

## CARBON FOOT PRINT AND OPERATING COST SAVINGS IN LOGISTICS WITH PALLETS



# Our offer

## Our offer

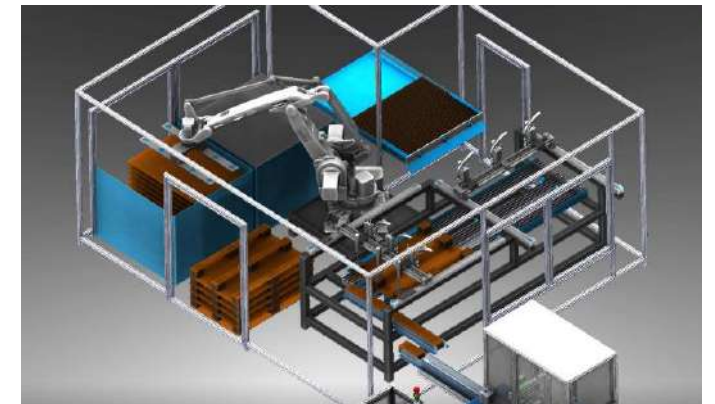
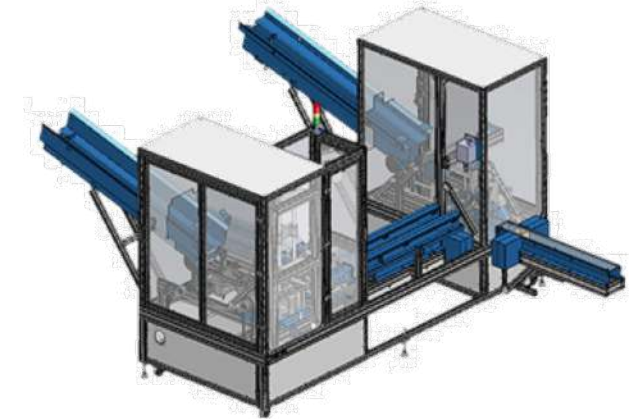
We are selling and renting small machines allowing to manage:

On customer site, on size, and on demande cardboard pallets

To reduce carbon footprint and logistic costs



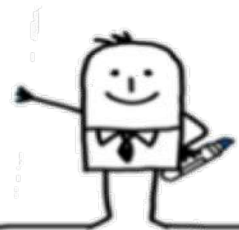
a product and process offer for global savings



# Context and observations



day to day constraints



# Context and observations

**Observations: Logistic of manufactured products is managed with incoherent background**



## ENVIRONMENTAL

**90 %** of manufactured products in the world are transported on pallets  
Wood resources are decreasing and transports by trucks are increasing



## ECONOMIC

Wood and logistic costs are not optimised



## SUSTAINABILITY

Carbon footprint is going up and up



## SOCIAL

Accidents at work

existing cardboard pallets manufacturers are not dealing in a global matter

# Context and observations

**Existing solutions :** Many wood, plastic or cardboard products obliging the reuse and the transportation by empty trucks



always the same advantages for cardboard pallets:

- light weight
- easy to handle
- 100% Recyclable

only a standart offer from pallets manufacturers...  
.... but not any global approach

