Scaling up Reusable Packaging

23 February 2022



### Important tips for today's webinar:

- Use headphones/earphones for clarity of sound.
- Use the chat box to say hello enter your full name and organisation.
- Use the Q&A function to submit questions for the group discussion.

Please note: This session will be recorded and made available soon

# Jayne Paramor & Lachlan Feggans



## Scaling up Reusable Packaging Jayne Paramor, APCO

# Reusable Business Models Lachlan Feggans, CHEP



# Agenda

# Scaling up Reusable Packaging

Jayne Paramor Sustainability Manager APCO



So what is reusable packaging & why is it so important?



# **2025 National Packaging Targets**

### **100% of packaging to be** reusable, recyclable or compostable

**50% average recycled** content across all packaging

We all have a role to play in reaching the 2025 Targets & transitioning to a circular economy for packaging in Australia





## 70% of plastic packaging recycled or composted

## Phase out problematic and unnecessary singleuse plastic packaging

# Why?

Almost one in five consumers purchased a reusable water bottle in 2018-19

n

- business opportunity to tap into
- single-use plastic items
- necessary



Australian consumers are **showing increasing interest** and motivation to reuse rather than buying new items

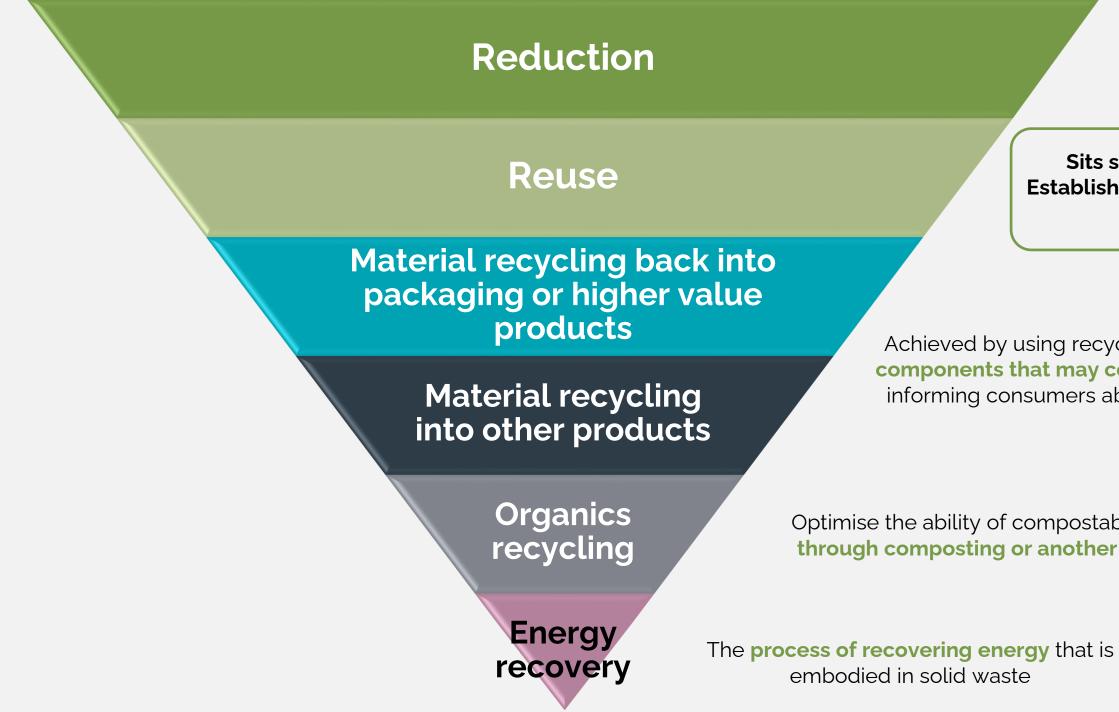
### There is considerable **potential to expand the use of** reusable packaging in Australia and an extensive

More jurisdictions are introducing legislated **bans on** 

Opportunities to expand and implement **reuse** systems are being increasingly relevant and

# **Design for recovery**

Achieve the highest potential environmental value, and extend the life of packaging





Design packaging to eliminate or reduce avoidable product waste

Sits second highest, consider design for reuse. Establish a return system and also design for recycling at end of life

Achieved by using recyclable materials, by **avoiding materials or** components that may contaminate the recycling process, and by informing consumers about options for recovery prior to disposal

