The Power of Pooling

Cuna de Platero
Sociedad Cooperativa Andaluza

The most environmentally - friendly pallet on the planet

- CHEP has commissioned a **third-party independent study** on the environmental impacts of our pallets vs. the market alternatives
- A **Life Cycle Analysis** (LCA) study takes into account all environmental impacts through the product life-cycle and follows **ISO-14044** methodology (peer-reviewed)
- **CHEP pallets have the lowest environmental impacts in all categories.**

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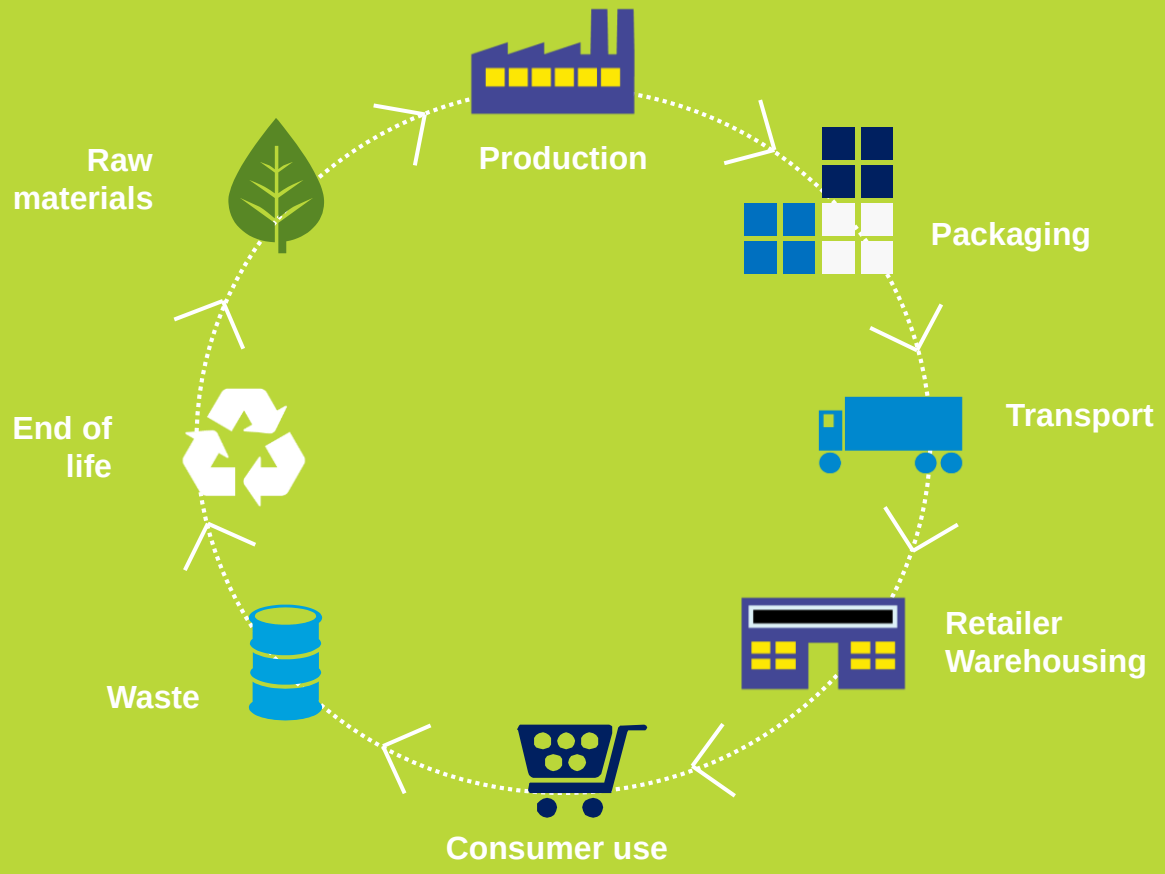

Product life-cycle LCA

rdc environment

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Sustainable from start to finish: the life story of your CHEP pallet

