

The background image shows a recycling facility with three workers in blue shirts and gloves. They are working with large white bags on a conveyor belt. The facility has a corrugated metal wall and various equipment.

Reuse before Recycling: WorldBag Reconditioning Service



Organising partner

ecovadis

Featured companies



dutch-bangla pack[®]

worldbag[®]

Today's sessions



**The Impact of the Circular Economy
on Flexible Packaging**

09:00-10:00 hrs CET



**Reuse before Recycling: WorldBag
Reconditioning Service**

10:30-11:30 hrs CET



**Design for Recycling and Recycling
for Design**

12:00-13:00 hrs CET



**The Added Value of the SA8000
Certificate**

13:30-14:30 hrs CET

worldbag®

lc packaging®



Commercial Lead



Managing Director
Germany



- About WorldBag
- Environmental impact
- Market potential and business models
- Benefits of reconditioning
- Quality control
- Cleaning technology
- Reporting
- Potential challenges
- WorldBag solution in practice



About WorldBag



- Specialist in the reconditioning of FIBCs
- Founded in 1995
- Located in Almere, the Netherlands
- 2,000 m² reconditioning facility incl. warehousing
- Member of LC Packaging since 2009



save the planet: refurbish & recycle



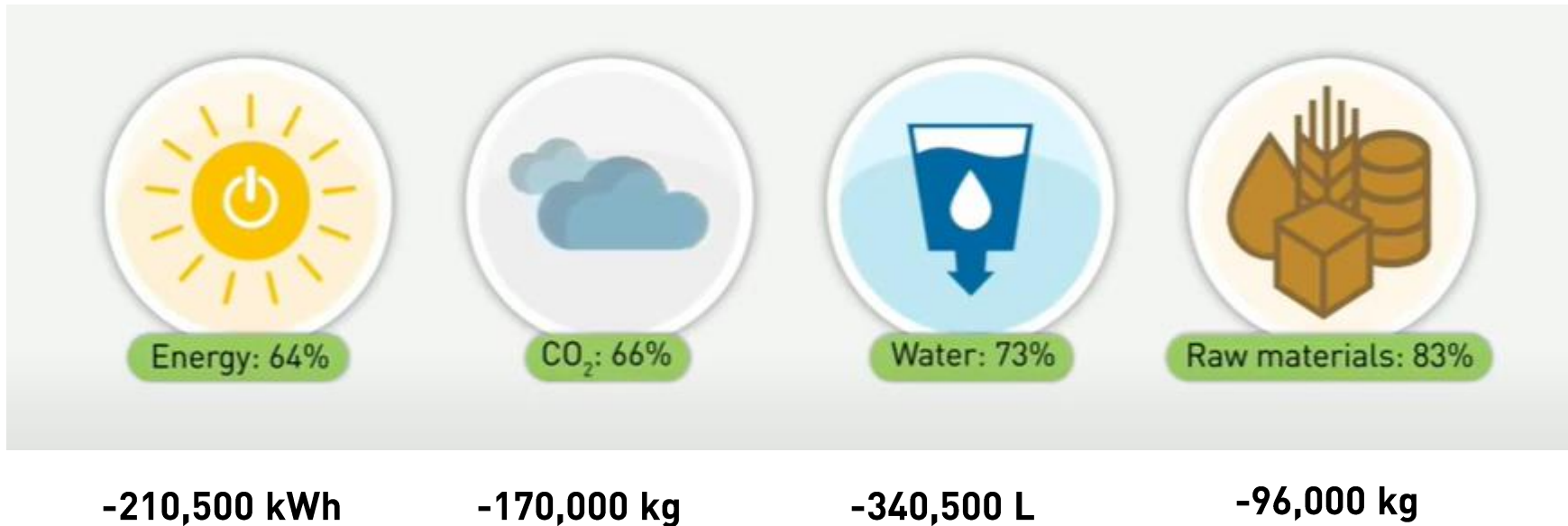
save the planet: refurbish & recycle

C L O S E D L O O P F O R M U L A



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When reusing 10,000 big bags, 5 times, you save:



