



Netherlands Institute  
for Sustainable Packaging

# Business-to-business models for reusable packaging

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Webinar 27<sup>th</sup> May 2021,  
Community of Practice Reusable Packaging



# Agenda

- **Welcome and introduction**– Marcel Keuenhof, KIDV
- **Reusables in B2B: proven and novel solutions** – Tim Debus, Reusable Pack. Association
- **Foldable shipping containers** - Simon Bosschieter, 4FOLD
- **(Additional) inspiring examples**
  - **WorldBag** – reusing FIBC's (flexible bulk packaging)
  - **Palloorang** – reusable pallet wrap
  - **LoadHog** – reusable pallet cover
  - **Packaging Services Europe** - facilitating reuse models
- **(LCA) learnings from B2B models** – Patricia Megale Coelho, Utrecht University
- **Call for collaboration and final words**

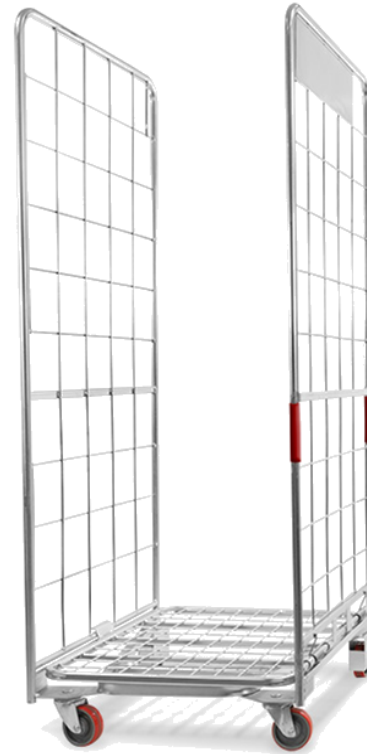
# Intro: KIDV + Community of Practice (CoP)

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- KIDV: part of Dutch EPR system for packaging
- CoP on reusable packaging: increase knowledge and implementation
- Network, connecting professionals in Europe and beyond
- Generate & disseminate knowledge by:
  - organising physical meetings & webinars
  - initiating & facilitating pilots
  - (co-)developing tools, e.g. <https://kidv.nl/Reusable-packaging-calculation-tool>

# Reusable B2B packaging

...that consumers might know :



# Other B2B reusable packaging



48" LONG



# And some more...



# Presentation:

Reusables in B2B: proven and novel solutions



Tim Debus



[tdebus@reusables.org](mailto:tdebus@reusables.org)

[www.reusables.org](http://www.reusables.org)



# Presentation:

## Foldable transport containers

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Simon Bosschieter



[s.bosschieter@hcinnovations.nl](mailto:s.bosschieter@hcinnovations.nl)

<https://4foldcontainers.com>





# Presentation:

(LCA) learnings from B2B models  
with reusable packaging

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**Patricia Megale Coelho**

Copernicus Institute of Sustainable Development



Utrecht University

[p.m.megalecoelho@uu.nl](mailto:p.m.megalecoelho@uu.nl)



# Additional inspiring examples



# Brainstorm: waste-free train stations

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- Hosted by NS Stations (Dutch Railroad – dept. Stations)
- How to achieve **waste-free train stations** by 2040
- First step: reduce/eliminate single-use logistics packaging
- For example by replacing with reusable packaging solutions
- Aiming for collaboration across the entire supply chain
- Do you have a solution or want to join the brainstorm?  
Please connect through the CoP ([m.keuenhof@kidv.nl](mailto:m.keuenhof@kidv.nl))



# Wij kunnen uw hulp en expertise goed gebruiken



Om- en transportverpakkingen beslaan een significant aandeel van het afval op stations. In het realiseren van **afvalvrije stations in 2040** is NS Stations op zoek naar **herbruikbare oplossingen** voor deze eenmalige verpakkingen. Zo denken wij bijvoorbeeld aan herbruikbare hoezen of rolcontainers in plaats van plastic wikkelfolies en herbruikbare kratten in plaats van kartonnen dozen. Als deze oplossingen (nog) niet bestaan of mogelijk lijken, zijn we benieuwd naar de **haken en ogen** en hoe we deze **gezamenlijk op kunnen lossen**.