**Orders have to be passed by full trucks and pallets to be stored !**

# The ideal solution

## The solution: innovative pallet

**Don't  
be afraid  
to think  
out of the box.**

### Environmental



- *significant **reduction of carbon foot print***

### Economic



- *optimised supply chain and logistic savings*

### Sustainable



- *universal and **recyclable** raw material*

### Social

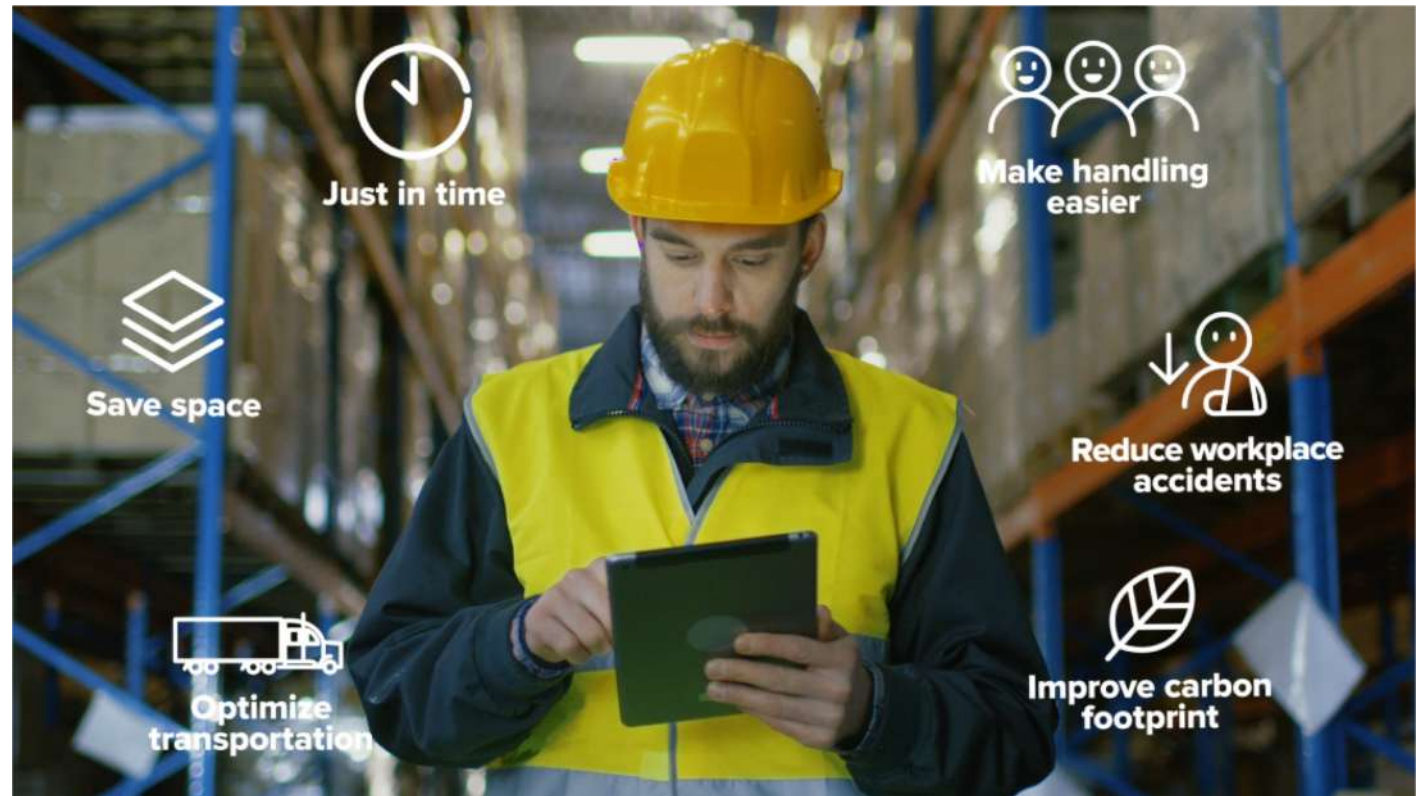


- *3 times lighter and easy to use*
- *reductions of works accidents*
- *ISPM 15 compliant*