Optimise the ability of compostable packaging to be recycled through composting or another organics recycling process

# **Reusable: defined**



- reuse
- originally designed



### Packaging which proves its capability of accomplishing a minimum number of trips (or reuse cycles) within its lifecycle, in a purposefully designed system of

Reusable packaging must be used again in the same application for which it was

# **Repurpose Vs Reuse**







- A rubber band used to hold vegetables, or a glass jar, can both be kept by the consumer and repurposed to hold other items
- In this example the items are not in a **purposefully designed system of** • reuse for the same application
- Whilst repurposing is beneficial; it is important to identify the difference



# **Setting targets**

The Ellen **McArthur Foundation has** proposed 20 per cent of plastic packaging could be reusable



 Setting targets for reusable packaging enable organisations and industry to have a collective goal to work towards and to monitor the impact of these programs

• Businesses making **public commitments** towards reuse signals to the market the forthcoming demand and offers certainty to invest in building capacity

# Defining reusable packaging models



# **Reusable packaging models**

### **Business to Consumer Market**

### **Refill at home** Packaging owned by Consumer

Users refill their reusable container at home as part of a specific system of reuse (e.g. with refills that can be purchased in store or online with home delivery through a subscription service).



### Refill on the go Packaging owned by Consumer

Users refill their reusable container away from home as part of a specific system of reuse (e.g. at an in-store dispensing system).

### Individual adoption Packaging owned by Business

Dedicated reusable containers and reverse logistics system for one company.

### Return from home **Packaging owned** by Business



Packaging is picked up from the home of the User by a pick-up service (e.g. by a logistics company).

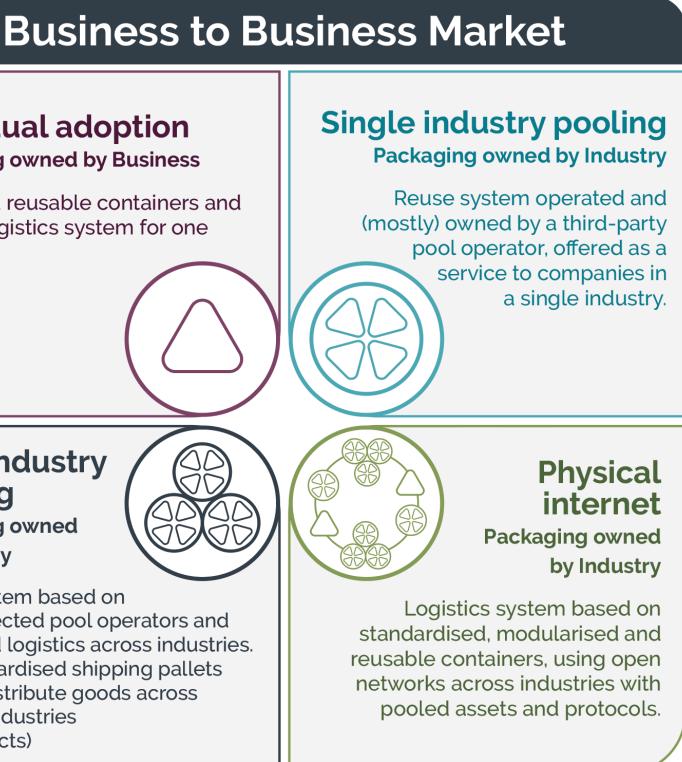
Return on the go **Packaging owned** by Business

Users return the packaging at a store or drop-off point (e.g. in a deposit return machine or in mailbox).

### Multi industry pooling Packaging owned by Industry

Reuse system based on interconnected pool operators and networked logistics across industries. (e.g. standardised shipping pallets used to distribute goods across multiple industries and products)





# Benefits and opportunities to using reusables



# **Benefits to consumers**

- Customisation of product quantities and personalised packaging
- Improved user experience with aestheticallypleasing, functional and quality packaging
- Sense of belonging to a community through brand loyalty and incentive schemes
- Cost saving through more economical purchasing, such as bulk buying, refills or use of concentrates





# **Benefits to the environment**



- packaging
- efficiency
- Reduced energy use and waste production



Life cycle assessment (LCA) studies of reuse systems are typically used to quantify the environmental impact of

Studies have found significant environmental benefits of reusable packaging compared to single-use alternatives

Minimised CO2 emissions as a result of standardised packaging and shared logistics improving transportation

