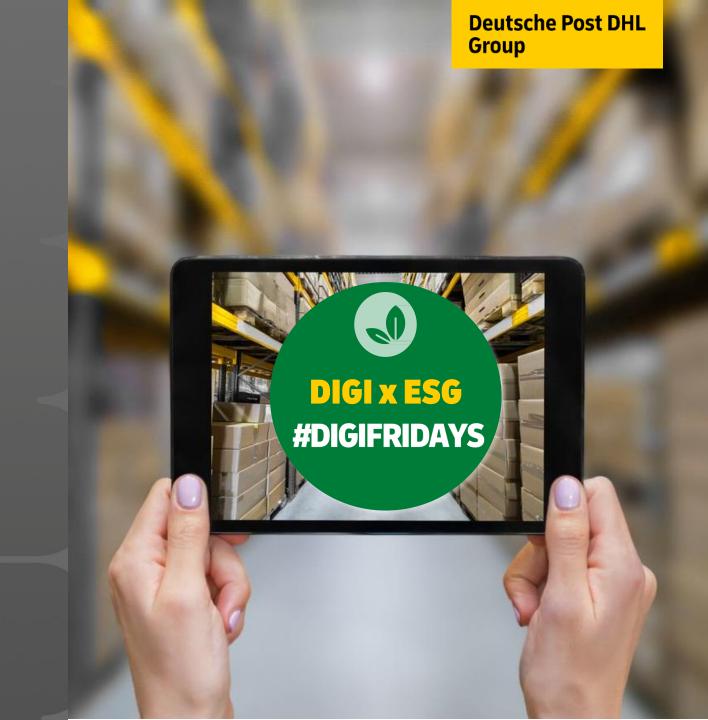
# DIGITAL PATH TO SUSTAINABILITY

DIGIXESG #DIGIFRIDAYS





# #DIGIFRIDAYS



**DIGI x ESG** 

June 2<sup>nd</sup> @15.00 CEST





**DIGI x E-commerce** 

June 16<sup>th</sup> @15.00 CEST







June 9<sup>th</sup>
@15.00 CEST





**DIGI x CX** 

June 23<sup>rd</sup> @15.00 CEST



Digi x ESG
Digital Path to Sustainability

### **Yin Zou**

EVP Corporate Development DPDHL Group

DHL Express
Fuel Optimization Program

### **Guy Jaspers**

Senior Director, Global Network Support DHL Express

DHL Supply Chain
Al Solution Opticarton

### **Katharina Tomoff**

SVP Environment, Social and Governance DHL Supply Chain

**DHL GoGreen Dashboard** 

### **Patric Puetz**

Head of ESG Accounting & EU Taxonomy DPDHL Group



## DIGITAL PATH TO SUSTAINABILITY

**DIGIXESG** 

YIN ZOU

EVP CORPORATE DEVELOPMENT DPDHL GROUP



JUNE 2023 – DEUTSCHE POST DHL GROUP INVESTOR RELATIONS

# Charting the digital path to sustainability: leveraging digitalization for a sustainable future



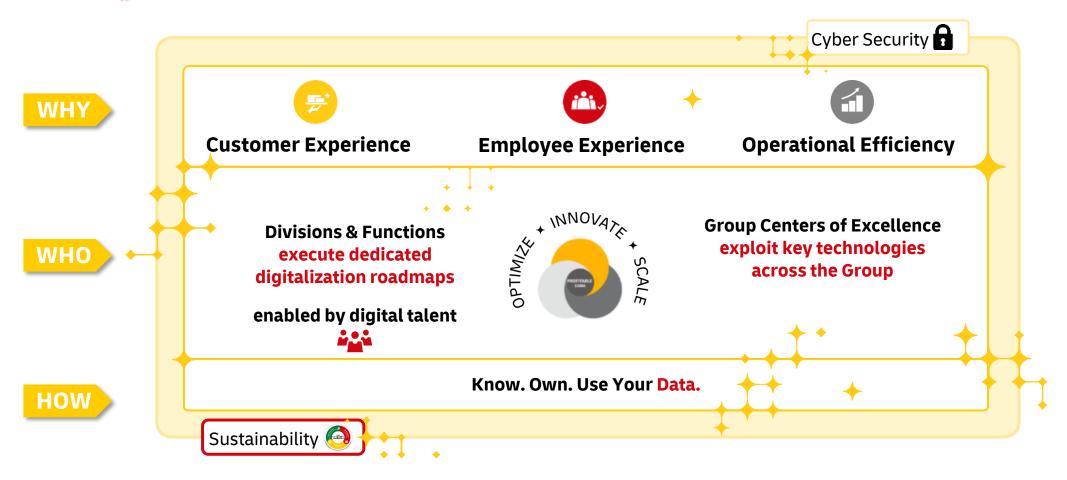
### Digitalization is shaping the logistics industry and powering our Group Strategy





