

Circular logistics
Packaging reuse
Waste reduction

Developed by :

LogPOINT



Project by :

**Green
Turn**

On-site Carton Shredding

Vienna Living Lab



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European Union

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WHAT IS THE ON-SITE CARTON-SHREDDING SOLUTION?

E-commerce fulfilment centers receive goods in corrugated cardboard boxes. These incoming boxes are frequently discarded, while newly purchased paper or other protective materials are used to prepare outgoing parcels.

The on-site carton-shredding solution creates an internal circular process. Suitable incoming cardboard boxes are collected, sorted and processed through a carton shredder. The resulting material is then reused as protective filler for outgoing parcels.

The solution reduces cardboard waste, demand for newly purchased filler material and the environmental impact associated with packaging procurement and disposal.



Carton shredding is an established technology, but the GreenTurn innovation lies in integrating it into daily fulfilment operations and systematically measuring its effects.

OBJECTIVES

- Waste Reduction
- CO₂ Emission Reduction
- Material Cost Saving
- Avoided Disposal Fees
- Process Feasibility and Scalability
- Knowledge Transfer

Main Beneficiaries:

Food producers and retailers, fulfilment operators, last-mile carriers, e-commerce customers, public authorities and residents of Vienna.



Technology readiness level : 8
Implementation stage :
Pilot

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THE PILOT IN VIENNA, AUSTRIA

Pilot period: February 2026 – January 2027

The Vienna pilot tests the on-site cardboard shredding to produce filling material for outgoing shipments.

Suitable incoming cardboard boxes are collected, sorted and processed through a carton shredder. The resulting material is then reused as protective filler and replaces purchased materials.

The pilot assesses whether the overall demand of filler and other packaging material can be provided without additional purchase considering labor and storage cost that arise versus cost for recycling.

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more about the On-Site
Carton Shredding in Vienna**

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