

# SUSTAINABLE TRANSPORT & FINAL MILE





## Vehicle fleet



**29,200**

e-vehicles in use, of which

**27,800**

e-vehicles in pick-up and delivery

**77%**

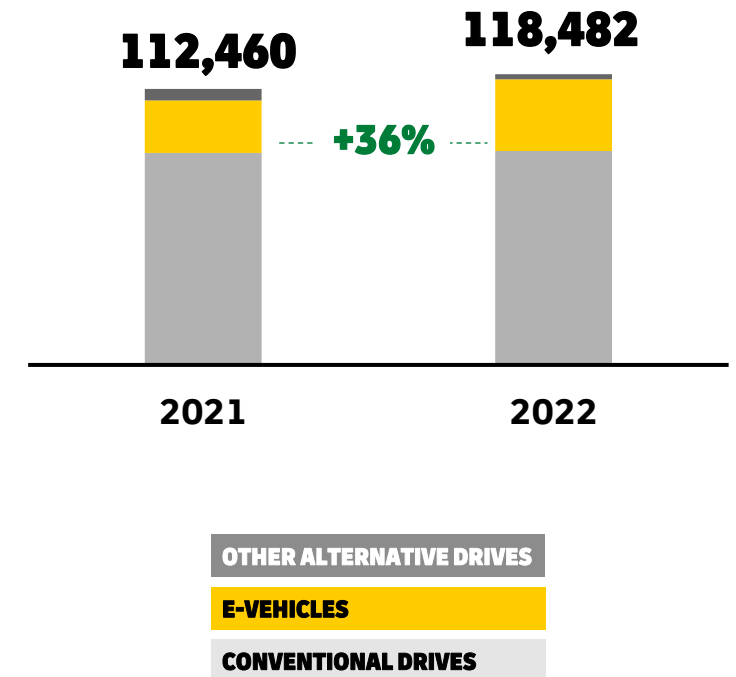
of our vehicle fleet complies with the highest Euro emissions classifications