# **Benefits to business**



- **safety** achieved by reducing hazards
- use packaging materials
- chains
- systems
- higher quality and durable materials



Logistic efficiencies with **reduced handling** of the product along the supply chain, improved ergonomics and worker

**Cost reductions and savings** as a result of replacing single-

Simplified and more transparent and traceable supply

**Increased consumer insights** and data through using smart

Aesthetic and functional packaging design made from

# Leverage the opportunities of reuse



# Reuse opportunities in the Business to Consumer (B2C) market

Current trends indicate that consumer preferences are shifting towards less wasteful, more eco-friendly packaging options. There are many opportunities which business can leverage to expand reusable packaging systems

|                                   |                                     |               | Lever         |
|-----------------------------------|-------------------------------------|---------------|---------------|
| Opportunities                     | Leverage existing<br>infrastructure | Smart systems | to end<br>and |
| <section-header></section-header> |                                     |               |               |



rage return systems icourage the return recycling of other packaging

# Compact refills and concentrates





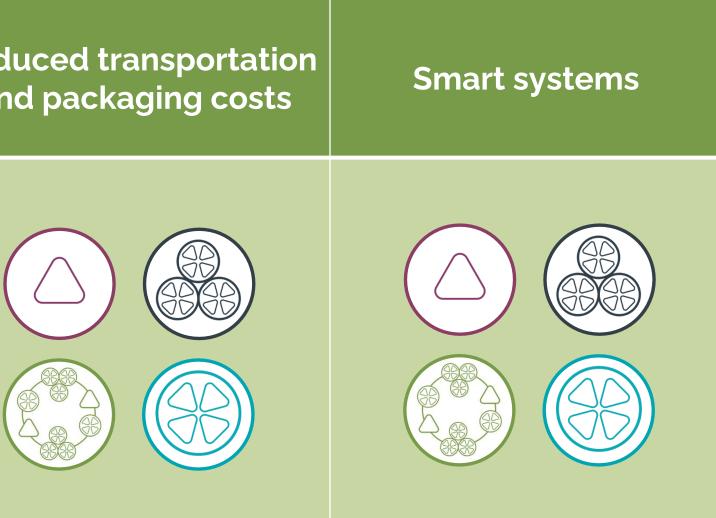


# Reuse opportunities in the Business to Business (B2B) market

The logical next step for industry is to explore opportunities for increasing uptake of these systems, to maximise impact across the supply chain

| Standard packaging<br>formats for logistic<br>efficiencies | Shared design        | Redu<br>an                         |
|--|----------------------|------------------------------------|
|  |                      |                                    |
|  |                      | (                                  |
|  |                      |                                    |
|  | formats for logistic | formats for logistic Shared design |





# Consider the challenges, adapt the solutions

| Considerations          | Information barriers<br>leading to low uptake &<br>customer confusion  | Customer motivation &<br>upfront costs dissuade<br>consumers  | Start-up & ongoing costs<br>when business transition<br>to reusable                                      | Quality, health and<br>safety concerns   |
|-------------------------|--|---|--|--|
| Recommended<br>Solution | Provide informative,<br>targeted marketing and<br>educational materials<br>highlighting potential<br>benefits for the<br>consumer and the<br>environment | Accompany<br>development and<br>implementation of reuse<br>models with<br>comprehensive<br>communications strategy<br>to equip consumers/end<br>users with knowledge<br>and confidence in reuse | Compare costs at a<br>medium long term scale,<br>as reusable packaging<br>can be more cost-<br>effective | Adhere to clear<br>guidelines in the<br>Australian market and<br>produce targeted<br>marketing to reassure<br>end users that the<br>system of reuse is safe to<br>participate in |



# Start the journey to develop a reusable packaging solution



# Is the packaging fit for purpose?

Is the reusable packaging able to perform its intended purpose? Is it designed for reuse in a dedicated system, in line with international definitions for reusable packaging?

Is the packaging designed to accomplish a minimum number of trips (or reuse cycles)? Can it be used again for its original purpose, in a specific system of reuse?

Does the system of reuse fit one or more of the reuse models?

How many cycles has the packaging been designed to complete in the system of reuse?

Has the packaging been designed to be reused for its original purpose?

Who owns the packaging?

Which model(s) of reuse has the packaging been designed for?





Are more than half of the packaging components by weight or volume reusable?

> What is the proportion of reusable components in the packaging, listed by material, weight or volume?