Source: external research based on GHG protocol

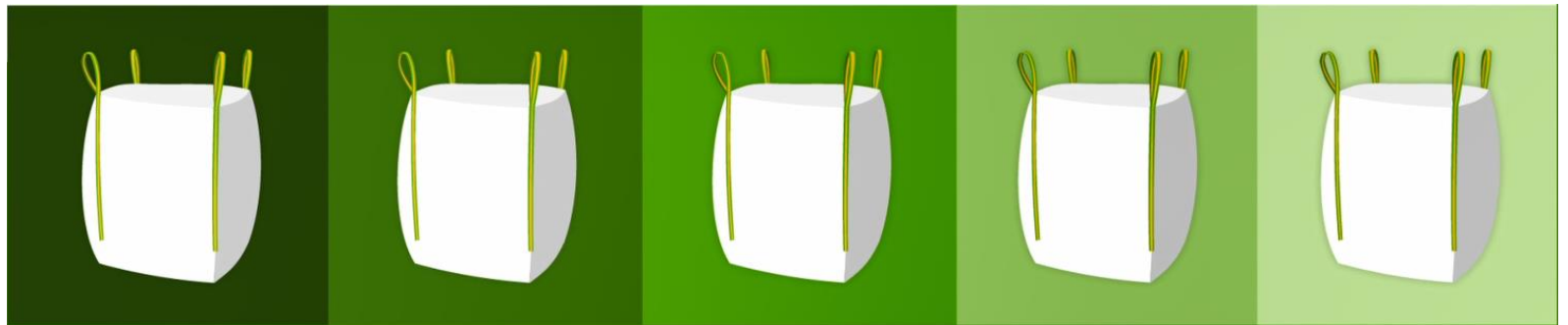
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Definition of 'reuse'

When you **reuse** something, you use it again instead of throwing it away.

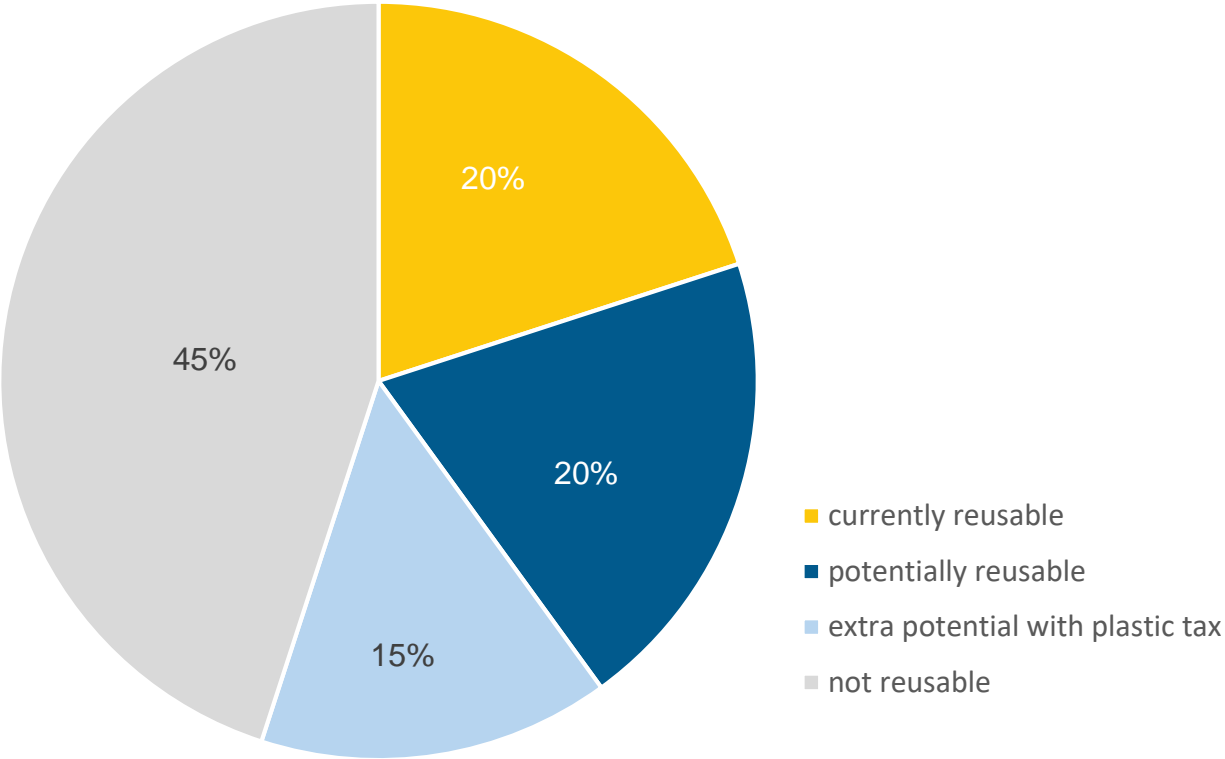
The ideal reusable big bag...

