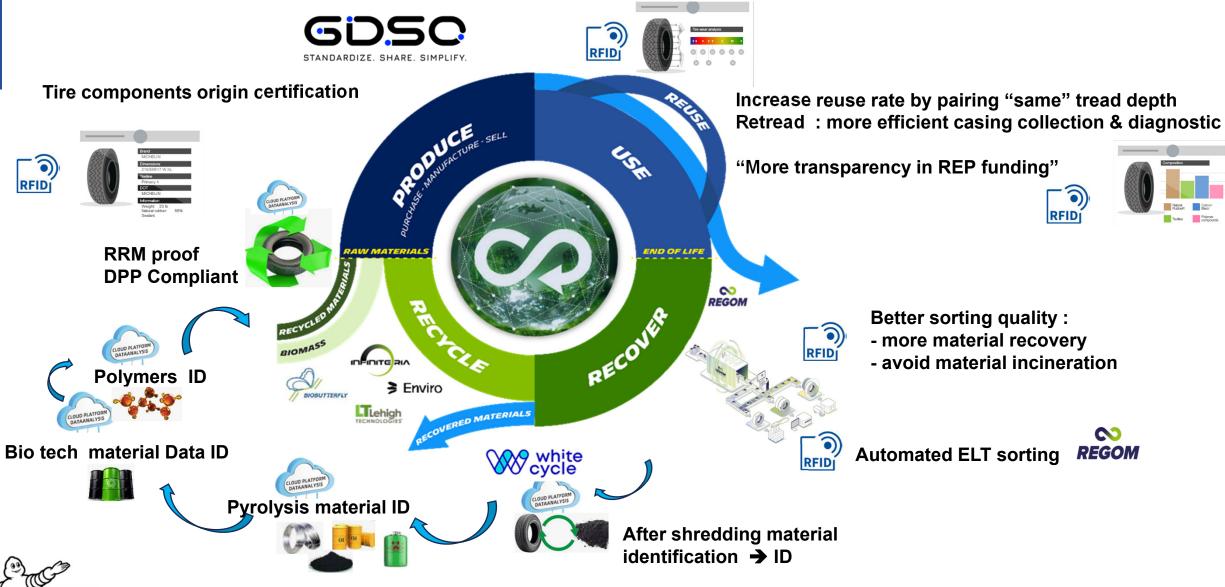




Manufacturing and R&D



# RFID with enriched data till end of life ensure high value through high traceability & sustainable proof





# NEW CONNECTOR DATA CRADLE TO GRAVE

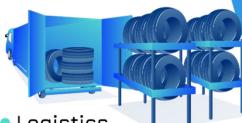
• TYRE LIFECYCLE DATA SERVICE EVENTS ALONG TYRES' LIFE

## **HOW TO COLLECT KEY EVENTS' DATA ALONG TYRES' VALUE CHAIN?**



#### Tire manufacturers

Good receipt, manage stock, communicate tire details to any 3rd party contractor (tire supplier, lease company etc.) tire hotel & repairing



Logistics

Warehouse entry and exit versus order, systems stock



Distributors / Wholesalers



Quality insurance

> Tire identity in case of claim, tracking back to production data



End of life

Ensure tires are removed from the market and scrapped, allow recyclers to segregate tires



#### OEMs

Warehouse, logistics, tire/rim fitment, wheel/vehicle fitment, sensors feed (speed, kms, advanced features like grip levels)



Asset track, tire position on vehicle, vehicle load/tire i.p., tires in stock, tire movements tracked



Fleet management

GDSO | **MARCH 2025** 





STAKEHOLDER

DECLARATION

TYRE HISTORY



**TYRE HISTORY** 

**STAKEHOLDER** 

**DECLARATION** 

TYRE HISTORY

### **RETRIEVE THE TYRE HISTORY TYRE HISTORY** STANDARDIZE. SHARE. SIMPLIFY. **DECLARATION** n **DECLARATION** ... **DECLARATION 1 BIRTH** DECLARATION COLLECTION **RETREAD** RECYCLING **DECLARATION** DECLARATION **DECLARATION USED TYRE TYRE RETREADER ELT OPERATOR MANUFACTURER OPERATOR ADD DECLARATION TO THE**