# Our Group Digitalization Roadmap accelerates our digital journey and is closely linked to our sustainability efforts

**Digitalization @ DPDHL** is the use of technology to optimize, innovate and scale our profitable core to enhance customer and employee experience and gain operational efficiency.



# Digital technologies elevate the customer and employee experience while boosting operational efficiency – in a sustainable way

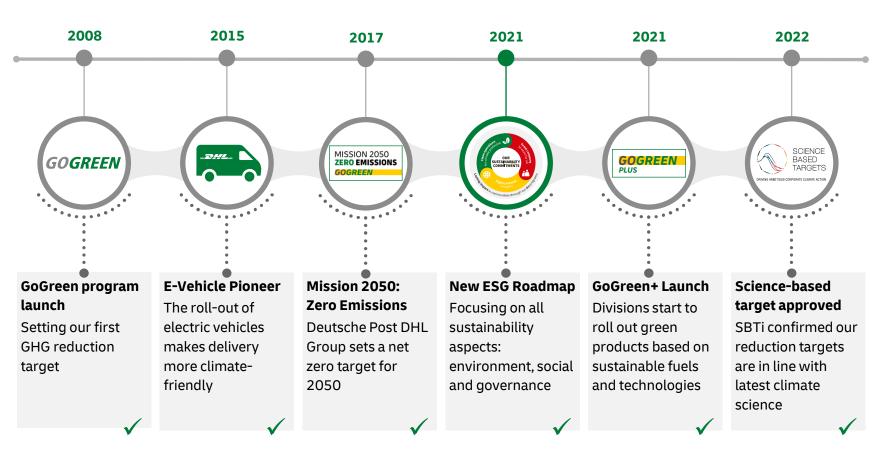


# Digital disruption for a sustainable future: technology drives the environmental progress in logistics



# DPDHL has been focused on environmental topics for many years

### Selected ESG milestones at DPDHL Group





# Our DPDHL Group ESG Roadmap defines a clear path forward towards cleaner and greener logistics



## **Clean operations** for climate protection

Reduce emissions to **<29m tonnes CO2e** by 2030 (SBTi). No offsetting included.

- >30% share of sustainable fuels by 2030
- 60% e-vehicles used in pick-ups and deliveries by 2030
- All new, owned buildings will be climate neutral by 2030



## **Great company** to work for all

We provide a safe, non-discriminatory working environment where employees can develop as individuals.

- Approval rating of >80% in annual
   Employee Opinion Survey (EOS)
- Increase share of women in middle and upper management to >30% by 2025
- Reduce Lost Time Injury Frequency Rate to <3.1 by 2025</li>



## Highly trusted company

We render our services in compliance with current legislation and in accordance with our own values

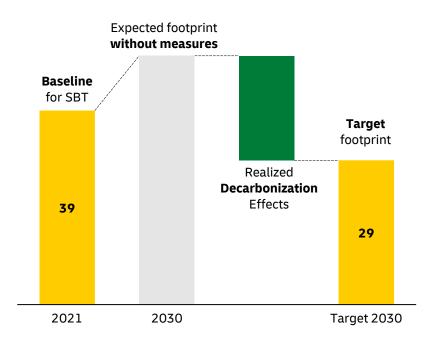
- 98% valid compliance training certificates for management
- Cybersecurity rating of at least 710/900 points\*

<sup>\*</sup>The rating agency, BitSight announced that it would be making changes to its method which will have an impact on the rating scale and could influence our results

# We set an ambitious target for decarbonization until 2030 and are committed to spend up to €7bn on decarbonization

< 29 Mt CO<sub>2</sub>e EMISSIONS

The Group's  $CO_2$ e emissions are to be reduced from 39 Mt in 2021 to below 29 Mt by 2030 in line with the requirements of the Science-based Targets initiative.



