Introducing: Smart Freight Centre and the GLEC

Accelerate your logistics decarbonization journey by **joining our Community**

We guide the logistics industry

We are an international non-profit organization focused on tracking and reducing GHG emission from freight transportation

Our Vision

A **zero-emission global logistics sector by 2050** or earlier, consistent with 1.5° pathways.

Our Mission

To **accelerate the reduction of logistics emissions** by fostering **collaboration within the global logistics ecosystem**.

Our Goal

To **mobilize the global logistics ecosystem**, in particular our members and partners, in **tracking and** reducing its greenhouse gas emissions to **achieve 1.5° pathways**.

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SFC is growing with more than 215 members today

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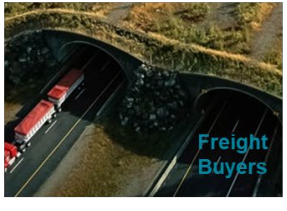
Mobilizing the logistics industry on global level

Clean Air Transport (CAT)

Global Logistics Emission Council (GLEC)

Clean Cargo (CC)

Global RO-RO Community (GRC)



Sustainable Freight Buyers Alliance (SFBA)

Fleet Electrification Coalition (FEC)

Regional offices and programs (China, India, East Africa)

SFC Academy – Educating towards zero emissions global freight and logistics

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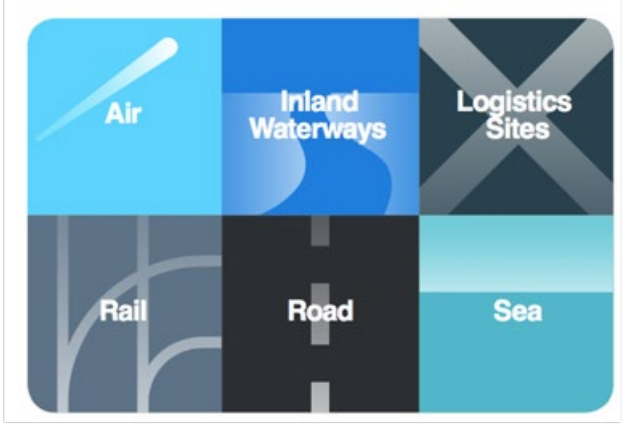
GLEC covers all modes, scopes and the full lifecycle

ALL MODES



TOTAL SCOPE

ALL GHGs

FULL LIFE CYCLE

GLEC strives to drive transparency and set the standard

2016 - 2022

GLEC Framework was the only **globally recognized methodology** to calculate GHG emissions consistently across the **multi-modal logistics supply chain**

Recognized by

Used by

200+ Multinationals

20+ Programs, tools, initiatives

2023 onwards

ISO 14083 was published in March 2023 and is **based on the GLEC Framework** to enable a tighter application structure.

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GLEC is the implementation framework for the ISO

- The GLEC Framework is the primary industry guideline for the implementation of ISO 14083
- Covers freight transport GHG emissions
- Industry-led regular updates on emission factors, default emission intensities, sector-specific application guidance and other
- Testing and development for future scope expansion

- ISO is **the** globally most recognized organization for standardization
- ISO 14083 Covers both freight and passenger transport GHG emissions
- It is based on existing standards including GLEC Framework and EN16258
- Will be updated approx. every 5 years (if there is demand)

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GLEC has many uses

Internal reporting	Set targets	Identify hot spots for improvement	Develop action plan to reduce emissions
External reporting	Track progress against targets	Make climate-informed decisions	Procurement
Sales & marketing	Collaborate with customers & suppliers	Comply with legislation and standards	Other….