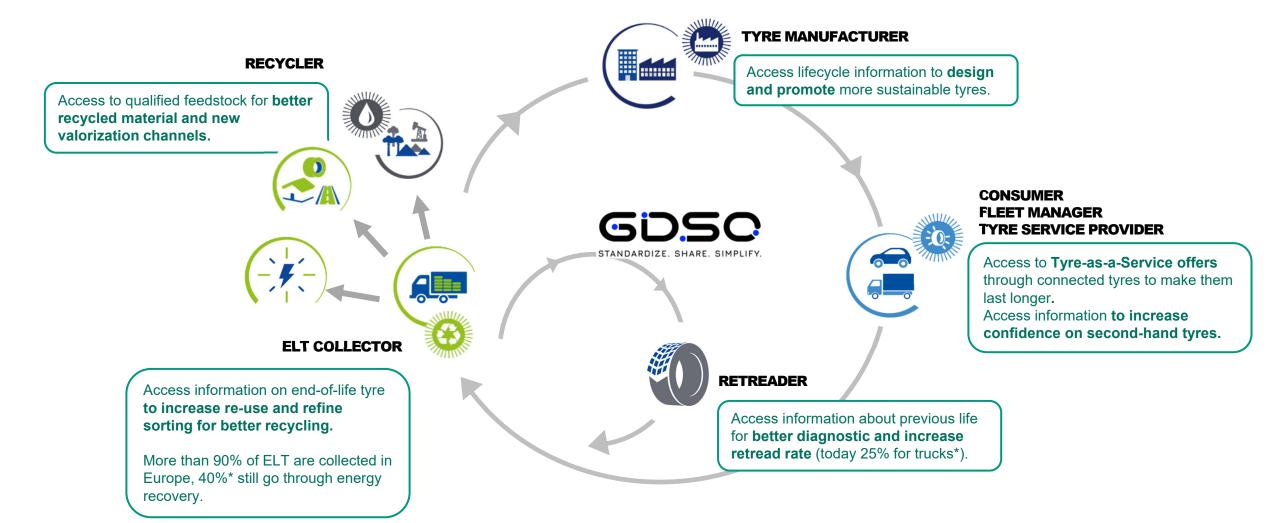
## Beyond tyre's identification

www.gdso.org

info@gdso.org

## Thanks to DPP, tyre circular economy digitization will benefit to every stakeholder







# Driving real impact with Data Spaces

Data Spaces Symposium 2025

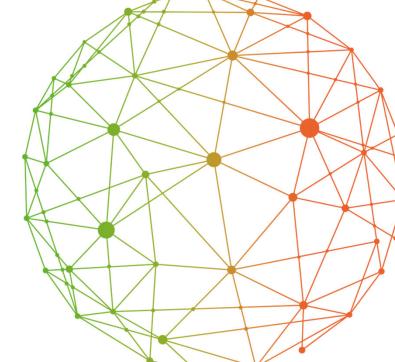
Ramy H'cini CTO Think-it











## A bit of our background





 Official Connector as a Service provider









- Top core EDC committers
- DCP co-authors



- Data Spaces Partner
- MVDS guide authors





## Solving for scope 3 emissions



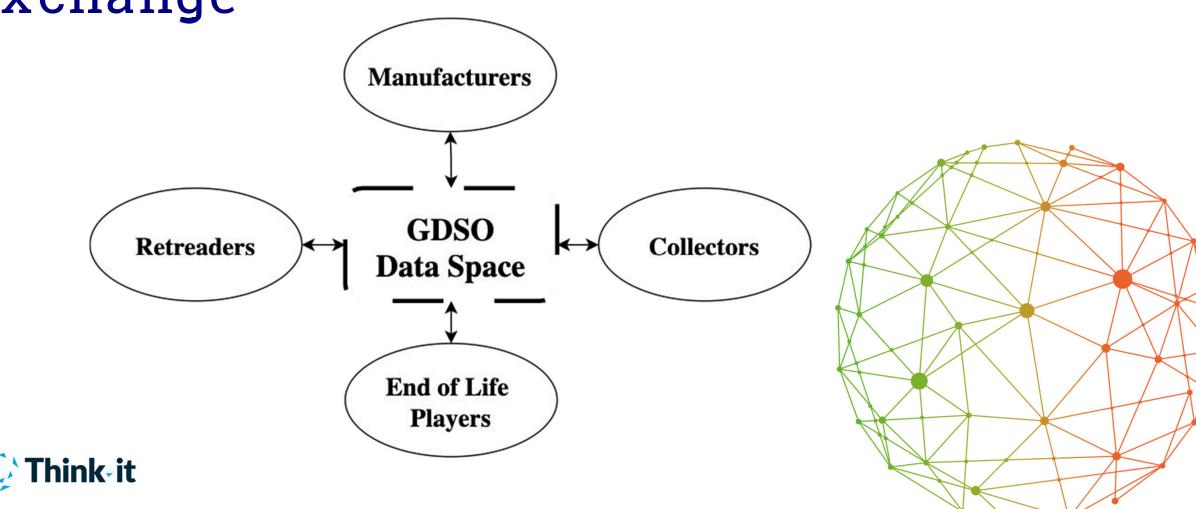
Time to exchange emissions between participants