**30%** OF BOARD OF MANAGEMENT BONUS LINKED TO ESG TARGETS

### Criteria for Annual Variable Pay for Board of Management



# All customers benefit from this commitment through incremental emission reductions and we offer optional GoGreen Plus

### GoGreen Plus Offerings which allow customers to inset their carbon emissions associated with their shipments

## Time-Definite-International DHL Express

- Insetting via Sustainable Aviation Fuel
- Flexible CO<sub>2</sub>e reduction levels for contract customers
- Standard offering at 30% CO<sub>2</sub>e reduction for smaller/ad-hoc customers

## Air Freight DHL Global Forwarding



- Insetting via Sustainable Aviation Fuel
- Flexible CO<sub>2</sub>e reduction levels

## Ocean Freight DHL Global Forwarding



## Road Freight DHL Freight



- Insetting via Sustainable Marine Fuel
- Less-Container-Loads: Default service, 100% CO<sub>2</sub>e reduction levels
- Full-Container-Loads: flexible CO<sub>2</sub>e reduction levels
- Insetting via Sustainable Fuel
- 100% CO<sub>2</sub>e reduction levels
- Available for Less-Truck-Loads (EuroConnect, Eurapid), direct Full & Part-Truck-Loads (EuroLine)

## Warehousing & Transport DHL Supply Chain

- Warehousing: >75% or 100% CO<sub>2</sub>e reduction levels
- Transport: 50-70% CO<sub>2</sub>e reduction levels (Sustainable Fuel) or 100% CO<sub>2</sub>e reduction levels (eVs)

## Transport DHL eCommerce Solutions



- Sustainable Fuel for pick up or line haul
- Up to 100% CO<sub>2</sub>e reduction levels

## Parcel Germany P&P Germany



- Insetting via e.g. sustainable fuel, heat pumps, electric vehicles
- 100% CO<sub>2</sub>e reduction levels
- Rail transport

### Mail Germany P&P Germany

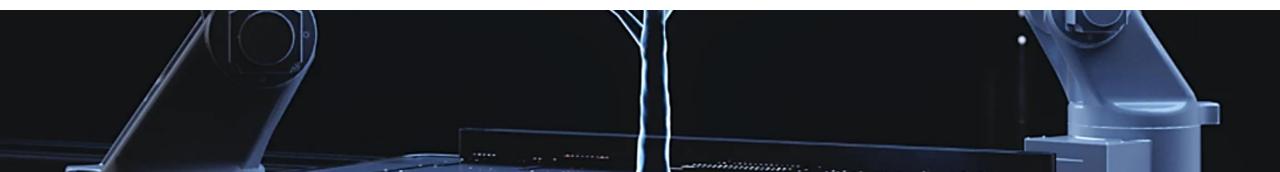


- Insetting via e.g. sustainable fuel, heat pumps, electric vehicles
- 100% CO<sub>2</sub>e reduction levels
- Available for Mail Communication, Dialogue Marketing and Press Service





