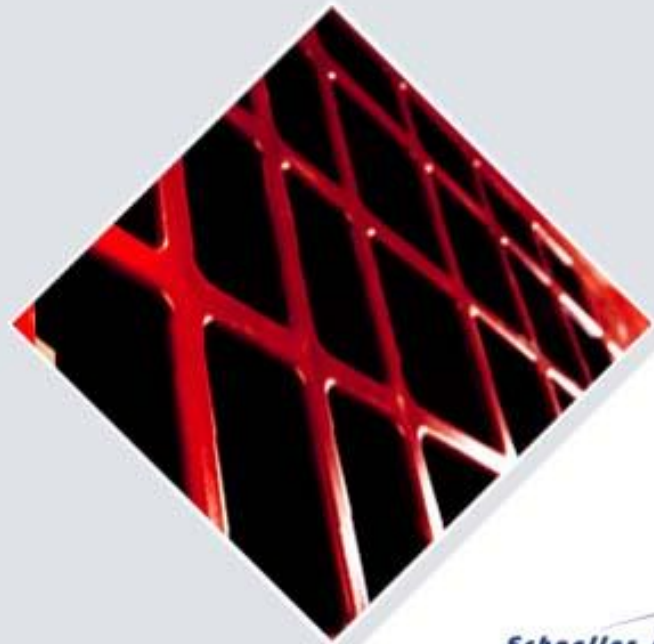


Pallets pooling

Riga

ECR

25.11.2009.

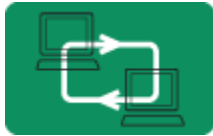


Terms

- **Pooling** is a resource management term that refers to the grouping together of resources (assets, equipment, effort, etc.)
- **Pooler** - someone who shares in and contributes to a general fund for use by all



Pooling – outsourcing of packaging operations



Monitoring



Balance control



Hire



One way packaging (export)

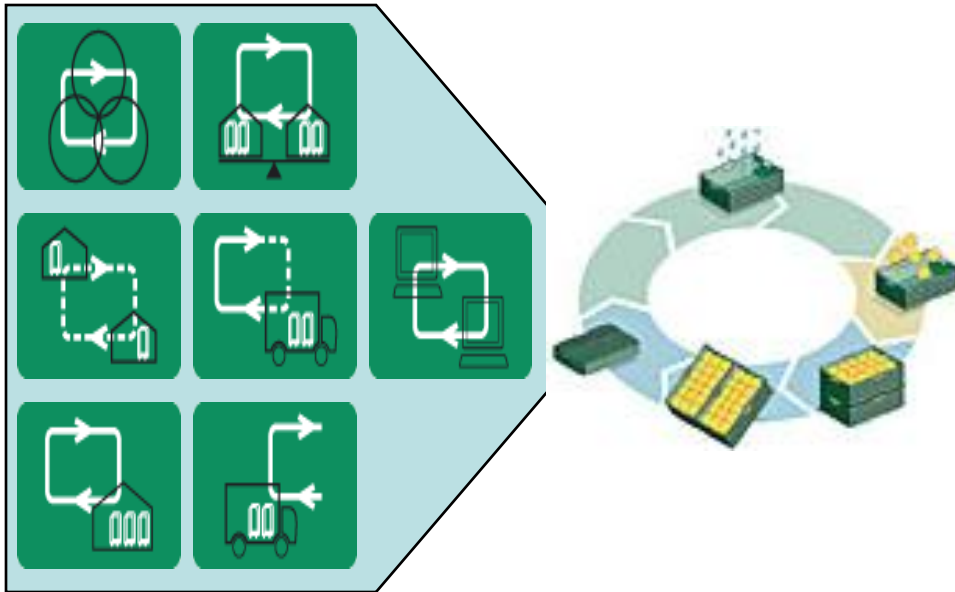


Logistics



Services (washing, repair)

Pooling today – just in place, just in time



The main advantages:

Savings

Quality

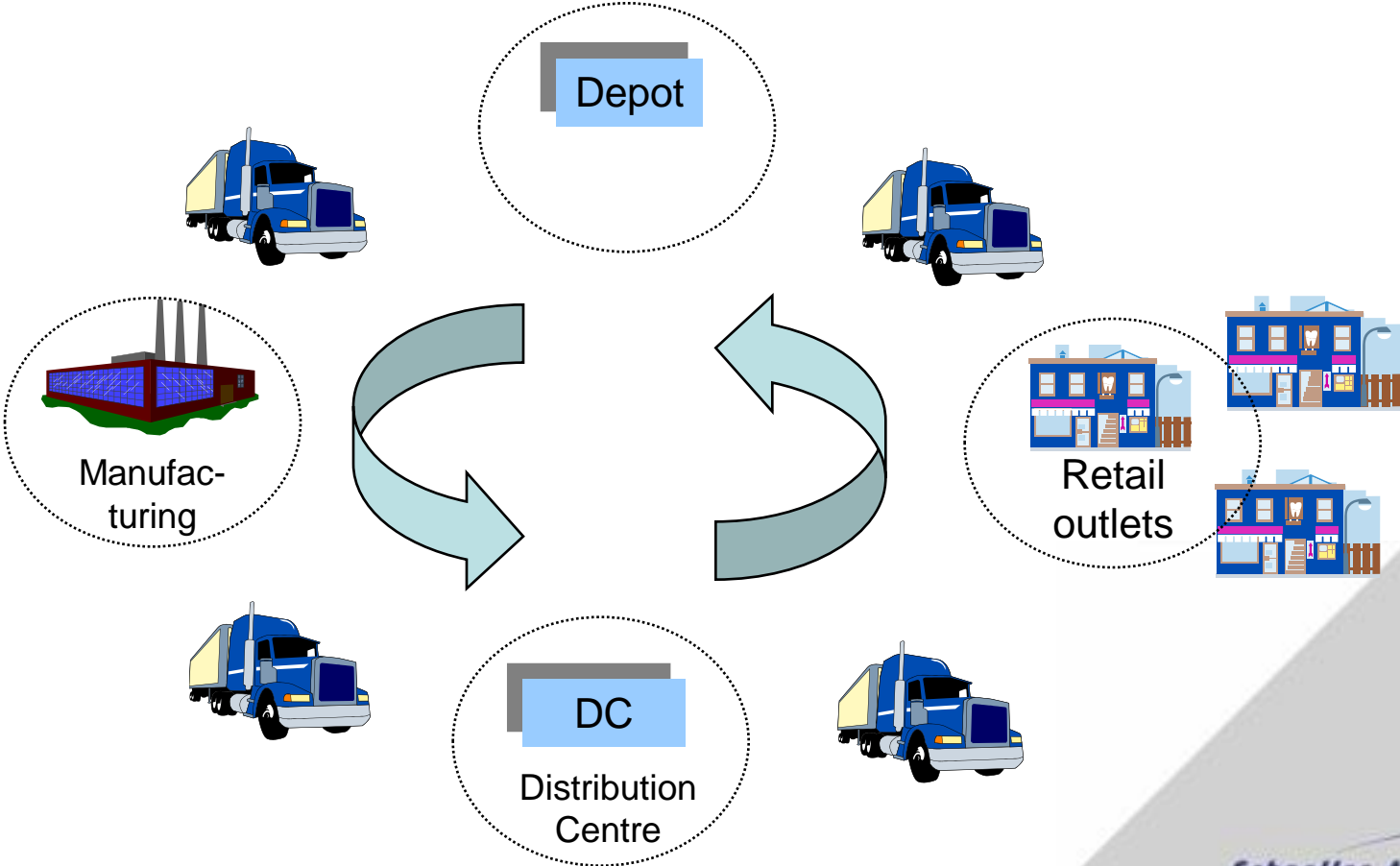
Durability

Efficiency

Environmental sustainability

Model of rotation cycle/services

Supplier > DC > Outlet > DC / Washing > Supplier



World experience



www.igps.net



www.chep.com



www.ifcosystems.com



www.contraload.be

*New pallets pooling company in Russia

Schoeller Arca Systems

Wood versus plastic



Schoeller Arca Systems

Advantages of plastic pallets

Description	Wooden pallet	Plastic Pallet
Hygiene (HACCP)	None	High
Own weight	High	Related with application
Airfreight weight reduction	Limited choice	in function of product
Nails who damage goods	Yes	No
Splinters who pollute load	Yes	No
Suited for RFID	No	Yes
Low tolerance field	Possible	Yes
Risk on failure in production change	Medium	Very low
Absortion of water	Yes	No
Suited ISPM N° 15	No	Yes
Paperwork heat-treatment / fumigation	Yes	No
Limited validity of treatment / fumigation	Limited	Unlimited

