

SUSTAINABLE TRANSPORT & FINAL MILE





Vehicle fleet



29,200

e-vehicles in use, of which

27,800

e-vehicles in pick-up and delivery

77%

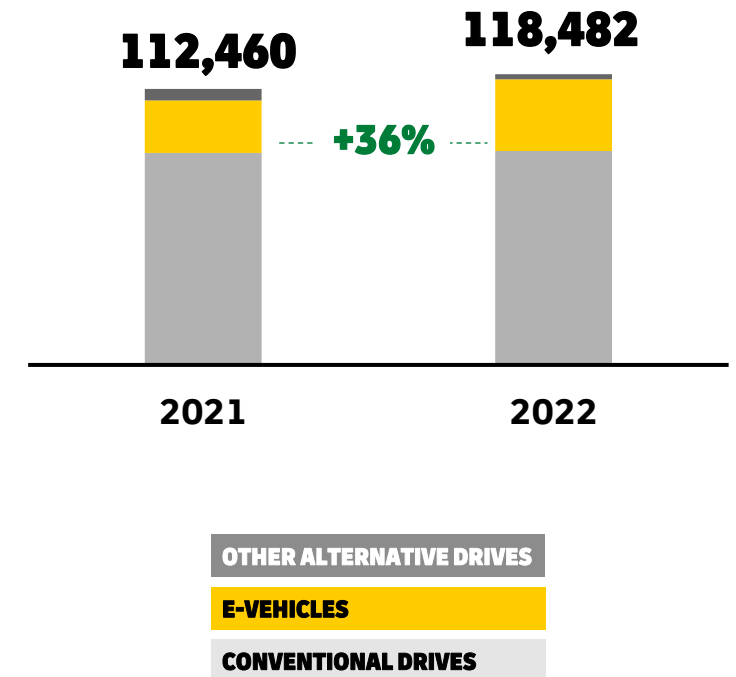
of our vehicle fleet complies with the highest Euro emissions classifications

PICK-UP AND DELIVERY ELECTRIFICATION

We continuously modernize our vehicle fleet, using more electrification to introduce alternative drive systems.

We are aiming for a 60% share of e-vehicles in pick-up and delivery by 2030.

