

Catena-X Automotive Network Product Carbon Footprint Certified Solutions Pitch Session

07.04.2025 | 13:00 – 14:00





Agenda

- | | |
|--|---------------|
| 1. Into to Catena-X | 13:00 – 13:05 |
| 2. Motivation behind Catena-X PCF Use Case | 13:05 – 13:15 |
| 3. Certified Applications for PCF | 13:15 – 13:45 |
| 4. Q&A | 13:45 – 13:55 |
| 5. Summary & Wrap-Up | 13:55 – 14:00 |

QR-Code to collect and prioritize your questions >>

Q&A Poll



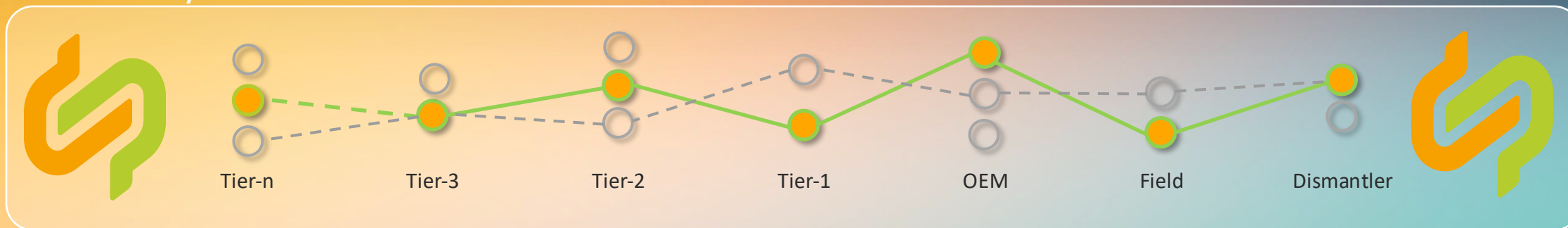


1. Into to Catena-X

Catena-X: The Open, Collaborative Ecosystem for Data Exchange along the Value Chain



Catena-X Ecosystem



#DataSovereignty

Decide about the use of your data



#DataSecurity

Data exchange via secure connector



#Interoperability

Common standards allow different systems to work together



#Trust

Easily identify partners in the ecosystem



#GovernanceFramework

Unified policies, authorizations and monitoring



Catena-X is an open ecosystem to share data in a better, decentralized way – standardized, secure and simple

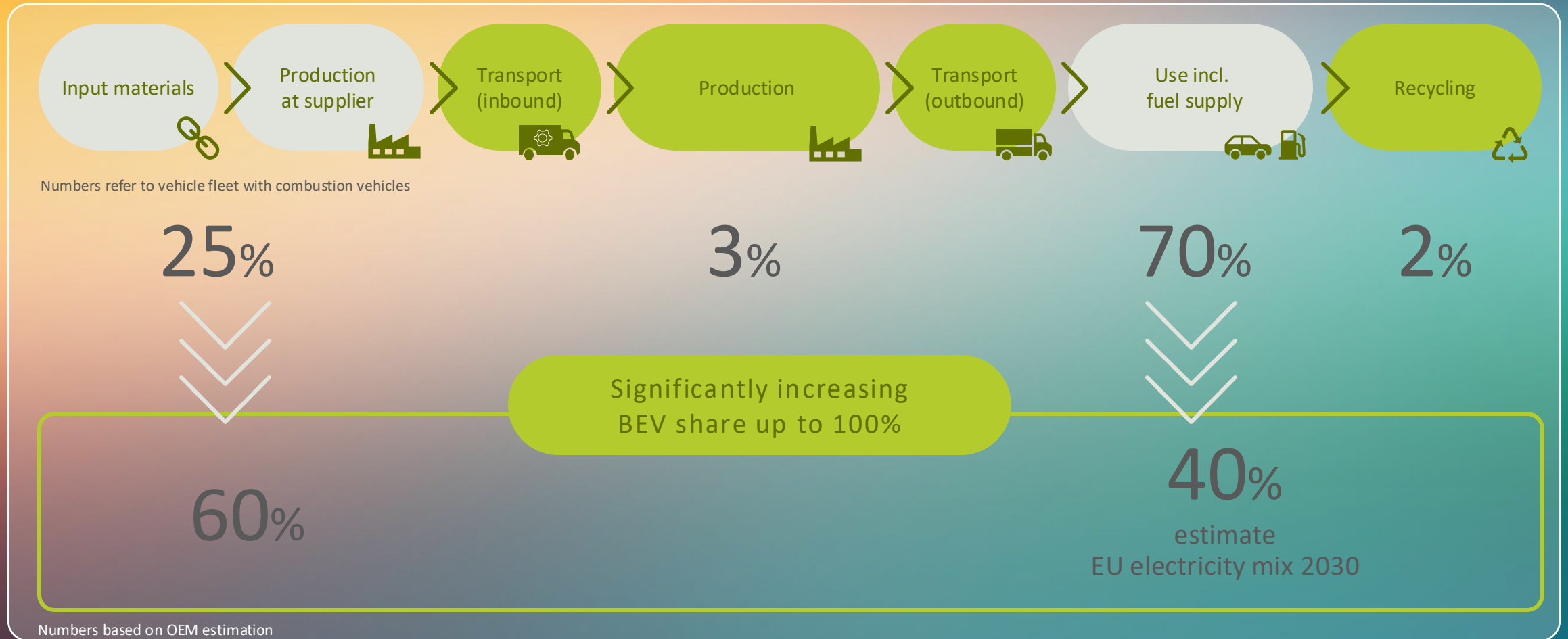




2. Motivation behind the Catena-X PCF Use Case

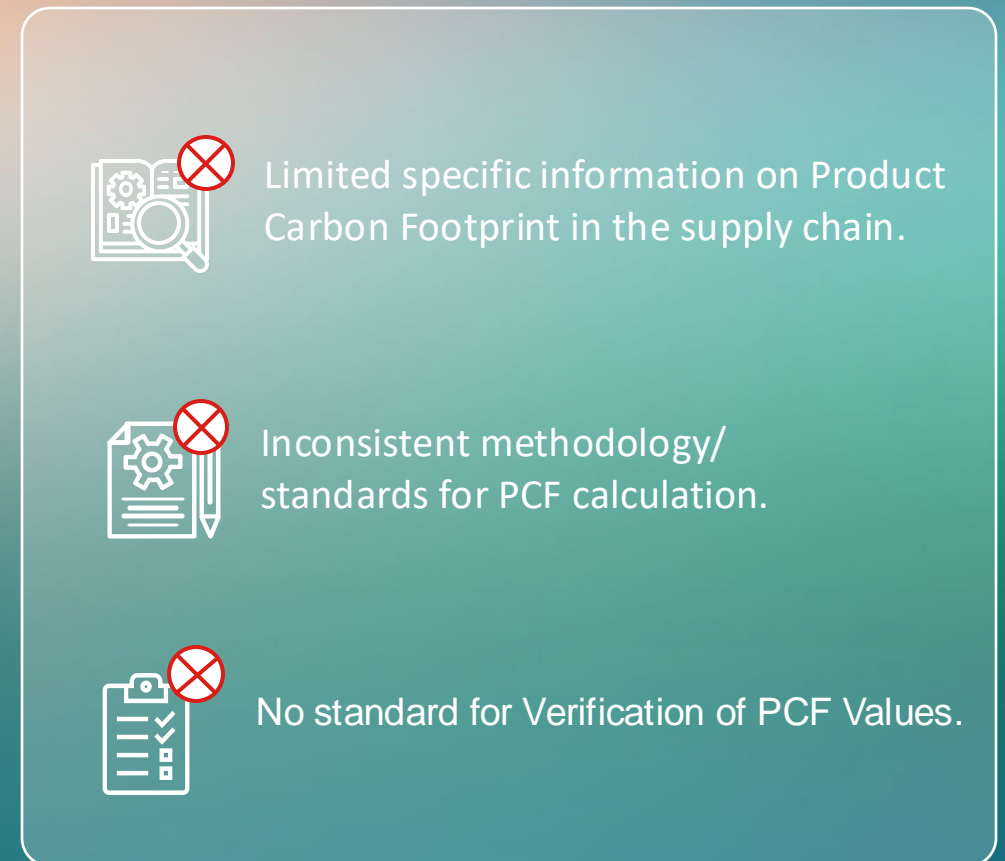
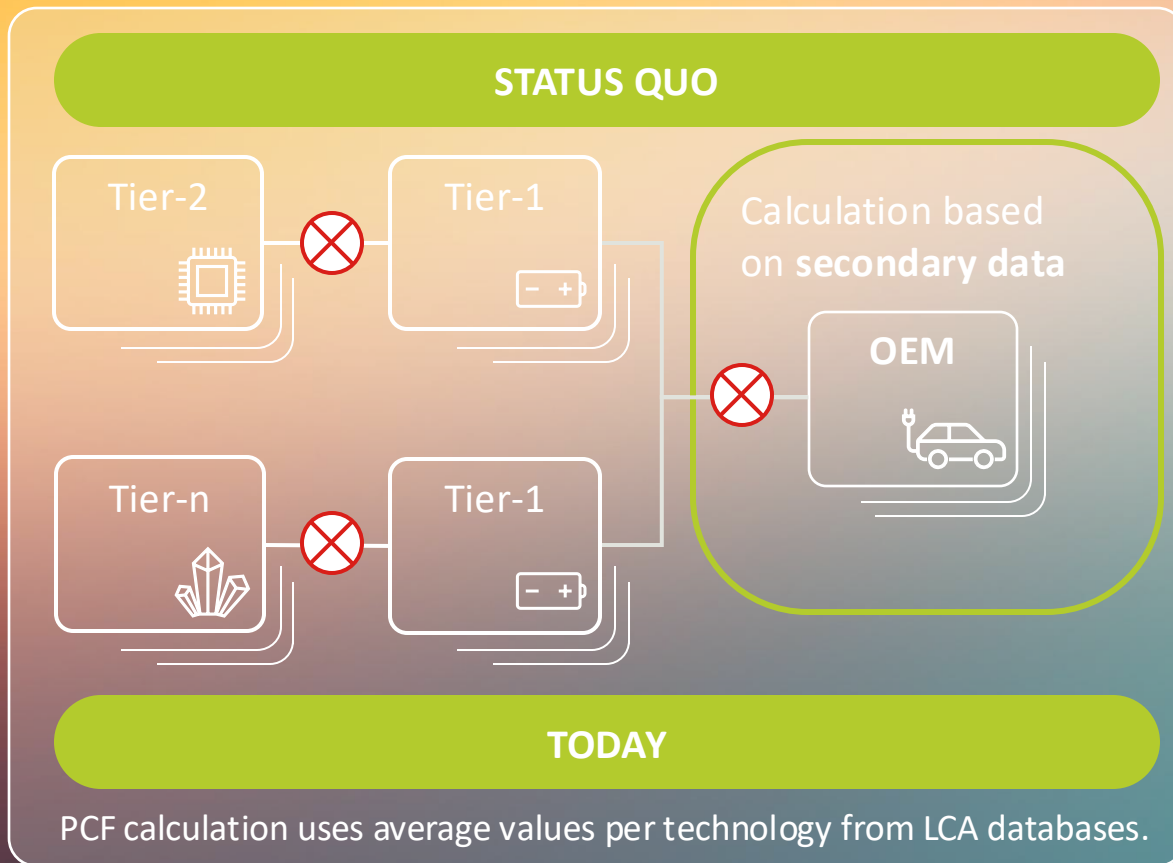


Supply chain emissions will be the most important area for CO₂ reductions in the automotive value chain for electromobility.





PCF challenge: No access to accurate, specific primary data on PCF in the supply chain.