## 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.

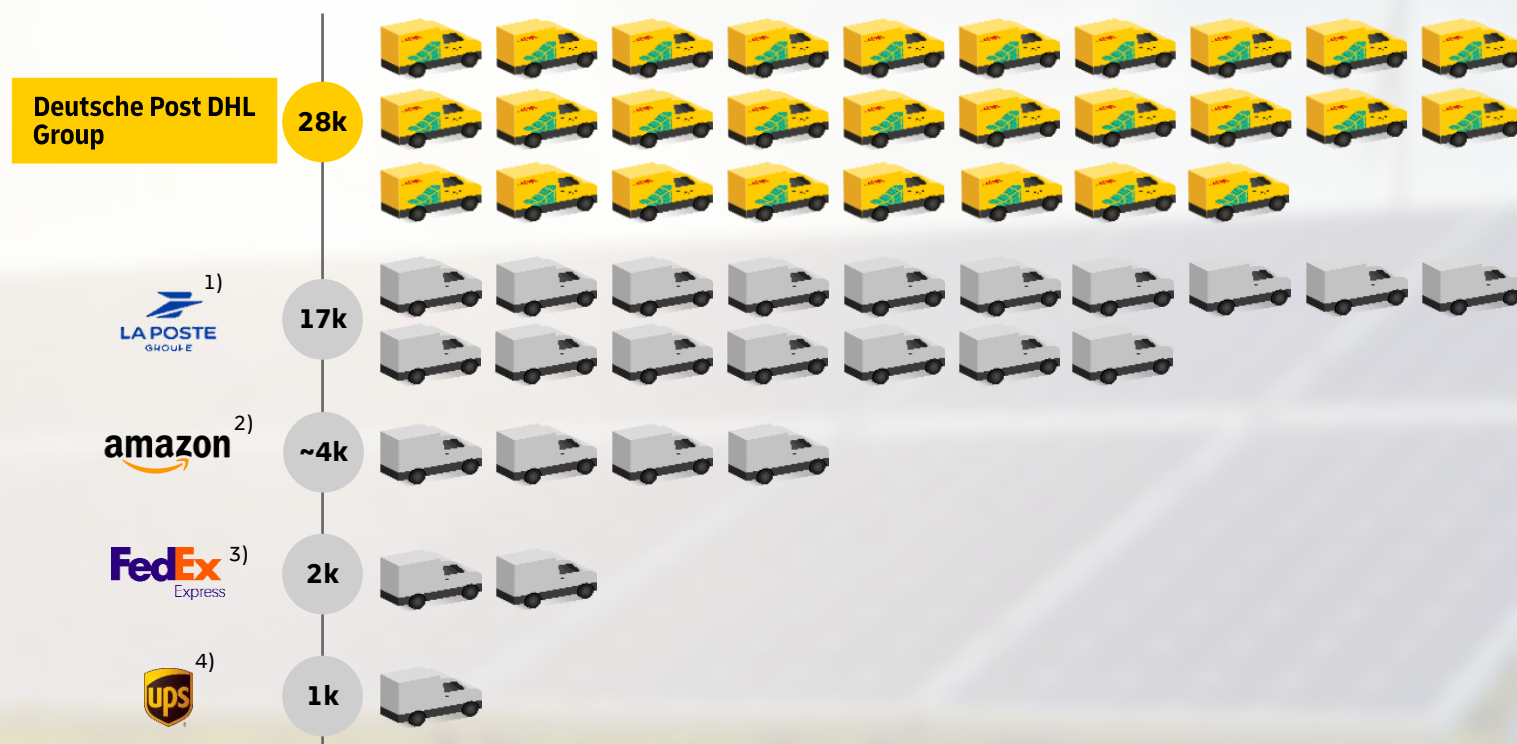
DHL Group



# 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)<sup>1)</sup>

**Amazon** plans to deploy up to 100.000 electric vehicles by 2030<sup>2)</sup>

**FedEx Express** aims at *buying* every vehicle in 2030 as a BEV<sup>3)</sup>

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

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 15<sup>th</sup>



# 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%**  
**CO<sub>2</sub> savings<sup>1)</sup>**

### Low Carbon

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

**near**  
**50 – 70%**  
**CO<sub>2</sub> savings<sup>1)</sup>**

### Zero Carbon

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

**near**  
**100%**  
**CO<sub>2</sub> savings<sup>1)</sup>**

**GOGREEN**  
PLUS

1) Compared to baseline; CO<sub>2</sub>e savings are indicative and subject to exact solution and key KPIs, such as volume development



# ESG Transport solutions



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**near**  
**20 – 30%**  
**CO<sub>2</sub> savings<sup>1)</sup>**

## GoGreen Technologies



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

1. Compared to baseline; CO<sub>2</sub>e savings are indicative and subject to exact solution and key KPIs, such as volume development



# ESG Transport solutions



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## Low Carbon

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

**near**

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## Zero Carbon

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

**near**

**100%**

**CO<sub>2</sub> savings<sup>1)</sup>**



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**

1. Compared to baseline; CO<sub>2</sub>e savings are indicative and subject to exact solution and key KPIs, such as volume development



