ACCELERATED DIGITALIZATION & AUTOMATION

DHL SUPPLY CHAIN

Dr. Paul Schlinkert Mobile Robotics Summit Düsseldorf October 2025







the world's leading logistic company

DHL Group is the largest logistics company globally

>600,000 employees worldwide

179
nationalities
of employees
in Germany



2 strong brands



Deutsche Post 💢



Business in

>220 countries

and territories



Group Revenue above EUR 84 billion* **Group EBIT** around EUR **5.9** billion*

Free Cashflow around EUR

2.9 billion*



>36.000 electric vehicles worldwide

Nr.1 share of sustainable aviation fuel (SAF) among all airlines

Target by 2030**:
Reducing GHG emissions
to **<29m** metric tons p.a.

^{*} FY2024

^{**} subject to potential restatement due to methodology updates or change in business scope, e.g., due to M&A

DHL is a global logistics provider with a number of core divisions offering a diverse portfolio of logistics services

Division

DHL Express



DHL Global Forwarding and Freight



DHL Supply Chain



Post & Parcel **eCommerce** Germany



Core competence Global, urgent express shipments

Global market leader in Time Definite International (TDI)

International transportation of Air Freight,

Ocean Freight and Road Freight including Customs Clearance

Manage **supply chains** to reduce complexity for our customers. Our profitable core includes warehousing

Domestic last mile parcel delivery in selected countries outside of Germany (Europe, USA, India and selected Asian markets)

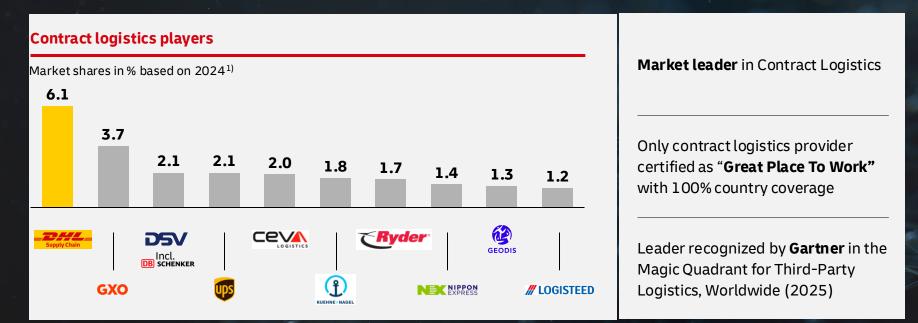
DHL

German parcel and mail incumbent with leading market **Positions**

(like USPS for Germany but publicly listed)

DHL SUPPLY CHAIN IS THE UNDISPUTED MARKET LEADER

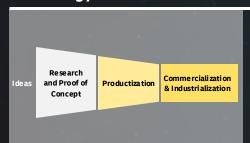
We have developed an extensive global network focused on innovation, maintaining a strong commitment to operational excellence to set ourselves apart from competition



INNOVATION & ROBOTICS

Innovation reaches its full potential when implemented at scale

Technology selection



Focused approach to identify, test and scale robotics technology

Strategic partnerships with **tech start-ups and robotics leaders**

Integration & orchestration



Sophisticated IT architecture enables us to be best integrator of software, robotics & assets

Partnerships with strategic software vendors for standard integration of multiple robotics solutions within a site

True scalability

>7,500 robots live

92% operations with 1+ digitalization project live

~€1bn invested (2020-2024)