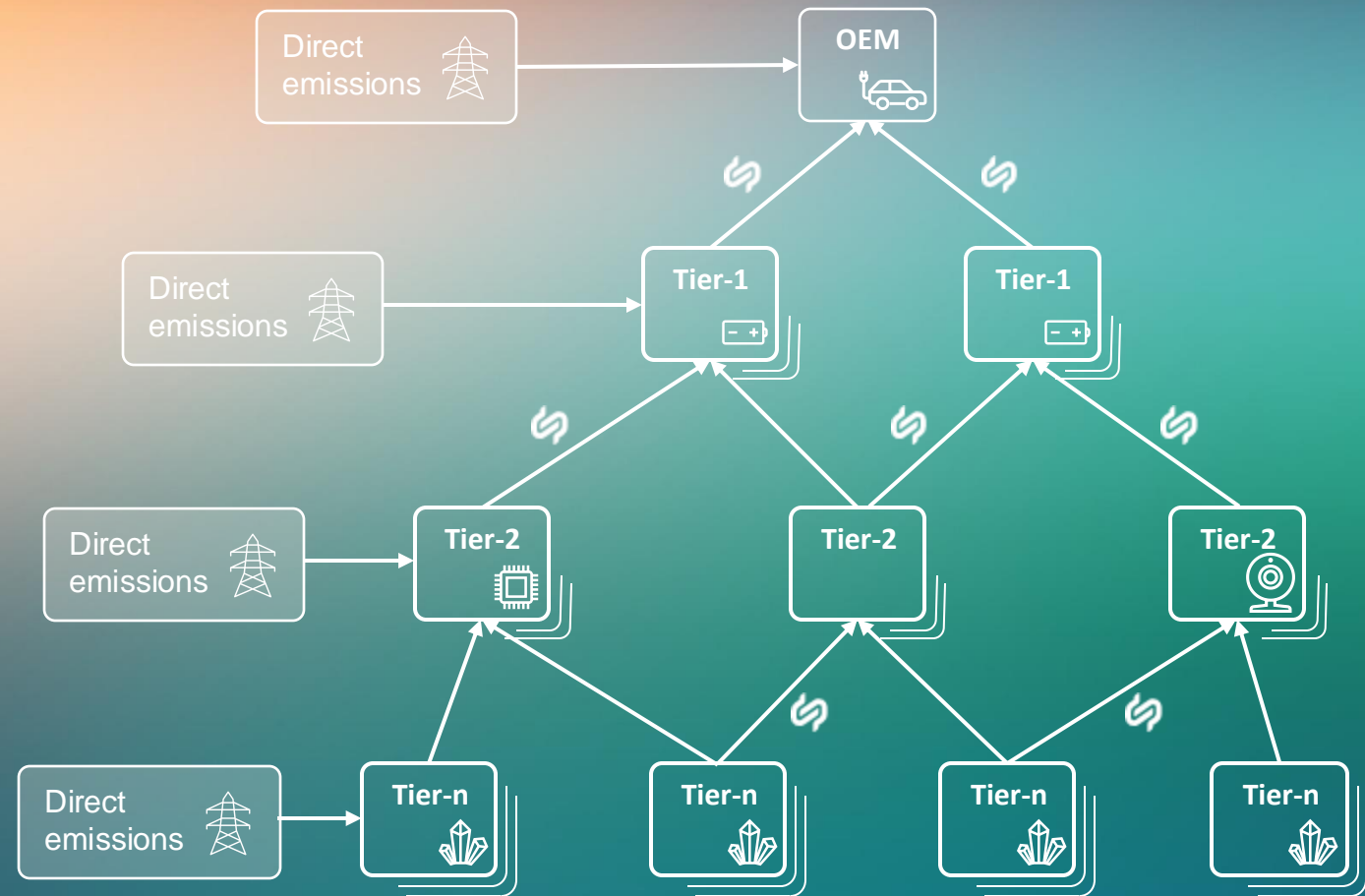




Catena-X captures PCF along the supply chain by recording and aggregating primary data from every partner involved.

TO DO THIS, WE NEED:

- **COMPARABILITY** of calculation standards
 - Methodology
 - Fall-back data in ramp-up
- **RELIABILITY**
Accepted verified data with high data quality across different industries and different regions
- **COMPATIBILITY** of technical standards and data models
- **ALIGNED GOVERNANCE** and evolution of standards and data models

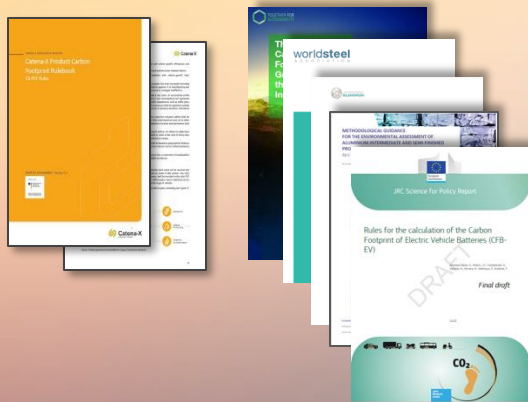




In a nutshell: Product Carbon Footprint (PCF)

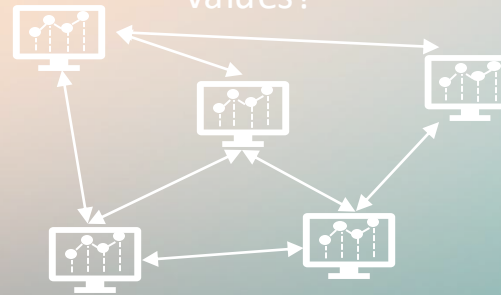
PCF Methodology:

How do I measure, model and calculate?



PCF Data Exchange:

How do I document, transfer and receive values?



Audit and Verification:

How do I trust values I receive and how do I create trust in my results?



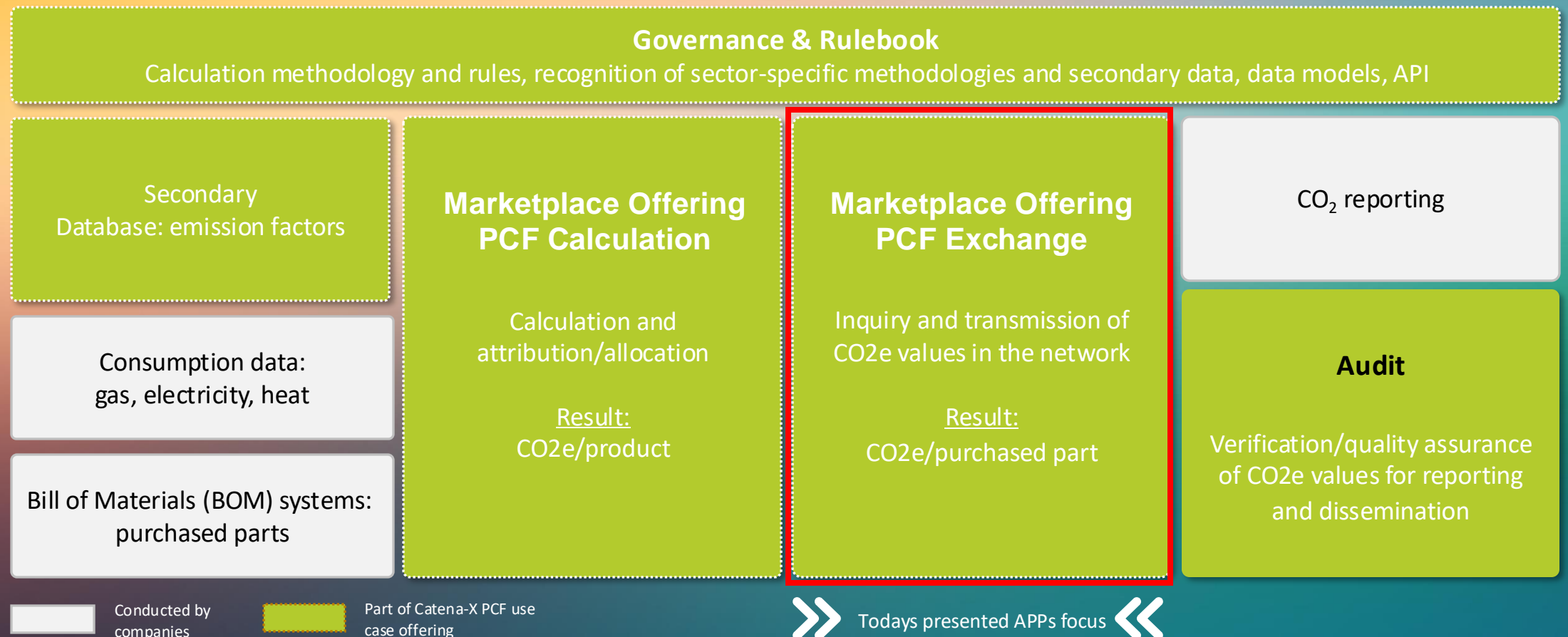
The combination of **Catena-X PCF Methodology** and **Technical Standards**, **CX certified-Solutions** and the **PCF Verification Framework** enable **trusted PCF data** from the supply chain.





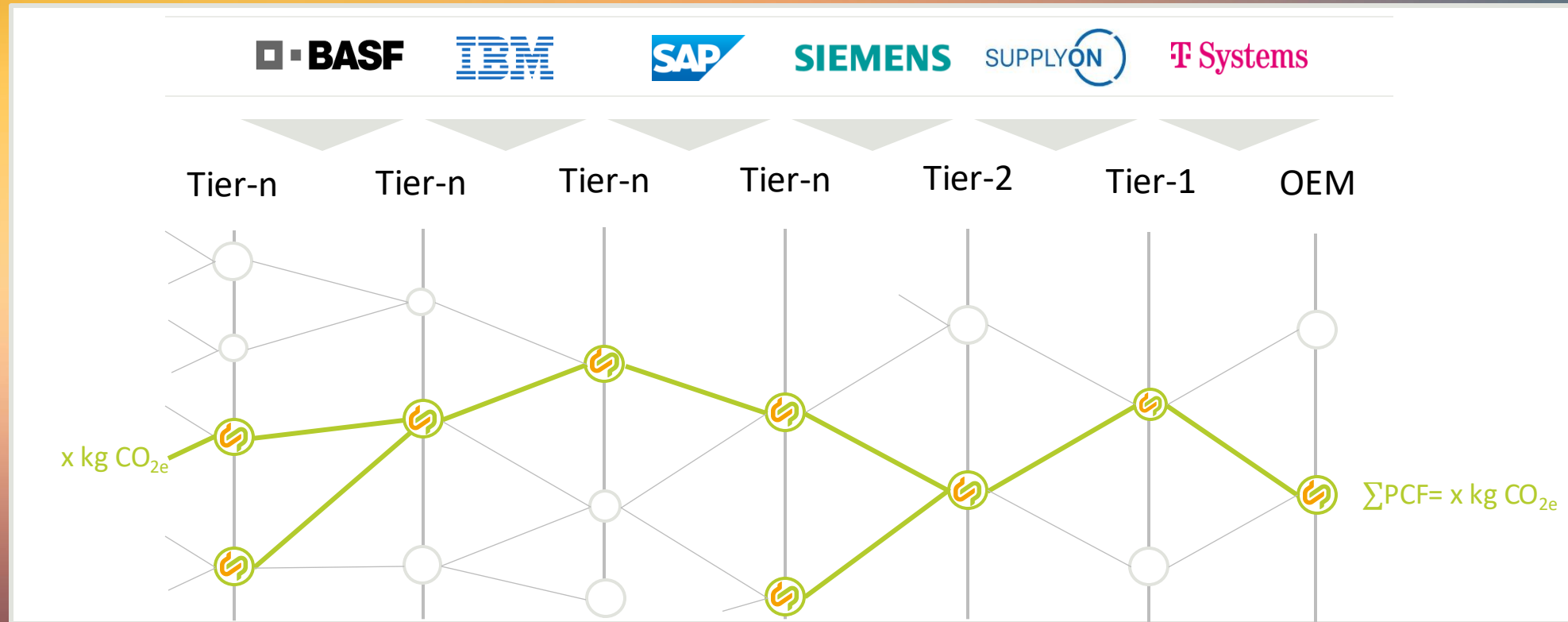
Catena-X fills in the relevant gaps to calculate a real PCF

A solid portfolio of solutions for large and small companies to calculate, exchange and verify PCF.