- ... is multi trip (6:1)
- ... according to ISO standards
- ... can be reused up to 5 times



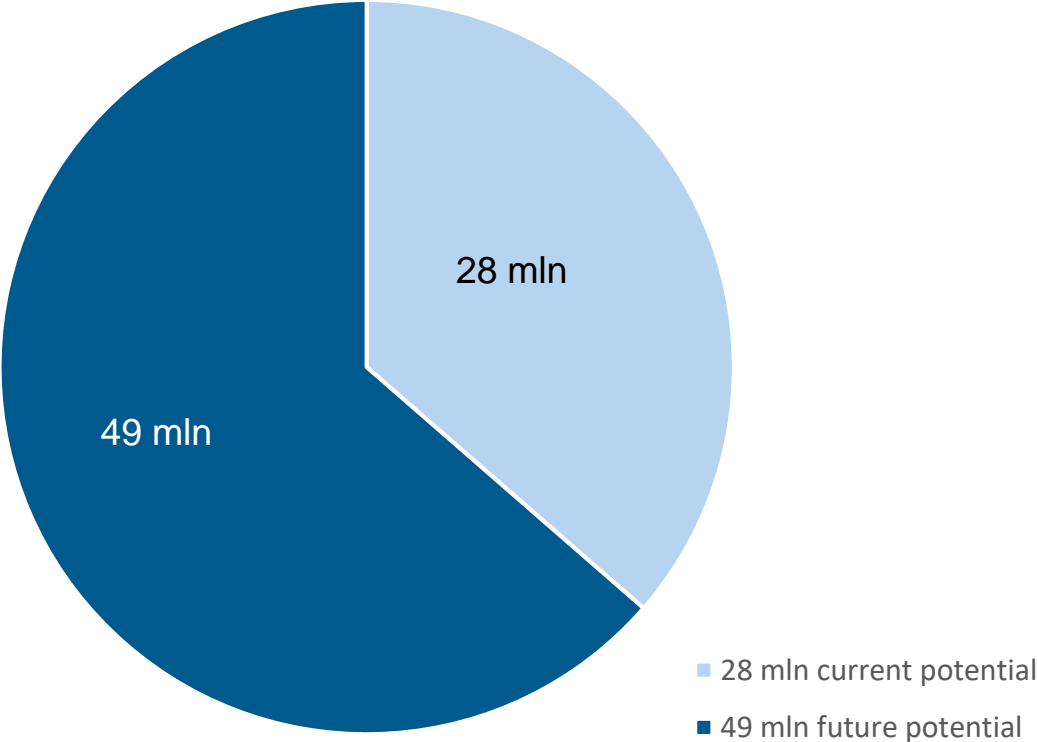
Current total European consumption

140 million big bags

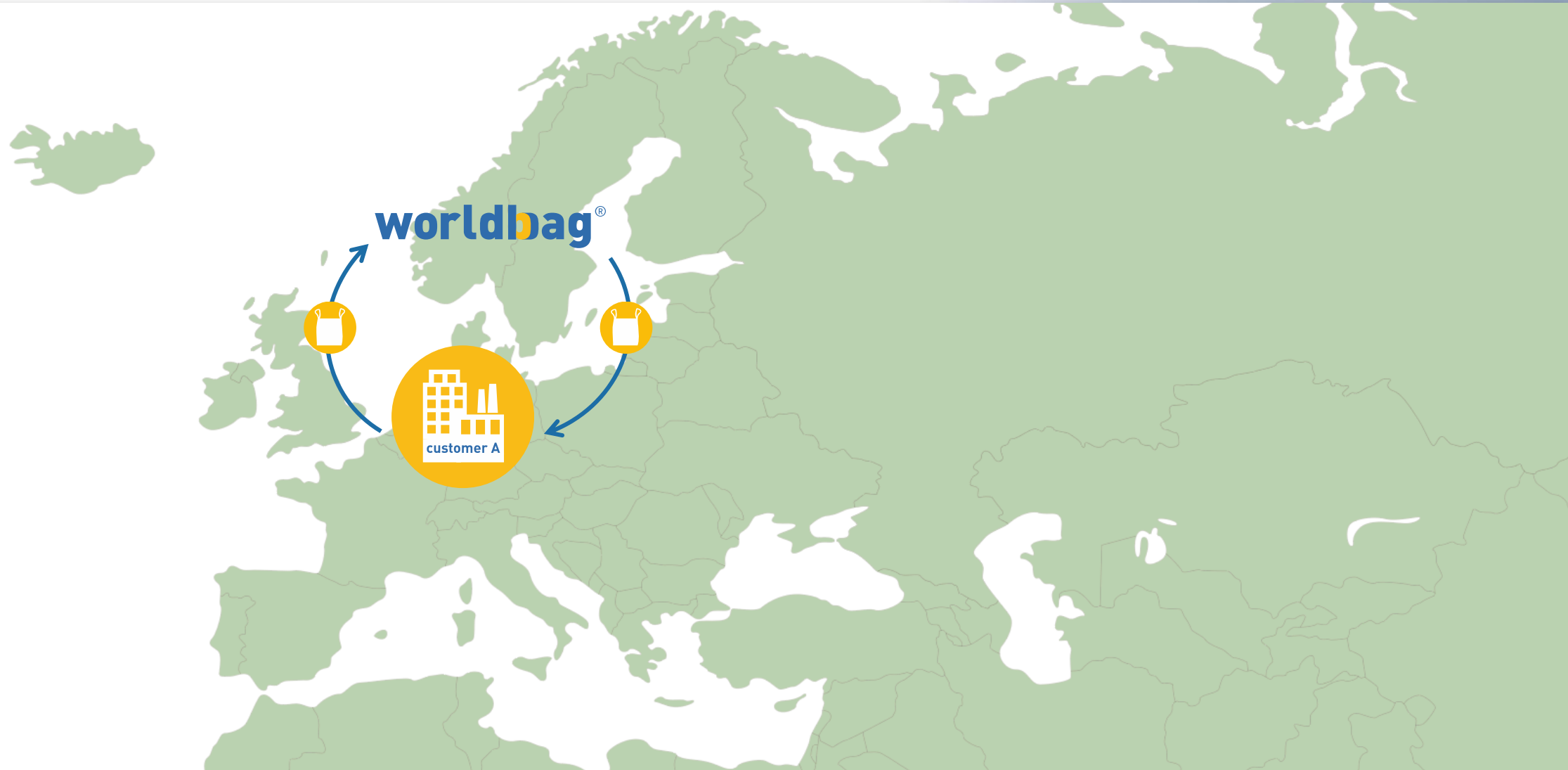


Potential for reuse in numbers

current vs. future

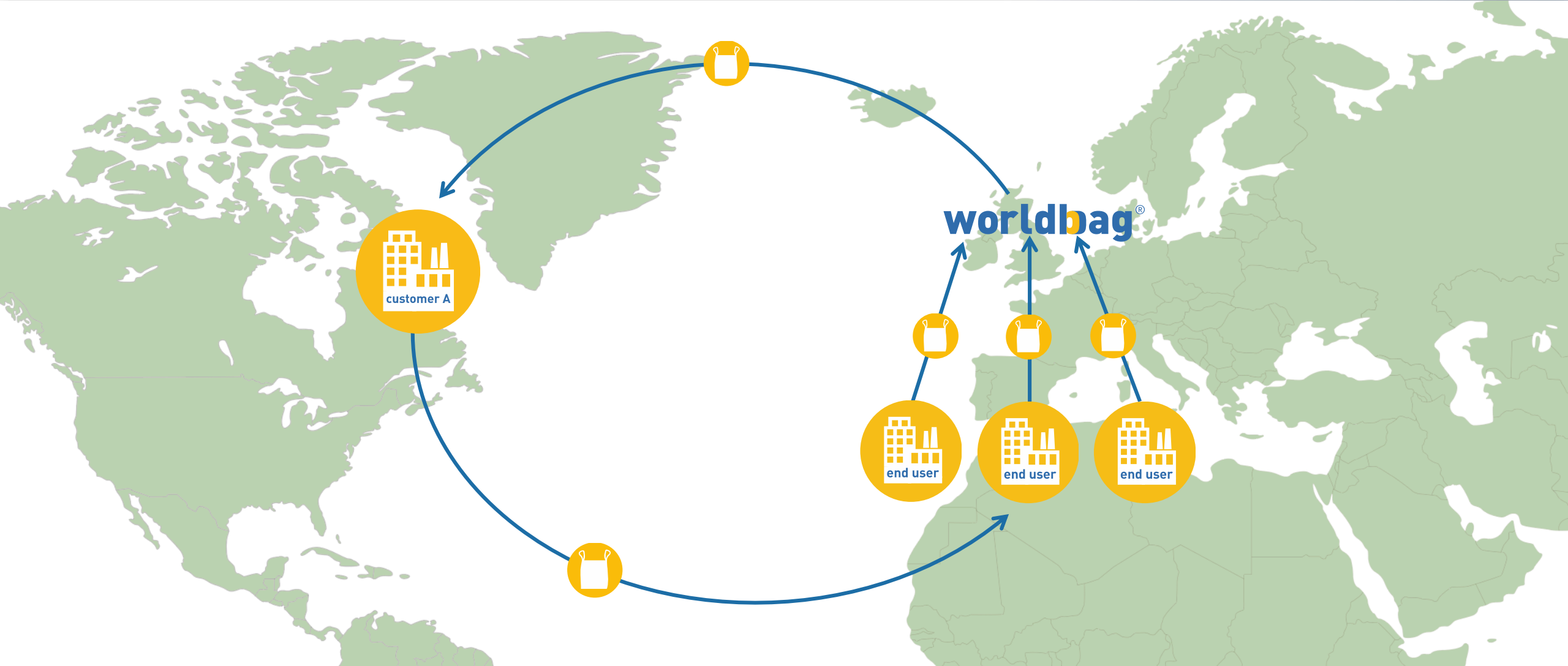