# Our response

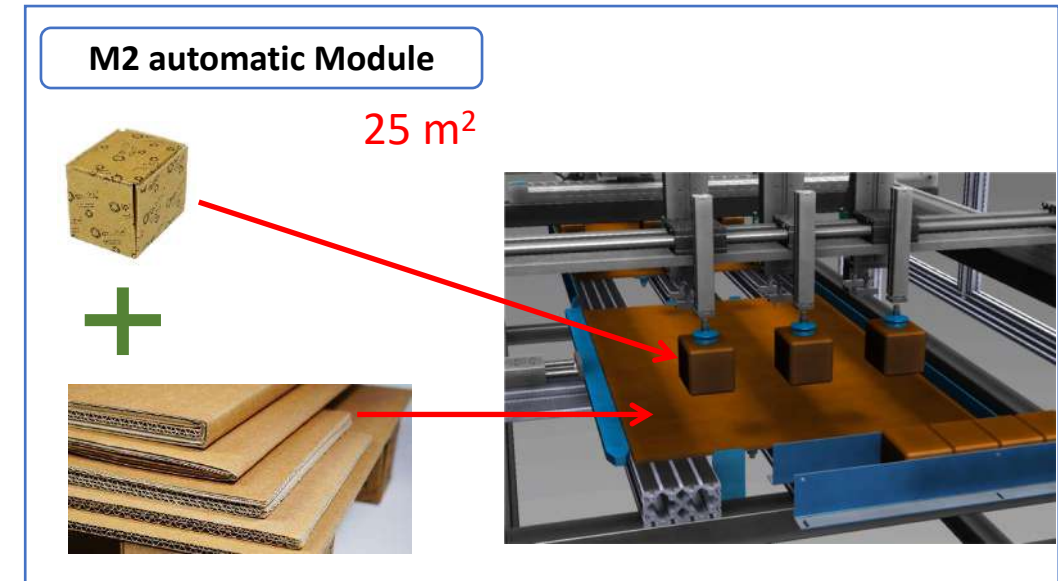
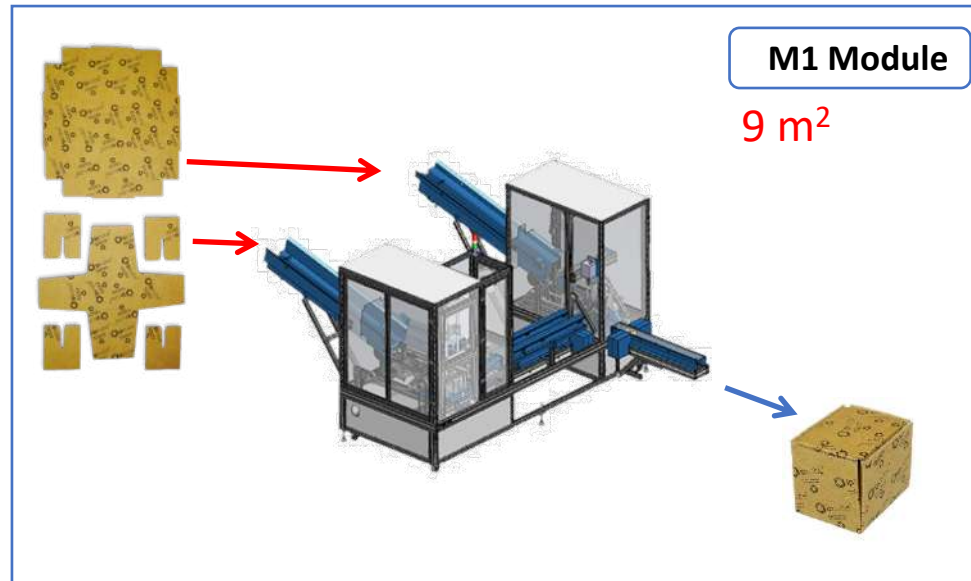
see the video presentation

on youtube: « ipcube » [https://youtu.be/AJar2p\\_x-9Q](https://youtu.be/AJar2p_x-9Q)



# Our response

## Our response: a unique worldwide breakthrough innovation



... a high resistance corrugated cardboard block patented

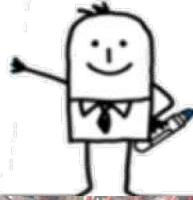
... any sizes pallets withstanding at least at 1800 kg load moisture resistant and ISPM 15 compliant without specific treatment

