

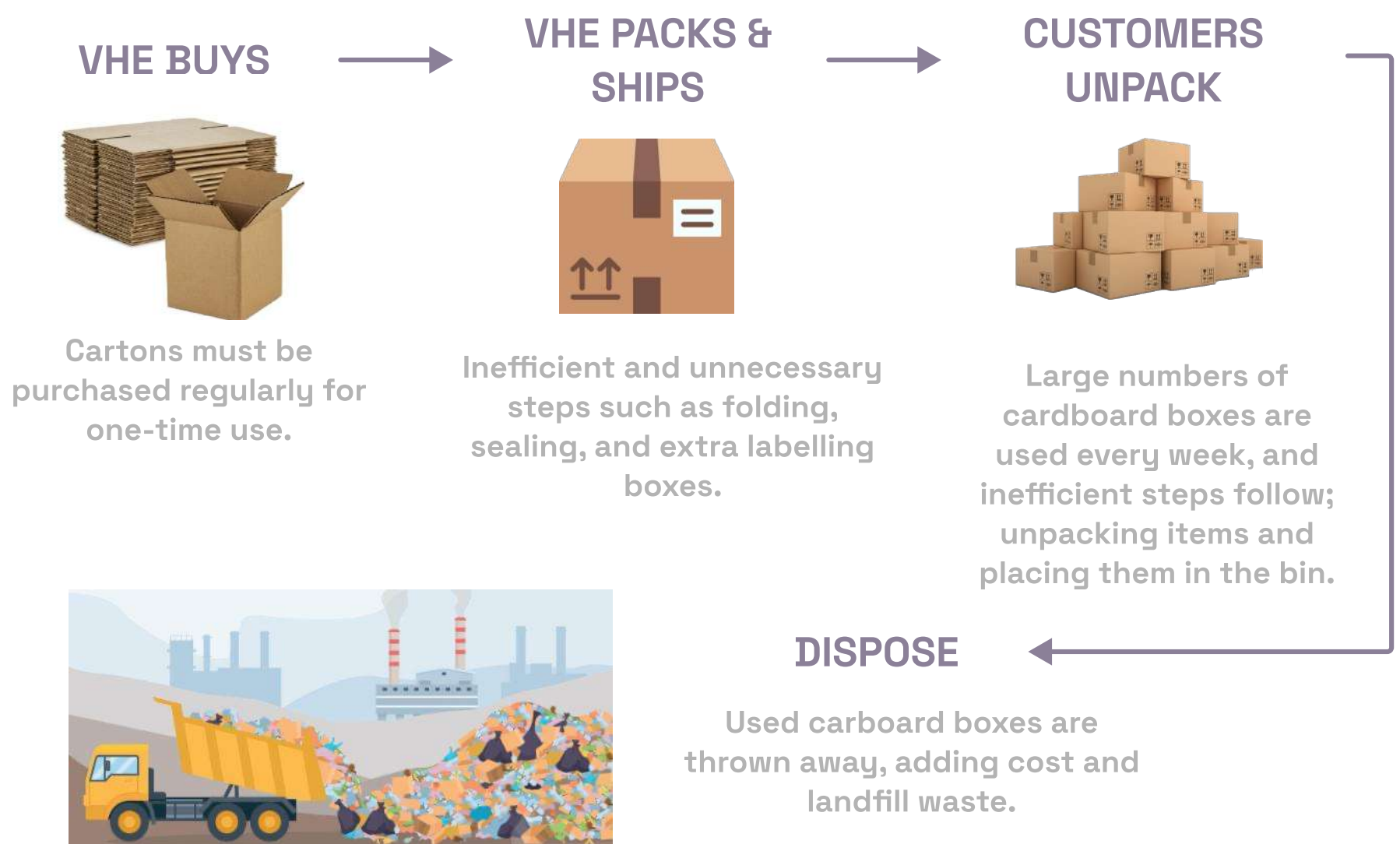
**SHIFT  
FROM DISPOSABLE  
CARDBOARD BOXES  
TO REUSABLE BINS**



# THE PROBLEM OF THE INEFFICIENT & DISPOSABLE PACKAGING

## What is VHE solving?

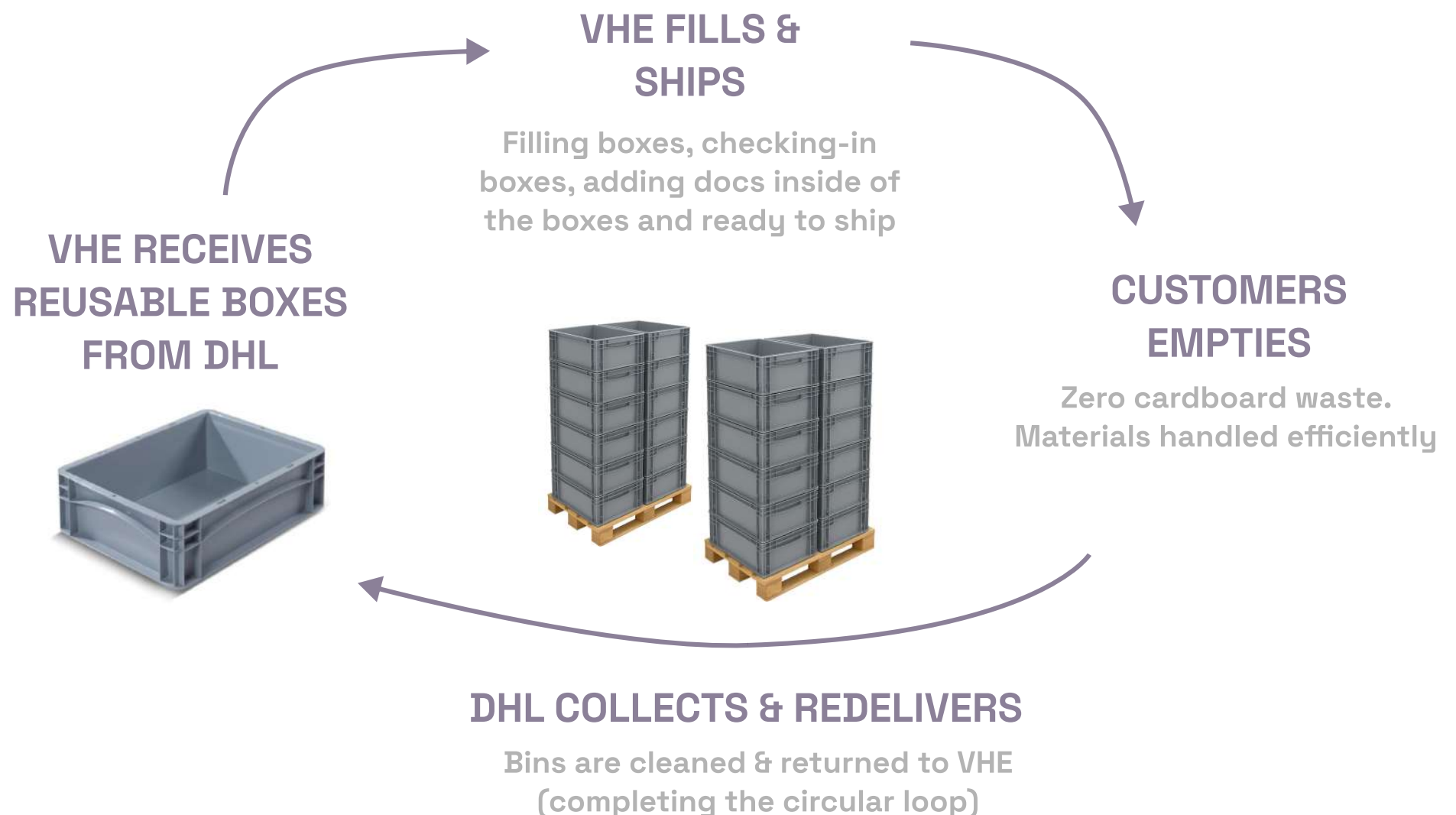
The current shipping model creates a large-scale disposal of cardboard boxes and unnecessary work in the supply chain. They require folding, sealing, extra labelling, and unpacking.



# REUSABLE BINS REPLACING DISPOSABLE BOXES

## How is VHE solving?

Together with DHL, VHE replaced cardboard boxes with reusable boxes in the weekly supply flow. This reusable system, improves cycle time, cuts waste, and create a more efficient supply chain.



# A CIRCULAR PACKAGING SOLUTION BY VHE & DHL: DRIVING CIRCULARITY & EFFICIENCY IN SUPPLY CHAIN

## What is the impact?

The pilot proved that reusable bins are not only sustainable but also efficient:

- Eliminated the use of ~510 cardboard boxes.
- Reduced landfill waste (~ 70kg yearly) & CO2 (~ 90kg yearly).
- Improved cycle time (~ 1.5 min/per box).
- Created a closed-loop flow ready for scale-up across suppliers.

## >>> HOW DID THEY GET THERE?



# IMPORTANT STEPS IN CREATING SUCCESSFUL **CIRCULAR INNOVATION**

What have VHE, DHL & customer collectively done to drive circular innovation?

- ✓ Rethought disposable packaging flows.
