

# Collecting Scope 3 Product Carbon Footprint data via the IMDS

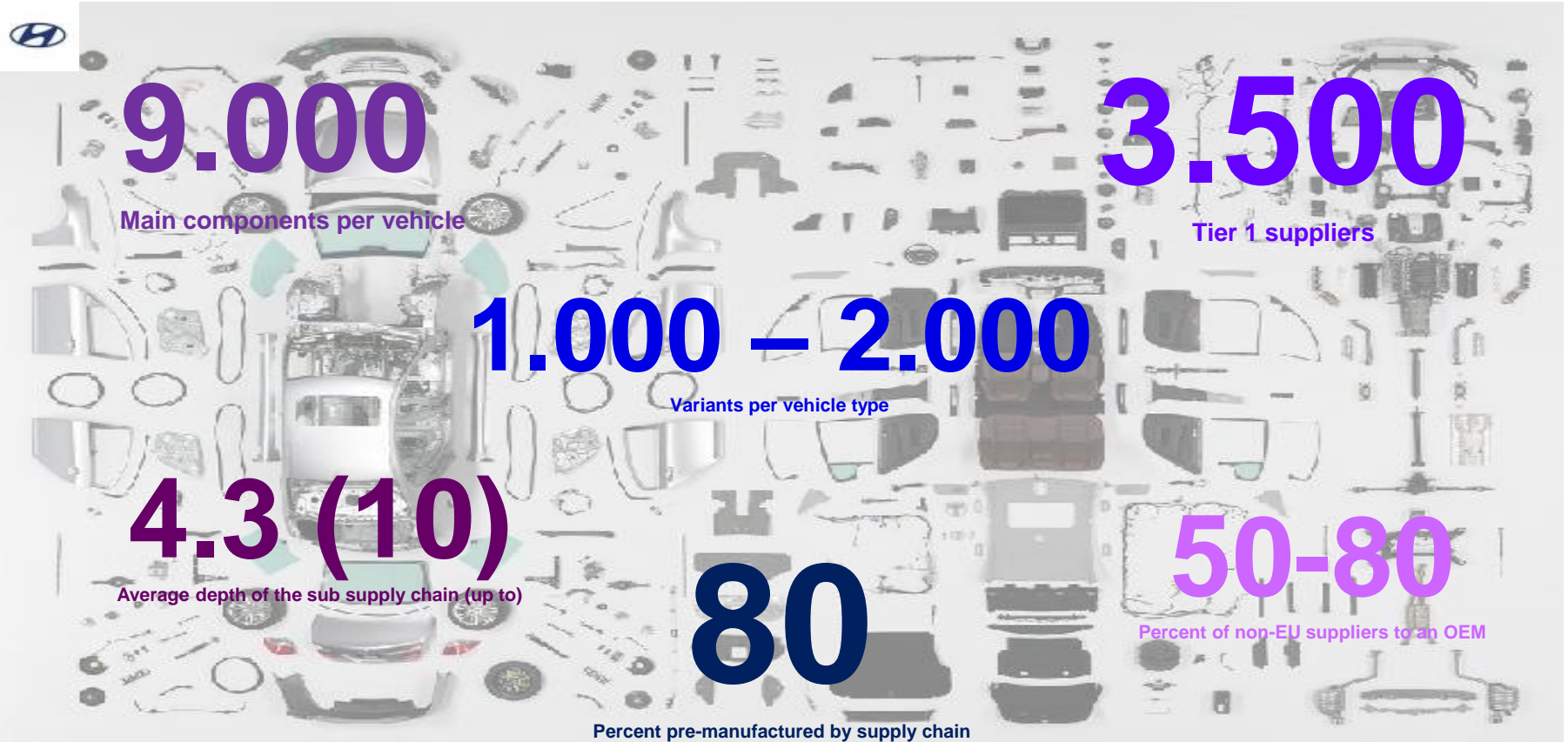
Timo Unger & Oliver Schmid  
Hyundai Motor Europe TC on behalf of the IMDS Steering Committee