=



# examples of uses

## heavy duty uses



for sea freight containers



for full automatic logistic processes



1800 kg



900 kg

# examples of uses

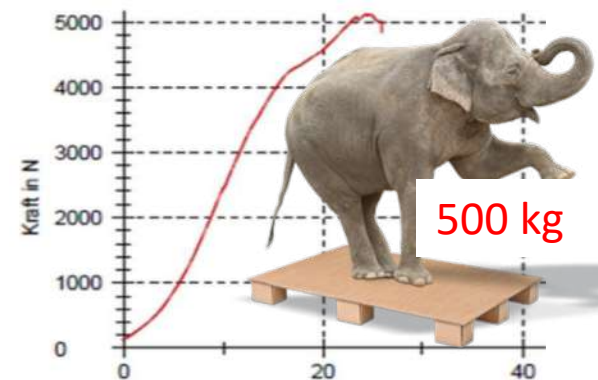
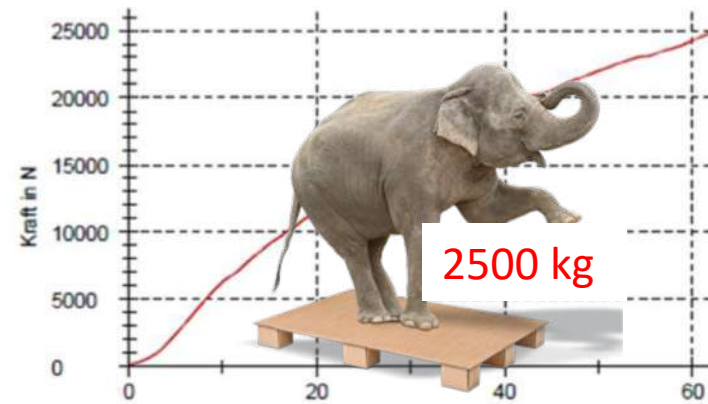
## Modular solutions for operational costs savings

no use of ISPM15 treatment  
replacement of wood collar by cardboard collar in seafreight containers  
optimised sizes 760 x 1140 mm



# examples of uses

## modular solutions for cost savings

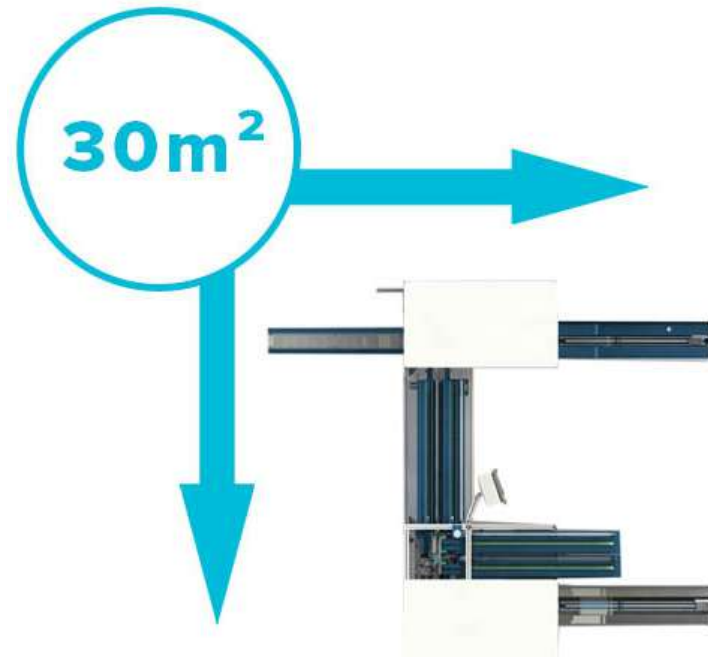


# Autonomy and just in time

## Customer added value : autonomy



**Optimised supply chain** and pallet management with an **attractive ROI**



Compact machines to allow **on-site** production : less than 30m<sup>2</sup>



**100% Self-sufficient**  
On demand production to avoid storage  
«**Just-in-time**»

# Supply chain

## Customer added value : supply chain



(14700 wood pallets)