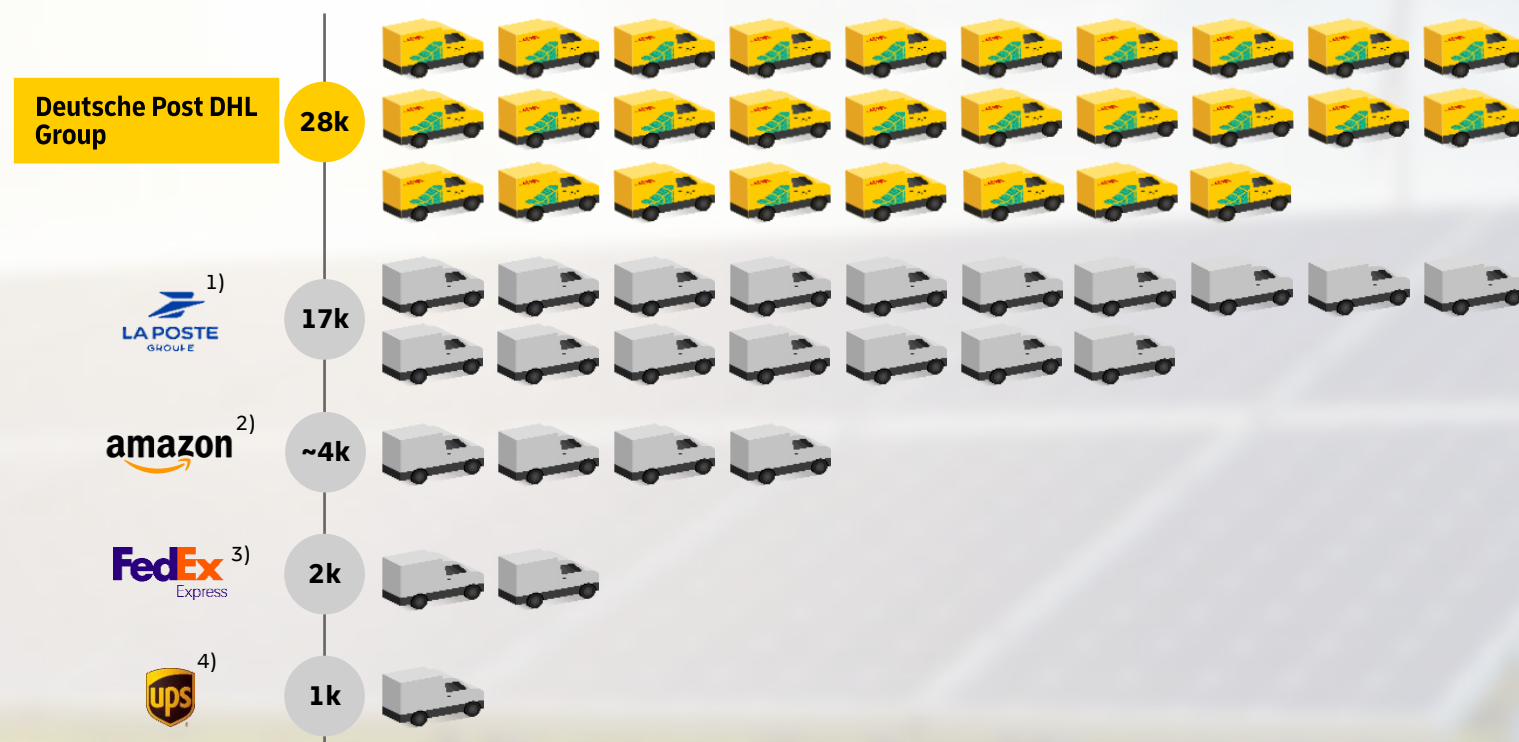
DHL Group



DHL Group e-vehicle fleet by far exceed competitors' fleets as of 2021/22

EV FLEET OF DHL GROUP AND COMPETITORS

Fleet of electric vehicles (in thousands as of 2021/22)



Future ambitions

DHL Group plans to deploy >90k BEV in 2030

Groupe LaPoste aims at electrifying PuD fleet to 85% by 2030 (incl. vans, cargo bikes)¹⁾

Amazon plans to deploy up to 100.000 electric vehicles by 2030²⁾

FedEx Express aims at *buying* every vehicle in 2030 as a BEV³⁾

UPS: “committed to buy up to 10,000 eVehicles from U.K. startup Arrival”⁴⁾

1) Groupe LaPoste Website [a](#) & [b](#); 2) Amazon Sustainability Report 2021 and Amazon Homepage; 3) FedEx 2022 ESG Report, p. 17; 4) Electric vehicles | About UPS as of 2022 August 15th

Sustainability Transport solutions



Environment

Our **Advanced Efficiency Measures and Low/Zero Carbon Propulsion** solutions provide you effective ways to reduce carbon emissions of your transport operations

Reduced Carbon

Reduced carbon to deliver **significant carbon efficiencies** to your transport operations

near
20 – 30%
CO₂ savings¹⁾

Low Carbon

Low emission
(e.g., CNG or Biodiesel)

near
50 – 70%
CO₂ savings¹⁾

Zero Carbon

Zero emission
propulsion
(e.g., EV or hydrogen vehicles)

near
100%
CO₂ savings¹⁾

GOGREEN
PLUS

1) Compared to baseline; CO₂e savings are indicative and subject to exact solution and key KPIs, such as volume development

ESG Transport solutions



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GoGreen Technologies



- Solar solution for trucks and trailers (e.g. TRAILAR)
- Trailer Front Air Deflector (Aerodynamic features beyond standard)
- Airtab Ventilation system (Aerodynamic features beyond standard)
- Transport route optimization, empty backhaul reduction, empty trip optimization (e.g. DTO)
- Network Design, Cost and Flow optimization

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GoGreen Technologies



Low Carbon Propulsion

- Bio CNG, Bio LNG, Renewable Natural Gas
- Hydro treated Vegetable Oil
- Multi-modal transport (Road to Rail)

Zero Carbon Propulsion

- Renewable energy from the grid, Green Electricity
- Green Hydrogen Fuel Cell Trucks
- Electric vehicle (BEV)

