



Carbon Footprint of Freight Transport

COFRET –
how the project is
contributing to the
Global standardization of the
carbon footprint calculation
of freight transport

Transport Research Board
93rd Annual Meeting
Washington, Jan. 2014



- **Motivation for a global CO₂ emission calculation standard**
- **Is a global standard in sight?**
- **COFRET and its contribution towards a global standardization**
- **What else is needed?**



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Motivation for a global CO₂ emission calculation standard



Motivation of Customer:

- Transparency of carbon footprint of product
- Transparency of carbon footprint of shipper

Motivation of Company:

- Reduction of costs
- Improvement of energy use efficiency
- Corporate's strategy and values
- Customers' expectations

CO₂ (e)
Calculation

Motivation of Governements

- Reduced environmental impact
- Reduced health expenses
- Improved sustainability of transport
- Reduced dependency on energy imports



- Approaches taken in the past were based on initiative of individual organizations and corporations
- wide range of different methodologies and tools are applied by various players, often focusing on a specific mode of transport
- different databases are used to calculate emissions
- various calculation tools apply different indicators and have different application scopes, often making comparison of the results impossible



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Is a global standard in sight?



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Towards a Common Approach

- **ISO 14064-1:2006**
considers company perspective including transport and logistics operations
- **Green House Gas Protocol Scope 3**
standard for the corporate value chain
- **EN 16258** (published December 2012)
transport mode related (freight and passenger)
expected to have a major impact towards harmonisation
could be proposed for development as an international ISO standard
- **ISO 14067**
considers carbon footprint of products
- **ISO TR 14069**
covers general principles of carbon footprinting
- **Various international organisations and projects:** Smart Way US, GFE, GFA, CCWG, WEF, ECOTransIT, Green Efforts and many more



- Developed approaches still allow for alternative ways of allocating and calculating emissions, within certain boundaries, and the use of different sources of default data
- Standards do not consider either the full logistics operations or all transport elements of a supply chain, e.g. EN 16258 does not cover terminals



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COFRET

and its contribution towards a global standardization



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COFRET – some background information



COFRET is a collaborative research and demonstration project funded by the European Commission, which will provide transparency on existing carbon footprint calculation methodologies for supply chains and which will suggest next steps needed in order to achieve global harmonisation of calculation principles and comparable reporting as part of a process to support global alignment of standardisation





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Advisory Board

BSR/Clean Cargo Working Group
(International)

CEN (European)

Conlogic (TBC)

Connekt (The Netherlands)

Deutsche Bahn/ECO TransIT (Germany)

DHL (Germany)

Ewals Cargo Care (The Netherlands)

Fiege AG (Germany)

Green Freight Europe (European)

IATA (International)

Kühne + Nagel (UK/Switzerland)

Maersk Line (Denmark)

Myclimate (Switzerland)

NTM (Scandinavia)

Sainsbury's (UK)

Smart Freight Centre (international)

Swiss WorldCargo (Switzerland)

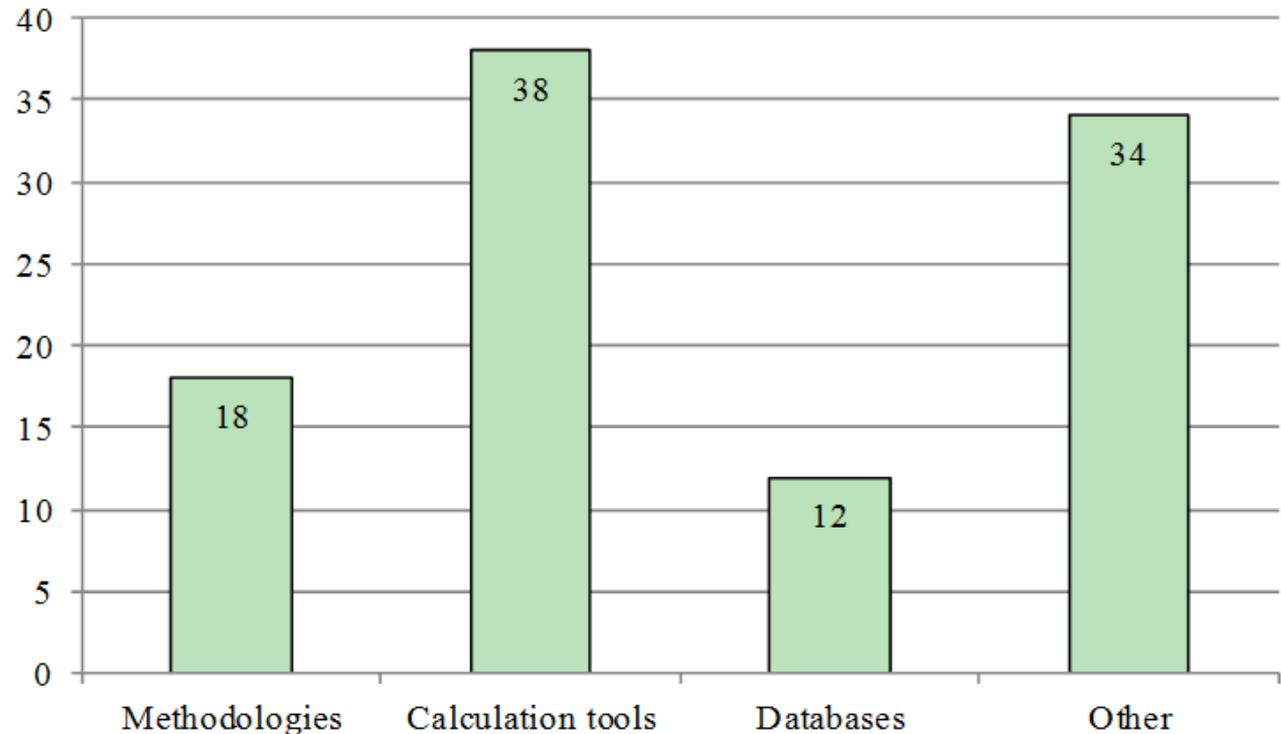
UPM (Finland)

World Economic Forum (International))

WWF (International)



- **A total of 102 items** were identified as relevant to the COFRET project



- **5 workshops held to deepen understanding of industry needs:** User workshop, software developer workshop, e-freight workshop, e-Save workshop, Advisory Board workshop



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What else is needed?



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Next steps within COFRET

- White spot analysis in methods and tools
- Further involvement of representation of key international partners
- Transparency and co-operation to develop a common approach aligning all modes and regions
- Direct involvement of recognised standardisation bodies
- Identification and use of international channels for dissemination and exploitation so that the global potential is maximised



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Summary & Outlook

- **A globally applicable standard is needed**
- The established dialogue and partnership between existing initiatives needs to be further enhanced on an international level
- A close cooperation between research and industry is important to striking the right balance between accuracy and simplicity and practicality



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Get in touch with us



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www.cofret-project.eu