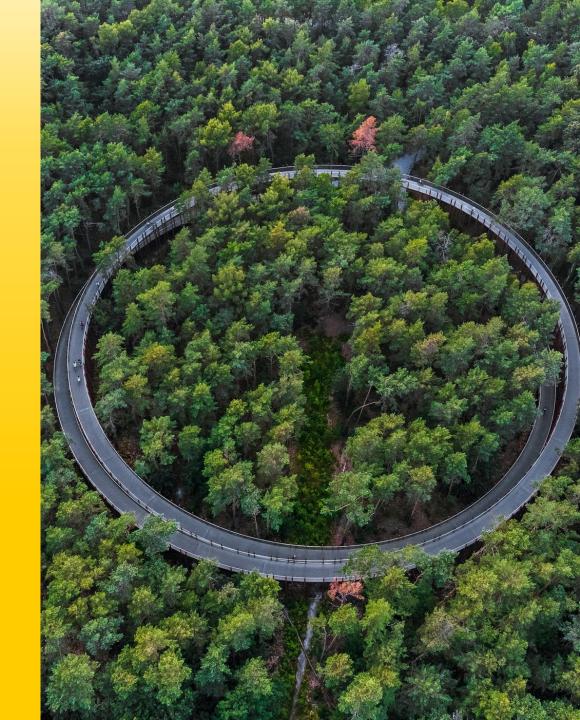
SUSTAINABLE PACKAGING & CIRCULARITY





Optimized, sustainable packaging



Environ<mark>m</mark>ent

Our packaging solutions can help you reduce waste and plastic footprint of your warehouse consumables, improve the sustainability of your secondary packaging and implement circular packaging models.

Advanced Sustainable Warehouse Consumables

Improves the sustainability of warehouse consumables by using recycled and recyclable materials as well as focusing on overall packaging waste reduction Sustainable Secondary Packaging

Supports sustainable packaging and waste reduction targets by consulting, sourcing and execution of sustainable secondary packaging

E-commerce specific solutions available

Circular Packaging

Minimizes **packaging waste** through **circular packaging** solutions.

Circular packaging focuses on reducing transport packaging to a minimum through means of returnable packaging and naked products

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Environment

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Improves the sustainability of warehouse consumables by using recycled and recyclable materials as well as focusing on overall packaging waste reduction

GoGreen Technologies¹⁾

- Zero-waste-to-landfill
- Re-purpose used inbound boxes to become void fill
- Box-on-demand
- Alternative materials (stretch warp, void fill, tape)
- Linerless labels
- Re-usable pallet wrap/pallet securing
- Re-usable boxes/crates

1) Variations due to size, geographical location, operational and statutory requirements

Sustainability @DHL

DHL Supply Chain

GoGreen Technologies

Mailing bags (PCR/Bio-based)

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Sustainability @DHL

GoGreen Technologies¹

- Naked products
- Returnable transport boxes
- Return transport

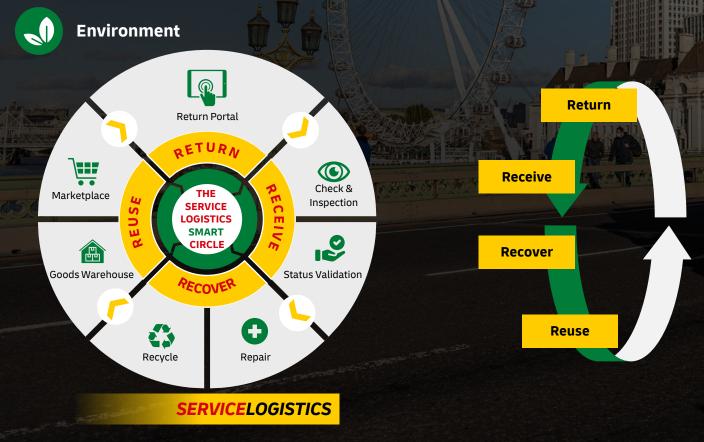
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DHL Group dual approach to rethinking packaging: Improve single-use packaging and shift to circular solutions DUAL APPROCH TO GREEN PACKAGING

	Status Quo: Single-use	Green single-use	Reusable solutions
1	 High performing packaging required in logistic processes Single-use plastic packaging dominating Most used: Pallet wrap, mailing bags, tape, labels, void fill, card board boxes 	 Reduce packaging as far as possible Ensure recyclability Use recycled, bio-based and paper-based materials 	 Eliminate packaging as far as possible Replace single-use by circular solutions
	 Light weight, easy handling, availability and low costs 	 Reduce environmental impact Maintain current processes 	 Minimize environmental impact Adapt operational processes
Pallet wrap	100% fossil-based virgin plastic, fully recyclable	 Thinner or plastic with a high % of recycled content (>30%) Reduction of virgin plastic and CO₂ emissions up to 51% 	 More than 250 cycles, CO₂ emissions lower than pallet wrap after 14 reuses Financial breakeven after ~ 65 uses Repair- & recyclable
eCom packaging	 Paper: 100% virgin Plastic: 95% fossil based, 5% recycled 	 Paper: Recycled paper or from sustainable forestry Plastic: 66-80% recycled material 	 Different materials available: Cardboard => Ecological breakeven after 2nd cycle Plastic boxes or bags => Reusable for than 50 cycles

Circularity solutions

The Smart Circle is a circular Supply chain solution that extends the value of your products and reduces their environmental impact by employing a system of return, receipt, recovery and reuse



End customers access a self-service portal to arrange a product return

Returned products are inspected and validated at the warehouse

Returned products are handled by our technical services teams for repair, re-manufacture, recycling or scrapping

Product to reutilize is routed to warehouse inventory for reuse within the network or resold via marketplace