# Is the packaging practical for reuse?

Is the packaging designed in a practical way so it can be reused as many times as possible in its system of reuse?

Is the packaging able to complete a minimum number of trips (or reuse cycles) before endof-life?

Is the time it takes for the packaging to Is the packaging recyclable upon retirement complete one reuse cycle proportional to the from the reuse system, via an existing resource time it takes to consume the product, under recovery pathway? normal conditions. What is the estimated average cycle Is each packaging component classified time for the packaging? as recyclable through assessment via PREP? What product was the packaging If not, can a dedicated recycling designed to hold? program be established to recover the packaging at end of life? How long should it take to consume the

Has an LCA been conducted? How many reuse cycles does the packaging need to complete to have an environmentally neutral impact?

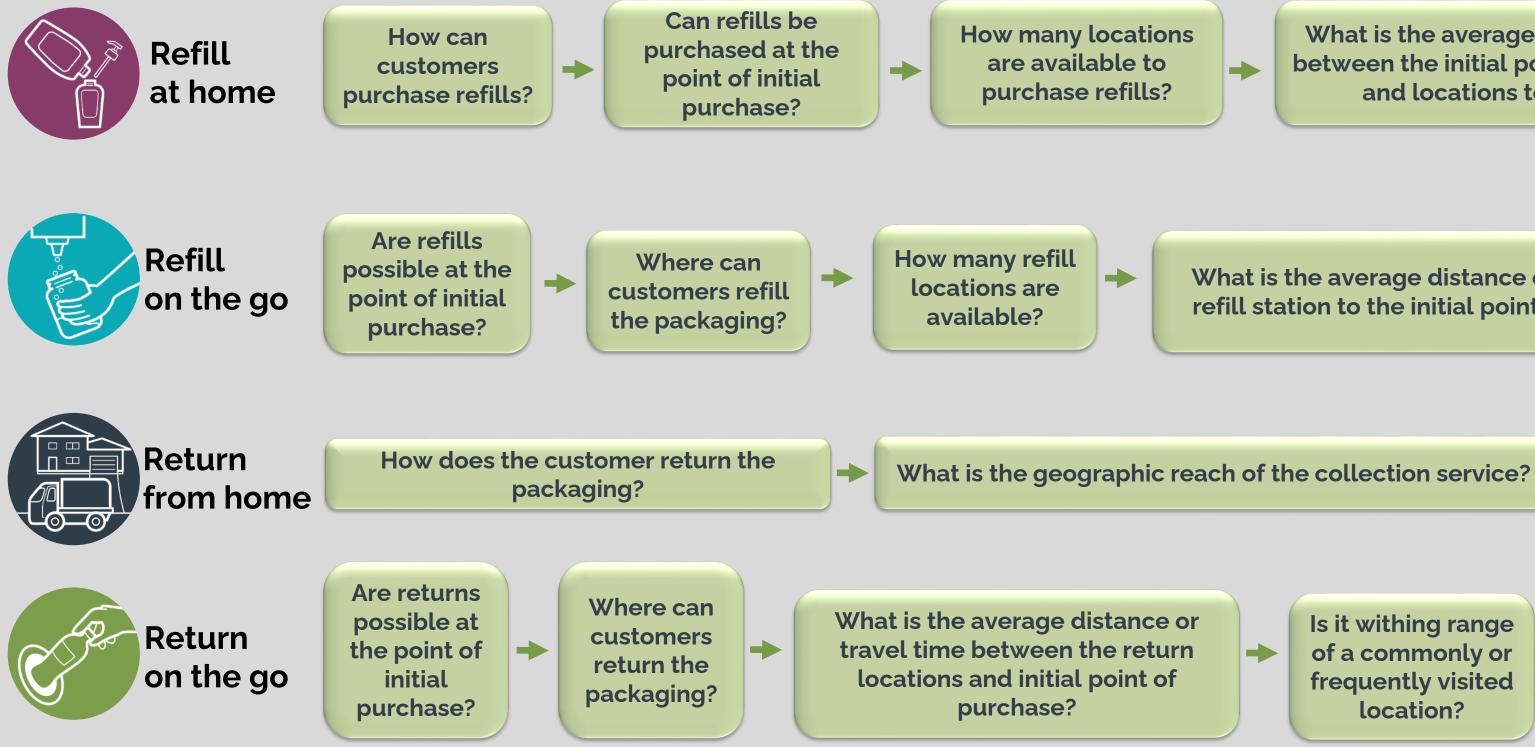
If no LCA, how many reuse cycles has the packaging been designed to complete in its system of reuse, before reaching endof-life/retirement from the reuse system?

product within the packaging?