Assisted picking robots



Goods-to-person



Indoor robotic transport

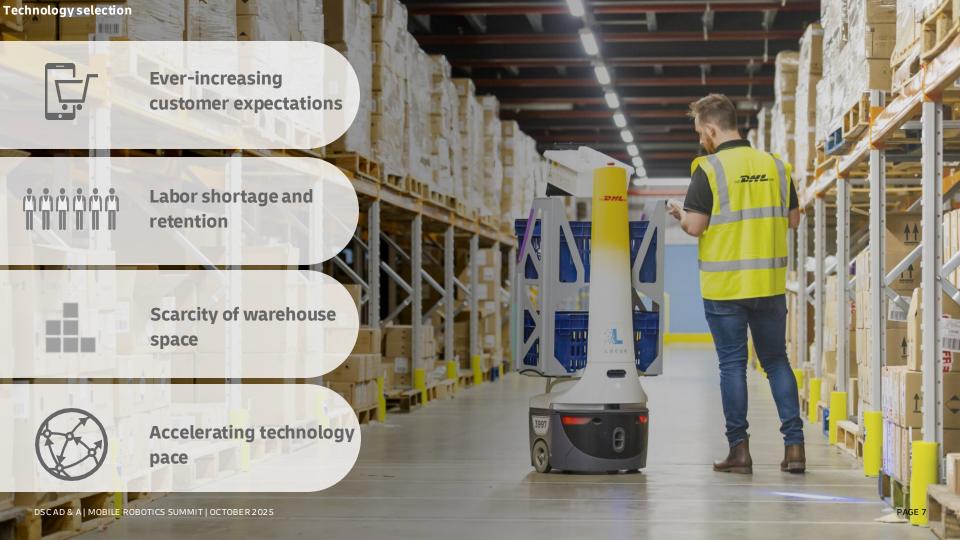


(Un)loading robots



Artificial Intelligence





Our Accelerated Digitalization and Automation journey started years ago, and it is far advanced and industry-leading



Research and Proof of Concept

Productization

Commercialization and Industrialization

Innovate with Bite



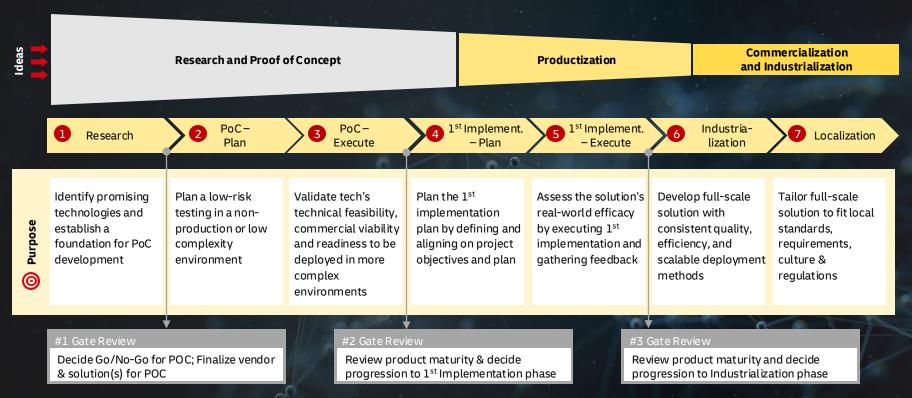
Productize with Structure



Scale with Modular Standardization



Identified 7 key project phases allow us to drive Accelerated Digitalization in a focused & orchestrated way



We have visibility on where we spend how much of our human labor. With AD&A we utilize this information to select our focus technologies and innovation areas

Visibility on labor hours per operational activity

Put-away, replenishment, pallet run	25%
Picking	35%
Packing	10%
(un)loading & Receiving	17%
Admin and communications	8%
Others	5%



We work with a clear focus on technologies that make a difference; #togetherunstoppable with a team across all functions