# worldbag®

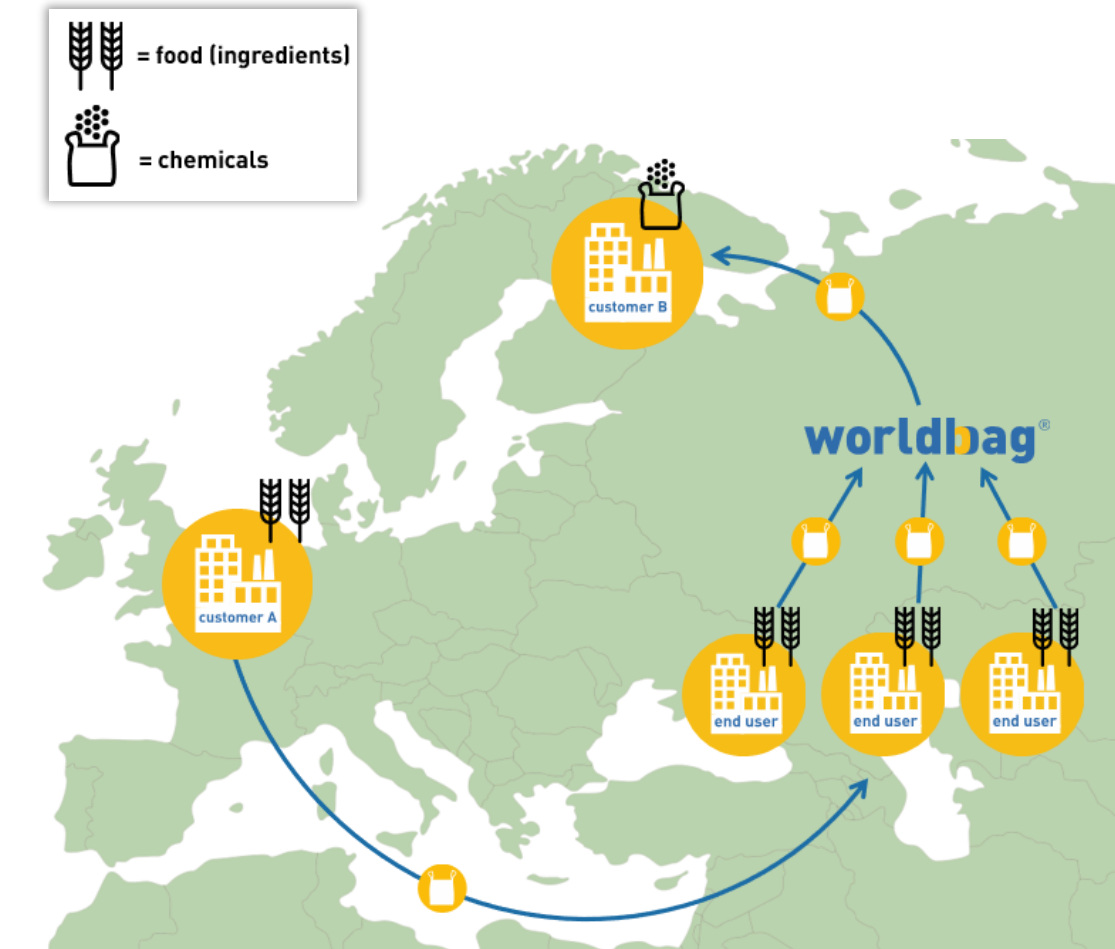
a part of  
lc packaging group

- › Specialist in the reconditioning of FIBCs
- › Founded in 1995
- › Located in Almere, the Netherlands
- › 2,000 m<sup>2</sup> reconditioning facility incl. warehousing
- › Member of LC Packaging since 2009



