

How to prepare for zero emissions transport solutions and set your sustainability strategy

DÜSSELDORF | 17 NOVEMBER 2022

THIES GRAGE | HEAD OF INNOVATION & SUSTAINABILITY

- 1** WHY THE NEED FOR A SUSTAINABILITY STRATEGY?
- 2** WHICH LEVERS FOR DECARBONISATION EXIST?
- 3** WHAT ACTIONS HAS HOYER TAKEN ALREADY?
- 4** CONCLUSION

Why the need for a Sustainability Strategy?

Stakeholder Overview

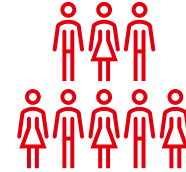
Various stakeholders expect actions towards higher level of sustainable management.



Planet Earth



Customers



Employees



**Financial
Institutions**



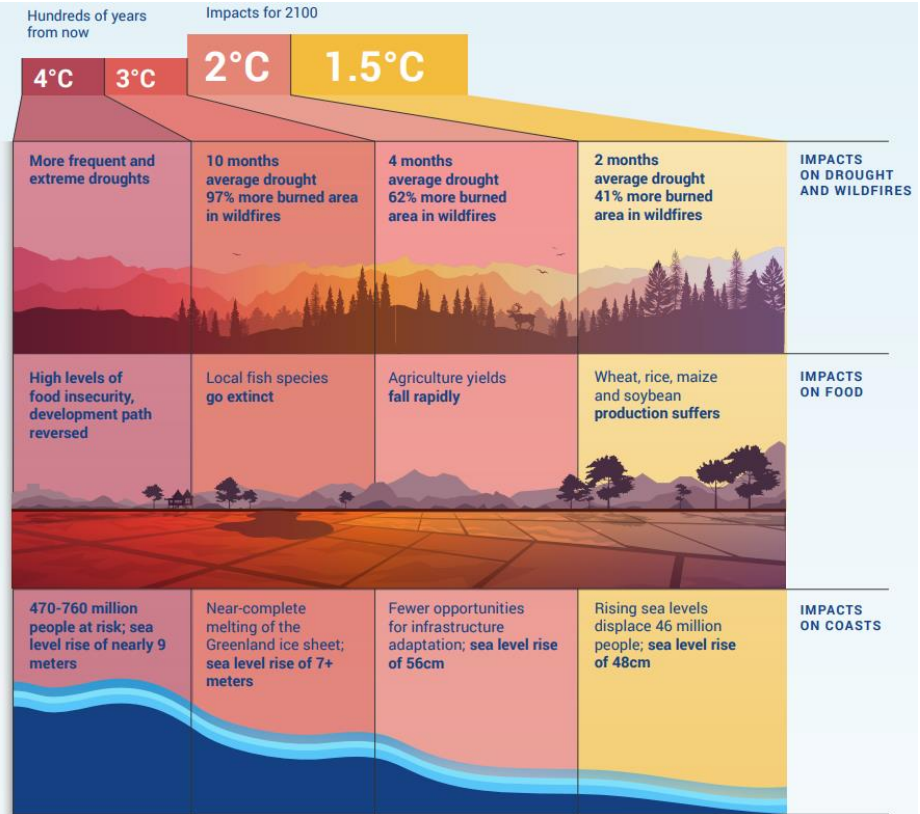
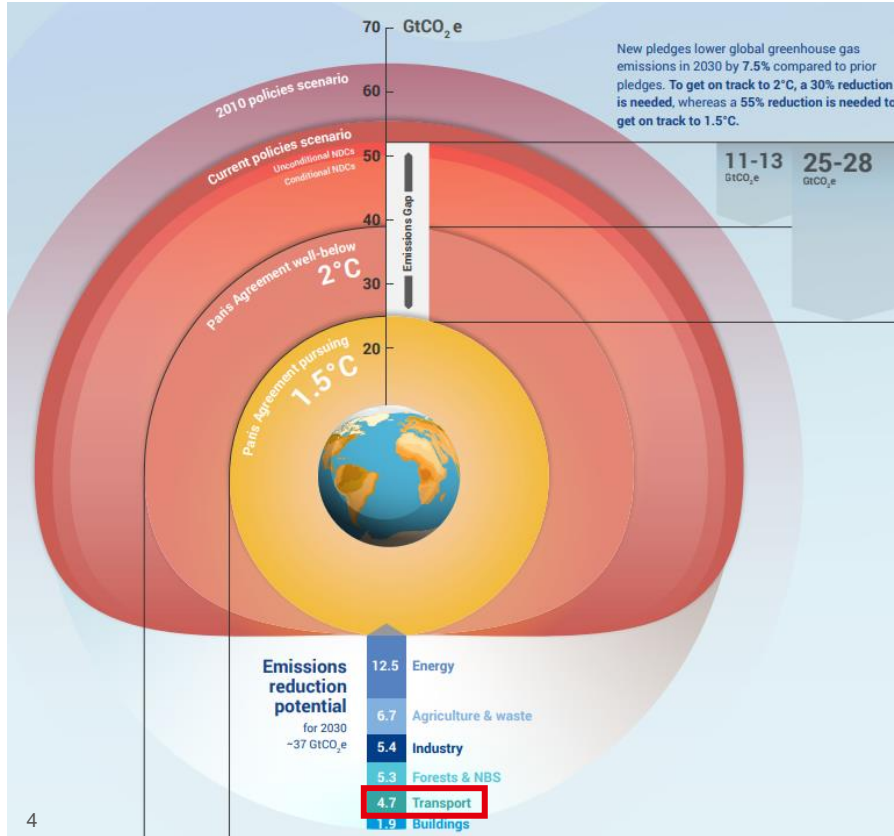
**Vendors/
Contractors**