Accelerated Digitalization Focus technologies Fast and flexible

Assisted Picking Robots



(un)Loading Robots



Intelligent Process Automation



Packing Robots



Smart Operations



Supporting Robots



Goods-to-Person Robots



AI & Data Analytics



Sortation Robots



Indoor Robotic Transport



Wearable Devices



Asset Tracking & Monitoring





Automation Focus technologies

Mechanized, high-performance, fixed equipment

Automated Order Picking



Automated
Storage &
Retrieval System



Packing/ Labelling Automation



Mechanized Sortation



Mechanized (Un)Loading



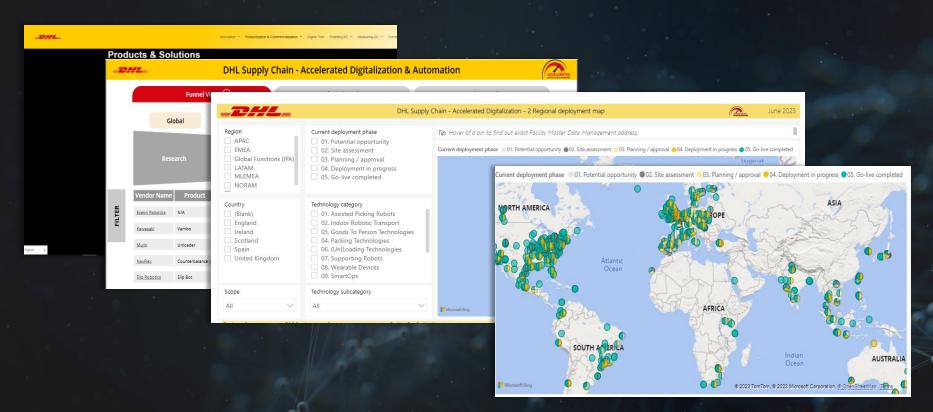
Powered Conveyors



DHL Robotics Hub

Integration platform that enables or chestration capabilities

We work with focus and consistency across all regions — to rapidly identify and replicate best practices...

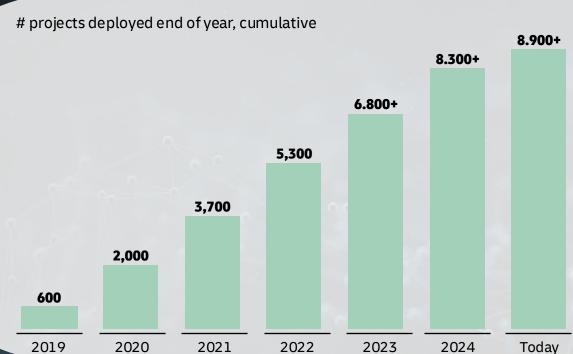


... and truly scale effective operational technology broadly across our business



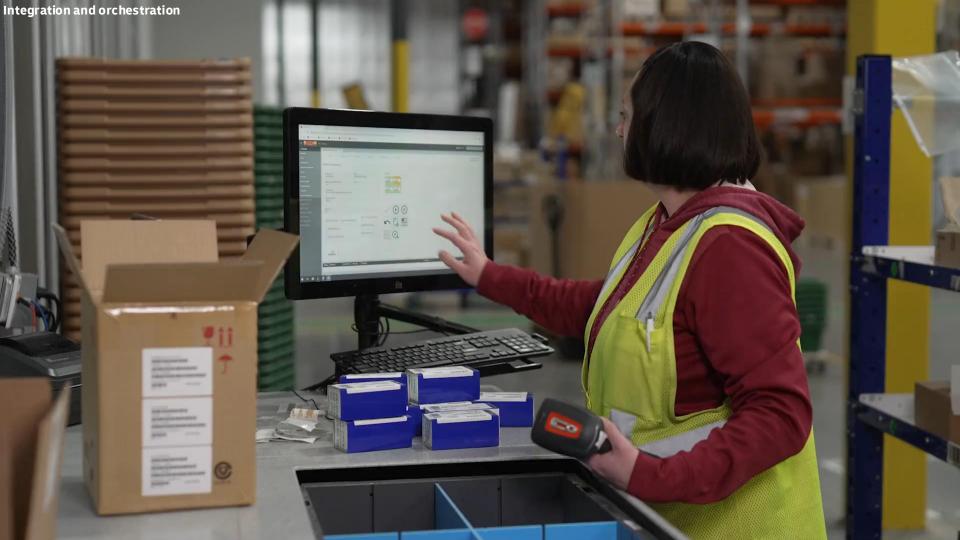
Real innovation is when you implement at large scale...

... otherwise, it's just a nice idea.