**PLEASE CUSTOMIZE
ACCORDING TO YOUR
REGIONAL/LOCAL
CAPABILITIES BEFORE
PRESENTING TO THE
CUSTOMER**



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ESG Transport Solutions

Case Studies

DHL Supply Chain



Environment



Electric low duty vehicles operate in Brazil for customers in the Retail, Consumer, Technology and Life Sciences and Healthcare sectors

[Learn more →](#)



Reduction of 72% in carbon emissions per trip using multimodal solution from Turkey to Germany

[Learn more →](#)

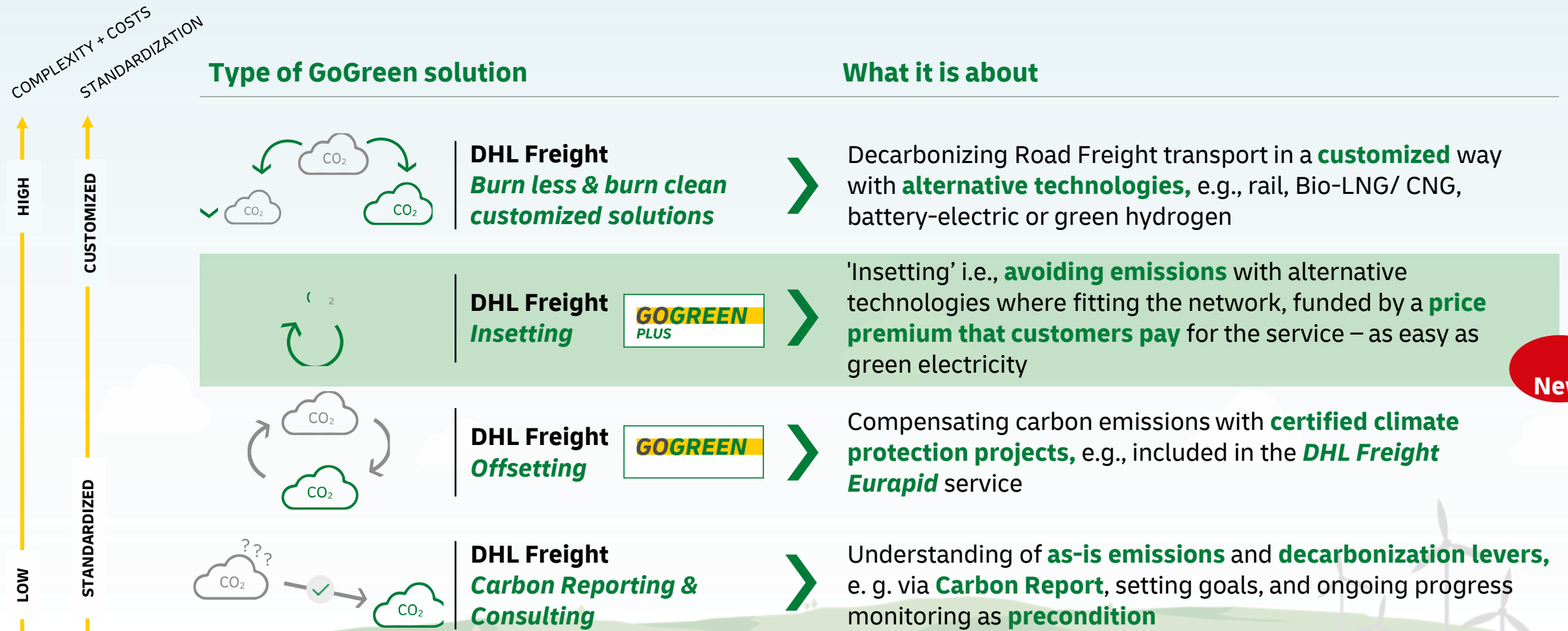


Telematics and management control program in Thailand which resulted in 38% CO₂ emissions reduction and improved costs

[Learn more →](#)

FOUR TYPES OF DHL FREIGHT GOGREEN SOLUTIONS

ALLOWING CUSTOMERS TO BECOME MORE SUSTAINABLE



New

GOGREEN PLUS – ZERO EMISSIONS ROAD FREIGHT

MADE AS EASY AS BUYING GREEN ELECTRICITY

Carbon insetting is a reduction in emissions of carbon dioxide & other greenhouse gases made through investments in green technologies & fuels