Model I – Intercompany use



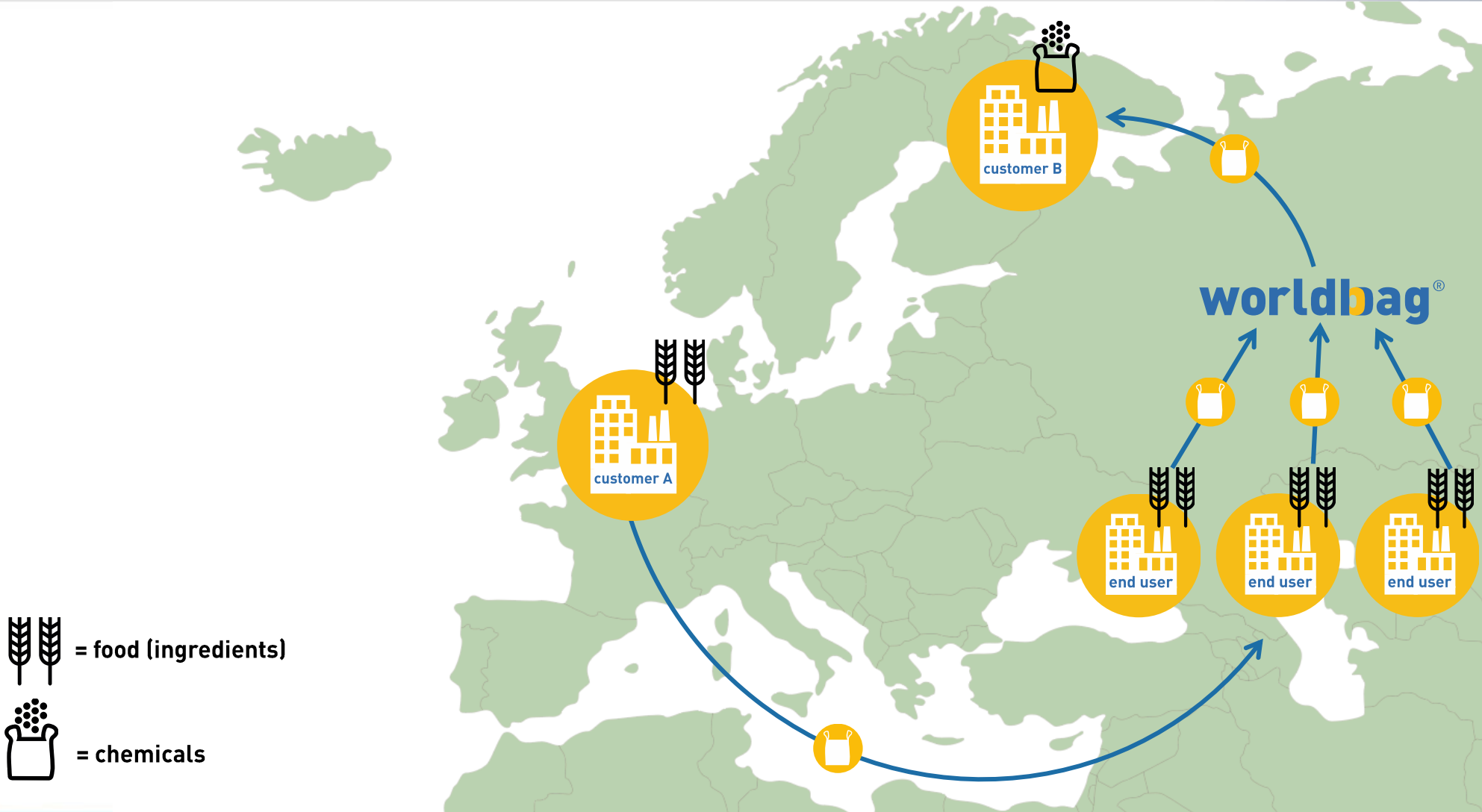
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Model II – From company A to end user(s)



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Model III – Exchange between industries



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Benefits of reconditioning