# IMDS

## International Material Data System

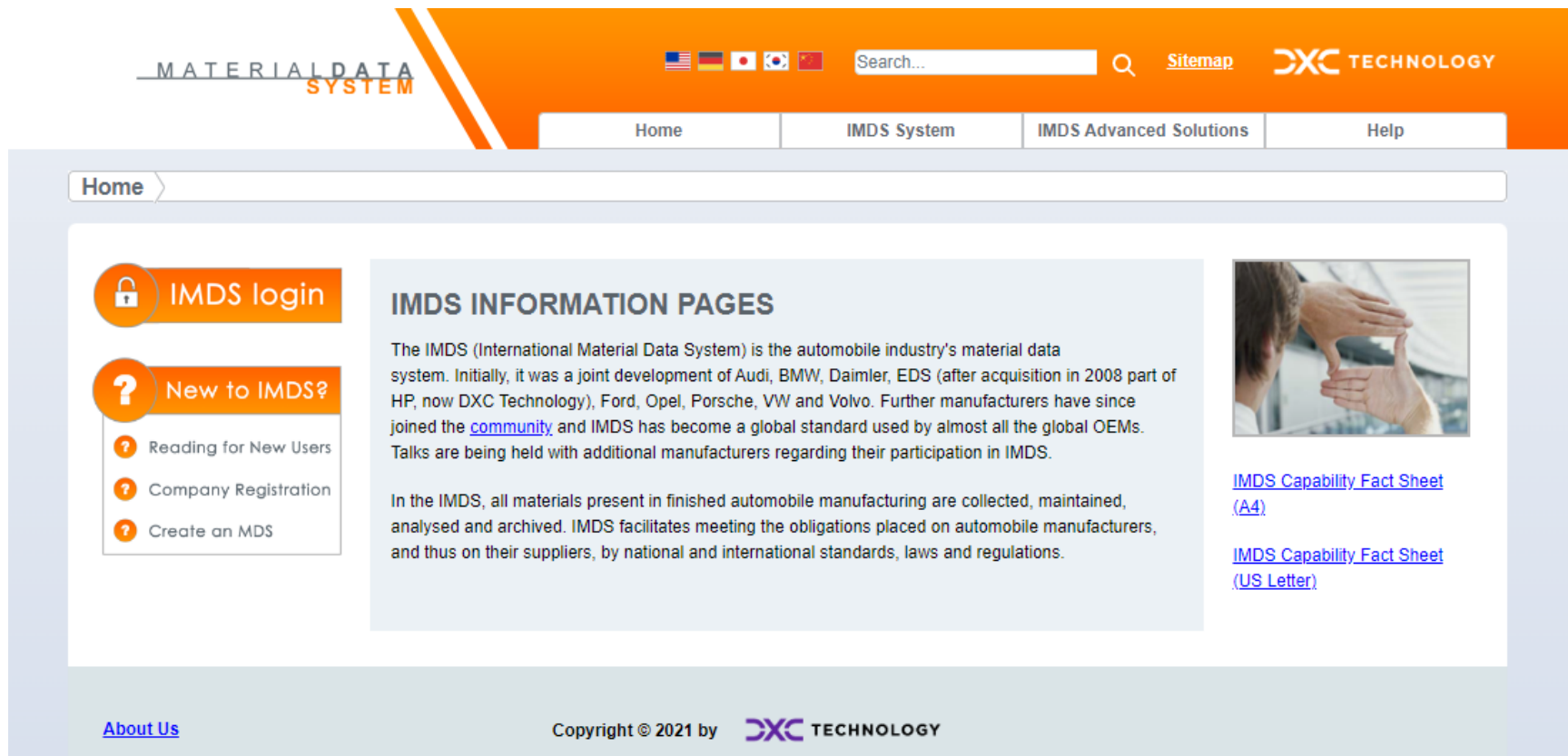
The System

# The complexity of supply chains and resulting business is still totally underestimated.





[www.mdssystem.com](http://www.mdssystem.com)