DHL Freight guarantees investment into clean technologies **within its network**



Investments usually focus on areas in the network where technologies can be **well applied operationally at reasonable cost**

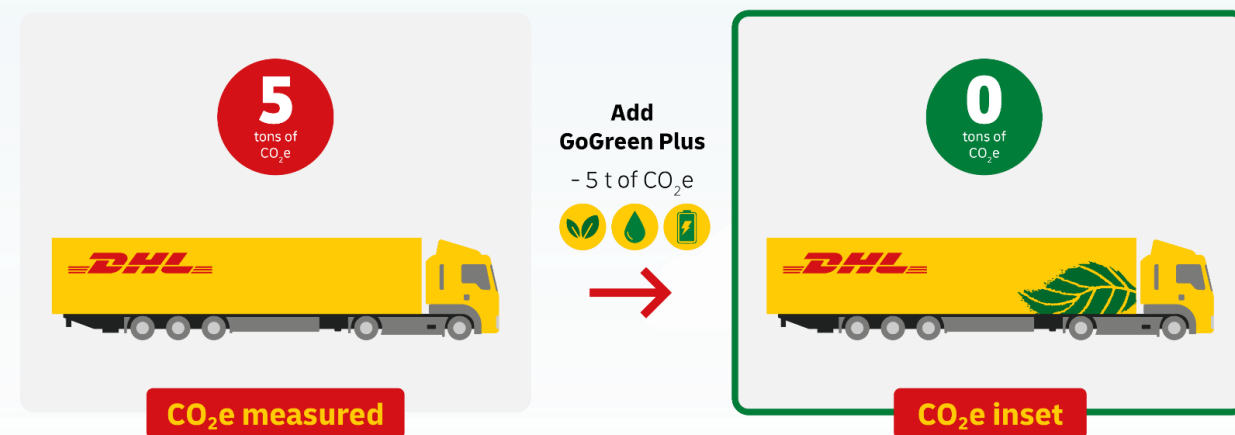


Vehicles at physical touchpoints with customer are often not green, while **overall amount of grey production is reduced according to scope** booked by customer



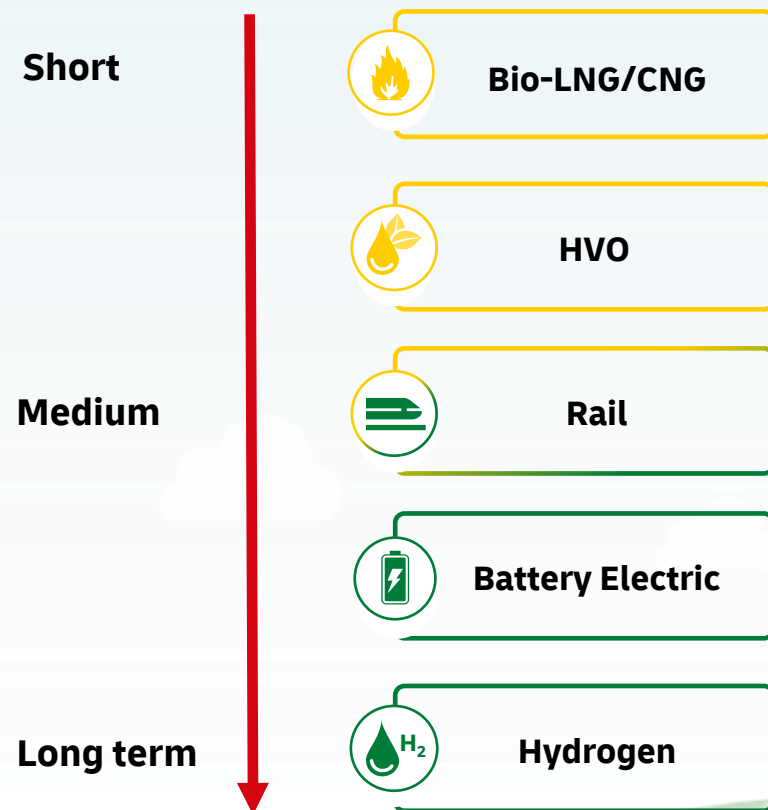
Potential technologies include low- and zero emission technologies and fuels like electric vans or bio-LNG trucks