Minimising
environmental
footprint



Sustainable solution
in waste management



Cost savings



Minimisation of costs
for disposal / incineration



(External) Customer loyalty



Possible bag recycling
→ circular program LC / Veolia



Protection against
reputational damage



Reporting on reuse and
environmental impact

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Quality control

To ensure safe usage, WorldBag offers:

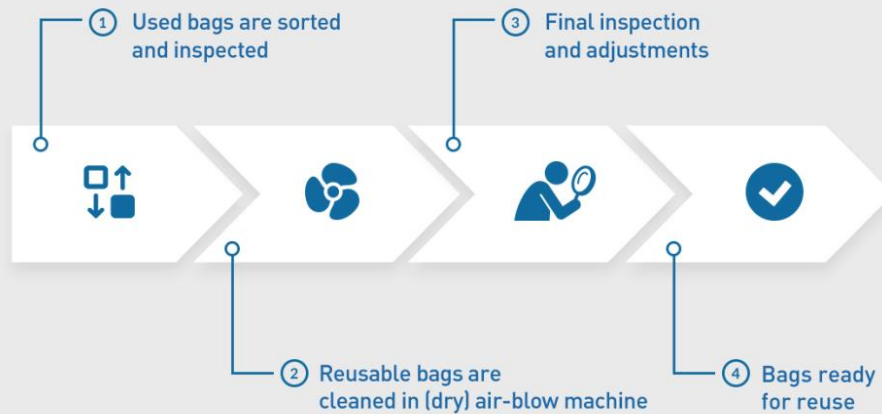
- dedicated team;
- pre-agreed control points;
- optional additional checks;
- 100% control on Electrostatic properties;
- optional SWL test at LC FIBC production facility;
- traceability through signing off.