# How accessible is the system of reuse?





What is the average distance or travel time between the initial point of product purchase and locations to purchase refills?

 $\rightarrow$ 

What is the average distance or travel time from the refill station to the initial point of product purchase?

How often can collection be conducted?

Is it withing range of a commonly or frequently visited location?

How many return locations are available to **Users**?

# Now get inspired!



# Naked Foods Organic Health Foods (Australia)



# **Refill on the go**

- A chain of organic food stores
- from the drums
- bring their own reusable packaging
- recycled at home





Encouraging customers to bring and refill their own reusable packaging, which can be filled by a scoop

Incentive is provided as a 5% discount to those who

Customers who do not bring reusable packaging have access to brown paper bags which can be

# Neverfail water coolers (Australia)



## **Return from home**

- impact
- •
- •



Neverfail is committed to reducing their environmental

Their delivery model for drinking water, services households and business in reusable returnable bottles

• To participate in the service, customers (businesses or individuals) rent a water cooler, and Neverfail will collect empty water bottles when delivering a replacement

Neverfail capitalise on reverse-logistics opportunities, driving efficiencies in the supply chain and provide easy access to customers for return schemes

# **Reusable Business** Model

Lachlan Feggans Director – Sustainability Asia / Pacific CHEP



Brambles CHEP A Brambles Company

# Our 2025 Sustainability Framework

Brambles' sustainability vision is to pioneer regenerative supply chains

Re-use, Resilience and **Regeneration** – our solution to the world's greatest challenges

4 orest

Social

∞ 📘

Natural

CircularEcon

Com

Food+

29



Brambles can deliver life's essentials every day in a nature-positive way

**Brambles** 

Our 2025 Vision and Targets

"To pioneer a regenerative supply chain"