CO₂e measured vs. inset






BURNING LESS IS GOING TO REACH ITS LIMITS – THEREFORE, ALTERNATIVE TECHNOLOGIES AND SUSTAINABLE FUELS ARE NEEDED

Our climate-smart technologies



Our technological roadmap at DHL Freight

-  Continue our **carbon efficiency strategy** incl. e. g. route optimization and shifting to rail
-  Invest in **HVO and Bio-LNG/CNG** as most promising bridge technologies
-  Drive transformation towards zero emission **Hydrogen/Fuel Cells** in line-haul and **eMobility** in urban/regional transportation

OUR THREE DHL FREIGHT CORE PRODUCTS CAN BE EXTENDED THROUGH OUR GOGREEN PLUS FEATURE



DHL Freight EuroConnect
Reliable & cost-effective LTL



DHL Freight Eurapid
Day-definite LTL



DHL Freight EuroLine
Direct full (FTL) & part
(PTL) truck load



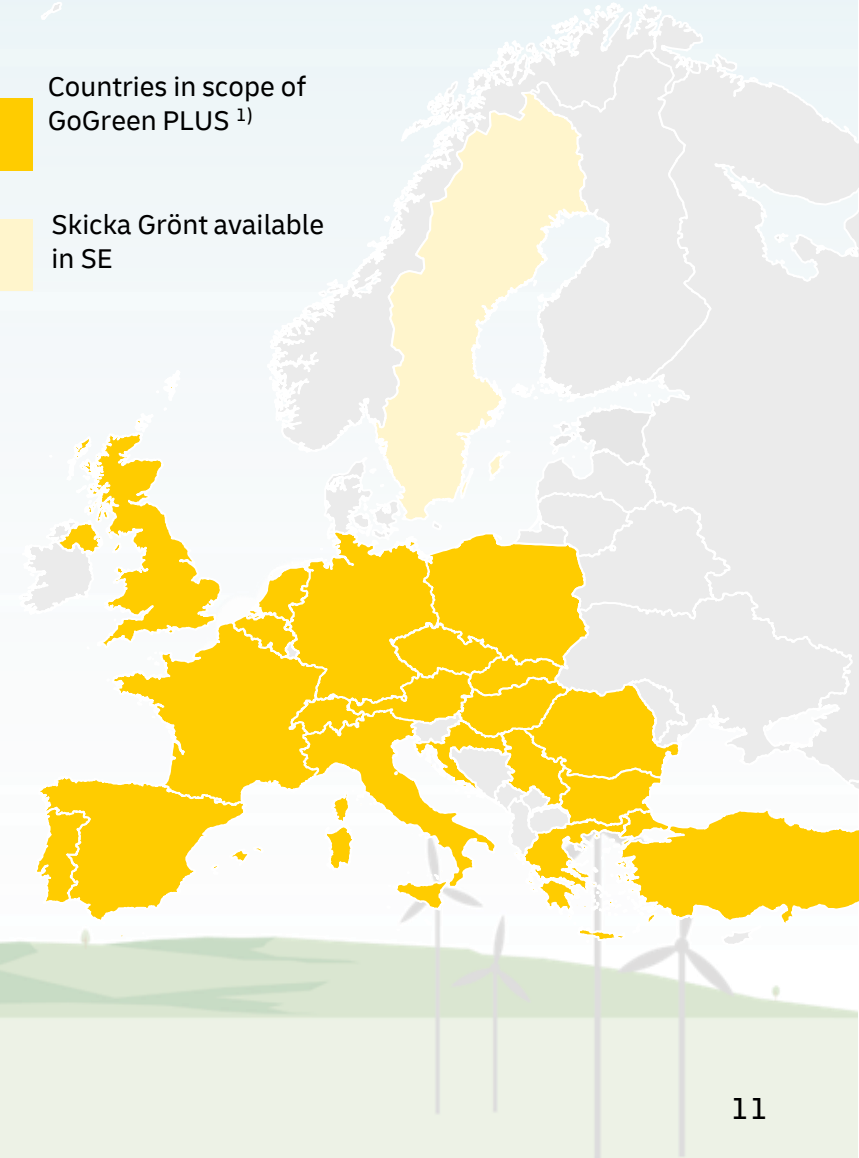
**GOGREEN
PLUS**

GoGreen Plus
can be added as a feature to our
three core products



Countries in scope of
GoGreen PLUS ¹⁾

Skicka Grönt available
in SE



1) further countries planned until end of 2022: IE, SI, LT, LV, EE, DK, FI, NO, SE

The journey to Zero: Planning and route optimization

We've been developing new planning tools and getting new insights to help us reduce emissions.