# LET'S EXPLORE THE DIGITAL PATH TO SUSTAINABILITY



# DATA TURNED INTO CO<sub>2</sub>e AVOIDANCE

COME FLY WITH US ON OUR JOURNEY TO ZERO EMISSIONS

### **GUY JASPERS**

SENIOR DIRECTOR, GLOBAL NETWORK SUPPORT DHL EXPRESS



## **AVIATION** IS AN INTEGRAL PART OF DHL EXPRESS BUSINESS



### DHL Express approach to sustainable aviation

### NEW AIRCRAFT TECHNOLOGY



## SUSTAINABLE AVIATION FUEL



## **OPERATIONAL EFFICIENCIES**





**Clean operations** for climate protection



MISSION 2050 ZERO EMISSIONS GOGREEN



Optimize aircraft loading to better center of gravity



Planned Payload Closer to Actual



Optimize flap settings at takeoff



Optimize flap settings at landing



Fly economy mode, lower speeds



On landing approach apply continuous descent



Taxi in after landing with one engine instead of two



Eliminate Waiting Time At Stand Deutsche Post DHL Group



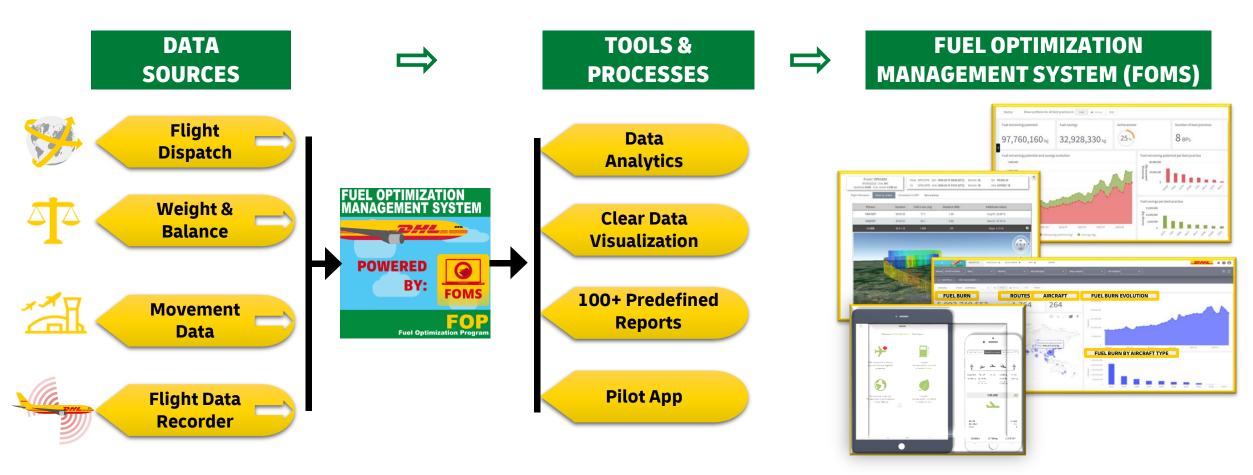
DEPLOYING SUSTAINABLE
PROCESSES AND POLICIES TO
IMPROVE AVIATION
FUEL EFFICIENCY

Standard Operating Procedures (SOP)

600+ Flights Per Day

4,800 Opportunities Per Day For DHL Flight Crews to Perform FOP SOPs

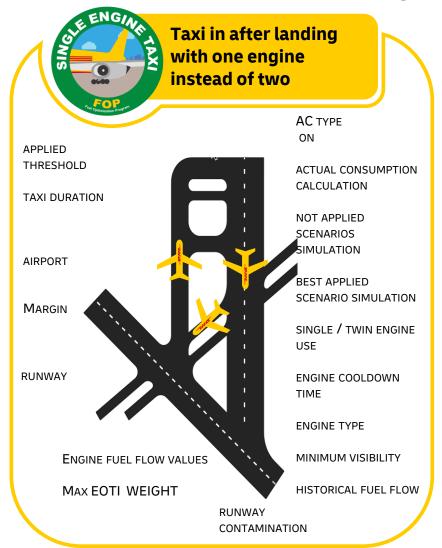
# Flight fuel burn value stream has been fully digitized enabling immediate, mid- and long-term fuel burn avoidance opportunity