Current Offering of PCF Exchange Solutions



All interoperable APPs to enable standardized PCF data exchange between APPs without vendor lock in.





3. Certified Applications for PCF

Q&A Poll







BASF - Pacific

Q&A Poll






BASF – Pacific Product Video



Products
Components
Tasks











My Components

Bulk PCF Export
Bulk PCF Request

Biogenic Emissions and Removals

Include
Exclude

Filters:
Status: Complete X
Locations v

Component Name ↑	Component ID ↑↓	Supplier Name ↑↓	Location ↑↓	PCF Value ↑↓	PCFs ⓘ	Status
ELASTAN 658I/135	30731059	BASF SE	Europe	0.1 kg CO ₂ e/kg	 	Complete
ELASTOLIT D 8710/200/EV	30839682	BASF SE	Europe	2.4 kg CO ₂ e/kg	 	Complete
ELASTURAN C 2600 C-A	30356194	BASF SE	Asia Pacific	3.1 kg CO ₂ e/kg	 	Complete
FW647C5E COLORBRITE	30741745	BASF SE	Europe	2.1 kg CO ₂ e/kg	 	Complete
ISO 113/1	30182999	BASF SE	Europe	2 kg CO ₂ e/kg	 	Complete

+ Request PCF for Additional Component



a brand from BASF SE, powered by CircularTree GmbH



Our expertise: TÜV certified calculation for BASF products, we can offer PCFs for more than ~ 50.000 Products

Our target group: Reseller and SMEs

Our features:

- ✓ Maintain PCFs of your own products and share with your customers.
- ✓ Your customers will get automatically updates, when your product PCF has been changed.
- ✓ Receive PCFs from BASF synchronously for products in your portfolio.
- ✓ Request PCFs of additional products from BASF and other suppliers.
- ✓ Easy understand and manage your PCFs along the supply chain.
- ✓ Calculation of discrete products coming soon

Demo link: www.basf.com/pacific



IBM Envizi Supply Chain Intelligence for Catena-X

Nicole Roik
Account Technical Leader Manufacturing
Executive IT Architect

roik@de.ibm.com
0175-5703684



Q&A Poll



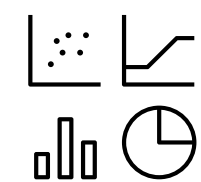


IBM - Envizi

Q&A Poll



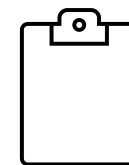
IBM Envizi Supply Chain Intelligence for Catena-X



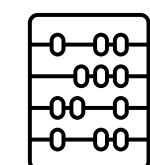
Integrated yet open, centralized system to bring together supply chain data and broader ESG data to scale Scope 3 accounting and reporting



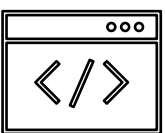
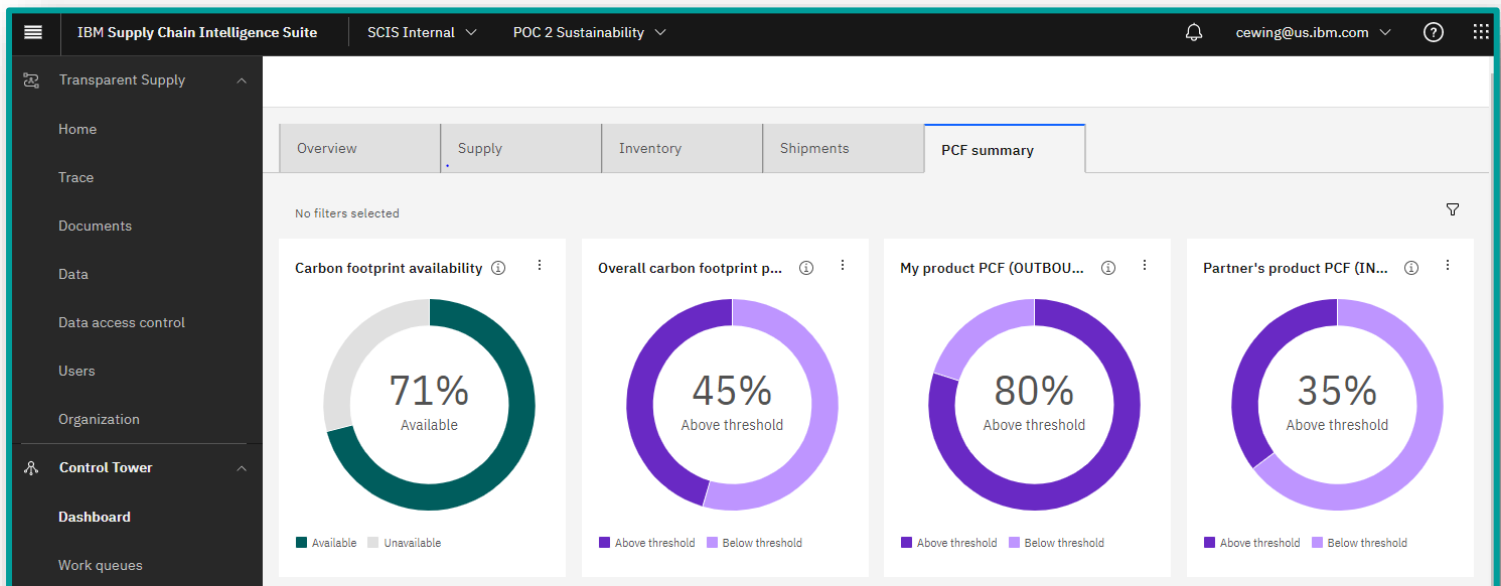
Automated product-level data request, collection and analysis that enables faster, easier collaboration between suppliers to get product level data.



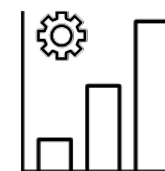
Engage suppliers through Catena-X, custom surveys and forms as they respond to requests on Product Carbon Footprint data, ESG survey data, emissions data and targets.



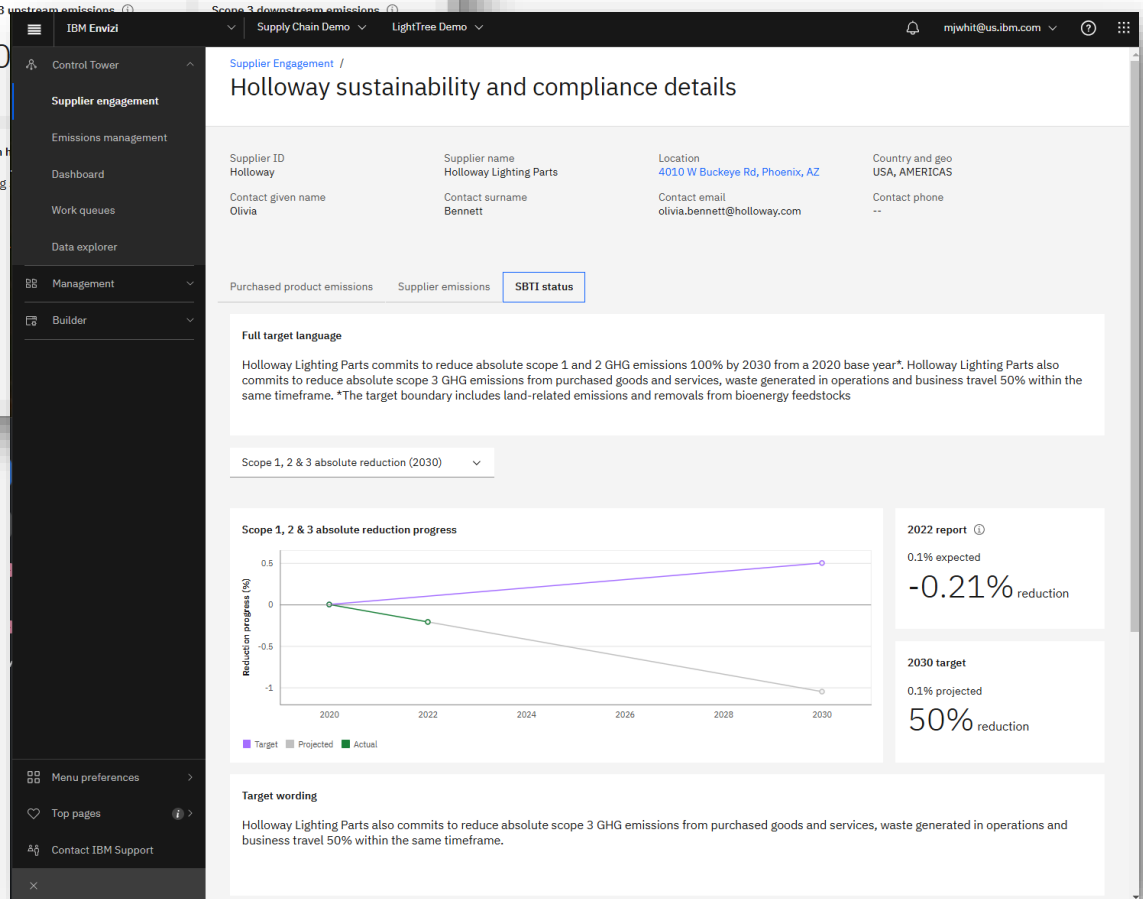
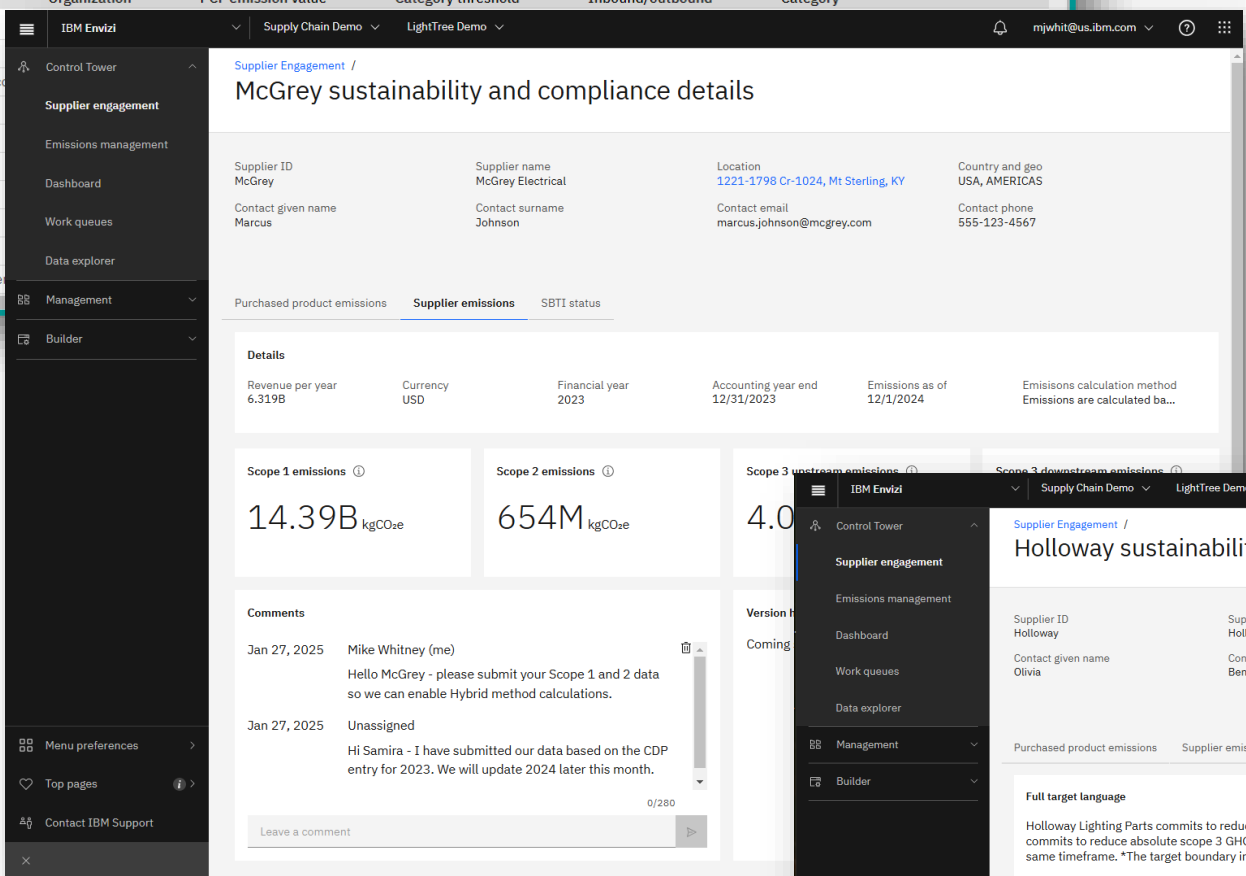
Supports all types of emission Calculations, including Hybrid and supplier-specific methods that are product level-based systems.