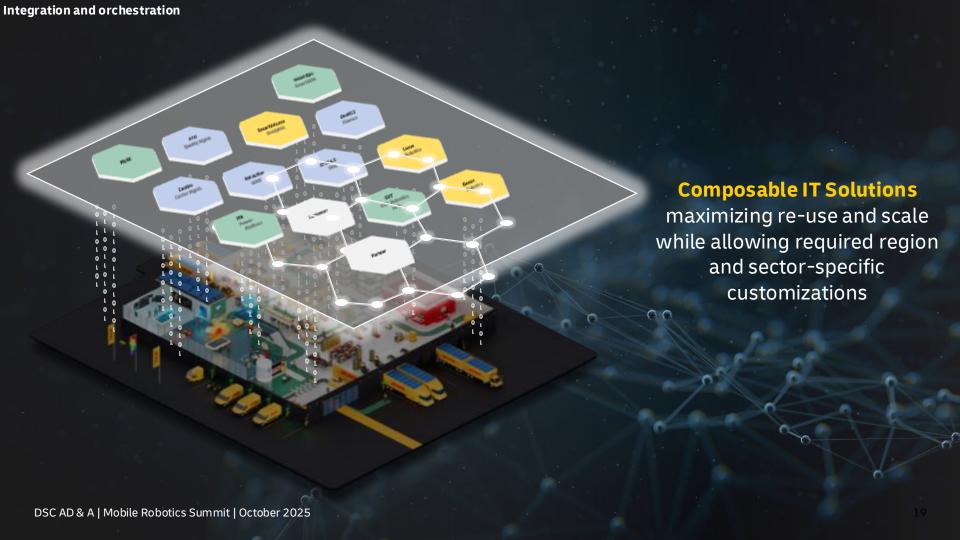












And how do Al and Gen Al fit in the picture?



AI on the shop floor is already a reality in:

Autonomous Mobile Robots applications: Navigation



Co-bots applications: Recognition technologies



... and AI is already gaining momentum in Asset Tracking, Predictive Maintenance and Analytics and Robotic Process Automation (RPA)...

Generative AI is a type of artificial intelligence that can create new content, like text, images, or code, on its own without being explicitly programmed

Generative Al

Al systems that create new content (text, images, code, etc.) based on patterns learned from data.

Al Agents

Autonomous systems that perceive their environment, make decisions, and act to achieve specific goals.

Agentic Al

Architectural pattern that uses advanced AI agents and other AI tools to create fully autonomous systems that can set their own goals, learn over time, and reason across tasks

AI transformation at DSC — built on key pillars for a streamlined Roll-out

Building sustainable internal AI capabilities ML / AI to optimize operations



Touchless
decision-making
during disposition,
improve cycle
counts, slotting,
picking

Talk to Your Data



Interact with data products via natural language

GenAl for RfP, contracts, data mapping



Streamlines contract reviews, response generation, system integration Assistant Bots



Provides summarized information from systems or e.g., translations Agentic solutions



Automate essential communications

> Transformation pillars

Policies

Technology

People & change mgt.



Governance (Gen)AI playbook



THANK YOU

We successfully deployed solutions for automating (un)loading of loose and palletized load and are scaling globally



Key benefits

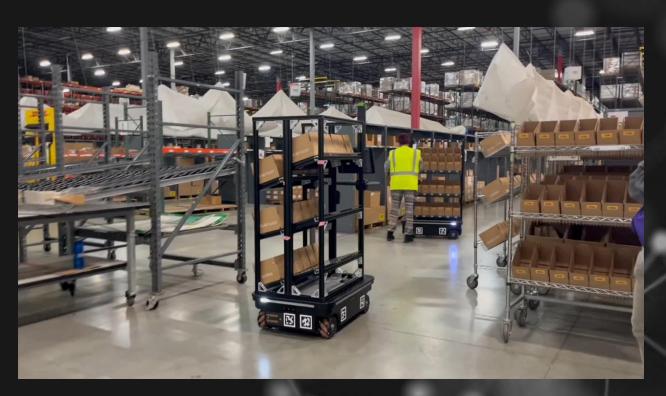
- Reducing need for colleagues (un)loading, supporting them to focus on more value-adding tasks
- Reduced error rate
- Eliminating or assisting with the heavy burden of lifting cases (loose load)
- Can be combined with a robotic palletizer to further improve the process (end-toend) (loose load)
- Improved efficiency for (un)loading cases

The first deployments of assisted picking robots laid the foundation for success, and we continue to implement and scale more solutions



Key benefits

- >30% increase in Units Picked Per Hour
- Less physical demanding work
- Minimizes worker fatigue
- Reduces error rate
- Increases employee satisfaction
- 80% decrease in training time



More mobile robotic solutions are maturing on the market and are implemented across our global warehouses



Key benefits

- Improved operational efficiency
- Less manual sorting for colleagues
- Less walking between locations
- Reduced errors
- Higher throughput
- Efficient use of space
- Can be easily scaled up or down for peak