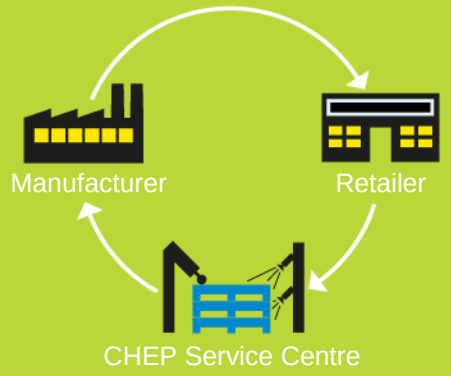
1

All timber comes from forests certified as sustainable

2

CHEP pallets last up to 10 times longer than white-wood equivalents*

3



Pallets are continually repaired, reused and shared – lowering emissions and saving natural resources

4

CHEP pallets are 100% recycled. Nothing ends up in landfill

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Our share & reuse model delivers on sustainability principles

1

100% timber comes from forests certified as sustainable (FSC/PEFC)

2

Pooling is based on repair, reuse and share, making it intrinsically sustainable

3

Consistent pallet performance means fewer production hold-ups, minimising energy use

4

Efficient dense network – shorter distances means lower emissions

5

Reduced risk of damage and food waste means less CO_2

6

Higher quality, CHEP pallets last up to 10 times longer than white-wood equivalents*

7

Lower losses, CHEP tracks its equipment to avoid losses, a common source of white-wood waste

8

CHEP pallets are 100% recycled @ end-of-life

*Based on an independent, peer-reviewed Life Cycle Assessment comparing CHEP-pooled Euro pallets with the white-wood equivalent

LCA Results

Environmental Savings

Cuna de Platero
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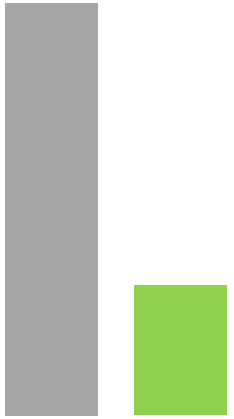
CO_2 Emissions (kg)

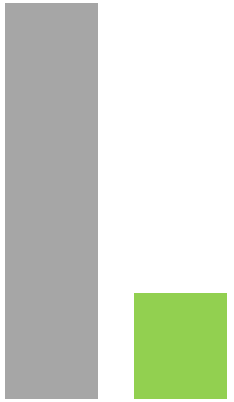
White pallet
60.440
CHEP
26.960
-55%

Wood (dm^3)



White pallet
40.210
CHEP
11.494
-71%

Waste of landfill (kg)



White pallet
3.520
CHEP
810
-77%

Results provided are indicative of potential savings and should not be treated as definitive.
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Making the difference together.
Real impact of your sustainability savings by working with CHEP

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Sociedad Cooperativa Andaluza