The screenshot shows the homepage of the IMDS website. At the top, there is a navigation bar with the 'MATERIAL DATA SYSTEM' logo on the left, a search bar in the center, and 'Sitemap' and 'DXC TECHNOLOGY' on the right. Below the search bar is a horizontal menu with 'Home', 'IMDS System', 'IMDS Advanced Solutions', and 'Help'. The main content area features a 'Home' breadcrumb, a sidebar with 'IMDS login' and 'New to IMDS?' (including links for 'Reading for New Users', 'Company Registration', and 'Create an MDS'), and a central section titled 'IMDS INFORMATION PAGES'. This section contains a paragraph about the system's history and a paragraph about its current use. To the right of the text is an image of two hands forming a square, with two links: 'IMDS Capability Fact Sheet (A4)' and 'IMDS Capability Fact Sheet (US Letter)'. The footer includes 'About Us', 'Copyright © 2021 by DXC TECHNOLOGY', and a page number '5'.

MATERIAL DATA  
SYSTEM



Search...



Sitemap

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Home

IMDS System

IMDS Advanced Solutions

Help

Home



IMDS login



New to IMDS?



Reading for New Users



Company Registration



Create an MDS

## IMDS INFORMATION PAGES

The IMDS (International Material Data System) is the automobile industry's material data system. Initially, it was a joint development of Audi, BMW, Daimler, EDS (after acquisition in 2008 part of HP, now DXC Technology), Ford, Opel, Porsche, VW and Volvo. Further manufacturers have since joined the [community](#) and IMDS has become a global standard used by almost all the global OEMs. Talks are being held with additional manufacturers regarding their participation in IMDS.

In the IMDS, all materials present in finished automobile manufacturing are collected, maintained, analysed and archived. IMDS facilitates meeting the obligations placed on automobile manufacturers, and thus on their suppliers, by national and international standards, laws and regulations.