# 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 →](#)

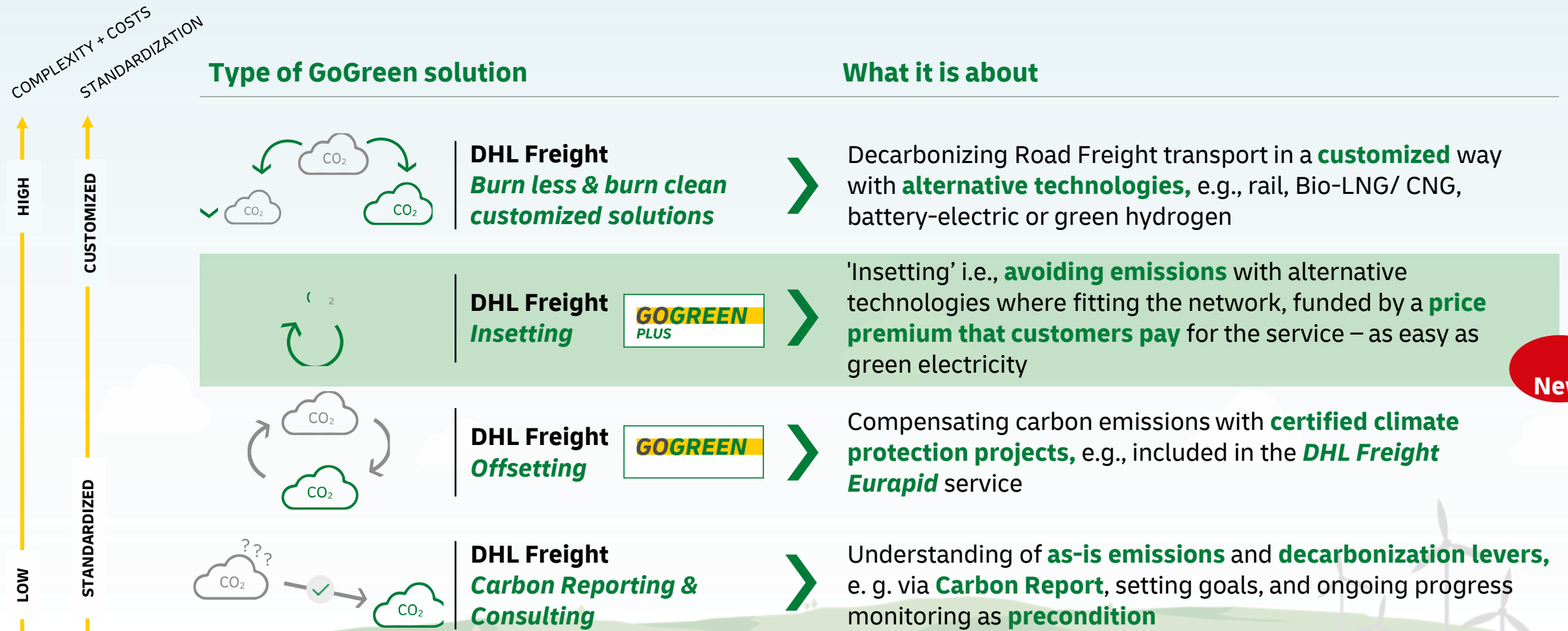


Telematics and management control program in Thailand which resulted in 38% CO<sub>2</sub> emissions reduction and improved costs

[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**

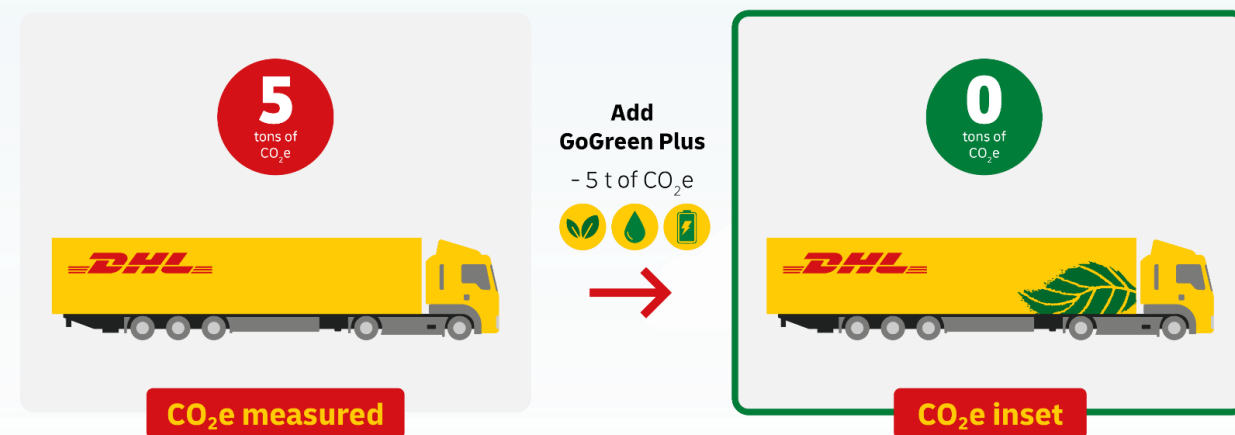


Vehicles at physical touchpoints with customer are often not green, while **overall amount of grey production is reduced according to scope** booked by customer



