THE FIRST OPEN AND COLLABORATIVE DATA ECOSYSTEM

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ANDREAS KOTTMANN
Catena-X Consortia: Joint Lead for Team Transfer & Communication
BMW AG

WIEBKE BRÖMME
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Introduction

Andreas Kottmann

Catena-X Consortia
Joint Lead for
Transfer & Communication Team

BMW AG
Onboarding and Communication

Wiebke Brömme
Goals

- To work out the principles of a data ecosystem.
- To get an idea of the technical basics.
- To create an understanding for the possibilities of Catena-X.
1. Catena-X Ecosystem
The Automotive Industry Faces Multiple Challenges that Affect All Participants along the Global Value Chains.

How Germany´s Supply Chain Act could affect your business.

Transparency, simplicity are key to healthy supply chain, auto execs say
The supply chain crisis that roiled automakers and suppliers during the COVID-19 pandemic provided costly lessons about pinpointing vulnerabilities, increasing visibility and improving communication across tiers.

Carmakers and tier ones need better supply chain alignment
If the semiconductor shortage taught the automotive sector anything, it is that closer collaboration between carmakers and their suppliers, not just at the tier one level, level, is crucial to mitigate disruption to the supply chain.

Why suppliers are critical to reducing the auto industry´s carbon footprint
The auto industry is a major contributor to climate change. Automakers’ plans to reduce the industry’s carbon footprint will only work if they can get suppliers to come along.

OUR ENVIRONMENT WAS DOMINATED BY UNEXPECTED EVENTS AND PROFOUND CHALLENGES - EACH WITH THE POTENTIAL TO JEOPARDISE OUR GOALS:

Supply challenges for semiconductors and wiring harnesses;
Bottlenecks in vehicle and parts logistics;
Pandemic-related closures in China;
Rising prices for commodities, materials and energy;
Geopolitical tensions.

OLIVER ZIPSE
CEO, BMW Group
May 11, 2023
The Way how We Interact in the Value Chain Does Not Match the Scope of Our Industries Must-Win Battles.

We need to introduce a scalable approach to tackle the industries most pressing challenges and integrate all 270,000+ automotive Tier-n suppliers.

Must-win battles in the automotive value chains

- Supply chain resilience on a global scale
- Increasing product complexity and zero-failure requirements
- Complying with accelerating regulatory demands
- Fulfilling sustainability targets
- Scaling future-proof business models and digitalization
With Catena-X We Set the Focus Right and Create an Ecosystem along the Whole Value Chains.

The industry’s challenges cannot be solved by a single player. With Catena-X we face them together by creating an open and collaborative data ecosystem for the entire industry.

Must-win battles in the automotive value chains

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- Increasing product complexity and zero-failure requirements
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- Scaling future-proof business models and digitalization
Catena-X Seeks to Develop an Open, Collaborative Ecosystem With Strong Governing Principles.

Catena-X is not a database to store and collect data but an open ecosystem to share data in a better way – standardized, secure and simple.

#DataSovereignty
Decide about the use of your data

#DataSecurity
Data exchange via secure connector

#Interoperability
Common standards allow different systems to work together

#FreedomOfContract
Collaborate with partners of choice only

#GovernanceFramework
Unified policies, authorizations and monitoring
FROM TIER-N TO OEM TO RECYCLER AND BACK

Benefits and Savings >> Efforts and Costs

**WHY CATENA-X?**

"THE FIRST OPEN AND COLLABORATIVE DATA ECOSYSTEM"

**READY FOR MUST-HAVE REGULATIONS**
- Speedboat solution for:
  - Product Carbon Footprint (CO2)
  - Product & Battery Passes
  - ESG & LkSG
- Common rulebooks defined

**STRONG PRINCIPLES**
- Your data is safe
- Your data stays with you
- You decide who can see your data
- One common language

**REDUCE INTERFACES**
- One platform, not 100s of interfaces with customers and suppliers
- You choose your software based on your business needs
- All software is certified and works with each other

**10 PRACTICAL USE CASES**
- E.g. narrow down recalls in hours rather than weeks (Traceability)
- E.g. optimize your capacity planning throughout the n-tier chain (DCM)

**STARTING POINT**
- Germany, ready to go worldwide

**OPEN ECOSYSTEM**
- Change the mindset of the entire industry
- Join the association and define standards

**RECEIVE DATA**
- "Radical" collaboration
- Get customer data
- Watch component performance
- Speed up root cause analysis
- Optimize your designs & quality

**DECENTRAL PEER TO PEER DATA EXCHANGE**

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2. Catena-X Chainbuilding
Catena-X Ensures the Upkeep of the Principles through Specially Developed Secure Software Components.
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Takeaways

Increasing Challenges / data requirements make it necessary to **work in networks** rather than peer to peer.

Catena-X has **integrated Lessons Learned** from other platform solutions into the design (e.g. data sovereignty, interoperability, open source).

The principle of Catena-X is **transferable as a blueprint**, as it is not limited to specific data or use cases.
Thank You!

Visit us:
www.catena-x.net