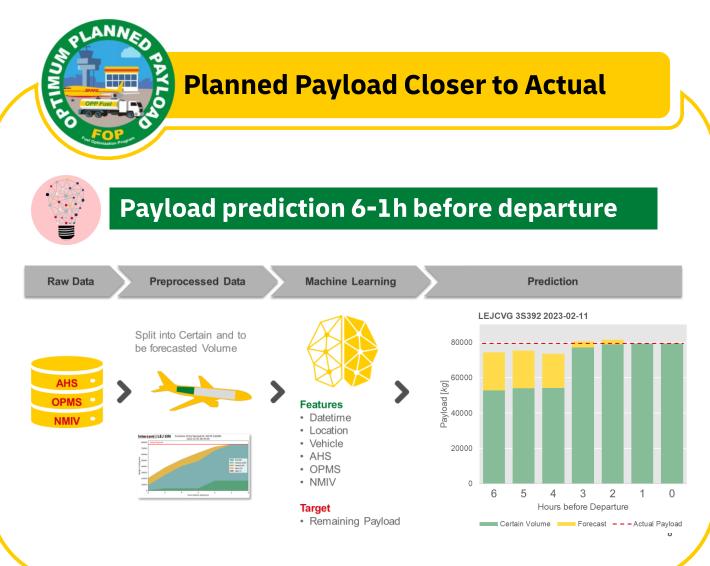


GETTING FLIGHT FUEL BURN DATA INSIGHTS TO THE RIGHT PEOPLE AT THE RIGHT TIME HAS ENABLED SUBSTANTIAL MEASURABLE FUEL BURN AVOIDANCE RESULTS

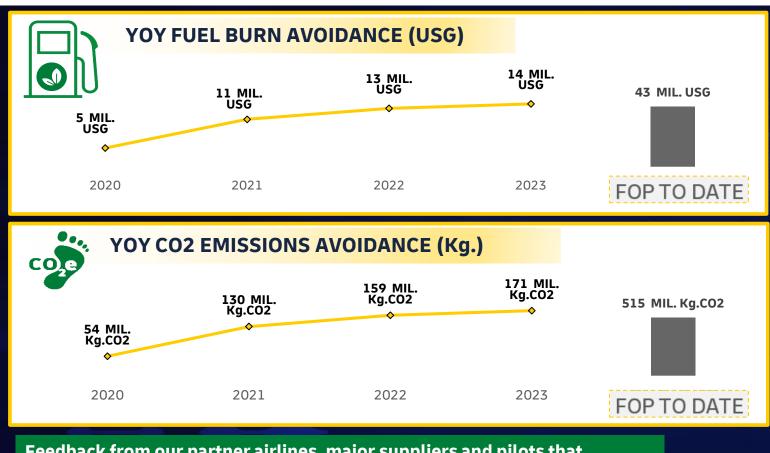
A complex challenge with a simple easy-to-understand output

**FOMS** does the heavy lifting





### Impacts & Results: Avoidance up yoy in all FOP categories



Feedback from our partner airlines, major suppliers and pilots that have joined DHL from other airlines + FOP results to date are encouraging our drive to leading the aviation industry in Fuel Optimization

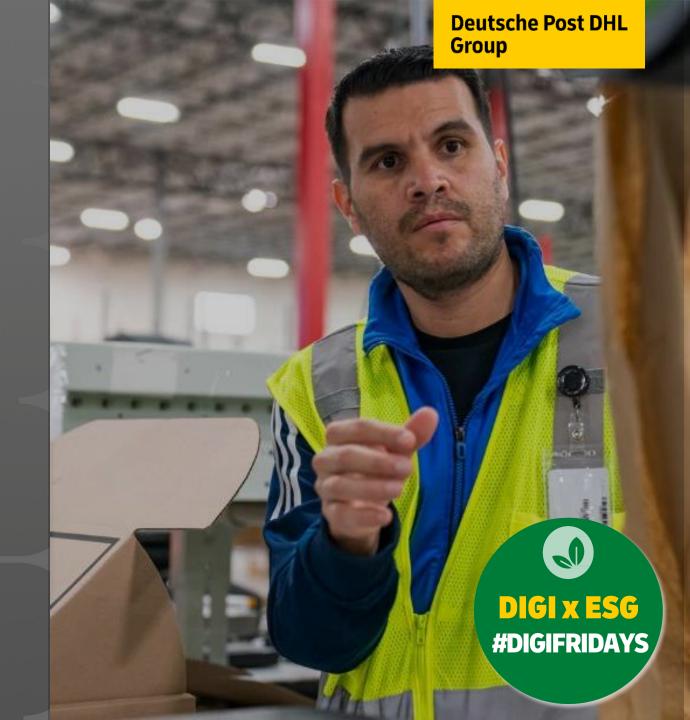


# SUSTAINABLE PACKAGING SOLUTION

DHL SUPPLY CHAIN AI SOLUTION OPTICARTON

### KATHARINA TOMOFF

SVP ENVIRONMENT, SOCIAL AND GOVERNANCE DHL SUPPLY CHAIN



## **DHL SUPPLY CHAIN**

We are the #1 contract logistics provider managing supply chains to reduce complexity for our customers





## Environment 🕠

Clean operations for climate protection

### **Net-Zero Carbon Warehouses**

All our owned or leased facilities will operate at Net Zero Carbon by 2025.