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

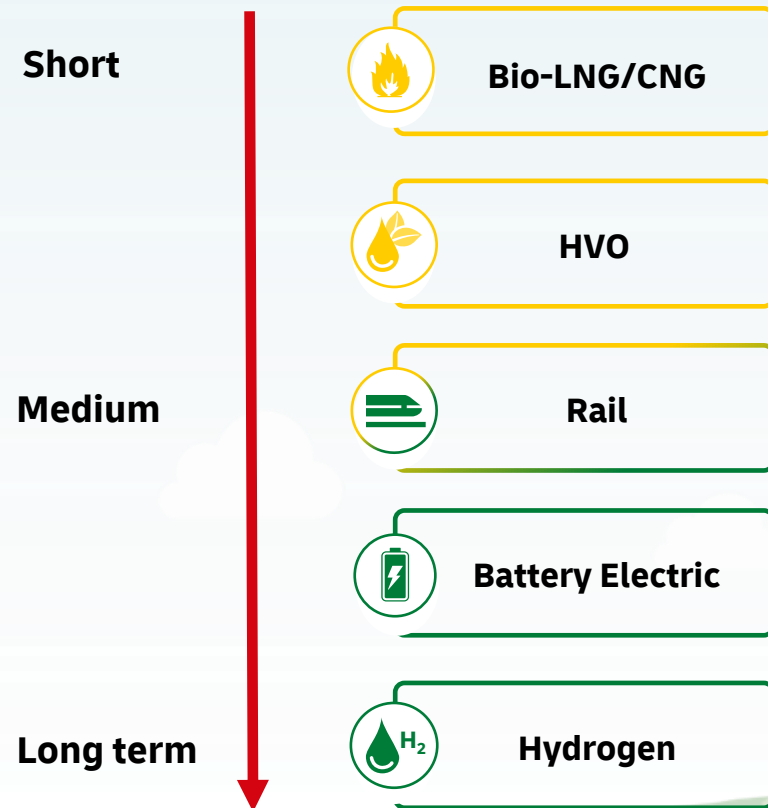
### CO<sub>2</sub>e measured vs. inset








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

## Our climate-smart technologies

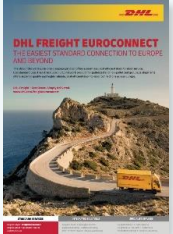


## Our technological roadmap at DHL Freight

-  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