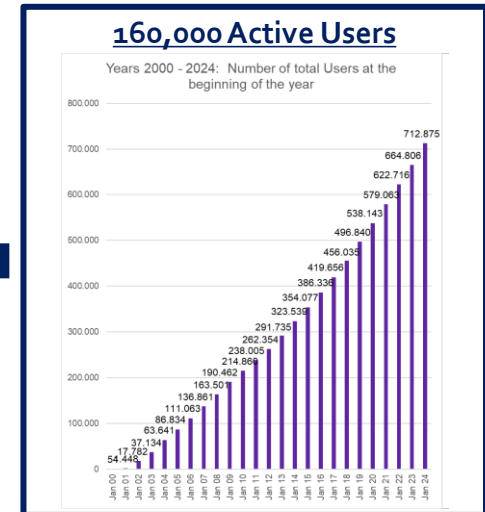
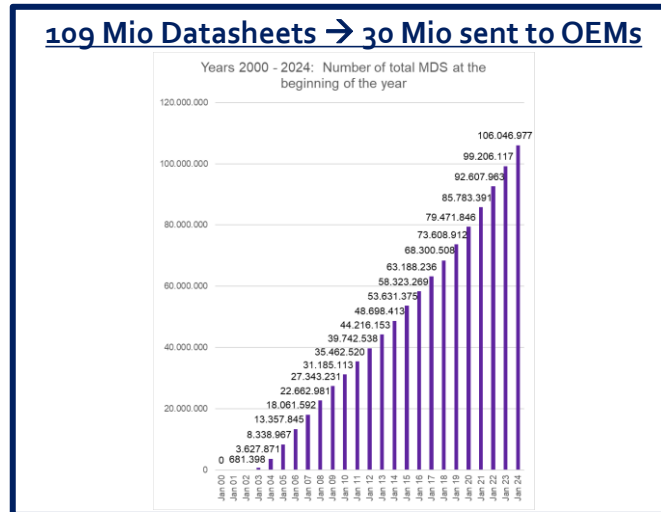
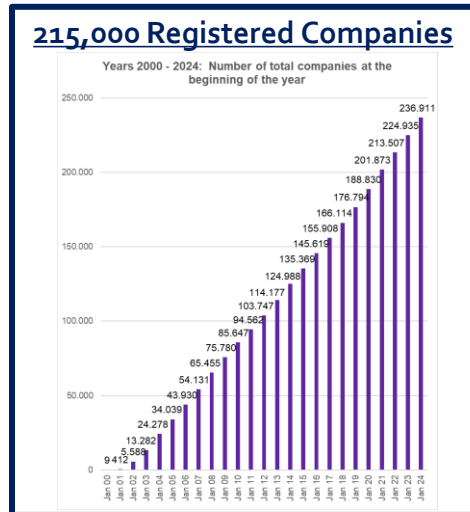
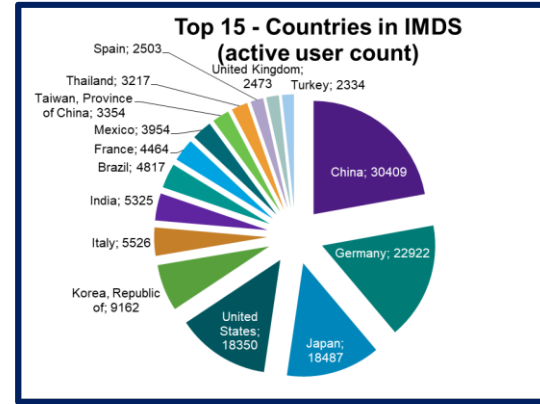
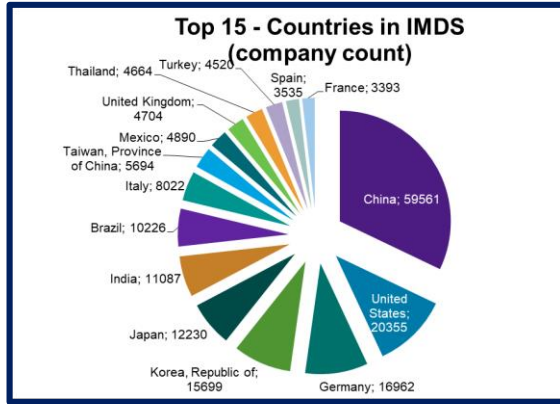


[IMDS Capability Fact Sheet \(A4\)](#)