**X 27**

**=**



**+**



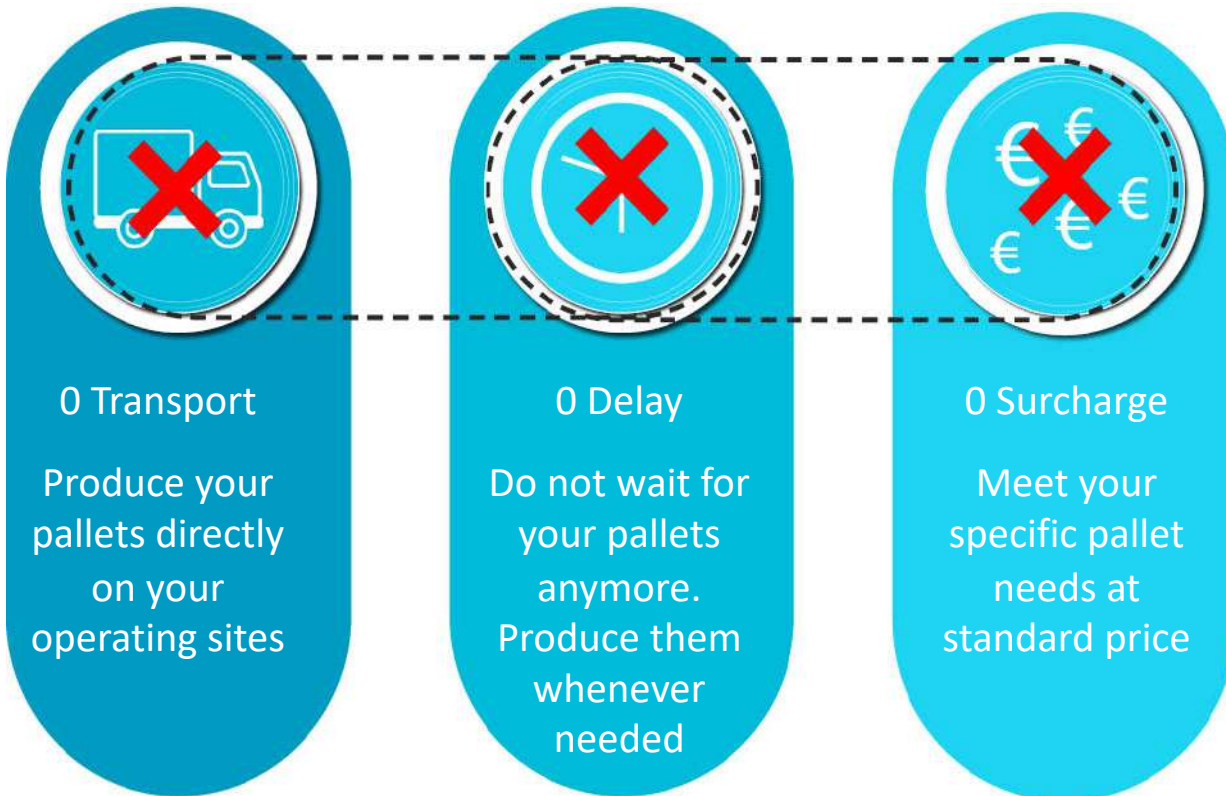
(14700 palcubes)

100 000 Ipcube pallets assembled on-site requires **182 trucks less**.

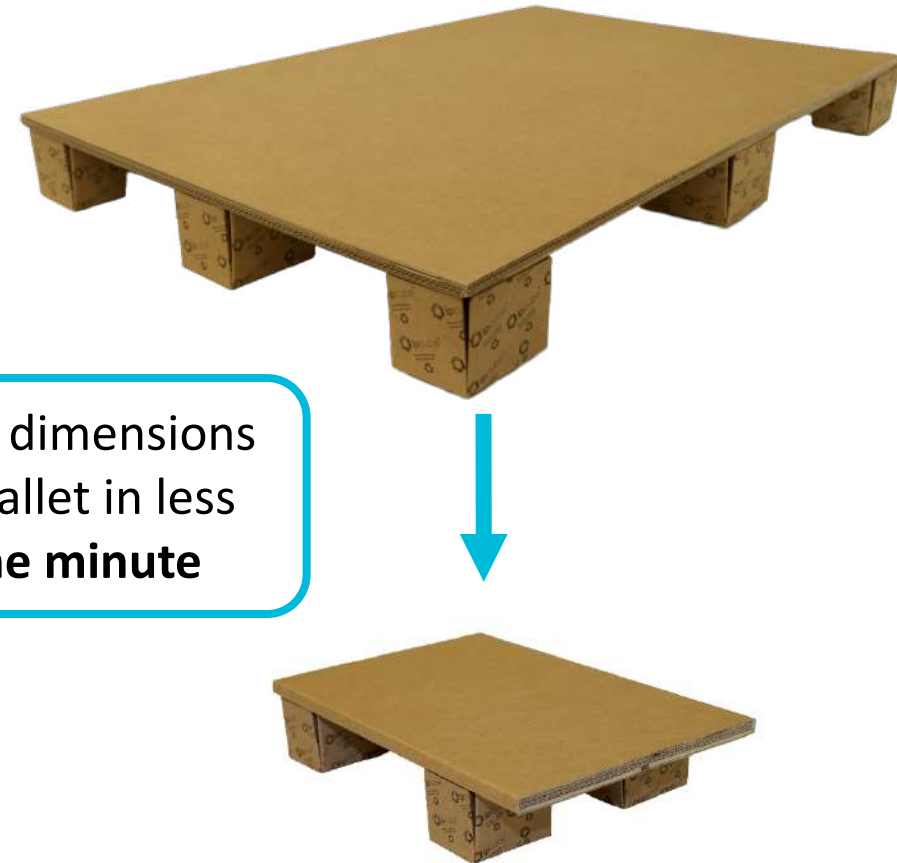
It is up to **19 000 €\* of transport costs savings**.