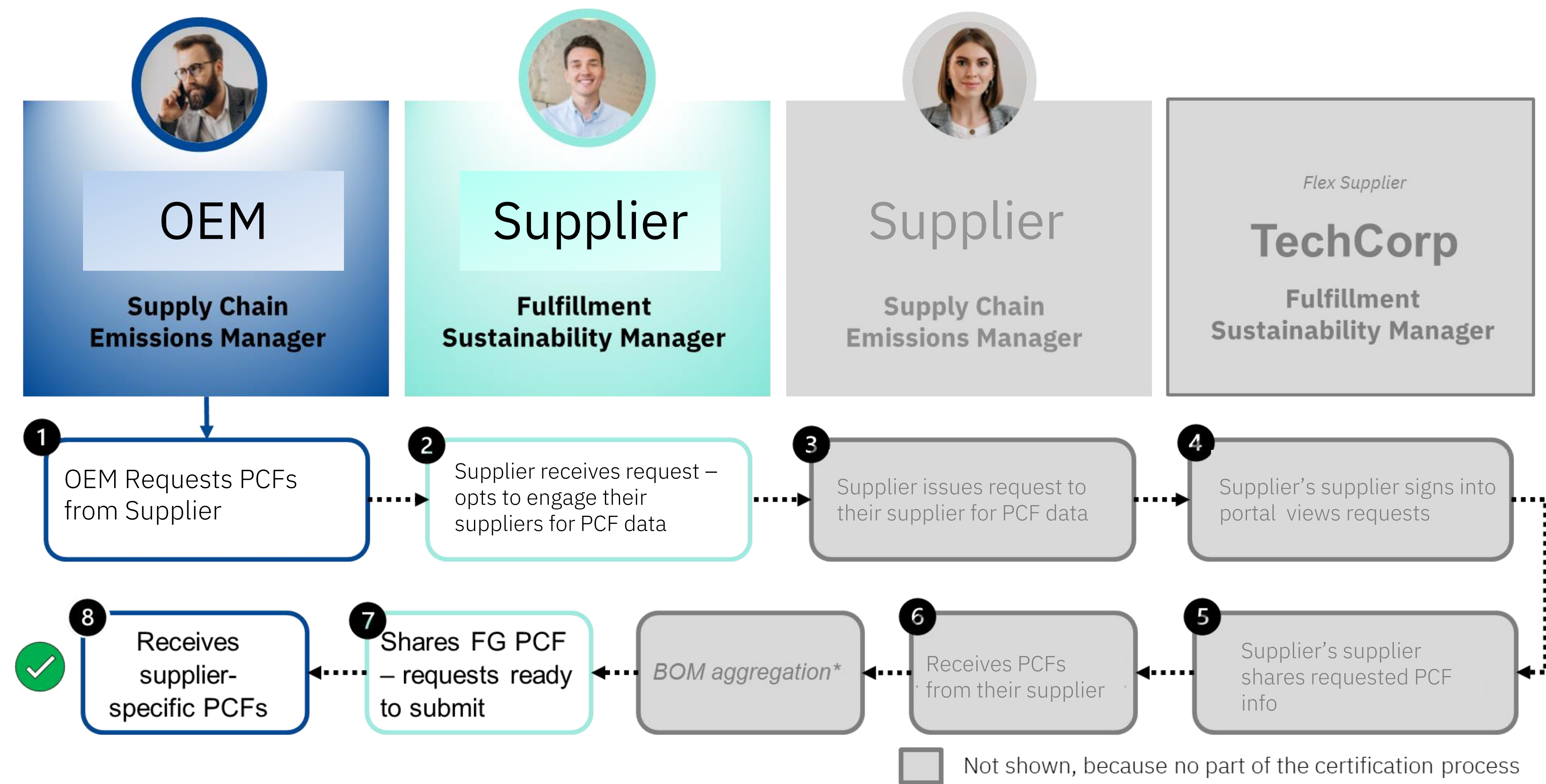
Action plans for emissions reduction that provide insights and guidance to accelerate decarbonization efforts.



Actionable insights to help customers operationalize the process of both collecting product-level data from suppliers and improving its quality