Regulators

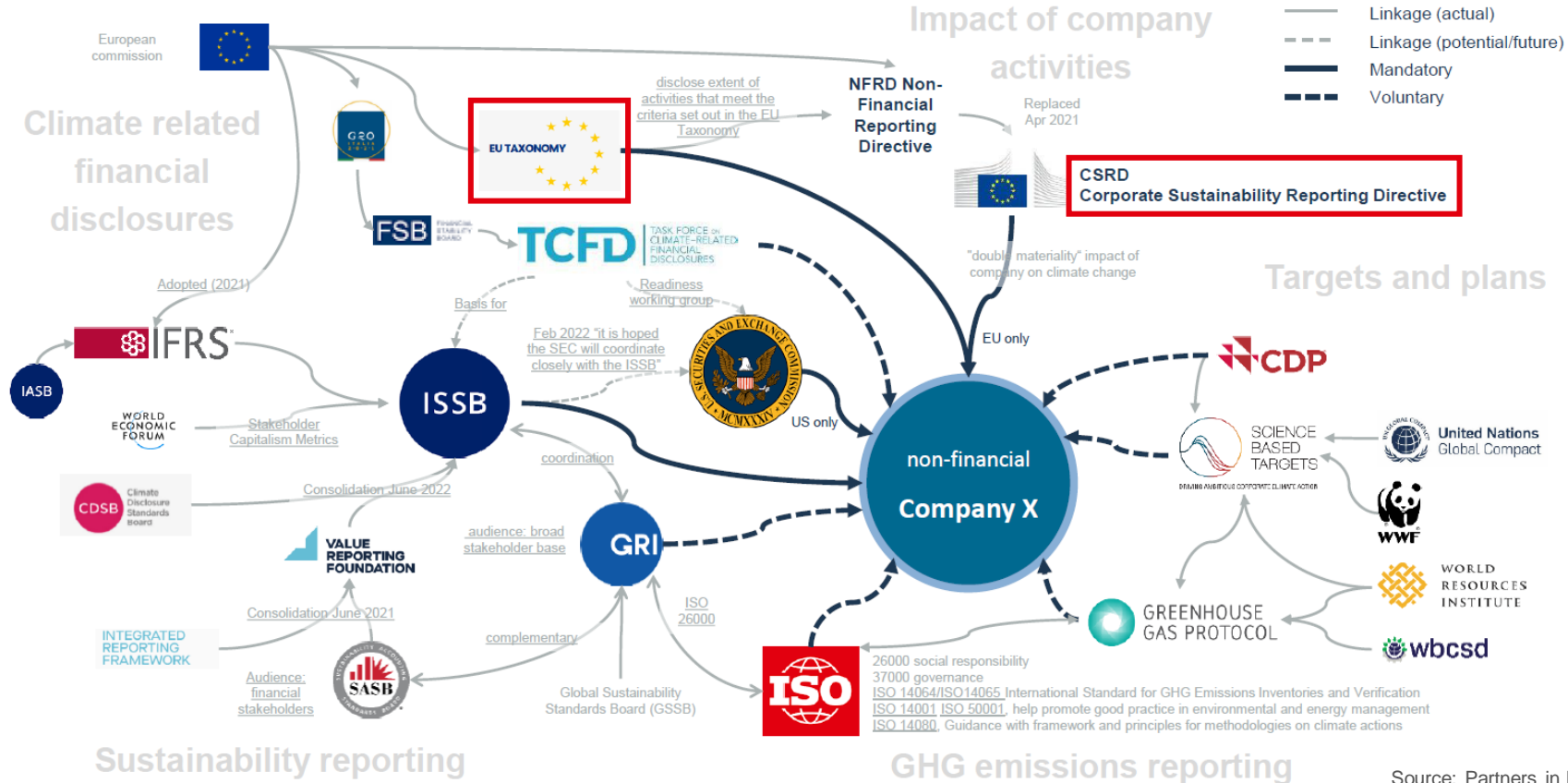
Why the need for a Sustainability Strategy?