# On demand and modular

## Customer added value : on demand products



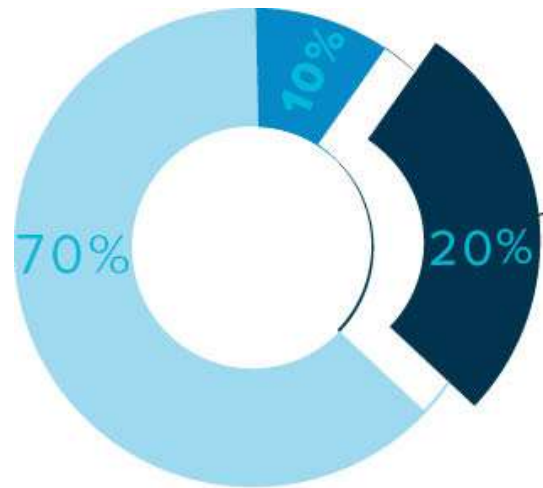
Adapt the dimensions of your pallet in less than **one minute**



# Repacking savings

## Customer added value : operating savings

Distribution of pallet breakage typology



- Reusable
- Broken and destroyed
- Broken and repairable

19/09/2019



7,38€

- Labor\*
- Repair
- Costs of delay

Up to **6,70 €** saved  
per broken pallet



0,68€

### Example

On average over the year, 10% on 100 000 pallets are broken. Adopting palcubes will make you save up to **67 000 €** each year.

# Storage

**Customer added value : storage surface savings**



**Less storage  
= more Operating area**



**Storage area ÷ 8**



(8 palcubes in kit)