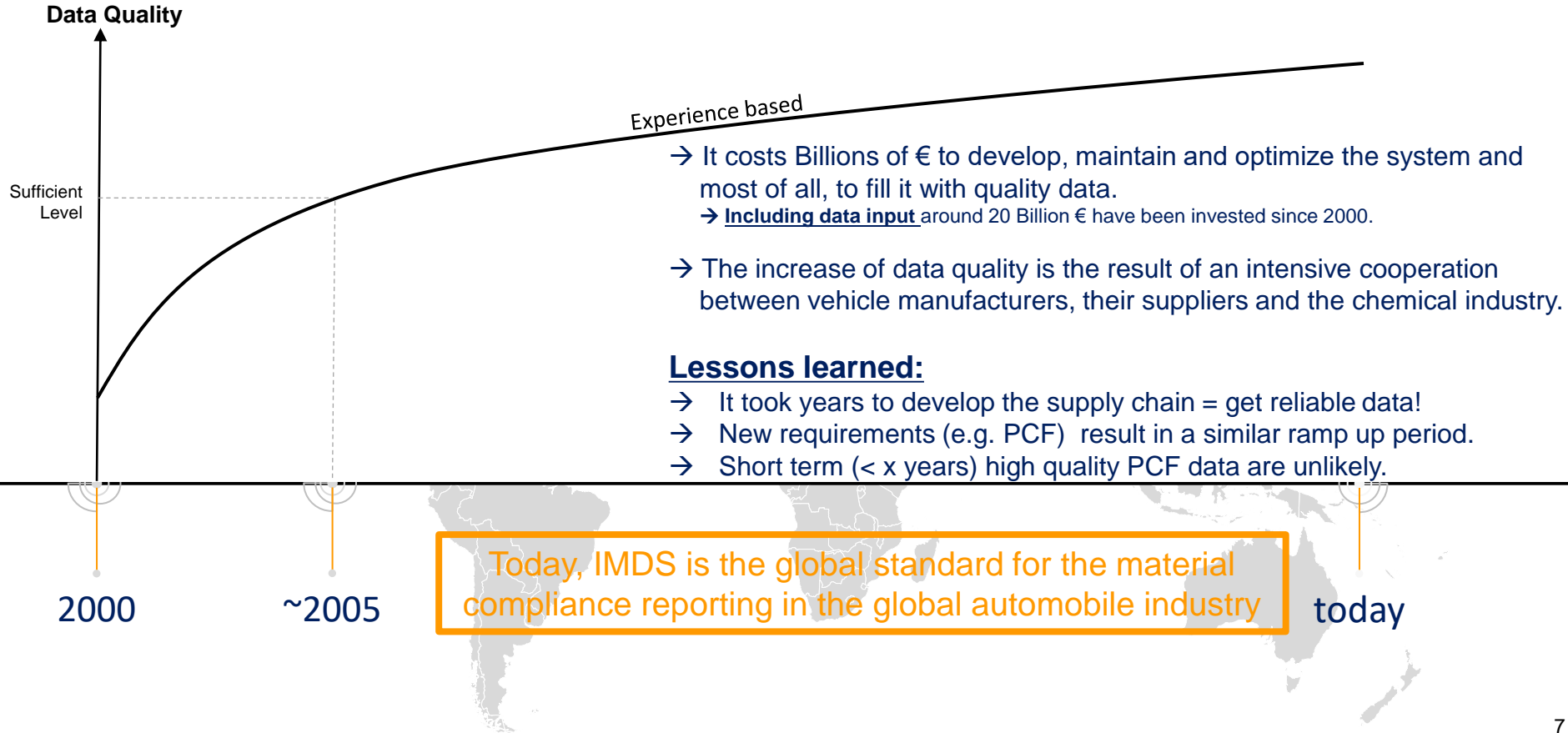
[IMDS Capability Fact Sheet \(US Letter\)](#)

# IMDS – Truly global & impressive

## Status July 2024

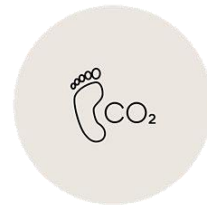


# IMDS – A growing community for 24 years



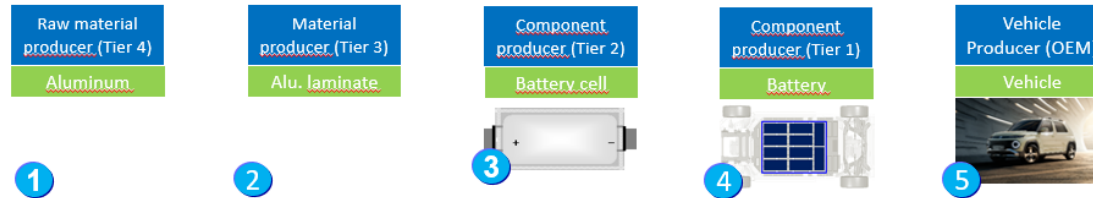
# Product Carbon Footprint in IMDS

The next step



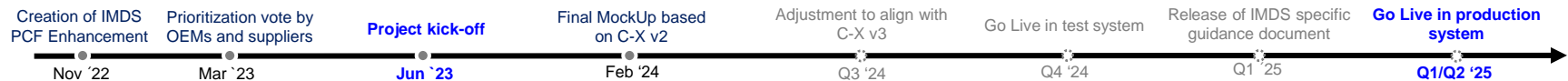


- The global automotive industry (OEMs & Suppliers) collectively voted to include PCF reporting in IMDS
  - Joint project of the IMDS SC together with AIAG, CLEPA, JAPIA & DXC
- **Basic principle: Bottom-up reporting of calculated PCFs and not of raw data.**