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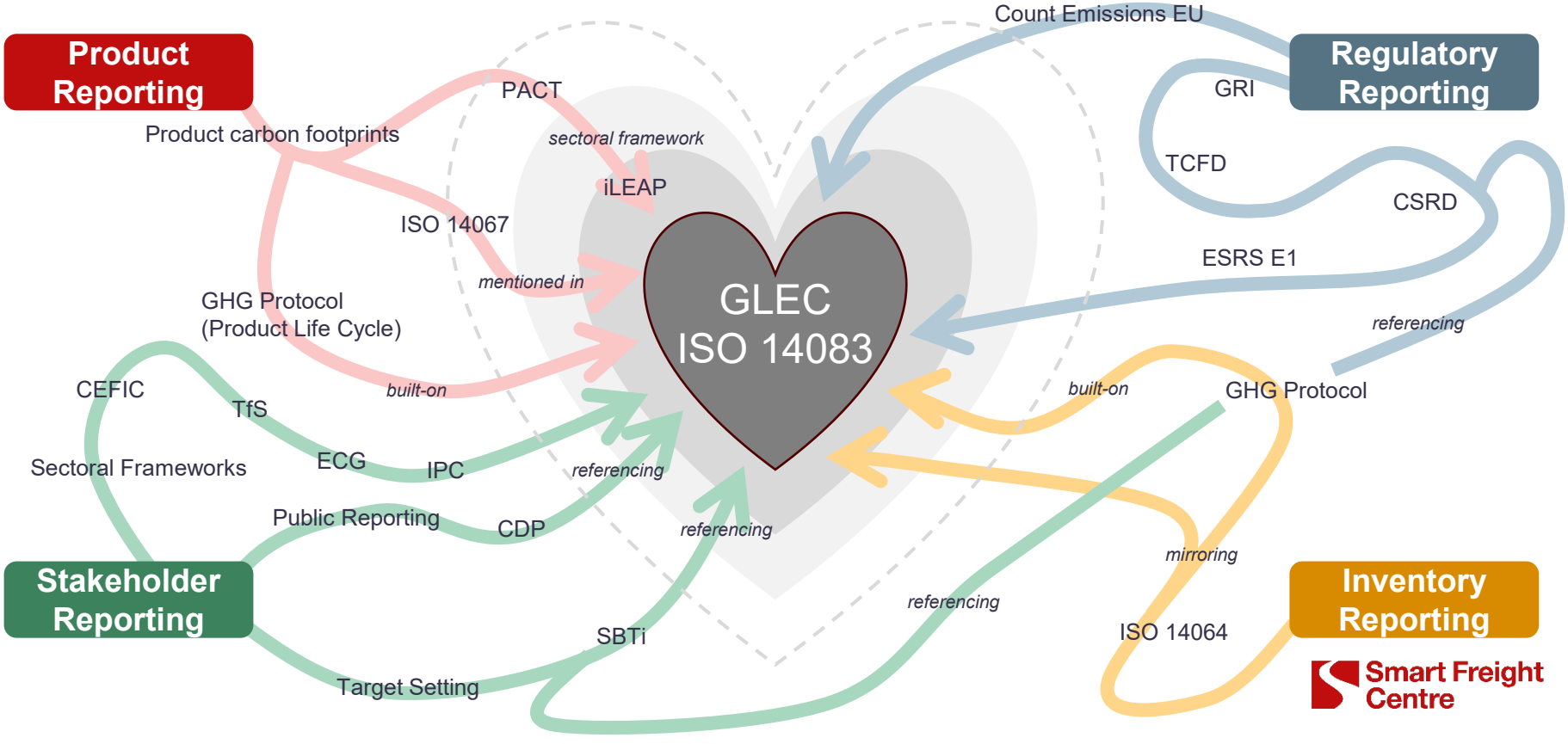
GLEC and ISO 14083 are at the heart of it



GLEC methodologies continue to set the standard

Sector specific methodology

- Published: Calculating GHG transport and logistics emissions for the European Chemical Industry
- In development: addition of existing automotive guidance into the annex
- In development: Post & parcel / ecommerce updated guidance

Reporting harmonization

- Count Emissions EU: a single methodology for emissions from transport
- The CLEVER framework introduces a methodology for a consistent calculation of emissions factors

Market based measures

- 'Chain of custody' accounting guidelines for multimodal freight transport LETS, consistent with the GLEC Framework, ISO 14083, and GHGP/SBTi (to extent possible)

IT standardization

- GLEC methodologies guide information exchange
- iLEAP:
  - A data model that is ISO14083 and GLEC FW v3 conforming
  - A protocol that is easy to develop and is interoperable with product carbon footprint specifications

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1 Calculating

Chapter 1
Foundations of the GLEC Framework

Chapter 2
Calculation steps

Chapter 3
Steps for establishing the Emission Intensity Factors of a TOC or a HOC

Chapter 4
Information and requirements for the individual transport modes and hubs

References

2 Using emission results

Chapter 1
Reporting emissions

Chapter 2
Beyond reporting

Chapter 3
Outlook & the path towards global uptake

References

3 Data

Module 1
Emission factors

Module 2
Default fuel efficiency and GHG emission intensity values

Module 3
Refrigerant emission factors

Module 4
Examples of emission calculations - step-by-step

References

4 Annexes

Module 5
Calculating GHG transport and logistics emissions for the European Chemical Industry

Module 6
Air Pollutants methodology for Logistics sector

Annex unit conversions

List of abbreviations
Glossary
Version history

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SCAN ME

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