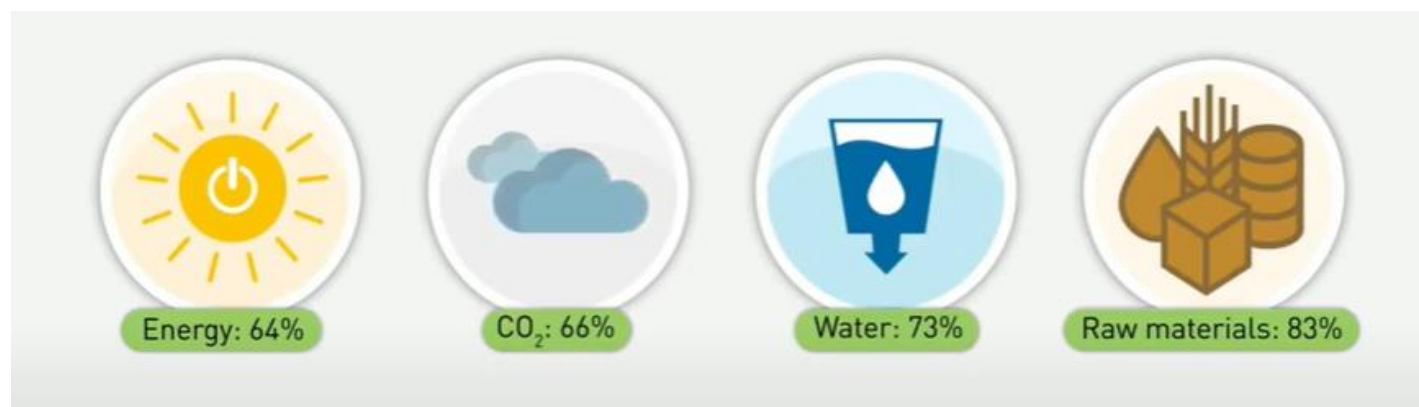
# Big bag reconditioning

- Big bags (safety factor  $\geq 6:1$ ) can be reused several times.
- WorldBag collects big bags from end users throughout Europe.
- Bags are sorted and inspected for damage
- Big bags are cleaned (reconditioned) by blowing dry air through the bags; no chemicals are used.
- Bags are repaired when necessary
- After final inspection bags are folded and palletised



# Environmental impact

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



-210,500 kWh

-170,000 kg

-340,500 L

-96,000 kg

Source: external research based on GHG protocol

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



More info:

[www.worldbag.com](http://www.worldbag.com)

[info@worldbag.com](mailto:info@worldbag.com)





## Reusable shipping solutions by Packoorang

Circular packaging for ecommerce & B2B product flow

Time & cost saving | Low Carbon | No more shipping of air

Padded, no fillers needed | +85% recycled content

Easy return system with app & RFID & NFC



## Reusable pallet wrap

- Durable: 200+ up to 500 uses
- Fit for internal transport/ B2B
- -99% carbon footprint reduction compared to single-use cling film
- Suitable for (Euro)pallets & roll containers
- Hood / insulation / traceability / temperature sensor available
- Aligning services (cleaning / repair) with pooling of pallets
- Branding
- Return program for recycling





Contact us for info/samples:

[www.packoorang.com](http://www.packoorang.com)

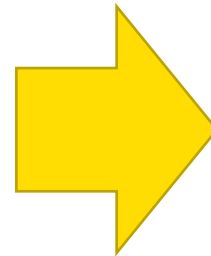
Director Packoorang in  
the Netherlands:

**Hilde van der Vegt**

[hilde@packoorang.com](mailto:hilde@packoorang.com)

+31-(0)62 52 99 028

Secure, versatile and cost effective method of securing the load on a pallet, no banding or stretch wrap required.





version for double-stacking :





# Pallet Lid Case Study



Penguin  
Random House  
UK

[www.youtube.com/watch?v=ddqLbGzTMZA](https://www.youtube.com/watch?v=ddqLbGzTMZA)

LOADHEG

RETURNABLE PACKAGING

## Benefits experienced



### Increased speed of process

3 minutes on average to stretch-wrap one pallet reduced down to **20 seconds**.



### Increased vehicle fill

Pallets can be **double-stacked** in vehicles, increasing the amount of goods transported and reducing the CO<sub>2</sub> emissions.



### Tracking

Safeguards the longevity of the packaging and spreads the product's benefits across the full supply chain.



### Elimination of plastic wrap

Use of consumable stretch wrap **reduced by >47%** in their first year.



