

INNOVATION CENTER

DHL Customer Solutions & Innovation



THE NEW NORMAL: SUPPLY CHAIN TRANSPARENCY IS KEY



- Supply chains will re-shape themselves with a focus on resilience, flexibility, robustness,... and sustainability
- Supply chains will have to be re-assessed, including transportation flows and warehouse networks
- Supply chain innovation will be essential
- Collaboration along the value chain is the enabler

"In the new normal, if your supply chain is the same as the one that you had pre-coronavirus, you're probably doing something wrong."

Richard Wilding Professor of Supply Chain Strategy, Cranfield School of Management



SUSTAINABILITY: THE CHALLENGE AHEAD





Targets

23% of Fortune 500 companies committed to be carbon neutral by 2030 (4xvs.2015)

Targets are harder to reach than expected.



Transport

14% of greenhouse gas emissions worldwide

Additional delivery vehicles needed by 2030, equaling 32% additional carbon emissions.



E-Commerce

60% return rates in some product categories

Significant **emissions** growth



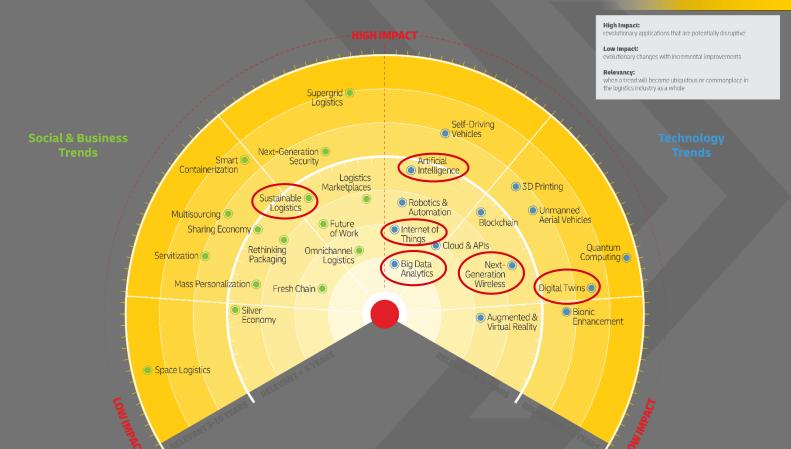
Packaging

One truckload of plastic enters the ocean each min

This is set to **Quadruple by 2050**

THE DHL LOGISTICS TREND RADARTM





TECHNOLOGY CASE STUDY



Inventory optimization & digital twin for a leading Asian airline



Challenges

- Rising costs and lower margins
- Huge amounts of available data but no feasible means of meaningful analysis
- Lack of end-to-end visibility in SKU movement



Solution

- Automated data crawling and extraction through custom-built RPA
 - New source of data made accessible for internal analysis
- Creation of a network digital twin
- Identified cost saving opportunities with statistical analysis





Significant reduction of annual Cost Spend for a limited part of the network

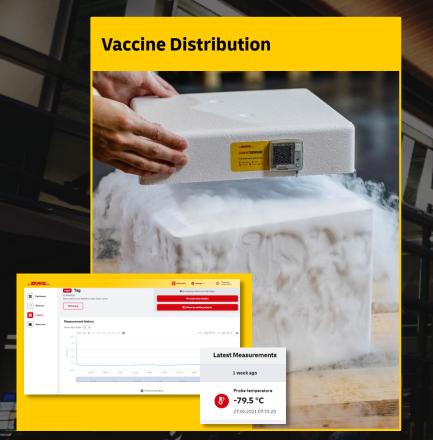
Inventory Transport
& Storage
optimization

Identified Fuel
Saving
opportunities

TECHNOLOGY CASE STUDY

Shipment Condition & Energy Monitoring



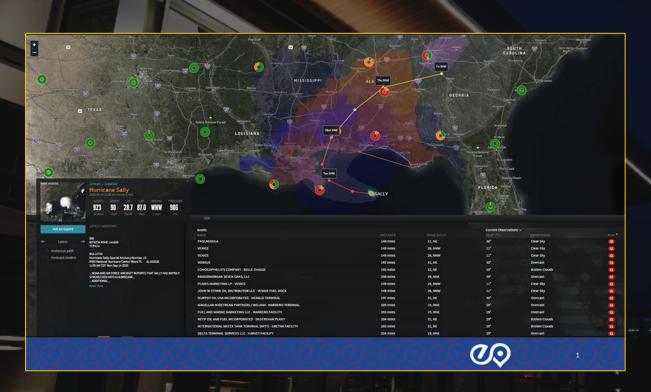


Warehouse Operations

TECHNOLOGY CASE STUDY

Predictive and real-time Risk Insights

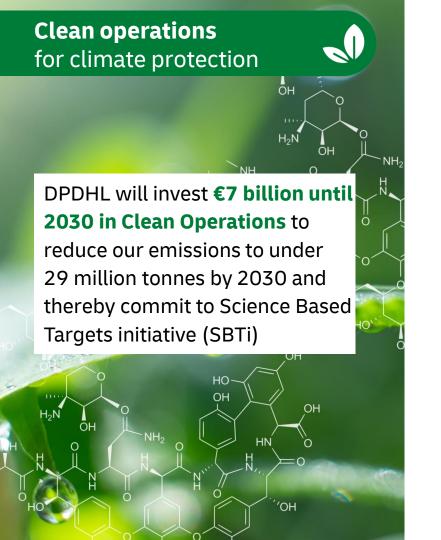






Risk Management platform

- Mapping supply chains & locations
- Building risk profiles
- Identifying critical hotspots
- Mitigate supplier risks
- Real-time visibility of shipment status, risk and adjusted ETA





Target >30% Sustainable Aviation Fuels blending by 2030 in our airfreight business



Electrify 60% of last-mile delivery vehicles & grow sustainable fuel share in line-haul on average to >30% by 2030



Carbon neutral design to be used for all new buildings



Increase the usage of **Sustainable Marine Fuel** for our FCL & LCL shipments



Offer green alternatives for all of our core products/solutions by using, for example sustainable fuels and low carbon technologies



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LOGISTICS IS DELIVERING CUSTOMER PROMISE & EXPERIENCE

Supply chain transformation from a cost driver to a value driver



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