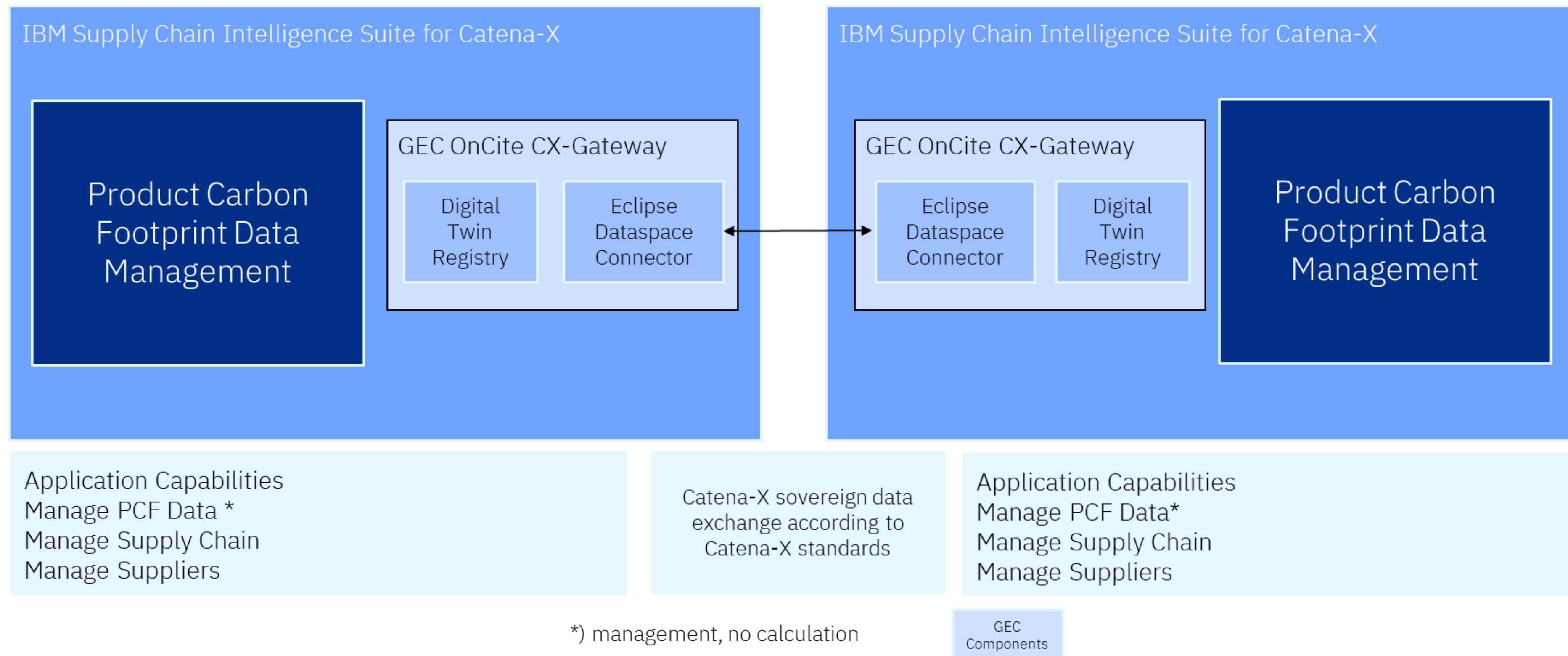
PCF Request Data and Process Flow

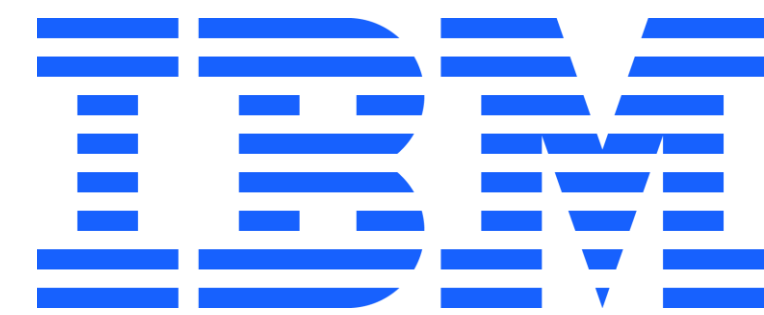


IBM Supply Chain Intelligence Suite - Data Flow according to Catena-X Standard

OEM

Supplier





Q&A Poll





SAP - Sustainability Data Exchange

Q&A Poll





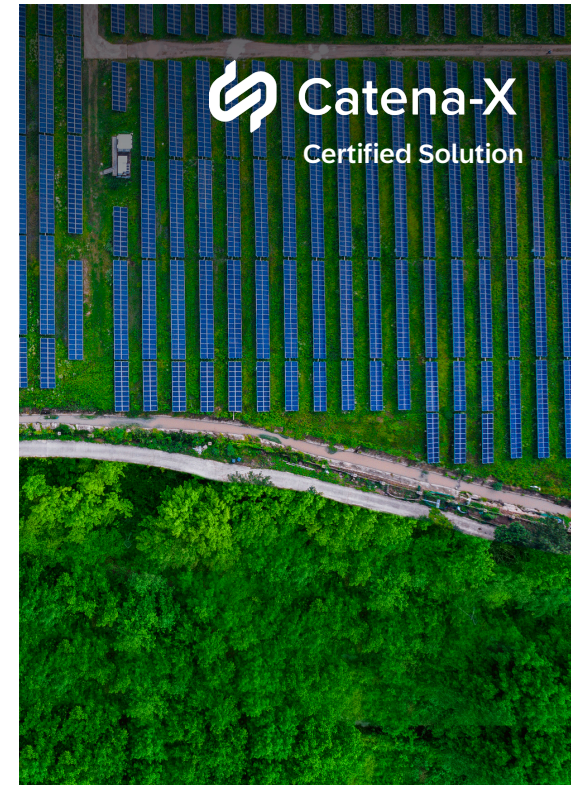
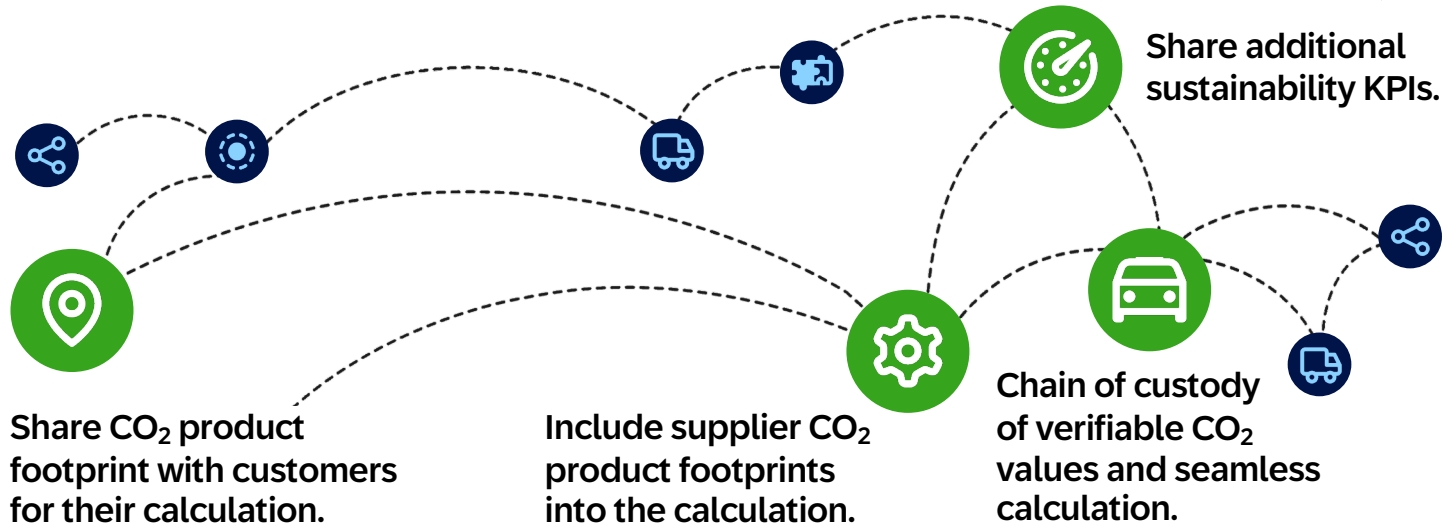
Catena-X
Certified Solution

Navigating sustainable mobility transformation in Automotive with SAP

INTERNAL SAP and Customer Only

Carbon Data Management

Share and enable carbon footprint calculations



Create

transparency into verifiable CO₂ footprints of parts and components across the entire value chain.

SAP Sustainability
Data Exchange

SAP Sustainability
Footprint Mgmt.

Create higher precision in CO₂ product lifecycle assessments through collaboration based on primary data.

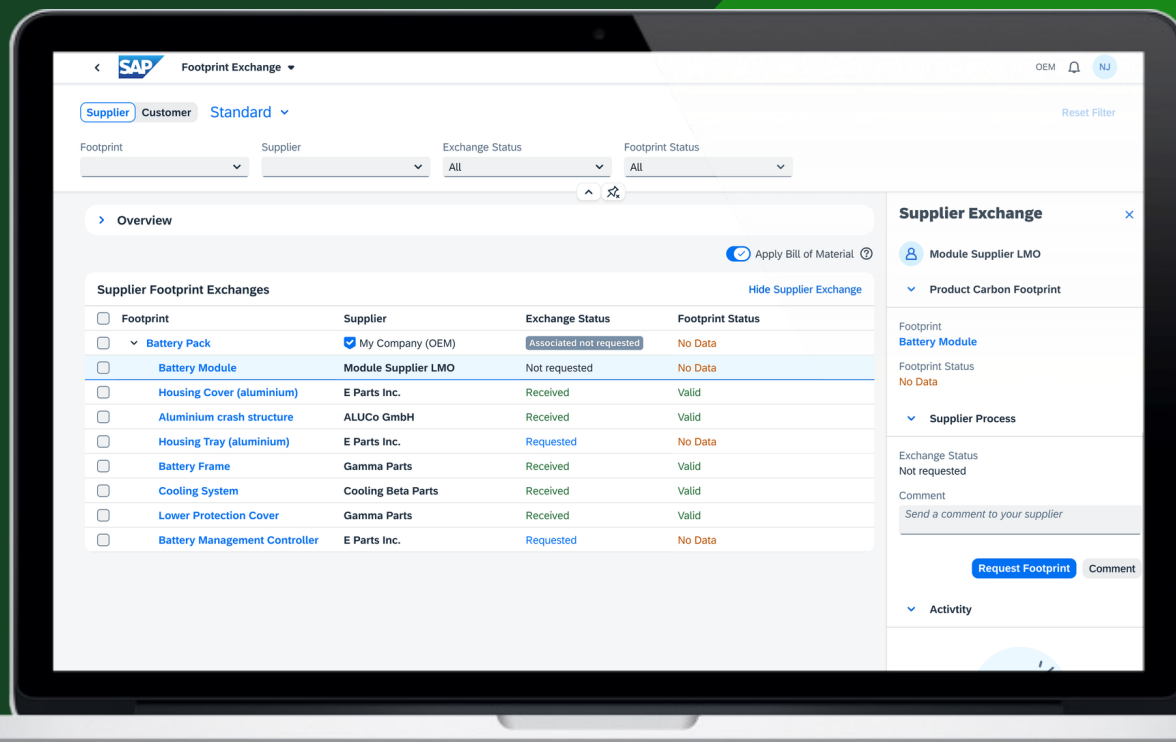
Identify products or processes with high potential for CO₂ reduction and optimization scenarios.

Meet regulatory requirements across regions (e.g., *European Green Deal, Batteries Directive, SC Act*).

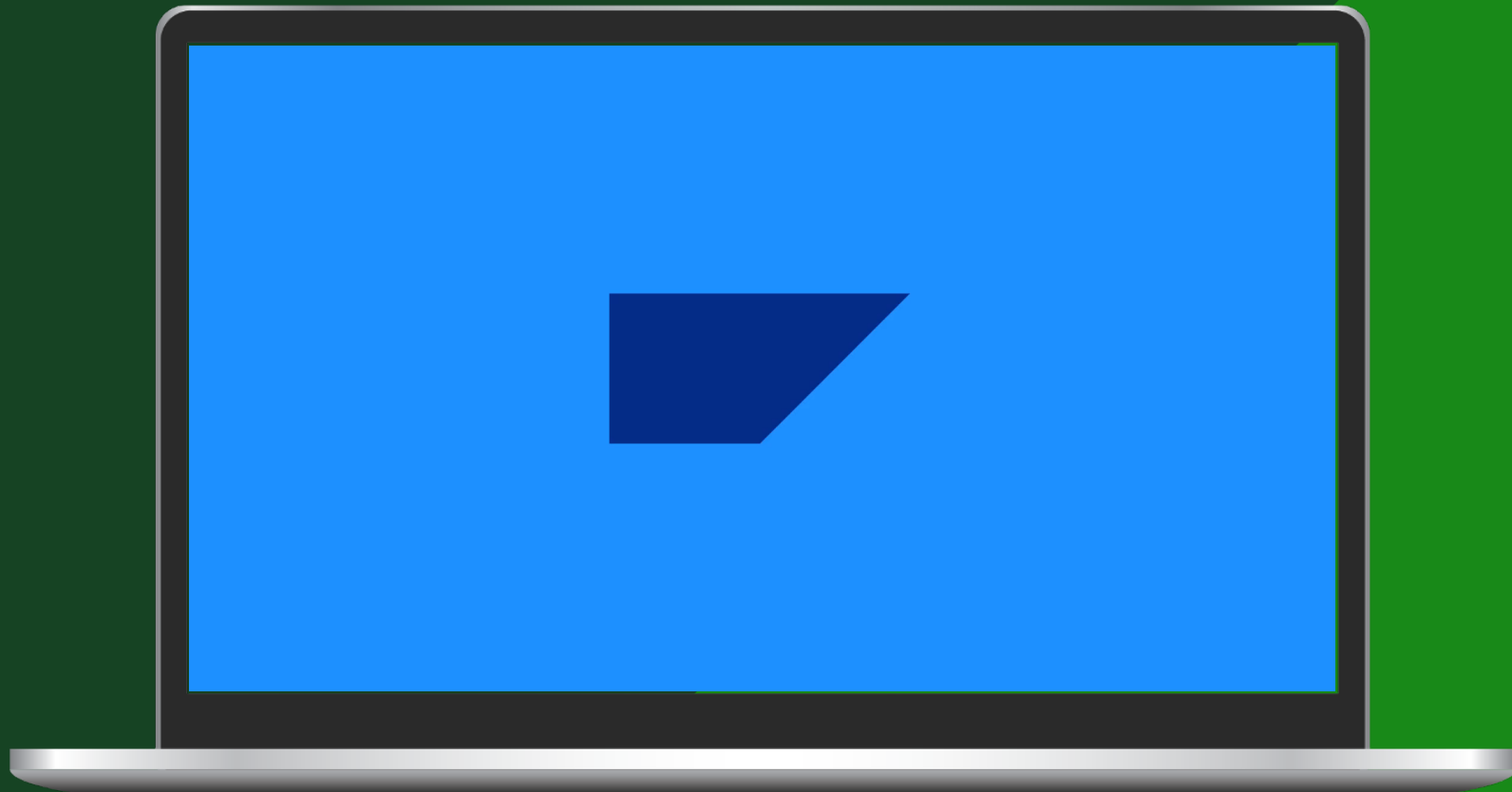
SAP Sustainability Data Exchange

Achieve carbon neutral supply chains by sharing and enabling carbon footprint calculations

- 1 Record:**
Standardized exchange of carbon emissions
 - **Ease of exchange** of Scope 3 supplier emissions to improve business and climate action setting goals.
 - **Transparent value chains:** Enable accumulation and sharing of actual product carbon footprints in the supply chain (scope 3).
 - **Integration with SAP Sustainability Footprint Management:** Create higher precision in CO₂ product life cycle assessments.
- 2 Report:**
Uniform reporting and accounting standards
 - **Improved** interoperability to make auditable, trusted decisions on climate action.
 - **Standard** data models and workflow based on BOM helps to exchange information seamlessly and confidentially.
- 3 Act:**
Comparable and transparent reporting addresses increased scope
 - Collective action through consistent supplier data sharing improves decarbonization efforts and accelerates climate action.
 - Accelerating Net-Zero goals: Identify products or processes with high potential for CO₂ reduction and optimization scenarios.