### **Reducing Transport Emissions**

We drive increased efficiency and the use of cleaner fuels within our own fleet and with our subcontractors and are committed to the Science-Based Targets (SBTi).

By 2025, we will reduce our transport  $CO_2e$  emissions by 20% compared to a business-as-usual scenario<sup>1</sup>.

### **Packaging**

We support customers with sustainable and optimized packaging solutions.

75% of our operations will use sustainable packaging materials and practices.



#### **GoGreen Solutions**

In partnership with customers we design greener supply chains through our comprehensive portfolio of green solutions.

75% of new business sales will incorporate GoGreen Solutions.

#### **Zero-Waste to Landfill**

We support customers to achieve their Zero-Waste to Landfill (ZWL) goals.

### **Sustainability culture**

Our people are Certified GoGreen Specialists, ready to drive down CO<sub>2</sub>e, energy and waste.

80% of our people will be Certified GoGreen Specialists.

## Sustainable Packaging – where do we want to go



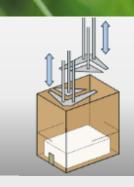
Sustainable packaging materials



Reusable and Returnable packaging



Sustainable Packaging Design



Automation and optimization



Packaging Innovations

## **Customized Packaging**





## **Customized Packaging**

% less cardboard

% reduction in void fill

**Deutsche Post DHL** 

Group

### **Carton Optimization with DHL OPTICARTON**



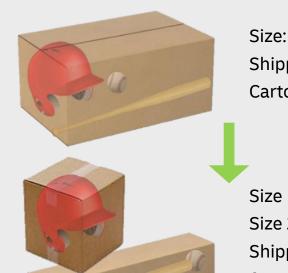
## Increasing carton optimization up to >90%



## Order Splitting

Execution system used in real-time that answers:

Should this order be prepared as one or more parcel shipments? How to optimally pack it?



Size: 44" X 16" X 12"

Shipping Cost: **60 Euro** 

Carton Utilization: 27%

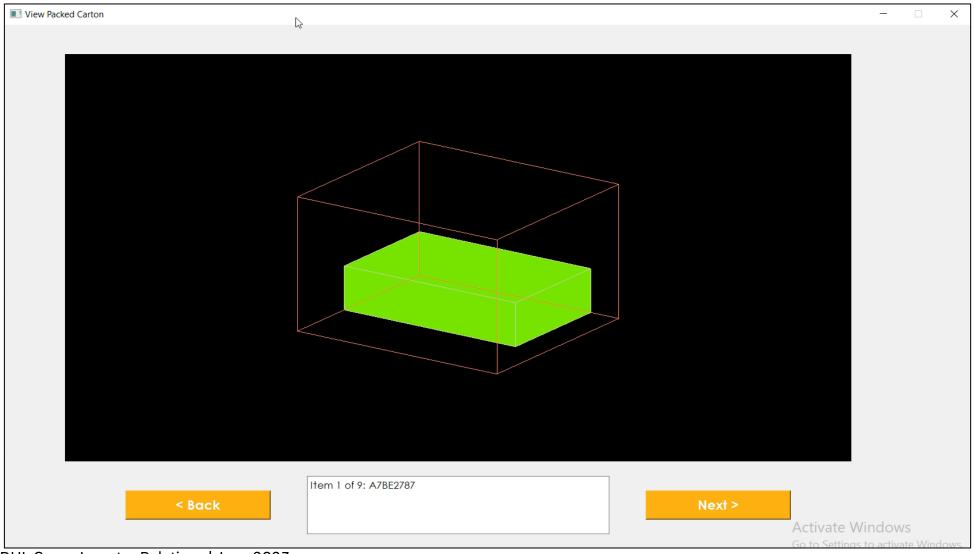
Size 1: 12" X 12" X 12"

Size 2: 44" X 4" X 4"