Emissions Gap for 2030 & Importance of 1.5°C Target



Why the need for a Sustainability Strategy?

Non-conclusive Overview of Regulations, Norms and Guidelines



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Which Levers for Decarbonisation exist?

Overview for Logistics Activities

Numerous levers combined enable holistic decarbonization of supply chains.

Transport Operations



Modal Shift



Network Efficiency



Biofuels

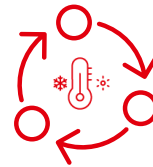


Alternative Drivetrains

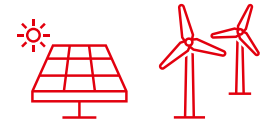
SCS & Depot Activities



Green Electricity Procurement



Energy Recovery



Green Electricity Production

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EMISSIONS OF CO₂ TRANSPORT OPERATIONS

- 29%

over the past 10 years

Emissions of CO₂
(g CO₂/tonne-km):

18.31



80.5%

INTERMODAL TRANSPORTS
per cent of km travelled by
intermodal transports

TARGETS 2025 Emissions of CO₂ Transport Operations

- 10%

TRANSPORT EMISSIONS

Reducing our direct tank-to-wheel CO₂ emissions rate (scopes 1 and 3) by this at least (measured in grams of CO₂ per tonne-kilometre) versus 2019.

TARGETS 2030 Emissions of CO₂ Transport Operations

- 25.6%

Reducing our direct tank-to-wheel CO₂ emissions rate (scopes 1 and 3) by a further 15.6% to this total reduction (measured in grams of CO₂ per tonne-kilometre) versus 2019.

