Deutsche Post DHL Group



## GOGREEN – MISSION 2050: ZERO EMISSIONS

Greening Freight Distribution at the City and Global Level

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#### Key facts about Deutsche Post DHL Group

- About 510,000 employees in more than 220 countries and territories (of which about 60% outside of Germany)
- Group revenues: EUR 57.3bn
  Group EBIT: EUR 3.49bn
  Market capitalization<sup>1)</sup>: EUR 38.760bn
- ▶ 59m letters per workday in Germany4.3m parcels per workday in GermanyAround 28,000 sales outlets in Germany
- ~ 809,000 international express shipments per day (Time Definite International)
   +7.6% versus 2015
- 3.6m tons of air freight; 3.1m TEU<sup>2)</sup> of ocean freight. No. 2 European road freight
- 13.7m square meters<sup>3)</sup> of warehouse space in contract logistics

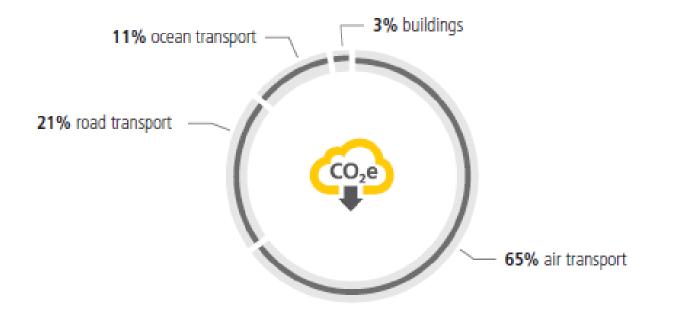


Source: Annual Report 2016; 1) As of 31 Dec 2016; 2) TEU = Twenty-foot equivalent unit; 3) Financial year 2015; 4) Status 2016; 5) For buildings and facilities; 2016 CR-Report

### Deutsche Post DHL Group carbon footprint 2016

#### CO₂e emissions (total) by source ✓ PwC

Total 26.92 million tonnes CO<sub>2</sub>e



Source: Deutsche Post DHL Group; Corporate Responsibility Report 2016

#### Successes of our GoGreen program



First global logistics service provider with a quantified CO<sub>2</sub> efficiency target



Adopting the Shared Value approach and a new generation of tailored GoGreen Solutions



Start of large scale rollout of electric mobility for pick-up and delivery services



Achieving 2020 target to improve carbon efficiency by 30%, 4 years early



2008

2012

2014

2016

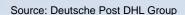
The world agrees on the Paris Agreement

**UN Sustainable Development Goals** are decided

Major customers demand green logistics services

**Investors** demand action and transparency

Regulatory requirements lean towards decarbonization of transport



Our bold long-term mission

### **MISSION 2050: ZERO EMISSIONS**



#### Four strategic targets for 2025

### We defined four strategic targets for 2025 to track progress against our 2050 mission

1. Global Target •••

By 2025, we will increase our carbon efficiency by 50% over 2007 levels to support the global ambition to limit global warming to well below 2°C.

**▲**RE-VISIT



2. Local Target • • •

By 2025, we will improve local quality of life by delivering 70% of our own first and last mile services with clean pick-up and delivery solutions.

2050
ZERO
EMISSIONS

••

By 2025, more than 50% of our sales will incorporate Green Solutions which make our customers' supply chains greener.

4. People Target • • •

**Economic Target** 

By 2025, we will have trained 80% of our employees to become certified GoGreen specialists and we will actively involve them in our environmental and climate protection activities. This includes joining partners to plant one million trees each year.

**▲**RE-VISIT

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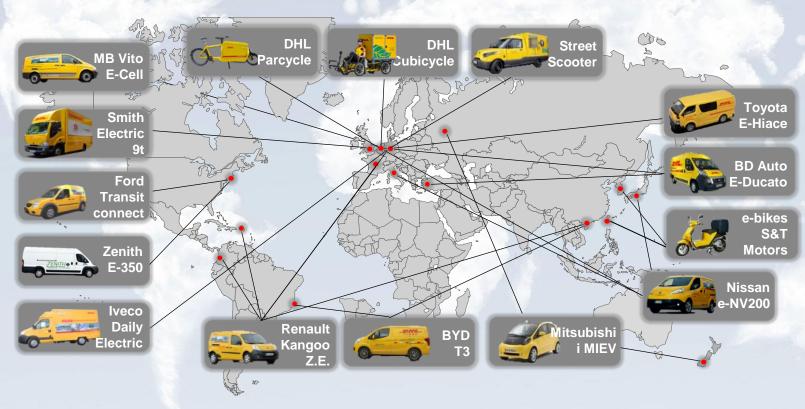
Source: Deutsche Post DHL Group

If you want something new you have to stop doing something old.

Peter Drucker

#### Global efficiency technologies - Last mile delivery

## Electric vehicles offer benefits especially in the short and start-stop intensive driving cycles in 'last mile' delivery



Source: Deutsche Post DHL Group

# StreetScooter Work – The first electric vehicle developed in collaboration with delivery staff

#### **Motivation for in-house development**

- Fast achievement of target costs
- Guarantee of optimal ergonomics
- Better visibility conditions and robustness
- Emotional enthusiasm of delivery staff
- Reduction of CO<sub>2</sub>, local emissions and noise

#### **Technical data**

- Range 80 km
- 4 m³ loading volume
- 710 kg payload
- 20.4 kWh battery capacity
- 48 kW power
- Total weight 2.1 t
- Max. 85 km/h (DP), up to 120 km/h possible



Source: Deutsche Post DHL Group

### StreetScooter Portfolio – Tailor-made tools for last-mile delivery

	Bike	Trike	Work	Work L	Work XL
			WORE	Work	
Status	Series prod., > 1,000 in ops	5 prototypes in testing	Series prod., > 3,400 in ops	Series prod., 150 in ops	170 by end of 2017
Capacity	4 boxes	6 boxes	4 m³	8 m³	20 m³
Payload	50 kg	90 kg	710 kg	1.000 kg	1.250 kg
Payload tot. weight	210 kg	285 kg	2.080 kg	2.650 kg	4.250 kg
Engine	250 W	250 W	48 kW	64 kW	84 kW
Max. speed	25 km/h	25 km/h	85 km/h	85 km/h	85 km/h
Battery capacity	480 Wh	2 x 480 Wh	20 kWh	29 kWh	48 - 96 kWh
Range	25 km	30 km	80 km	80 km	80 – 200 km

#### Past and current evolution steps of containerization

#### The containerization concept is undergoing continuous advancements

**2015:** Introduction of Cubicycles for last mile delivery



Cubicycle

Source: Deutsche Post DHL Group

**2016:** Introduction of van/ trailer combinations to carry the boxes to inner city swapping zones



Trailer City-Hub



3 CubiVan

2017: Replacement of the van/ trailer combinations by e-vans carrying the boxes to the inner city swapping zones















The best way to predict the future is to create it.

Peter Drucker