# Handling

**Customer added value : handling times savings**



**20 wood pallets**

Reduced time of use of unloading docks

90%\* of forklift labor saved

90%\* of fuel saved

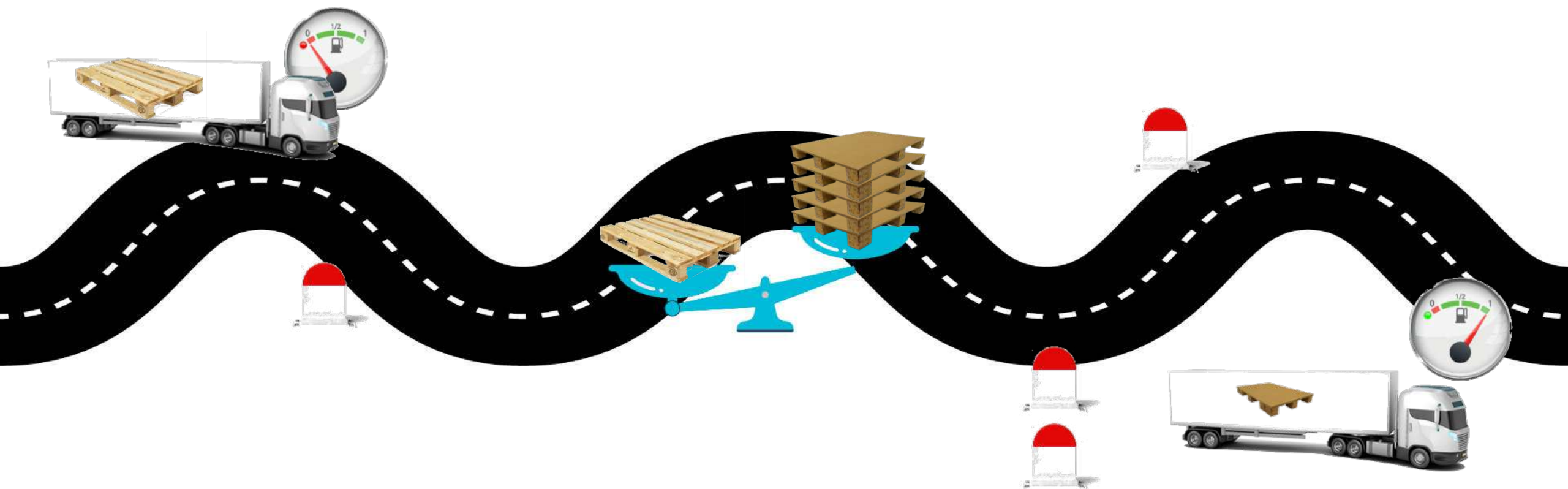
90%\* of unloading time saved



**160 palcubes (in kit)**

# Road freight

## Customer added value : road freight savings



Up to **1t saved** per truck\*  
= 1t of goods added per truck

Dead weight **divided by 5**

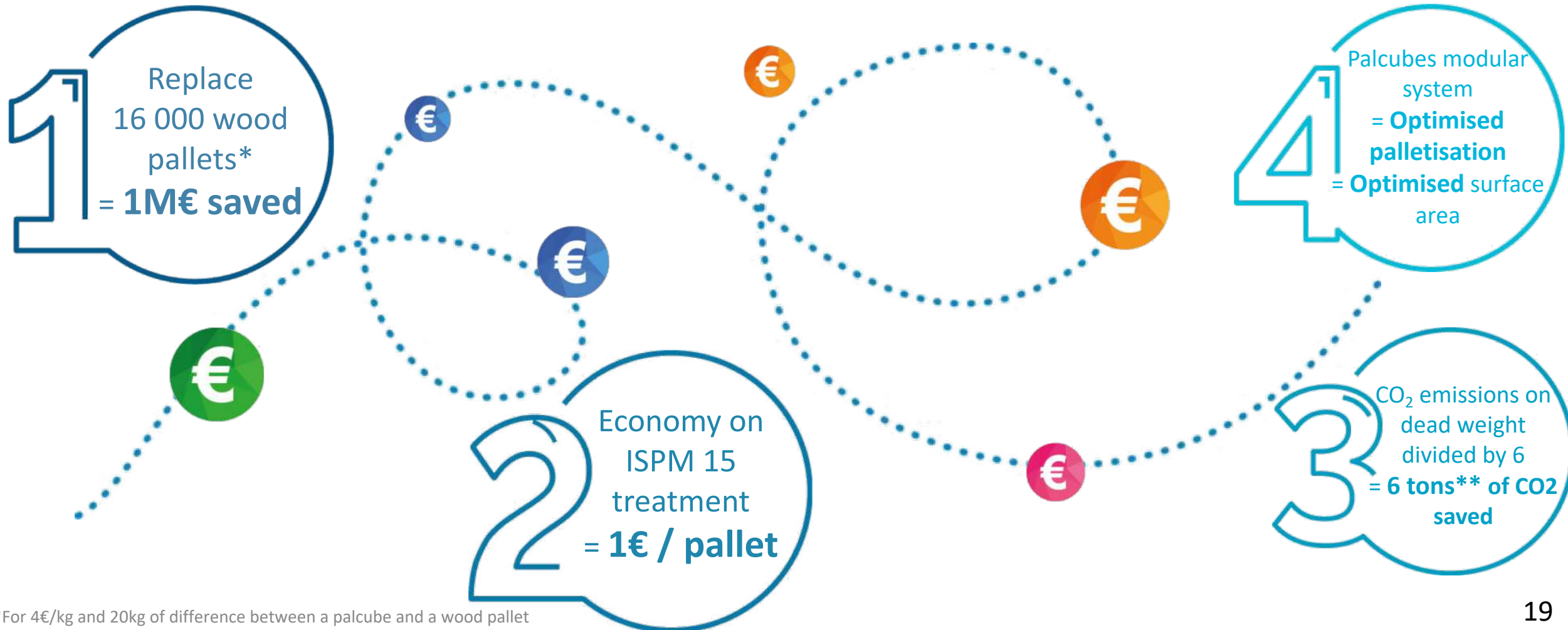
**500 kg of CO<sub>2</sub> saved\*\***  
every 1 500 km