Shipping Cost: 45 Euro

Avg. Utilization: 92%

### Optimizing the box and the pallet... or Tetris for Pros

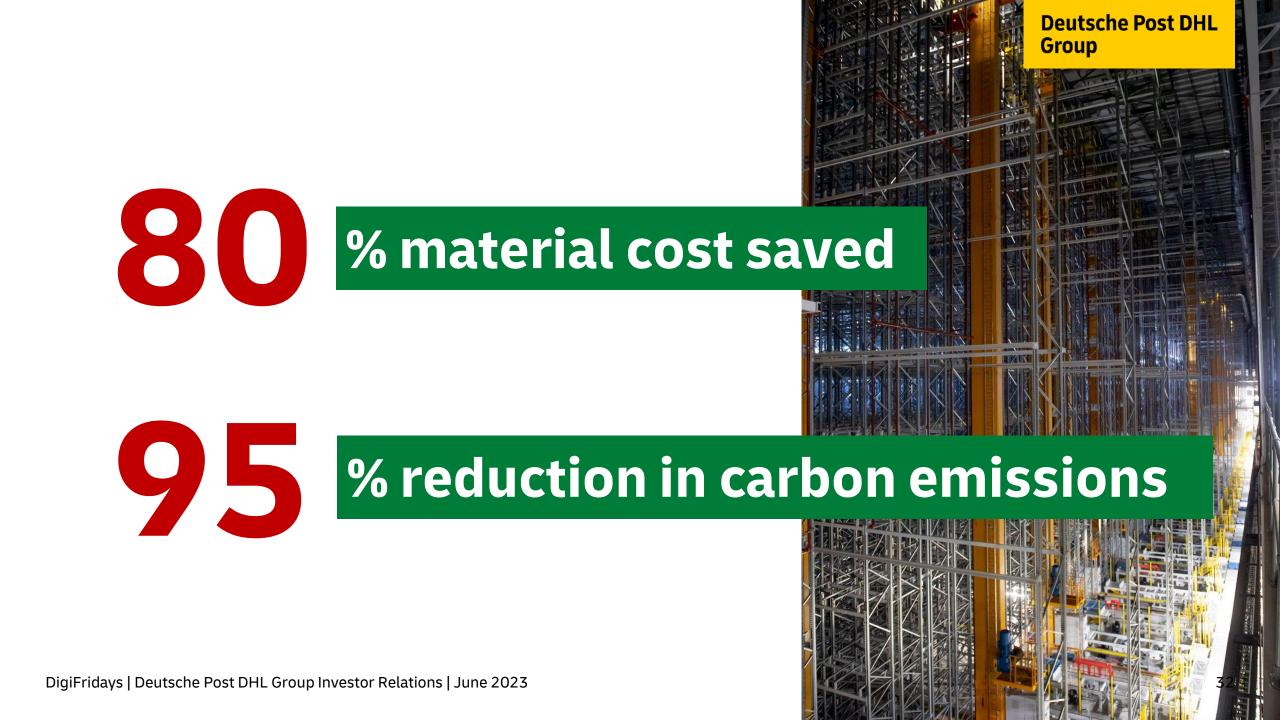












## The result on the truck



### As of today...

42 Projects

**15%** Average Carton Utilization Increase

**8%** Average Shipping Savings %

A GROWING TREND



## DHL GOGREEN DASHBOARD

FIRST, SEAMLESS CROSS-DIVISIONAL CARBON REPORTING SOLUTION

### PATRIC PUETZ

HEAD OF ESG ACCOUNTING & EU TAXONOMY DPDHL GROUP



### Carbon emissions reporting in logistics



We report customers' carbon emissions to...

Our customers want this reporting for...

- ... be compliant with **regulations and standards**
- ... enable our customers to meet climate targets
- ... strengthen our position in ESG offering & vendor selection
- ... inform our **finance stakeholders**
- ... decide on management incentives
- ... **hotspot analysis** for emissions
- ... transparent company reporting
- ... effective operations and supplier management
- ... strategic supply chain optimization
- ... product marketing
- ..