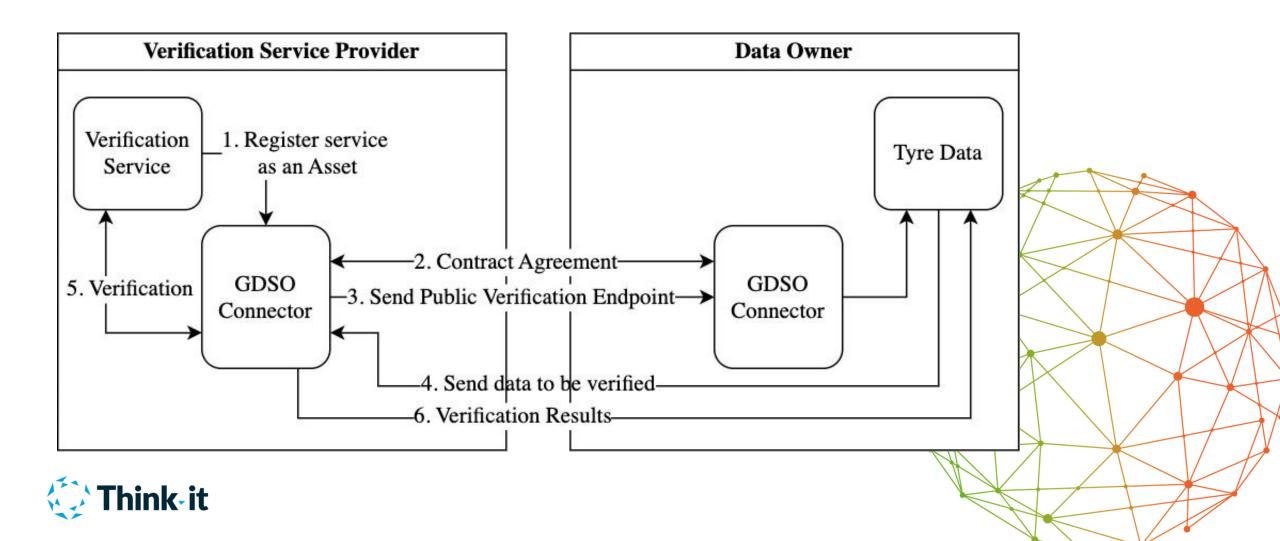
Data Space Building Blocks	Technical Implementation
Connector	Tractus-X EDC Connector v0.5.3
Exchange policies	Business Partner ID Policy
Identity Service	MIW (SSI)
Use Case Application	SFC Data Exchange API



Enabling the Tyre Industry with Sovereign Data Exchange



# Enabling the Tyre Industry with Sovereign Data Exchange



# How we're enabling impact with Data Spaces

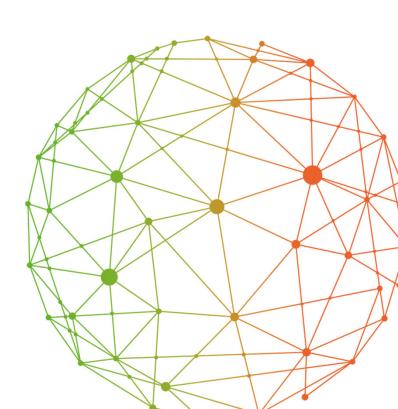
## Interoperability, Identity and Trust

- Eclipse Dataspace Components (EDC)
- . GAIA-X and iSHARE Trust Frameworks
- SSI/DID and Decentralized Claims Protocol

## Make Data Space Technology Easy

- Data Spaces as a Service (DaaS)
- Connector as a Service (CaaS)
- Suite of OSS SDKs
- Onboarding Partner





# Data Spaces Symposium

Discussion | Q&A with data spaces users

Ute Burkhardt, Arunav Mishra & Jürgen Sturm