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Cleaning Technology

- Two cleaning lines
- Yearly capacity per shift: 150,000 FIBC's
- Dry cleaning by filtered air – no chemicals
- Usage of cyclone filters
- 100 % machinery cleaning after production batch



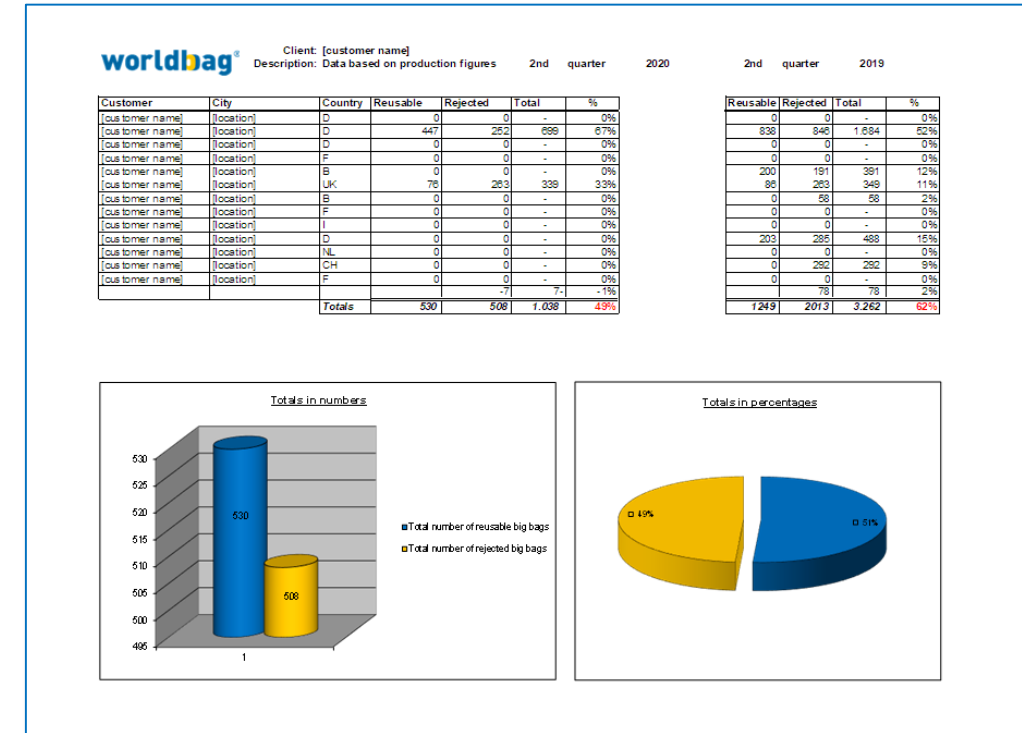
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To monitor all steps in the process from pick up to re-delivery:

- Quarterly statistical analyses
- Yearly statistical analyses
- Continuous improvement advice
- Statistics available per end-user

The goal is to maximise the number of FIBCs for reuse

Customer example: High rejection rate on spouts & rope material



Potential challenges



Potential challenge

No support/ low interest from organisation

Commercial doubts

No direct contact lines to end user

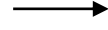
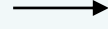
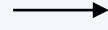
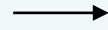
Possible contamination

Small quantities at end users

Quality concerns

Other waste management provider in place

Handling or storage issues



Solution

Internal pilot case / customer examples

WorldBag business case calculation

Contact with end user via WorldBag

Re-develop bag design

Combined collection

Extensive quality control

Joint approach towards provider

Options for container storage/ bale press/ racking system

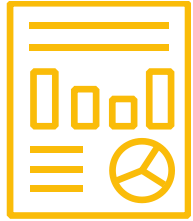


WorldBag geographical coverage - examples

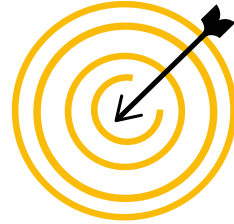


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Typical Customer Project – Steps



1.
**Evaluation
of status quo**



2.
Target setting



3.
**Necessary adoption
bag, process, etc.**



4.
**Involvement
of stakeholders**



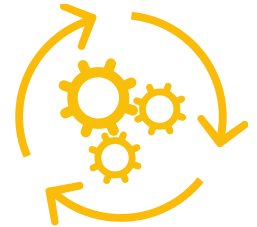
5.
**Pilot test
(often starts with
internal tests)**



6.
**Review of
results**



7.
**Second
pilot test**



8.
Implementation

Questions?