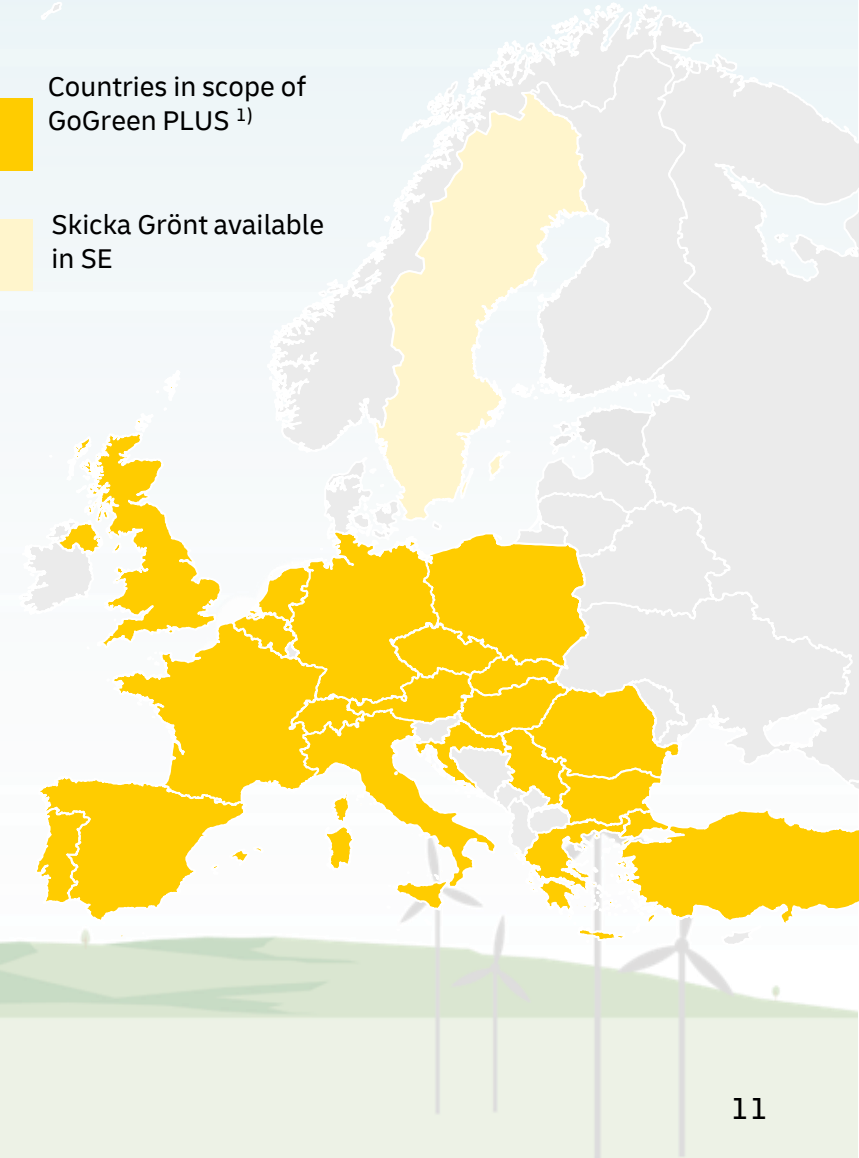
**GOGREEN  
PLUS**

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



Countries in scope of  
GoGreen PLUS <sup>1)</sup>

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

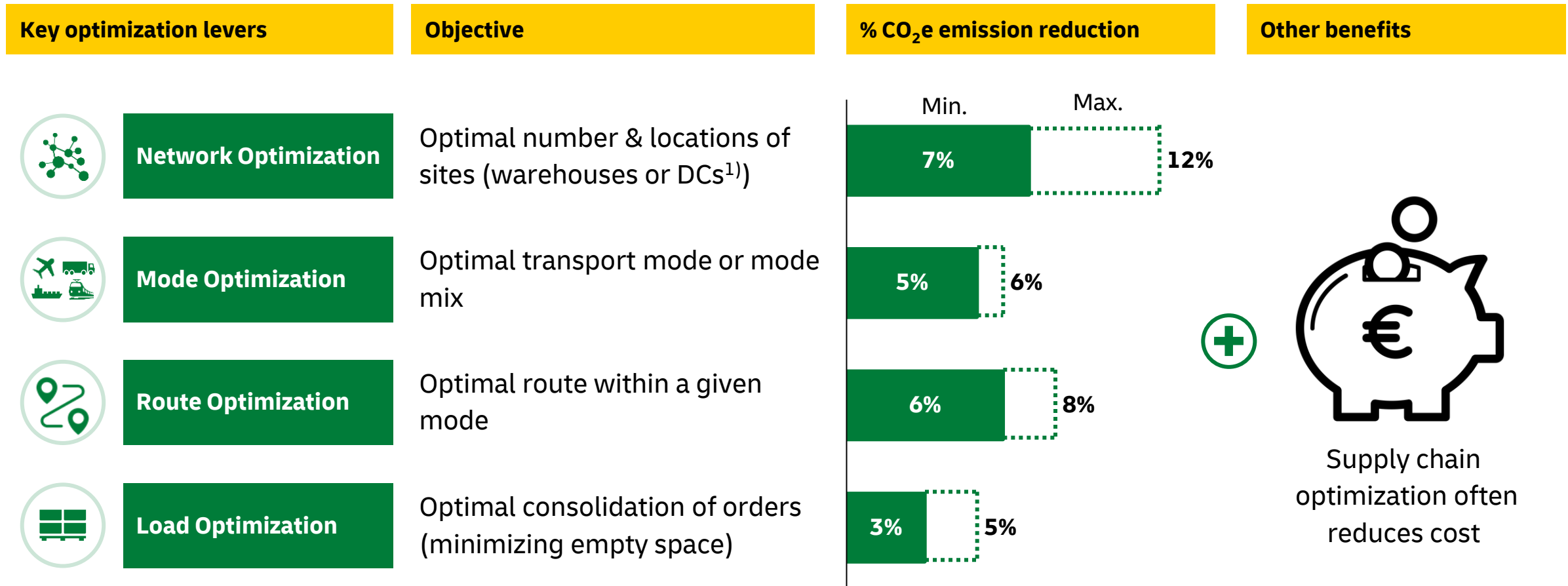


All these add up to a substantial reduction in carbon emissions

**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