- PCF calculation rules are defined in the **Catena-X Rulebook V3** and further explained in existing and upcoming guidance document(s)
  - The **Catena-X Rulebook** was selected after reviewing several rulebooks

## • Timeline:



MDS - MATERIAL DATA SYSTEM

Production Site: Update to Org.-Unit

Region: Europe

Country: [ ]

Subdivision: [ ] Zip Code: [ ]

DUNS No. [ ]

PCF Contact: Last name, First name

E-Mail: first.last@company.com

Telephone No.: +1234567890

Standards and Certification

Version: Editable version

**Product Carbon Footprint**

PCF per location

Region	Country	Zip Code	Total PCF	Time Period	DQR
Global	-	-	5.5 kg	01.01.23 – 31.12.23	2
EU	Germany	12345	4.8 kg	01.06.22 – 01.06.23	3

**Product Carbon Footprint**

PCF of referenced MDSs 20.2 kg CO<sub>2</sub>e / component (94% w/w defined)

PCF Total (excluding biogenic): 50.5 kg CO<sub>2</sub>e / component

Time period: 01/01/2023 - 12/31/2023

DQR: 1.8

PDS: 81.2 %

Exempted emissions: 1.5 %

Exempted emissions description: [ ]

> Detailed GHG emissions

> Carbon Content

Release Apply Cancel

**Product Carbon Footprint**

Outbound Transport CF

Region	Country	Zip Code	Outbound Transport CF
Global	-	-	3.0 kg, transport partially included
EU	Germany	12345	2.0 kg, inbound gate (full transport covered)

Draft Mock-up as of Feb 2024

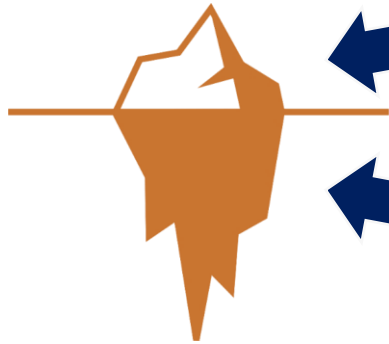
- Detailed PCF calculation is done outside of IMDS
- A single PCF value can not stand on its own  
→ Additional values / information are needed!
- Specific PCFs can be reported per production location and customer, including transport



- **Total PCF:** cradle-to-gate, aggregated PCF value including supplier component PCFs, inhouse processes, waste and so on
- **DQR:** Data Quality Rating, indicator for the „correctness“ of the PCF data set
- **PDS:** Primary Data Share, indicator for the usage of primary data
- **Certification:** Details about certification / verification of the Total PCF and supporting information

- **The automotive industry is pushing for harmonised global supply chain PCF reporting**
- **Current main reporting activities (IMDS and Catena-X) are based on the Catena-X Rulebook and on aligned sectorial rulebooks**
  - **This already has resulted in a de-facto standardization, including alignment with other sector standards (TfS, Worldsteel, IAI/EA)**
  - **The tools and processes are already adopted towards these standards**
  - **Suppliers will (have to) start the reporting soon**
  - **Any deviation from this standard will likely result in a major delay in the achievement of the sectors carbon neutrality targets**

- **Still a long way to go to enable/educate the supply chain, even if reporting systems are established**



**Having a reporting system is at most 30 percent of the job!**

**Harmonized rules and especially enabling the supply chain is at least 70 percent of the job!**

- **We still have to utilize (high quality) secondary data sets**