- ✓ Joint collaboration to create value for all parties.
- ✓ Tested, learned, & improved pilot runs to prove the concept.
- ✓ Data-driven decision to measure impact.



**“ IF YOU ARE MOTIVATED TO GET  
STARTED WITH CIRCULARITY,  
THE CIRCULAR INNOVATION  
PROGRAM HELPS YOU THINK IN  
THE RIGHT WAY AND CONNECT  
WITH THE RIGHT PEOPLE TO  
ACHIEVE REAL RESULTS. ”**

BENNY CARELS - VHE - COMMERCIAL MANAGER

This chain project is powered by CIP. The program is organised and facilitated by ImpactX as an independent chain orchestrator for circular transition in the high tech sector.

**“ THE CIRCULAR INNOVATION PROGRAM HAS BEEN GREAT IN BRINGING TOGETHER THE RIGHT PEOPLE AT THE RIGHT MOMENT. THROUGH CROSS-COMPANY COLLABORATION, WE WERE ABLE TO GO BEYOND THE PILOT AND PRESENT AN IMPLEMENTED SOLUTION ALREADY! ”**

PEPIJN WESTER - DHL SUPPLY CHAIN- OPERATION MANAGER

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# INNOVATION THRIVES ON COLLABORATION— WHAT COULD THIS APPROACH DO FOR YOUR VALUE CHAIN?

What ideas do you have for  
circular innovation, but you're  
unsure how to get started?

## LET'S EXPLORE THE OPPORTUNITIES TOGETHER!



ON A MISSION TO DRIVE CIRCULAR BUSINESS IN THE  
HIGH-TECH SECTOR TOWARDS AN INDUSTRIAL SCALE

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