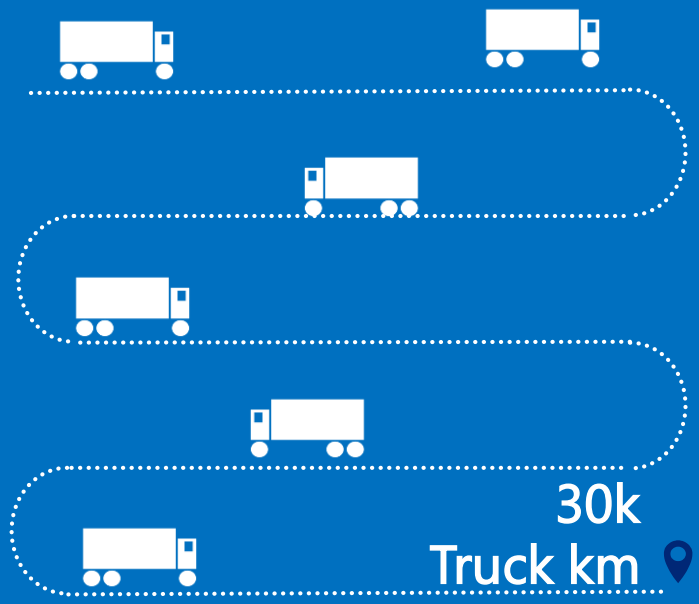
Saving wood resources by

28.716 dm3

28
Trees

Diminishing CO_2 emissions by

33.480 kg



30k
Truck km

Reducing waste by

2.711 kg

1
Truck
of waste

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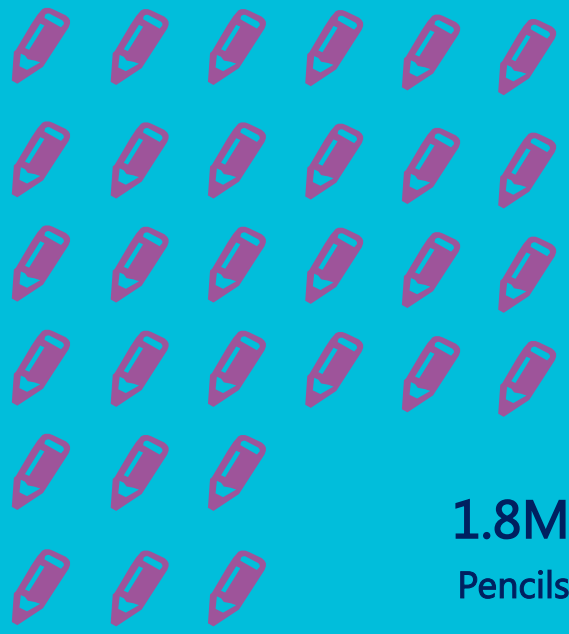
Saving wood resources by

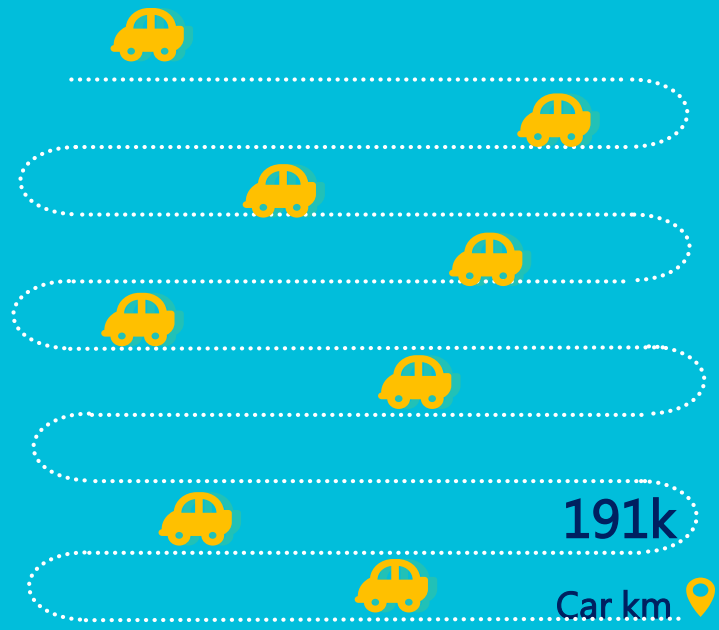
28.716 dm3



1.8M
Pencils

Diminishing CO_2 emissions by

33.480 kg



191k
Car km

Reducing waste by

2.711 kg

246k
Coffee cups

Making the difference together.
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Saving wood resources by

28.716 dm3

35k
Books

Diminishing CO_2 emissions by

33.480 kg

1
truck trip
around the world

Reducing waste by

2.711 kg

2,083
People,
daily waste

Understanding where data comes from…

LCA Inputs and methodology

- An LCA relies on extensive supply-chain data in order to make the compassion possible: raw materials use, type of wood, losses, repair ratio, distances, end of life, etc…
- Some data like vehicle fill and goods delivery distance are the SAME for both solutions
- Thorough CHEP data has been provided to RDC for the CHEP part of the analysis
- White exchange data is based on RDC market knowledge and previous studies about white exchange systems:
- As confirmed by the peer-review panel discussion that validated the study, white exchange data is very conservative

White-exchange model Assumptions

The following are the key factors taken into account by RDC on white exchange:

- **40%** certified wood (FSC or PEFC)
- **85%** recycled, end of life of lost pallets
- **10%** Losses
- **14%** damaged ratio, pallets need to be repaired every 7 uses
- **75km** distance from site to pallet dealer on average
- **4 ways to exchange pallets o**n average (% split):
  - … 15% One to one – own fleet
  - … 30% Delayed – retailer accumulation single location
  - … 20% Delayed – accumulation at the LSP
  - … 35% Managed recovery – multisite accumulation

Important : this data can be updated in the lca tool in order to reflect customer specific white pallet exchange activity

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SUSTAINABILITY @ 2017

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