**Forest Positive** Sustainably grow two trees for every tree we use



**Climate Positive** Commit to a 1.5° future through a carbon neutral business

**Supply Chain Positive** Make our business even more circular

to 500



**Food Security** Food to 10 million people



### Waste Positive

Zero waste to landfill Create reusable solutions out of existing waste



### **Collaboration Positive**

Double the number of customers collaboration

### **Workplace Positive**

Become a top company in inclusion & diversity

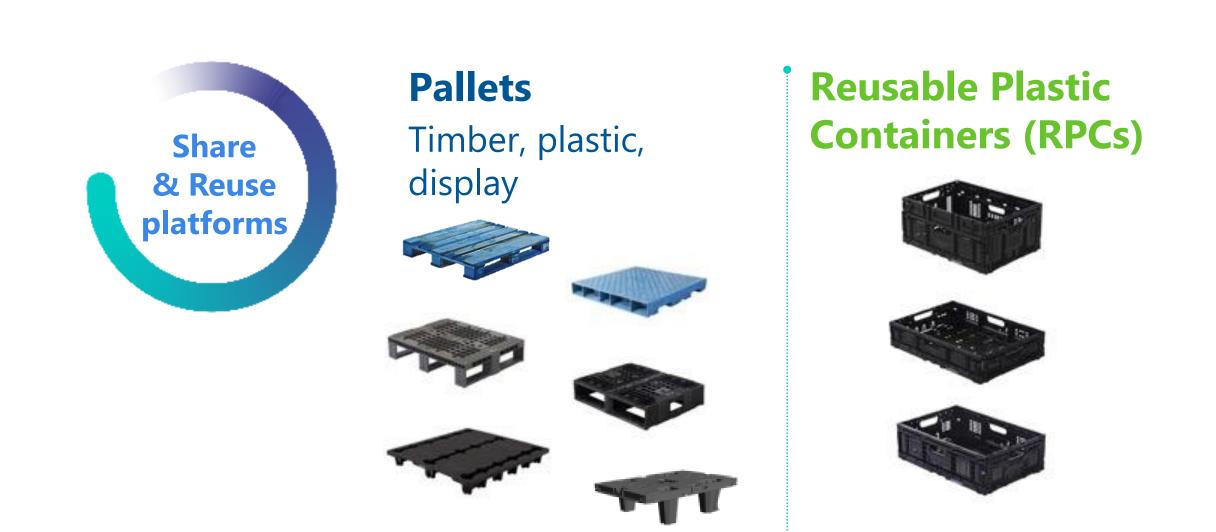


### **Circular Transformation** 1 million change makers in Circular Economy

**Social and Natural Positive** Increase the plant social and natural capital

### **Brambles**

# **Diversified Product Offering**



### Reusable, durable, repairable; each use eliminates single use packaging alternatives

### Brambles

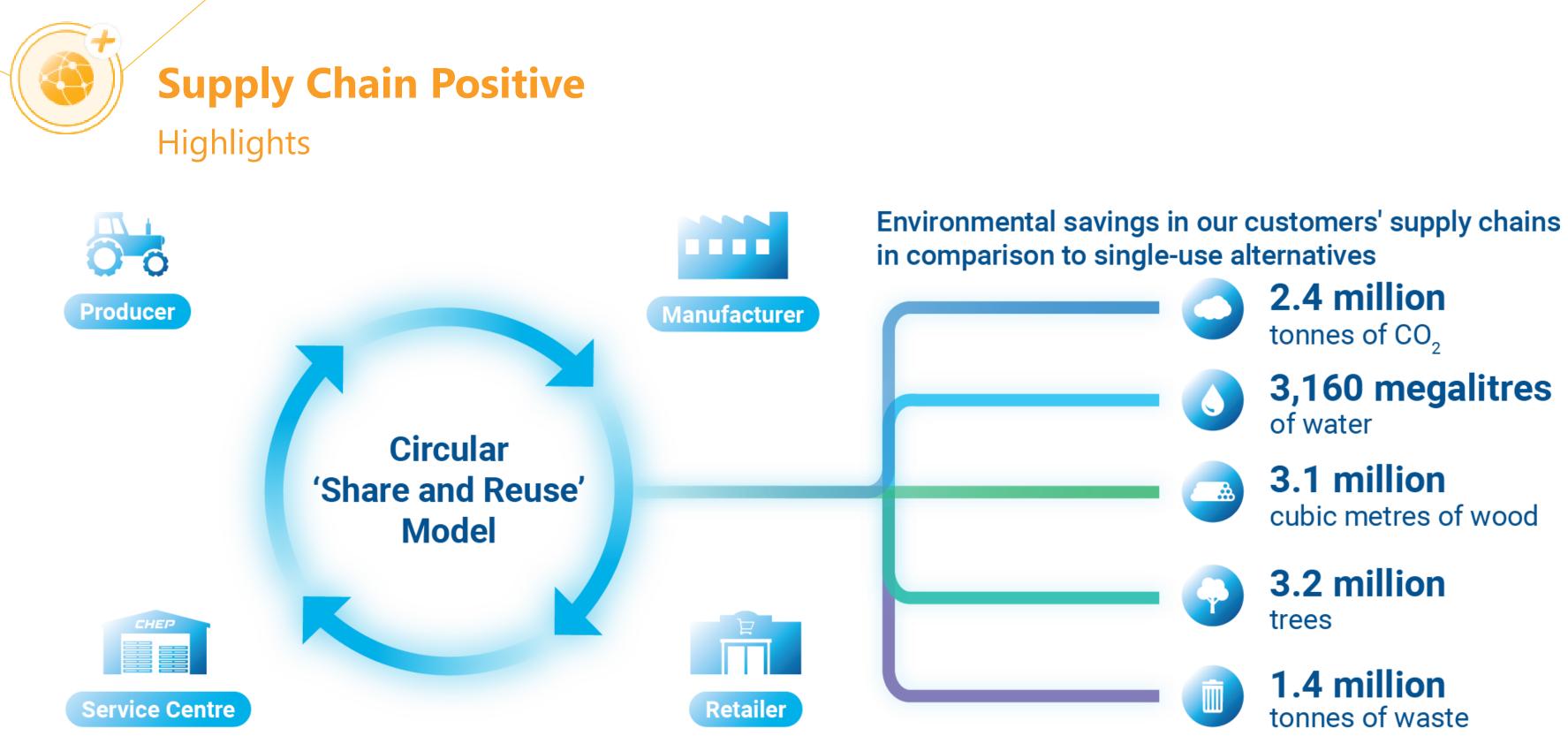
### **Containers** Specialised bins and containers