Emissions of CO₂ Non-Transport Operations

10.70

Kilogrammes of CO₂ generated
per man-hour



95%

No. OF EURO-6-TRUCKS IN FLEET

EMISSIONS OF CO₂ NON- TRANSPORT OPERATIONS

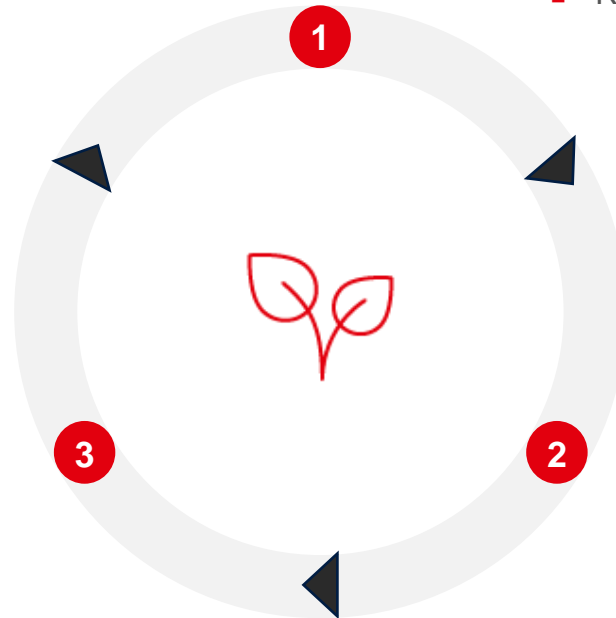
- 27%

Reducing our direct scope 2 CO₂ emissions by this at least (measured in kilograms of CO₂ per man hour) versus 2019.

We provide sustainable solutions to shippers along the entire value chain.

Emission Analytics

- Joint Baseline
- Benchmarking
- Reduction Enabler & Consulting



Supply Chain Decarbonisation

- Modal Shift
- Payload/Filling Level
- Empty Mileage
- Driver Efficiency
- Alternative Fuels
- Green Equipment

- Unavoidable Emissions
 - Climate Partnerships
- Offsetting**

We calculate CO₂ emissions for our transports as a basis for sustainable action.



Supply Chain &
Asset Visibility

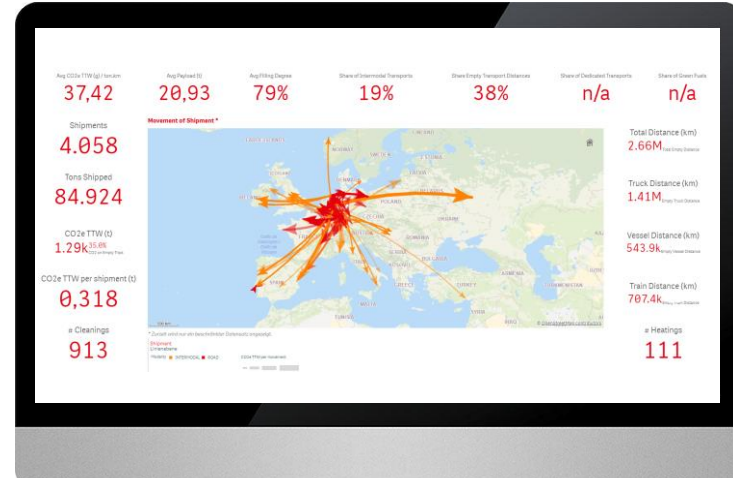


Solution

- Calculation of CO₂ emissions
 - Transport offers & Routing options
 - Retrospective analyses
- Visualisation
 - Provision on transport offers
 - Reporting with analyses & dashboards

Benefits

- + Transparency on transport-related emissions
- + Baseline for measures to reduce CO₂ footprint (payload, modal shift, empty km's, green fuels)
- + Shipper benchmarking
- + Fulfilment of regulatory requirements



We have grown our share of intermodal transports over the last decade.



- Daily operational planning and commercial activities
- Share of kms travelled by intermodal transport increased from 72.3 to 80.5% between 2010 and 2021
- Strategic investments in intermodal infrastructure and operations



Huge impact with generated CO₂ emission savings of >10,000 tons p.a.

We are an early adopter of alternative drivetrains as well as biofuels.



- LNG/CNG
 - Own LNG & CNG vehicles in gas distribution
 - Subcontracted LNG trucks within European chemical transportation
- Biofuel
 - Pilot projects with strategic customers in fuel supply business (HVO100 and GT45)
 - Switch to HVO20 fuel at Rotterdam home base
- Electric
 - Terminal truck in on-site logistics operations
 - On-going feasibility studies for electric and hydrogen trucks in mid-distance transportation (<300 km per day)



Restricted scale with max. 1,500 tons of CO₂ savings p.a.



Image Source: Volvo & Terberg

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Conclusion

Sustainability requires combined efforts of all supply chain actors



**Start with the Basics:
Emission Analytics & Feasibility Studies**



**Include your major Business Partners
right from the Beginning**



**Joined Sustainability Targets
by ECTA Members?**