

A guideline for  
**calculating and reporting**  
on automotive supply chain emissions

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neak peek

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*hank you!*

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# ISO 14083:2023

## Greenhouse gases — Quantification and reporting of greenhouse gas emissions arising from transport chain operations

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### ISO 14083 on carbon accounting for logistics published .

ECG — 2023-04-03

[News from ECG](#)

ISO 14083

(...) guidance for the  
quantification, assignment, allocation  
and reporting  
of greenhouse gas (GHG) emissions for  
transport chains for passengers and  
freight (...)

ISO 14083

All modes of transport  
Consistency = comparability  
Empty trips

transport  
chain  
operation?



assignment?

allocation?

transport  
chain  
element?

primary  
data?

default  
data?

project



### Cross-industry partnership to create the first standard methodology for automotive supply chain emissions calculation and reporting

- ECG, VDA and other OEMs will develop the first methodology to calculate and report on automotive supply chain emissions
- The methodology will be based on the upcoming ISO 14083 standard
- It will be published in Q3 2023

Brussels and Berlin, Wednesday, 15 March 2023

key objective

INBOUND &  
OUTBOUND

Development of a supply chain **CO<sub>2</sub>e-emission reporting** guideline for the **European automotive industry** as an industry **tailored addition to ISO 14083**, applicable for all stakeholders of the automotive supply chain



**Requirements and white spots** for automotive supply chain processes

Joint **decision** for the automotive process specific application

deliverables

Functional requirements for the **implementation** of an outbound calculation software tool

**Automotive specific guideline** (add-on as an addition to ISO 14083)

participants

## OEMs

BMW, Ford, Mercedes-Benz,  
Volkswagen GL, Toyota, Nissan,  
JLR

## Outbound LSPs



## Tier1 suppliers

Bosch, Schaeffler, Kirchhoff  
and Dräxlmaier

## Inbound LSPs



Supported by



In co-operation with

project  
organisation  
& tentative  
timeline

**9 working groups jointly staffed** by industry, inbound and outbound LSP representatives, **coordinated by an overall Steering Committee and PM organization**

**FEB 2023 – Q3 2023**

# working groups

## Overall strategic & conceptual working groups

**WG 1: Validation, Auditing, Reporting and Development Roadmap**

**WG 2: Automotive process model, reporting scope and system boundaries**

**WG 3: Transport Operation Category principles & framework**

**WG 4: Emission allocation principles & framework**

## Mode of Transport specific working groups

**WG 5: Rail Transport**

**WG 6: Road Transport**

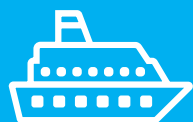
**WG 7: Sea Transport Ro-Ro**  
*(provided by ECG)*

## Consolidation working groups

**WG 8: Incorporation of external inputs & solutions**

**WG 9: Initial statements for non-focus MoTs**

Ro-Ro



## ECG “Ro-Ro” members

Alignment with main project

to develop a standard

**methodology for different vessels**

**type, fuel, size...**

# sneak peek

into some results so far

Minimum standard	From now on until end of 2024	Jan 2025 until end of 2026	from Jan 2027
<b>Transport operation category (TOC)</b>	default values (only differentiating those TOC-characteristics that are also reflected in the default values) <b>Update Frequency: yearly</b>	Modelled (reflecting all defined TOC-characteristics) <b>Update Frequency: quarterly</b>	Primary data based (reflecting all defined TOC-characteristics) <b>Update Frequency: quarterly</b>
<b>Transport chain element (TCE)</b>	Modelled distance and actual weight (or actual no. of loading units if applicable) on the individual shipment level. For all shipments, if actual weight or actual no. of loading units is not known, an average weight of shipment is possible	Modelled distance and actual weight (or actual no. of loading units if applicable) on the individual shipment level. For LTLs/LCLs, if actual weight or actual no. of loading units is not known, an average weight of shipment is possible	Modelled distance and actual weight (or actual no. of loading units if applicable) on the individual shipment level

WG No.	WG 1	WG 2	WG 3	WG 4	WG 5	WG 6	WG 7	WG 8	WG 9
<b>WG title</b>	Validation, Auditing, Reporting and Development Roadmap	Automotive process model, reporting scope and system boundaries	TOC principles & framework	Emission allocation principles & framework	Rail Transport	Road Transport	Sea Transport RoRo	Incorporation of external inputs & solutions	Initial statements for non-focus MoTs
<b>Resources &amp; Timeline</b>	Weekly workshops from feb. to mai	Monthly workshops from march. to july	bi-weekly workshops from feb. to mai	bi-weekly workshops from feb. to mai	Weekly / bi-weekly workshops from april to july	Weekly / bi-weekly workshops from april to july	see ECG / SFC project Plan	3 to 4 meetings in june and july	2 to 3 meetings in july
<b>TG type</b>	Overall strategic & conceptual	Overall strategic & conceptual	Overall strategic & conceptual	Overall strategic & conceptual	MoT specific	MoT specific	MoT specific	Consolidation	Consolidation
<b>WG lead</b>	Daniele Saba (VW GL)	Alison Cox (Ford)	Tobias Carlén (Axess)	Tobias Carlén (Axess)	tbd	Lutz Fricke (Mosolf) / Julian Fischer (BLG)	Outbound LSP	tbd	tbd
<b>WG members</b>	<ul style="list-style-type: none"> <li>▪ Laura Runkehl (VW GL)</li> <li>▪ Bert Borgions (TME)</li> <li>▪ Alvaro Farres Mira (TME)</li> <li>▪ Pierre Metzmacher (Kirchhoff)</li> <li>▪ Daniel Huelemeyer (Hellmann)</li> <li>▪ Tobias Carlen (Axess)</li> <li>▪ Andreea Serbu (ECG)</li> <li>▪ Sascha Gröbel (VDA)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Bert Borgions (TME)</li> <li>▪ Alvaro Farres Mira (TME)</li> <li>▪ Martin Schiessl (Dräxermaier)</li> <li>▪ Szymon Wadolowski / Heetae Jeong (Adampol)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Lars Ebigt (Ford)</li> <li>▪ Friedrich Zwätz (DB Cargo)</li> <li>▪ Nathan Gill / Leon Cleife (Nissan)</li> <li>▪ Aliekber Tazegul (Bosch)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Eike Ostendorf (Mercedes)</li> <li>▪ Anna Kalacheva (Groupe CAT)</li> <li>▪ Daniel Gent (UECC)</li> <li>▪ Friedrich Zwätz (DB Cargo)</li> <li>▪ Job Collet / Smrithi Sivaram (Nissan)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Juan Pedro Jorquera (Pecovasa)</li> <li>▪ Meike Friedrichs (DB Cargo)</li> <li>▪ Marc Metzger, BLG AutoRail</li> </ul>	<ul style="list-style-type: none"> <li>▪ Laurent Chauvin (Groupe CAT)</li> <li>▪ Marius Lukas Piesch (BMW)</li> <li>▪ Rupert Vivian / Mutassem Makmoud (JLR)</li> </ul>	<ul style="list-style-type: none"> <li>▪ see ECG / SFC project Organization</li> </ul>	<ul style="list-style-type: none"> <li>▪ tbd</li> </ul>	<ul style="list-style-type: none"> <li>▪ tbd</li> </ul>

*Thank you!*

# One industry One standard

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