# Building on each Division's carbon reporting solution, we are launching the new DHL GoGreen Dashboard



### **Divisional Solutions**



- On a Divisional level, each business unit has their own existing carbon calculation tools to report emissions data to their own customers, e.g.:
  - CO<sub>2</sub> emissions report in myDHLi
     Analytics and Reports (DGF)
  - Other reporting formats



- On a group level, DPDHL streamlines
   and consolidates customer carbon
   emissions data across all business
   units in the new central DHL

   GoGreen Dashboard
- The tool offers customers a holistic, integrated view of their overall emissions with DPDHL Group

# DPDHL developed its very first, seamless cross-divisional carbon reporting solution: The DHL GoGreen Dashboard

## Automated monthly data update

### What is DHL GoGreen Dashboard about?



### **Key Capabilities:**

- Automated and interactive carbon reports for customers in dashboard view
- One-stop and efficient consolidation of all DPDHL divisions' carbon reports<sup>1)</sup>



### **Key Features:**

- Multiple views & charts to display key carbon emissions metrics
- Customizable dashboard/report via filters and slicers
- Monthly automated update of report<sup>2)</sup>
- Ability to export and download data



# DHL GoGreen Dashboard provides customers carbon and reporting metrics in compliance with industry standards & frameworks

### **Emissions calculation and reporting standards**



1.Basic foundation

- ISO 14064-1
- Greenhouse Gas Protocol
- **EU-ETS** (for aviation activities)



2.Transport
-specific
standards

- GLEC Framework 2.0
- EN 16258 to be withdrawn this year
- (New) ISO 14083 published in March 2023

### **DHL GoGreen Dashboard content**



Energy Consumption (Well-to-Wheel & Tank-to-Wheel)



**Emissions Intensity** 



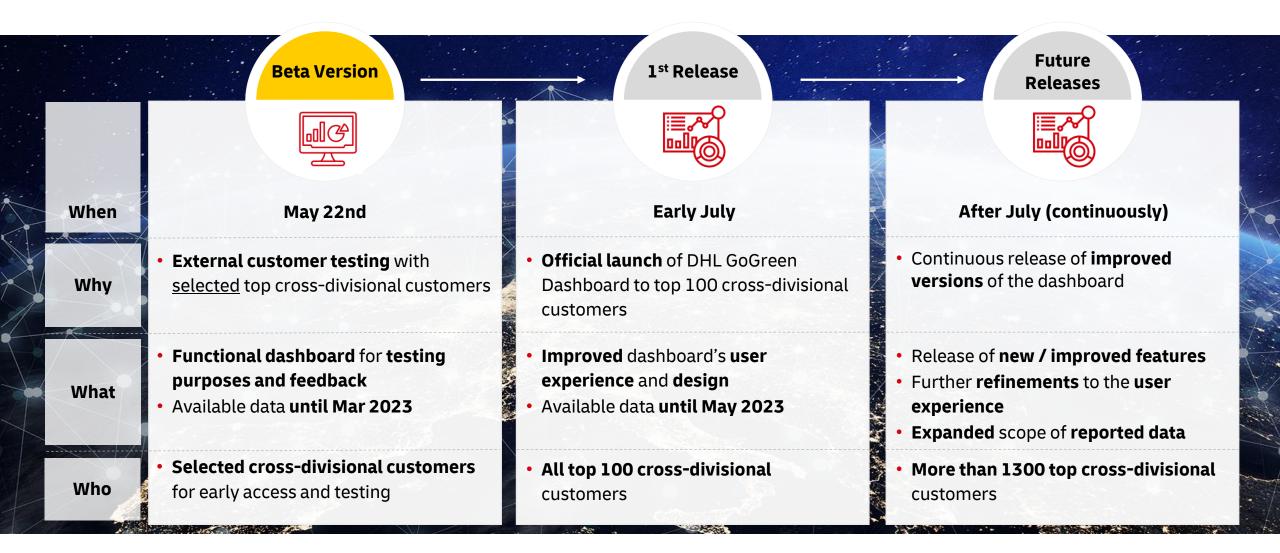
**Absolute CO<sub>2</sub>e Emissions** 



**Input Data Types** 

Available with detailed breakdown & multiple views

### **DHL GoGreen Dashboard Roadmap**



# DIGITAL PATH TO SUSTAINABILITY

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