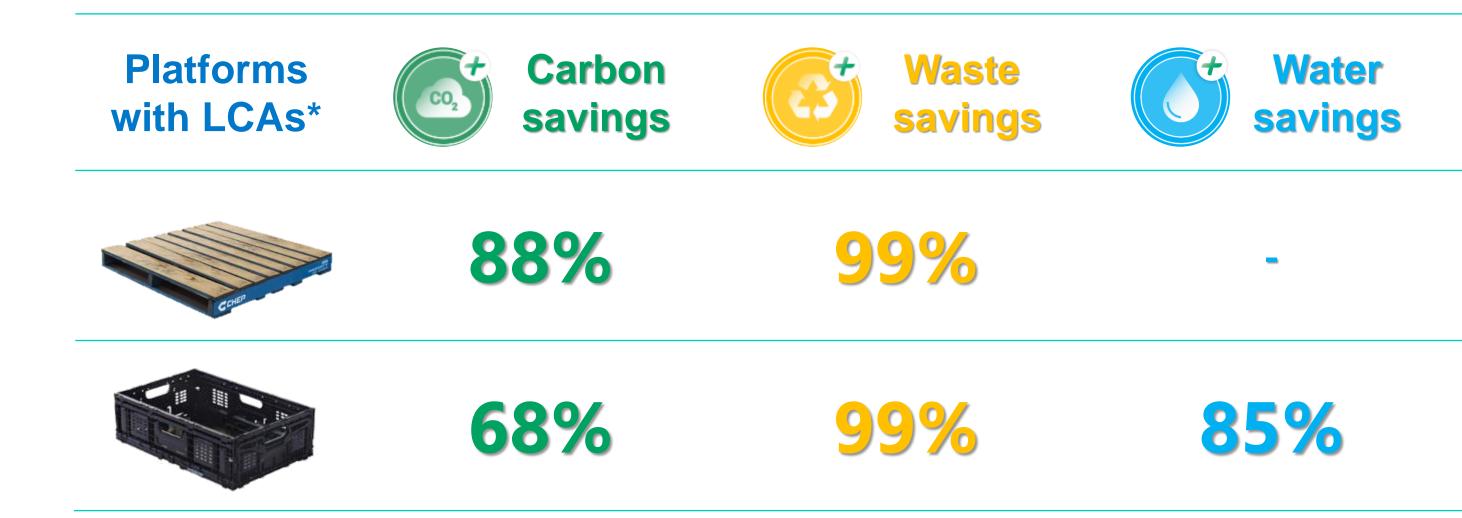
### **Brambles**

3,160 megalitres

cubic metres of wood

# **The Environmental Savings are Significant**

### CHEP Lifecycle Assessments (LCAs) - CHEP platforms vs. single-use alternatives





### Single-use alternatives







## **Supporting APCO Members**

Collaboration

## + Data

Volume of CHEP reusable platforms TY v LY

+ Information
What CHEP Reusable
Platforms are made of
that your business uses

+ Sustainability Certificate As "Supporting Evidence"

### Brambles

### **Plastic Pallet PP3**



### ----

CHEP intellinees to pressil industration resources into the development of Paddic Padate. Relative to fortune: a Plantic Padat offers the advantage of lastic today in another and measuring to monitors.

For hyperie-emotion applications such as pharmaceutoical menufacturing and food production. Pleate Paleta are sometimes preterned over tentaer testasse of their non-person surface, non-osticar alteration, and Seconde they are travel assay of served.



### Pastures and Danefit

Edenal diseases are considert with ASA005.1203

No male or aplicities part reduce product demage

Non-porma aurbus protects goods from contamination

provides afficiency of and load ministration

Nadured OPES rak and potential for reduced transport costs

### Specifications

| Enternal        | Longitute .   | 1145 | Margha 120 |
|-----------------|---------------|------|------------|
| Naminal Capacit | ty and Weight |      |            |
| Tare Height     |               |      | 29 hp      |

New yo rectify manimum payment 2 2021 htt

Caution: papinal performance in naching is contingent on the pariet being nached as per directions shown on the ode of the patiet. Loads directions of not more than one week and performed if using machine performant.