Advantages of plastic pallets

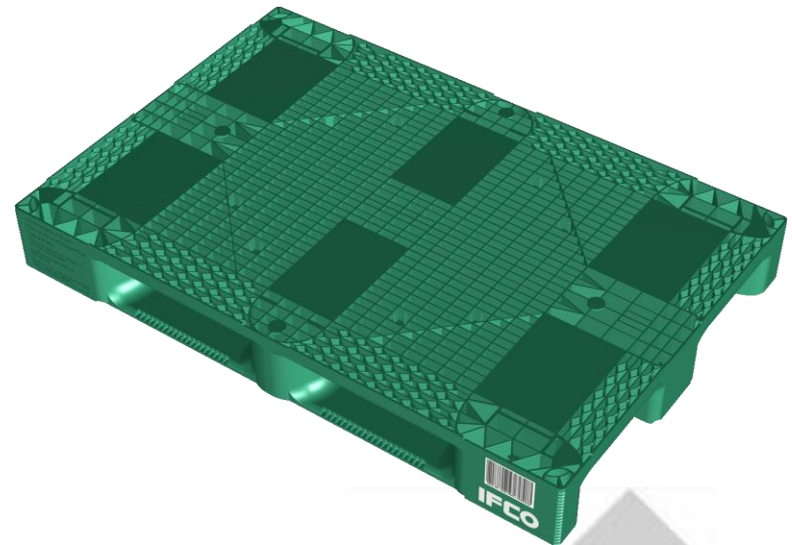
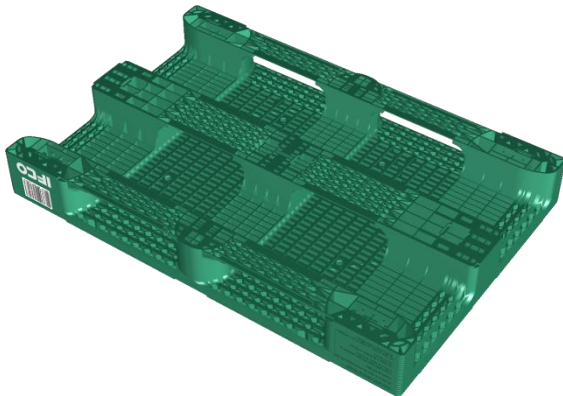
Description	Wooden pallet	Plastic Pallet
Any desing possible	No	Yes
Addaption of the pallet for the load	Low	High
Security at customs clearance	Not sure	Always sure
Recyclability and re-usablity	Low	High
Residual Value	Low	High
Opertation cost	Pure cost	ROI or comparable with wood
Quality of the raw material	Natural product	100 % the same
Marketing image	Low	High
Enviromental conscience reflection	Low	High
Identification	Limited	Based on logo, RFID, colour
Any option like : border, antislip, anti-slip rubbers	Not possible	Any possible
Border empty goods	Not possible	L profiles or external rims
Nestable pallets	Not possible	Place reduction

Cost example wood vs.plastic

Type	BiPP 1208 HR 3R Pool pallet	Wooden pallet
Dimensions	1200 x 800 x 145 mm	1200 x 800 x 145 mm
Weight	17,3 Kg	20 Kg
Top deck	Open	Open
Rim	Yes	Not possible
Anti slip	yes	Not possible
Rubbers	yes	Not possible
Repairable	Not possible	Yes
Expected lifetime (trips)	100	15
Trips per year	7	7
Breakage per year	7,00%	46,67%
Initial price Pallet	26,50 €	7,20 €
Repair cost	0 €	1,75 €
Initial investment	26,50 €	8,95 €
Remaining value	6,92 €	1,00 €
Real cost price*	20 €	8 €
Price per trip	0,20 €	0,53 €
Cost per year	1,37 €	3,71 €
Savings per year	36,94%	
* no interest included / virgin material price 0,9 €/kg		

IFCO pallet BiPP 1208 HR+ 3R

- Basis is Standard 1200 x 800 Heavy
- Special color
- Antislip spray on the closed area of the topdeck
- Witte IFCO logo's
- No safety rims
- 2 pcs G RFID tags in the tag pockets which were watertight closed by ultrasonic welding
- Other possibilities with this pallet is to add antislip to the underside of the topdeck and to the underside of the pallet



Case study

The company Penam (part of Agrofert group) is a leading producer of bakery products in the Czech Republic with 13 bakeries, 4 mills and 39 own shops. These facilities are operated by 2,410 people in total.

In 2008 they launched production in a new bakery plant near Prague. This modern operation is distinguished by a high level of automation and employing of advanced technologies.



The Customer Requirement

- Due to hygienic needs and requirements on parameters of pallets, the wooden pallets were not acceptable.
- The goods are being put on pallets automatically and thus its essential that every pallet provides exactly the same dimensions and deflection. The task was also to provide a pallet just the same as the EUR standard to enable standardization (1200 x 800 x 145 mm).
- Client also decided to put these pallets in existing RFID system so placement of RFID tag is a must for pallet.



Solution



Heavy pallet 1208 HR +3R



1 200 x 800 x 145 mm

18 kg

RFID „enabled“

High durability for very high frequency
operation (365 cycles/year)

The logo for Schoeller Arca Systems features a blue swoosh above the company name "Schoeller Arca Systems" in a blue, sans-serif font.

Schoeller Arca Systems

Implementation

Thanks to its robust design the pallet is perfect for high frequency of handlings, which is a key feature in bakery logistics. The HEAVY +3R pallet is free of any weldings or joints so its easy to clean complies to the HACCP requirements.

Penam is extending the HR+3R pallet also to their other facilities and whats more, they require from their suppliers to use this pallet for deliveries of raw materials and packaging.

The company Penam is also a pioneer in the implementation of RFID technology so their aim is to equip the pallets with RFID tags additionally.



Results

- Pallet is able to work 100% in automated operation (due to minimal deflection)
- One pallet for complete supply chain (from suppliers – to internal distribution – to external distribution)
- Pallet is quickly washed by machine line