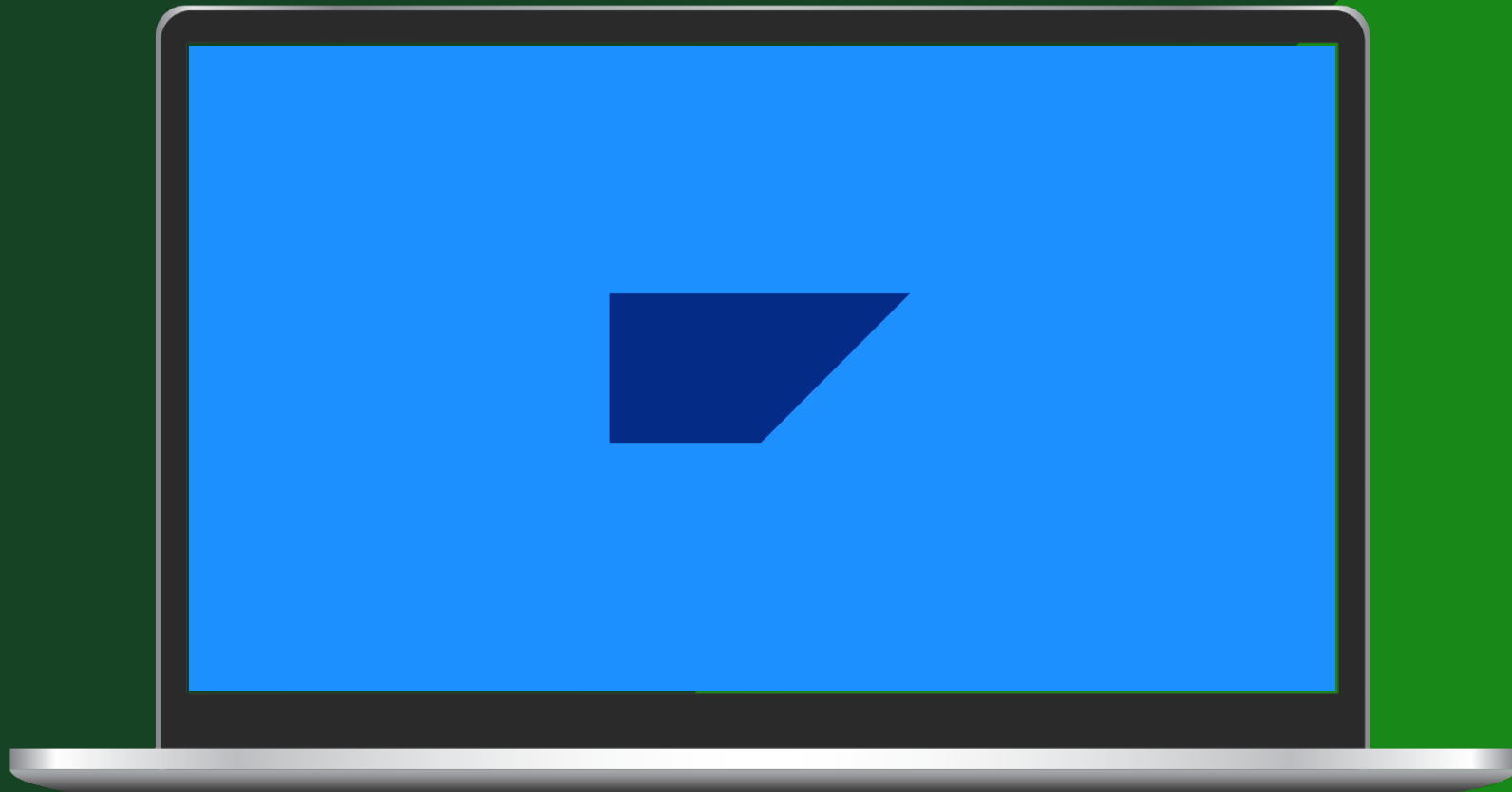


Request and Share Accurate Product Carbon Footprint Data across your supply chain for a clear, actionable picture

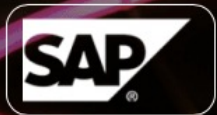


Manage Current Product Carbon Footprint Data

to create a comprehensive picture of product carbon footprints



WITTE AUTOMOTIVE Leads the Way in Supply Chain Decarbonization with Catena-X Network, Empowered by SAP Sustainability Solutions



Leading the way in effective supply chain decarbonization through standardized PCF data sharing

To meet the need for standardised sustainability practices, WITTE Automotive has implemented advanced solutions with SAP and can calculate its PCF according to the Catena-X framework.

[Learn more](#)

3-5x

more efficient calculation* compared to manual, excel-based method (*with interface to ERP system)

+10T €

Savings per PCF calculation compared to hiring external calculation experts

- ✓ Automated data flow from the S/4HANA ERP system
- ✓ SAP Sustainability Data Exchange enables seamless management and exchange of PCF data

Start your Catena-X journey now with SAP Sustainability Data Exchange!

SAP commitment to Catena-X

- SAP as founding member of Catena-X has a high commitment
- Actively involved in the Catena-X e.V. and Catena-X NEXT
- **SAP as leading provider of Catena-X certified business applications, first Catena-X certified PCF calculator**
- Interoperability confirmed in official Catena-X E2E Test and multiple customer projects

Easy to consume

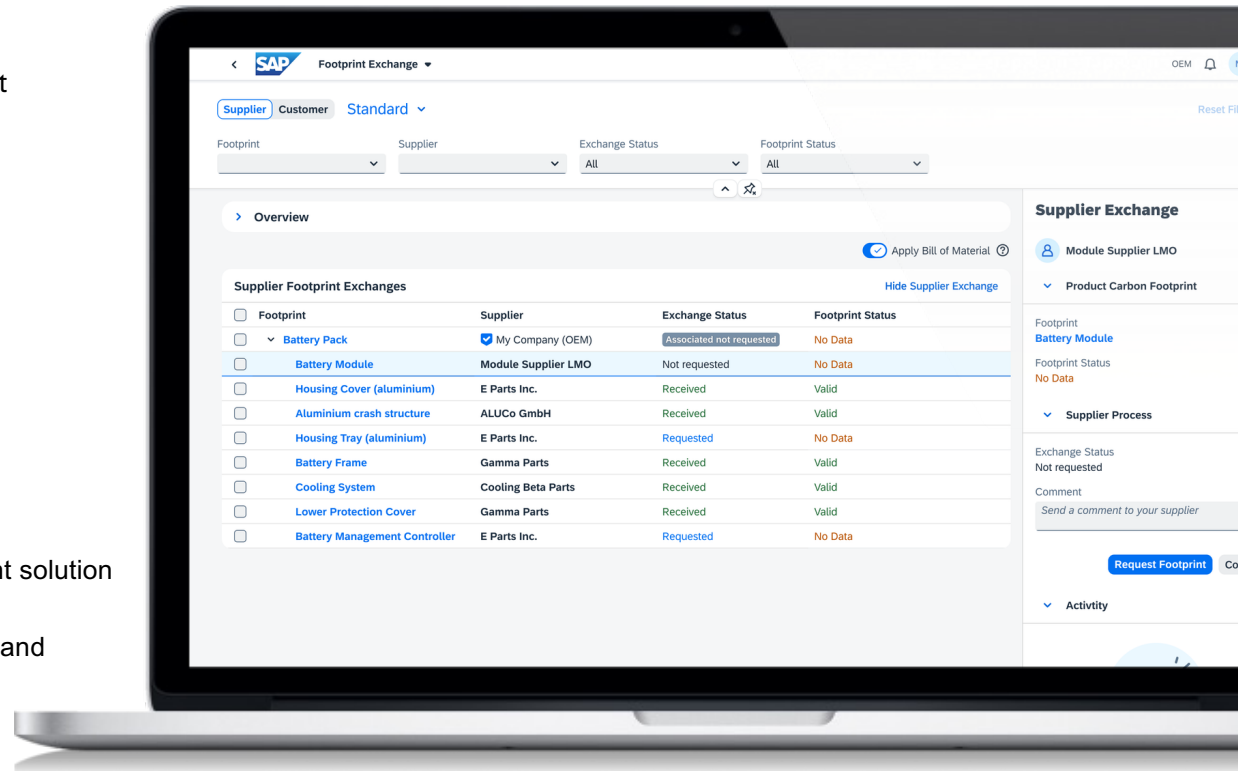
- SaaS application
- PACT conformant solution
- No installation required & quick setup

Multiple integration options

- Integration with the SAP Sustainability Footprint Management solution
- Plug-in solution for SAP IS DSI (Data Space Integration)
- Flexible Usage: Integrated - either with SAP S/4 (or custom) and Standalone - no SAP ERP like R/3 or S/4

Fast time to value

- Start small with a PoC to quickly experience the value of Catena-X with SDX and scale up.
- Get access to your 30-day basic trial experience





Thank you.

Contact information:

Nadine Kanja
nadine.kanja@sap.com



Siemens - SiGreen

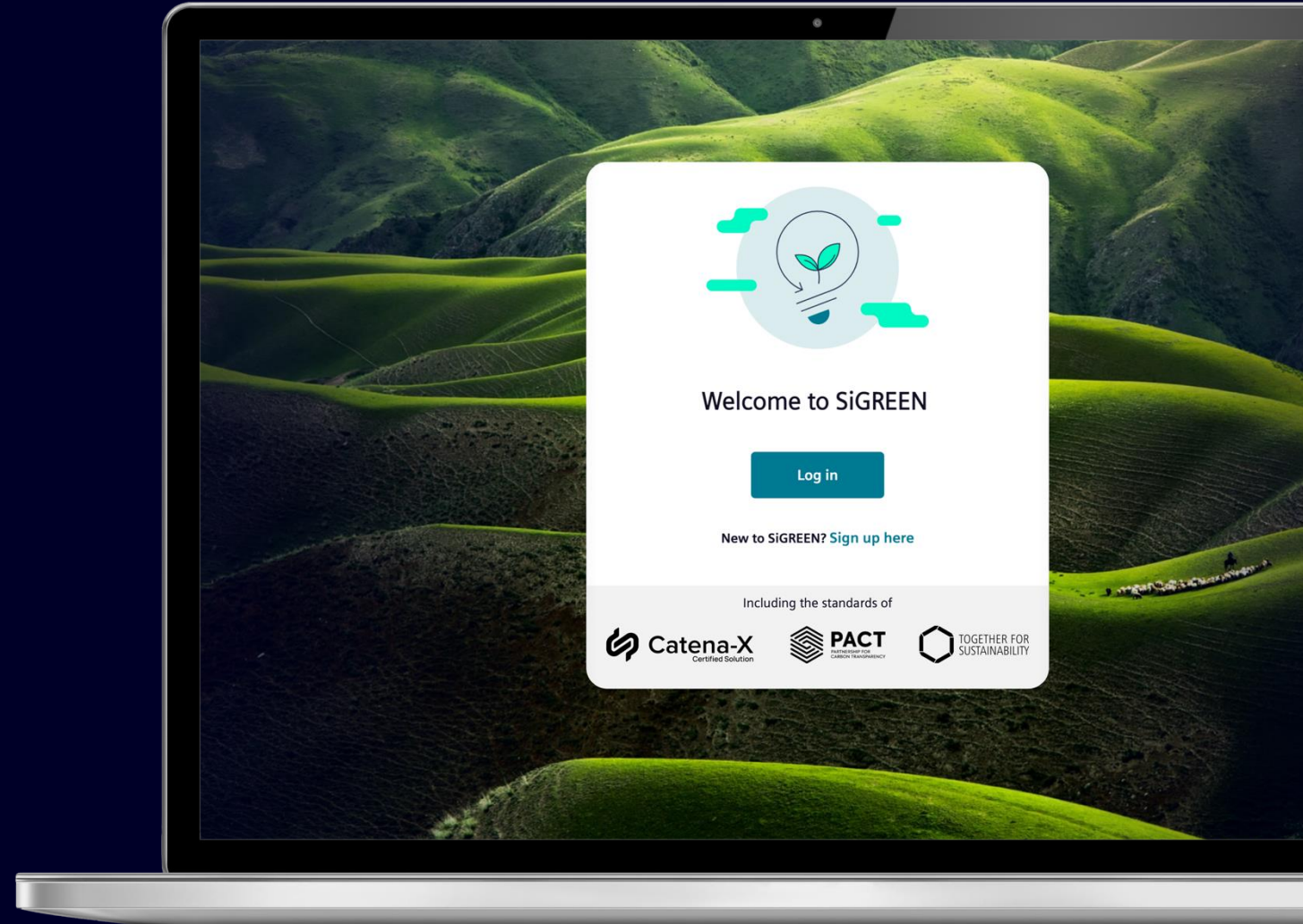
Q&A Poll





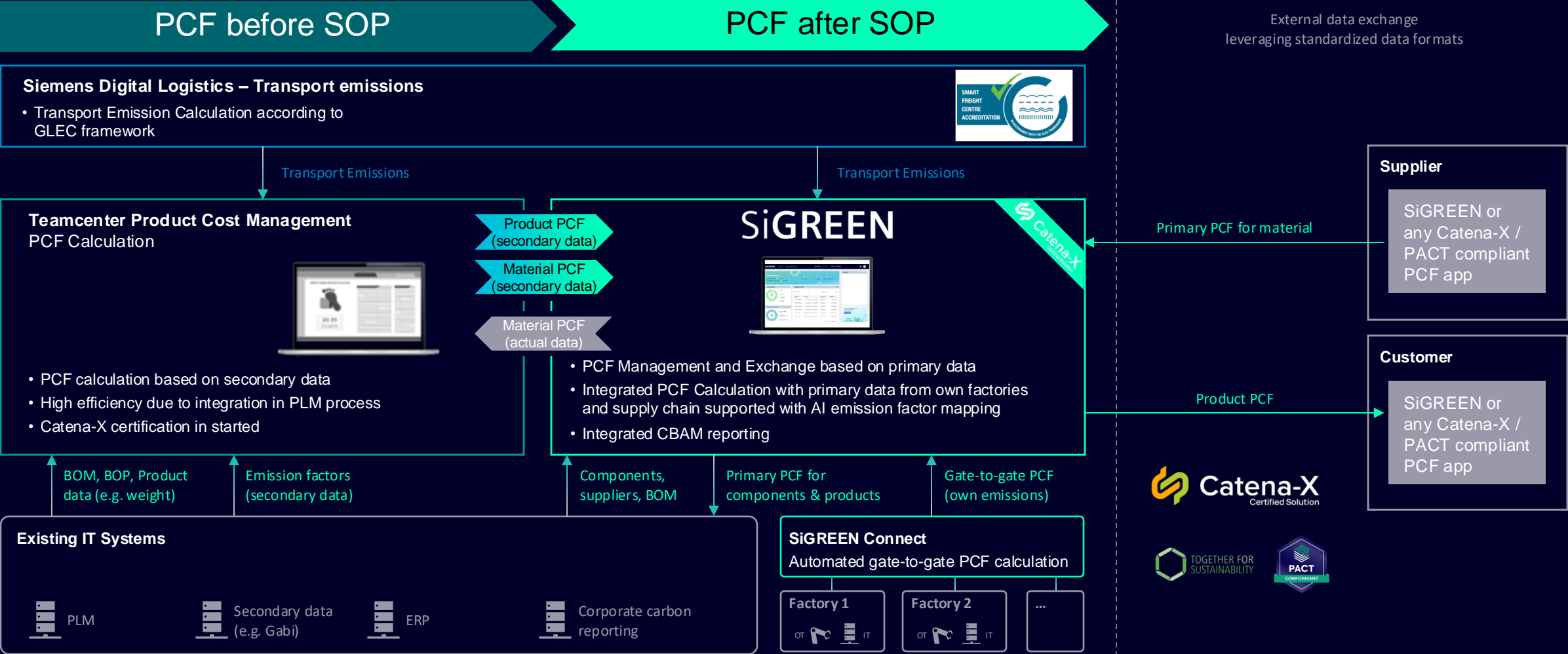
SiGREEN

Dynamic Product Carbon Footprints



Siemens offers PCF Exchange and Calculation with connection to Catena-X

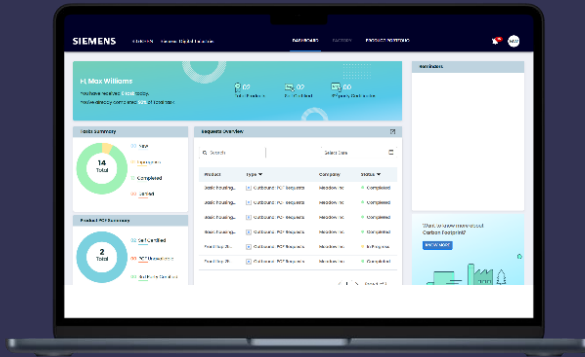
Siemens solutions are integrated via APIs into customer IT



Integrated Catena-X and EDC services

Easy access to Catena-X with full connectivity-as-a-service including EDC

SiGREEN



Gain access to

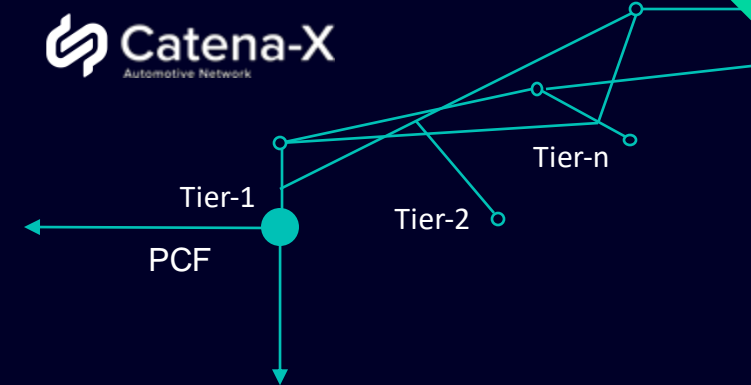
- Catena-X certified PCF Application
- Catena-X data model
- Catena-X related user support e.g., Catena-X PCF rulebook access
- Connectivity to PCF calculation tools
- EDC & full connectivity-as-a-service
- Custom connectivity



Option 1

SiGREEN-integrated full connectivity-as-a-service

- Connect to Catena-X in 1 day
- No implementation cost and no IT project required



Option 2

Custom Connectivity

APIs to connect services e.g., EDC or Digital Twin Registry



Customer operated Catena-X operating system



Website

siemens.com/sigreen



Demo

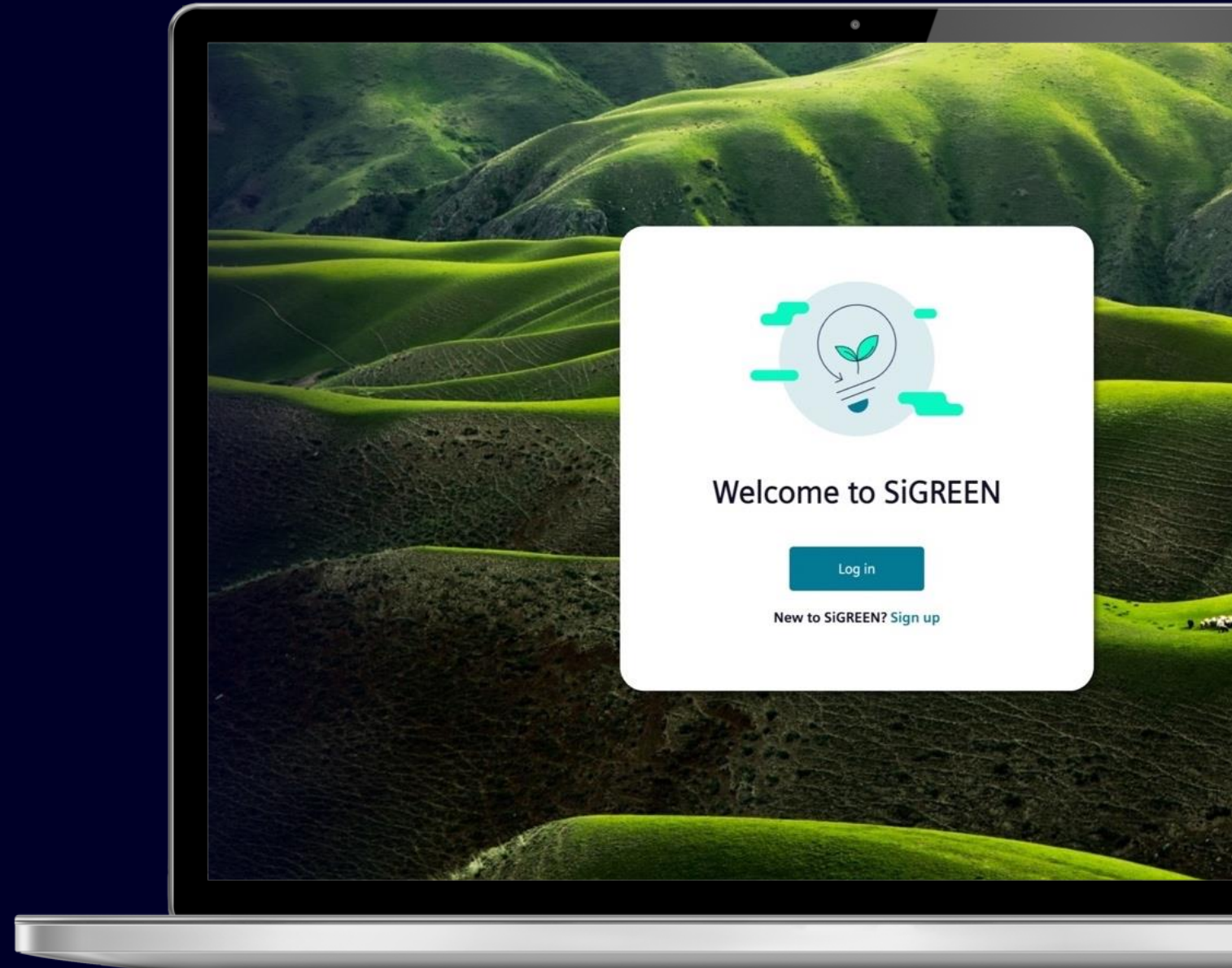
<https://app-demo-ext.sigreen-playground.siemens.cloud/>

Get started

app.sigreen.siemens.com

Your contact

albrecht.florian@siemens.com



Disclaimer

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SiGREEN

Siemens SiGREEN PCF Management



Our expertise: Full-featured PCF management including CBAM reporting with support of the whole product lifecycle from development to production

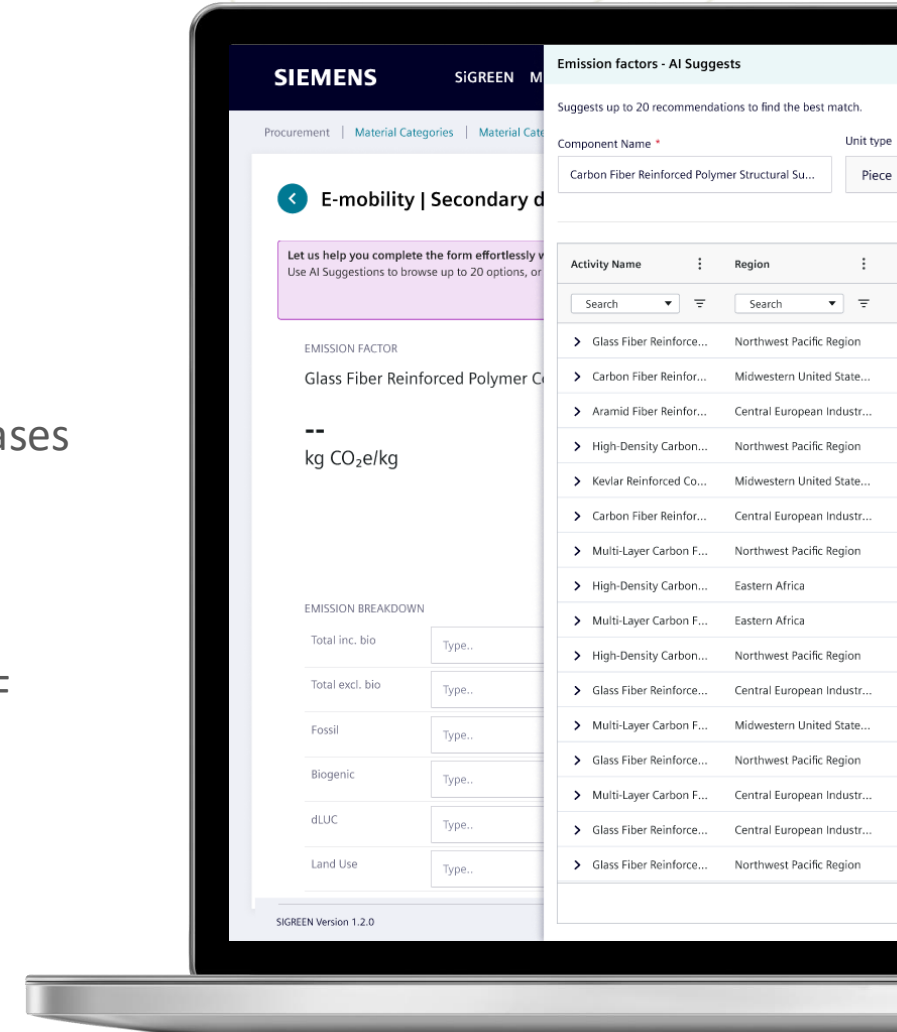
Our target group: OEMs and suppliers of all industries