Loads can be better planned and packed thanks to higher roll containers



We can fit 10% more parcels in a truck

New transport planning tools to optimize routes



We can add 20% more parcels per delivery route

Monitoring driver behavior and diesel consumption



We can have more efficiently loaded trucks in our linehaul network

Developing our own planning tools network



We can target a 15% reduction in 'not-at-home' deliveries

Our app for parcel recipients reduces 'not-at-home' deliveries

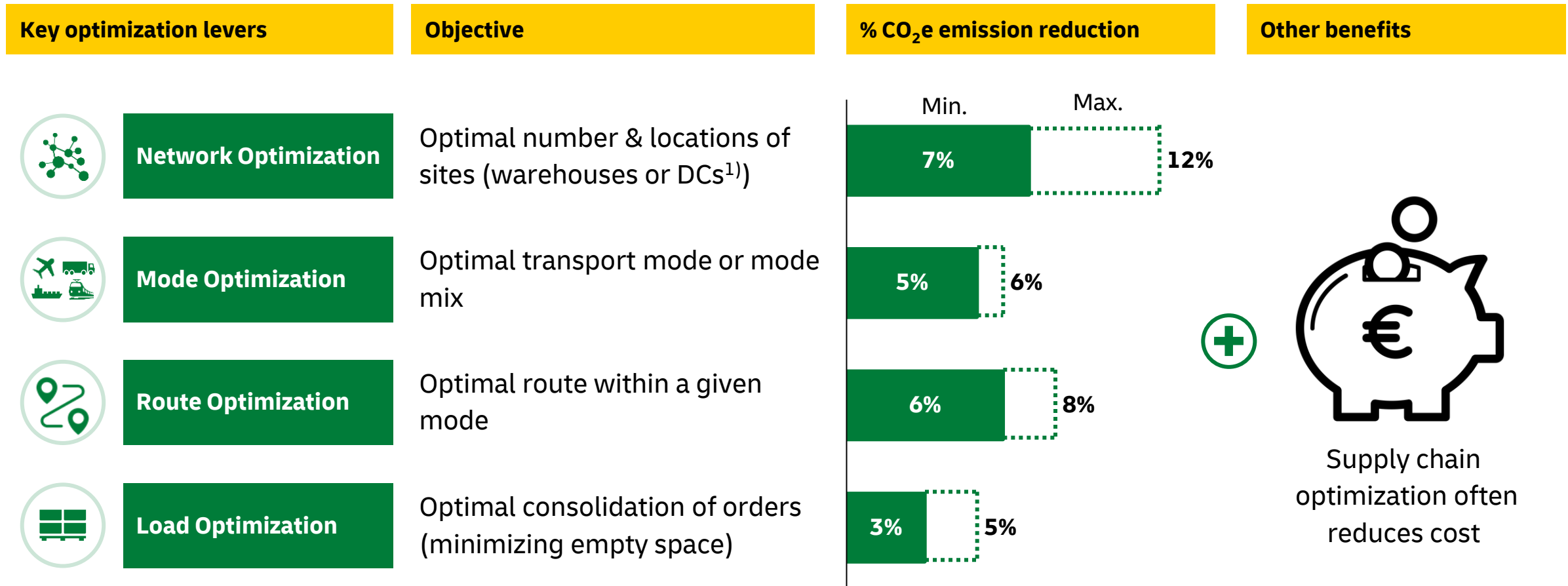


All these add up to a substantial reduction in carbon emissions

How better planning creates a more sustainable network

Optimization can reduce your emissions and save costs- but only to a certain degree

SUPPLY CHAIN OPTIMIZATION LEVERS



Source: McKinsey, DHL; 1) Distribution Centers