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# LOADHOG

RETURNABLE PACKAGING

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**[www.loadhog.com](http://www.loadhog.com)**

## Reusable (plastic) packaging:

- Inspection
- Repair
- Washing
- Warehousing

## Our reusable packaging wash solutions

An automated, multistage wash and dry process.







## CONTACT:

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Tel. +44 – (0)15242 61978

<https://packagingserviceeurope.co.uk>



# Call for collaboration: reuse of jute bags



A hub in the logistical network of the circular economy focusing on REUSE of transportation packaging.

## Current market

European specialty coffee industry

## Business plan

Enable the reuse, repurpose and recycling of jute and hermetic plastic bag material to customers along the coffee supply chain.

 [WWW.EPHORASOLUTIONS.COM](http://WWW.EPHORASOLUTIONS.COM)  [@EPHORA\\_SOLUTIONS](https://www.instagram.com/EPHORA_SOLUTIONS)  [EPHORA SOLUTIONS](https://www.linkedin.com/company/EPHORA_SOLUTIONS)



**EVI-MARA VAN BEEKHUIZEN**

CEO



**CAMILLA VISCONTI**

COO

# Call for collaboration: reuse of jute bags

>1.000.000 bags  
are imported  
into the EU  
yearly for  
coffee beans



Fulfilling the missing link in supply chain logistics that redistributes unwanted resources as valuable commodities.

 [WWW.EPHORASOLUTIONS.COM](http://WWW.EPHORASOLUTIONS.COM)

 @EPHORA\_SOLUTIONS

 EPHORA SOLUTIONS

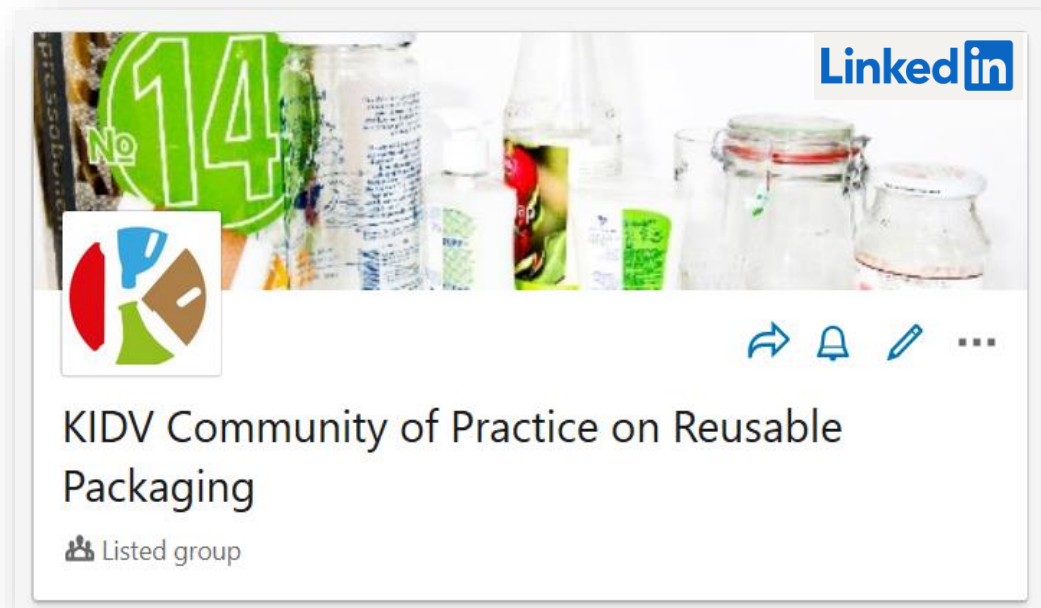
Want to participate?

Contact Ephora Solutions

or ask [m.keuenhof@kidv.nl](mailto:m.keuenhof@kidv.nl)

# Thank you!

Join us: <https://kidv.nl/community-of-practice-reusable-packaging>



[www.linkedin.com/groups/12313420](https://www.linkedin.com/groups/12313420)



[www.youtube.com/channel/UCcJcmbqFokmtyo-n4hux11w](https://www.youtube.com/channel/UCcJcmbqFokmtyo-n4hux11w)