Our features:

- ✓ Comprehensive PCF Management: Request, calculate, and share PCF
- ✓ Integrated PCF Calculation supported with AI and access to emission databases
- ✓ Automated gate-to-gate PCF calculations based on factory data
- ✓ Easily up-/download data via Excel or APIs to ERP, PLM, and third-party calculation tools
- ✓ Connect to our advanced PCF calculation based on Teamcenter PCM for PCF Management supporting the full product lifecycle (also before SOP)
- ✓ Integrated EDC: connect to Catena-X in 24h, no implementation project, no technical enablement provider needed
- ✓ Further PCF networks: PACT and Together for Sustainability

Link: www.siemens.com/SiGREEN

App: app.sigreen.siemens.com





T-Systems – Connect & Integrate

Q&A Poll



Next-generation PCF solution

For large enterprises and SMEs

April 7th, 2025 | Catena-X Pitch Session |

Michaela Drost



Magenta Automotive, your leading partner for Catena-X

Automotive's N° 1

#1 Service IT provider in DACH
#1 In the IT Germany Automotive sector for 12 years in a row

Dataspace market leader

10 years of thought leadership.
Founding member of Catena-X,
Manufacturing-X and Gaia-X.
IDSA board member



Grow with us, longterm

Flexible upgrades
One solution for all your use cases
Special packages for SMEs

Complete dataspace portfolio

Onboarding Consulting
Technical Enablement
Dataspaces aaS
Gaia-X Clearing House
Data products

Top security

Cloud flexibility



16 ultra secure data centers
TISAX 3 certification
Sovereignty+ Options

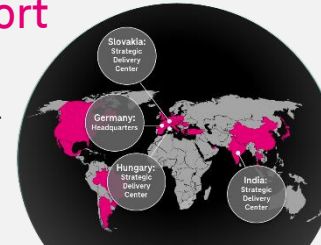
The biggest Catena-X certified team

Over 30 qualified advisors
End-2-end qualified solutions



Global Delivery, 24/7 support

Standardized and individual



Visit our website!

dih_sales@telekom.de

100+

Organizations onboarded and empowered with dataspaces

20+

Countries with active data exchange customers & apps

85%

Faster onboarding through standardization & automation

99.9%

Uptime for all solutions over last 12-month period

Some of our customers



Use case example | PCF



Reduce CO₂ footprint



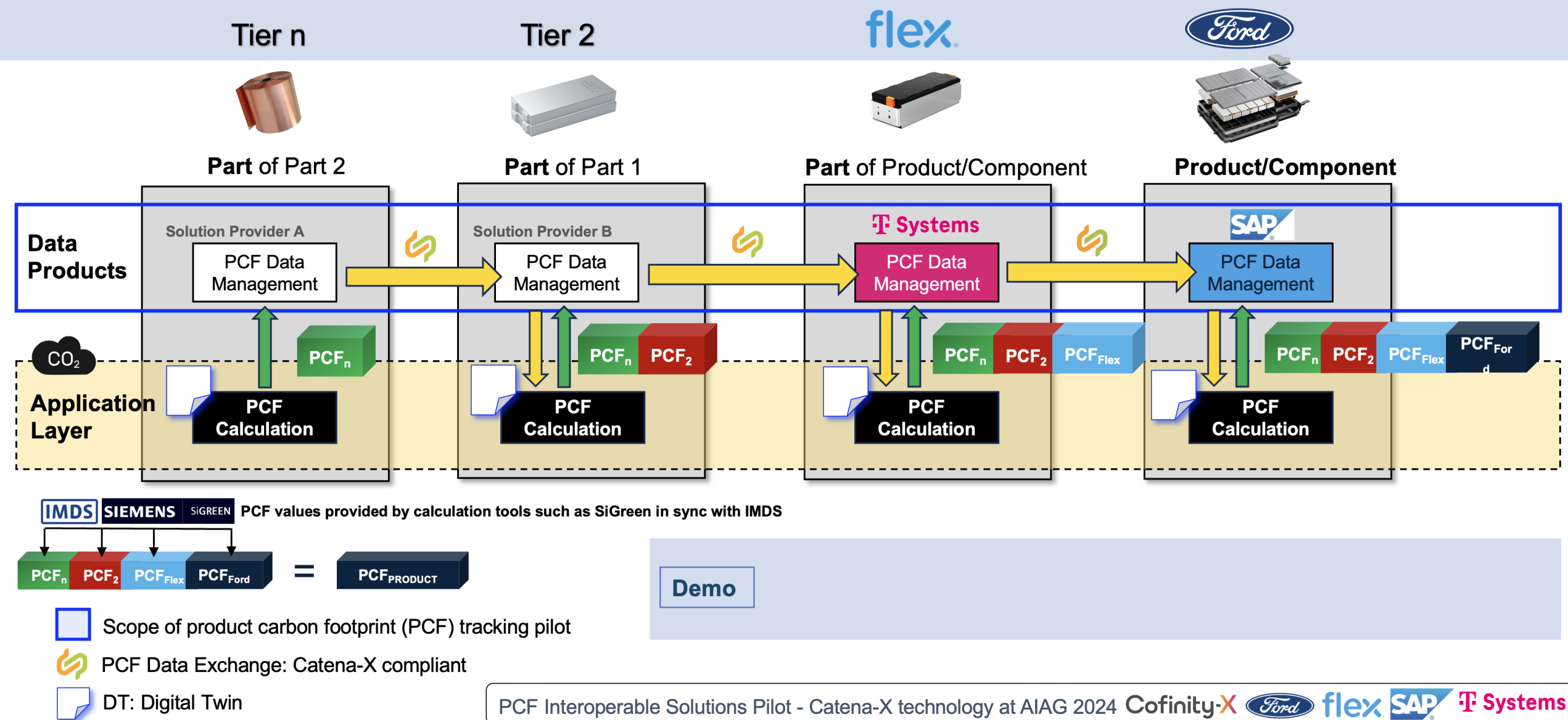
Part 1:
Scope 3 data exchange



Part 2:
PCF Calculation (app)

Compliance,
e.g., IFRS S1,
S2

Data Chain: Solutions' Interoperability Focus



We realize your PCF use case from start to finish, worldwide



Onboarding Consulting

Package S
10 h /
1.500€

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

Free

From 49€/month

Seamless data exchange with a multi-certified **Connect & Integrate** solution. One connector for all use cases. In the cloud of your choice. High-performance Digital Twin registry by  **BOSCH**



Catena-X Sandbox Provider

From
€500/month

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



Official DOS NOVA Reseller

According to
the Cofinity-X
price list

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

Partnership with
Cofinity-X

Our USP: One interoperable solution for small & large companies



Trustful

Deutsche Telekom's **independent** and **secure** global network for our services and solutions to enable **trustful data sharing**



Plug & Play / 1-for-all

Easy, user-friendly products for quick onboarding; for any company size; can accommodate different use cases (PCF, Traceability, DCM...)

Cloud Agnostic

The application runs on any cloud and/or on-prem; Sovereign Clouds available



Complete PCF solution

Secure, Catena-X certified **peer-to-peer** communication; **end-to-end semantics**

Managed Services with 24/7 options

Deutsche Telekom powered managed services and support infrastructure with **highest security** and **compliance** standards



Multiply certified

Catena-X full- service provider, IDSA & GAIA-X compliant



The Telekom Advantage

- ✓ Easy & quick automated setup
- ✓ Deployed in minutes on any cloud
- ✓ No coding skills and IT know-how
- ✓ Out-of-the box or personalized onboarding assistance & support
- ✓ Flexible contracts, individual pricing
- ✓ Access to extensive knowledgebase, FAQs, demos, tutorials and more
- ✓ Access to large partnership network

SPECIAL OFFER
Until Apr 30th, 2025
Free access to
Catena-X Sandbox²
50% off annual
subscriptions³ and
workshop⁴

AN EXCLUSIVE OFFER FROM T-SYSTEMS

Free access to our Catena-X Sandbox²

50% off your annual subscriptions³ and workshop⁴



[Visit our website!](#)

dih_sales@telekom.de

¹Information and conditions – This offer is only valid for business customers. All prices are exclusive of VAT and any travel expenses and will be calculated as applicable. This document is for informational purposes only and does not constitute a binding offer. If you are interested, we will be happy to send you the corresponding contract documents. It also lists the exact contents of the service and the specific conditions. ²First come first served, limited to first 10 pioneers. Validity for 3 months. ³Minimum contract term for this offer is 2 years and paid upfront and 50% off is applied to 2nd year costs. ⁴5k€ instead of 10k€/2 Days.

T Systems



Connect & Integrate | Dataspace participation in minutes

The Telekom Advantage

- ✓ Easy & quick automated setup
- ✓ Multi-use-case: PCF, Traceability, DCM
- ✓ Deployed in minutes on any cloud
- ✓ Ready to use and out-of-the-box dataspace bundles for Catena-X
- ✓ No coding skills and IT know-how
- ✓ E-2-E data sovereignty with Google sovereign cloud (add-on)
- ✓ Flexible contracts, individual pricing
- ✓ Enhanced service by Telekom
- ✓ Personalized onboarding assistance & support
- ✓ Access to extensive knowledgebase, FAQs, demos, tutorials and more



[Visit our website!](#)

Next steps | Contact us!



[Visit our website!](#)

dih_sales@telekom.de



**Michaela
Drost**

Lead Catena-X Sales Managerin &
Dataspace Consultant
+49 171 331 3691
michaela.drost@t-systems.com



**Sven
Löffler**

Portfolio Lead
Dataspaces & Data Products
+49 170 9285736
sven.loeffler@t-systems.com

Thank you!

 T Systems





4. Q & A

slido

Please download and install the Slido app
on all computers you use



Audience Q&A

① Start presenting to display the audience questions on this slide.



5. Summary and Wrap-Up



Want to learn more?





The **PCF Exchange KIT** on Tractus-X ...

-  To **understand fundamentals** of the PCF Use Case
-  To find goals and **metrics for Use Case adoption**





The **Cofinity-X Marketplace** ...

-  Where to **find the certified APPs** and start PCF sharing
-  Where to **reach out** to the APP providers



The **Catena-X Association** ...

-  To **build & govern** the data eco-system with us
-  Where to get in touch and **register for the Information Webinar**



App Provider vCard Contacts



Nicole Roik

Principal Account Technical
Leader, Executive IT Architect
IBM



Michaela Drost

Senior Dataspace Consultant,
European Markets
T-Systems



Thomas Kiciak

Solution Head of SAP Industry
Network for Automotive and
Catena-X
BASF



Nadine Kanja

Solution Head of SAP Industry
Network for Automotive and
Catena-X
SAP SE



Dr. Florian Albrecht

Director Automotive and Data
Ecosystems, Foundational
Technologies
Siemens AG



Reach out to the presenters and App providers on the Marketplace **directly** to receive a quote.



End of Session

Catena-X Automotive Network e.V.

Reinhardtstraße 58
10117 Berlin

info@catena-x.net

<https://catena-x.net/en/>