\*Load stacked once, or 66 wood pallets replaced = 1320kg saved

\*\*SOURCE : <https://co2.fretly.fr/>

# Air freight

## Customer added value : air freight savings



\*For 4€/kg and 20kg of difference between a palcube and a wood pallet

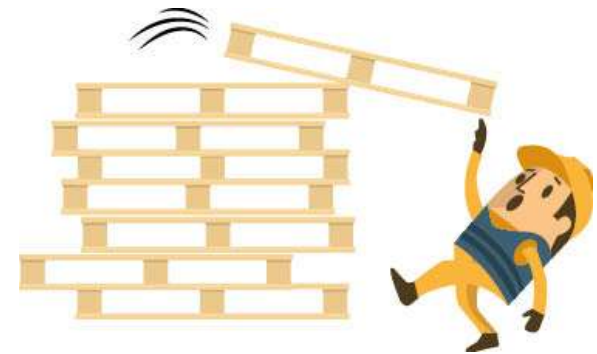
\*\*SOURCE : <https://co2.fretly.fr/>

# MSDs\*

## Customer added value : social costs savings

### Cost price of a medical leave for MSD

- Indirect costs (production delay, training of a replacement...)
- Direct costs (allowances)



Eliminate all accidents due to wood pallets handling.  
Decrease by **10%\*\*** warehouse injuries.

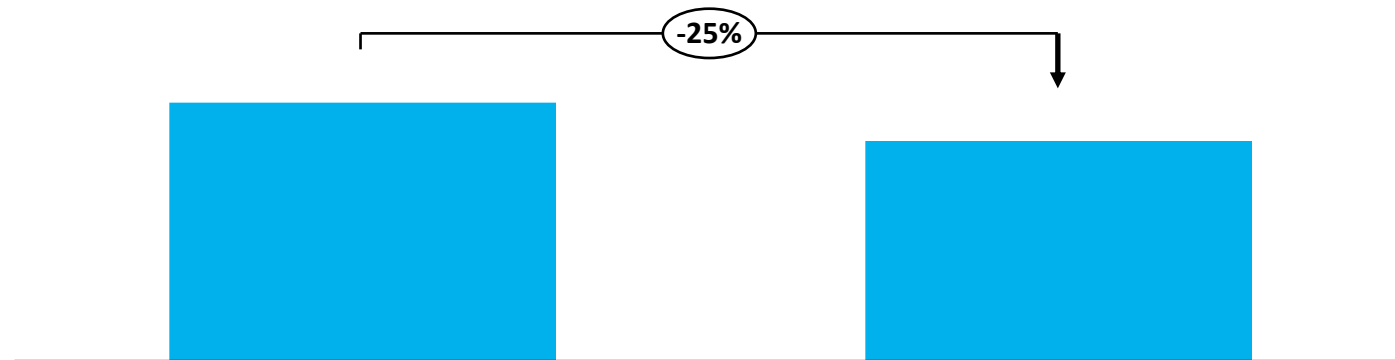


# Cost of ownership

**produce on demand and on site pallets with ipcube machines  
cost at least 25% less than to buy them**

1. finish products cost  
(BUY)

2. production of pallets on site with  
ipcube machines



- excluding transportation costs

# Our company

**our company : SAS IP3 Group - capital of 1 001 000 €**

our strength:

- a unique worldwide patented breakthrough innovation
- support of a packaging engineering company : Innélia

avards:





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