Public sequencies or sequences of the second advances reserved anticent is encounted and the transmission (22) despines Calence). For example, there example, the encounter field  $k_{\rm B}$  of the transmission calence is the transmission of the transmission calence is the transmissi

larpited High Denaity Polyeihplene

ecfloations are autject to variation and may be changed food rotors. The pattern atroant here represents the latest room. For worke patterns, earlier carations are sometimes point when the latest are not available.

www.chep.com

Contra Parant, North Rysia, 165H, 2113, AU

## **Sustainability Certificate**

In recognition for contributing to the circular economy by sharing and reusing packaging resources,

## 'Your Business Here'

use of Timber Pallets and Reusable Plastic Containers (RPCs) provided by CHEP Australia is creating more sustainable supply chains and progressing the United Nations Sustainable Development Goals 12 and 15



CHEP LCAs are independently peer-reviewed and ISO 14044 compliant. Sustainability data and calculation methods are assured by KPMG as part of Brambles' Sustainability Review. The Environmental impacts communicated in this Sustainability Certificate are calculated using Life Cycle Assessment studies





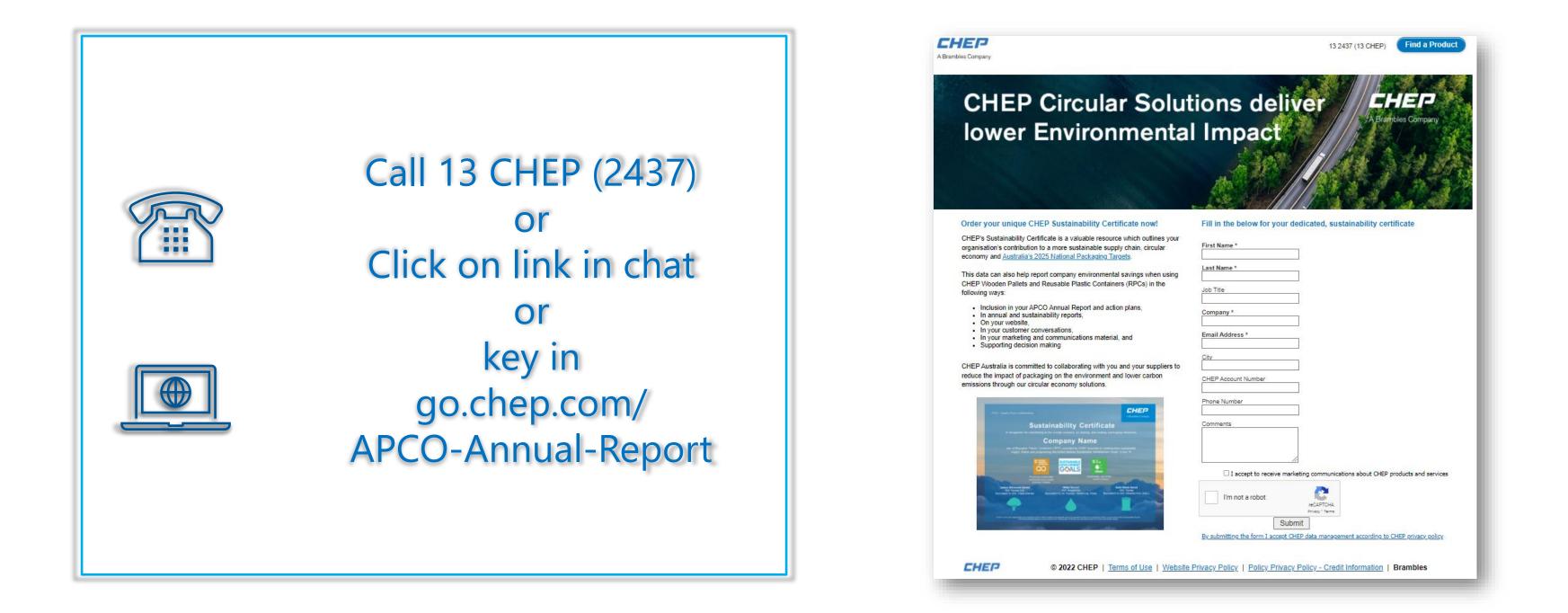
Sustainable use of the world's forests

### **Solid Waste Saved**

### 1,840 Tonnes







### **Brambles**



Please submitt your questions using the Q&A function



# Next steps





# Download the resource & check it out

Get started, investigate where you can use reusables





### Implement reusable models & analyze their impact

# Thank you Any questions? Get in touch!



Web: www.apco.org.au Email: apco@apco.org.au

# LinkedIn: www.linkedin.com/company/ australian-packaging-covenant-organisation/

