



PONERA

Turning Waste in freight logistics into Intelligent Assets.

Recognized as

Highly Innovative Startup



Innovation Pioneers in Logistics



Cleantech Startup



Certified as

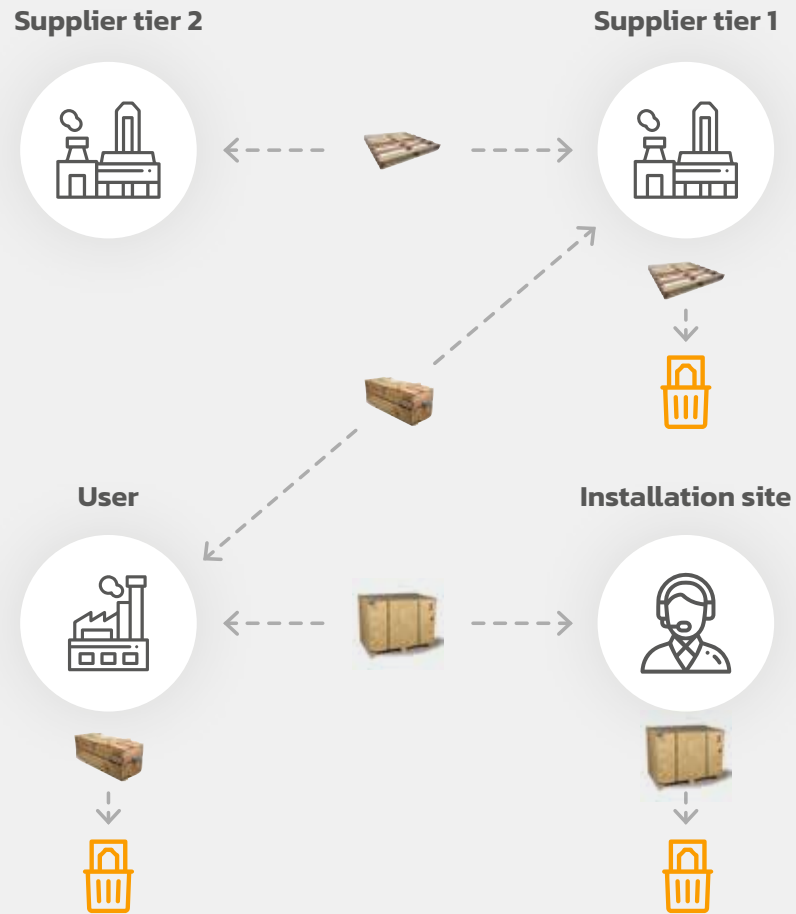




Mission

Facilitate circular logistics through our smart reusable modular and digitally enabled industrial packaging solution. We are a front runner in the development of the Physical Internet.

Losing Millions in Freight Logistics Every Day

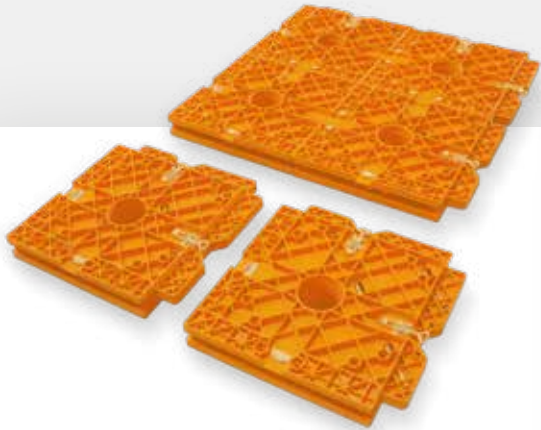


Non standard sized pallets and crates



<p>Very Expensive</p> <p>1 time usage high production costs 25% – 40% of total logistic costs</p>	<p>High environmental impact (wood waste)</p> <p>30% of global consumption</p>
<p>Overhead Inefficiency</p> <p>Up to 20% man power for Purchase Orders</p> <p>Non-synchronized deliveries (WH space & Late deliveries)</p>	<p>Not suitable for digitalization era</p> <p>No Transparency</p>

Ponera Solution Reusable Modular Industrial Packaging



- Different sizes of modules attach in any direction.
- No size restrictions.
- Assemble and disassemble 2 components in 5 seconds.
- Transport goods up to 15 Tons!



- Optimal stacking: Lean warehousing and reverse logistics.
- Possible pairing with connectivity devices
 - Efficient circular economy
 - Effective digitization



Highly Cost Effective

15 Year Life Cycle



100% recycled Polymer

+ fully recycled & sustainably sourced

Traceable (IoT)

+ Software solutions

Multiple Patent App.

International Utility on Concept and Design

Safety (operators & goods)

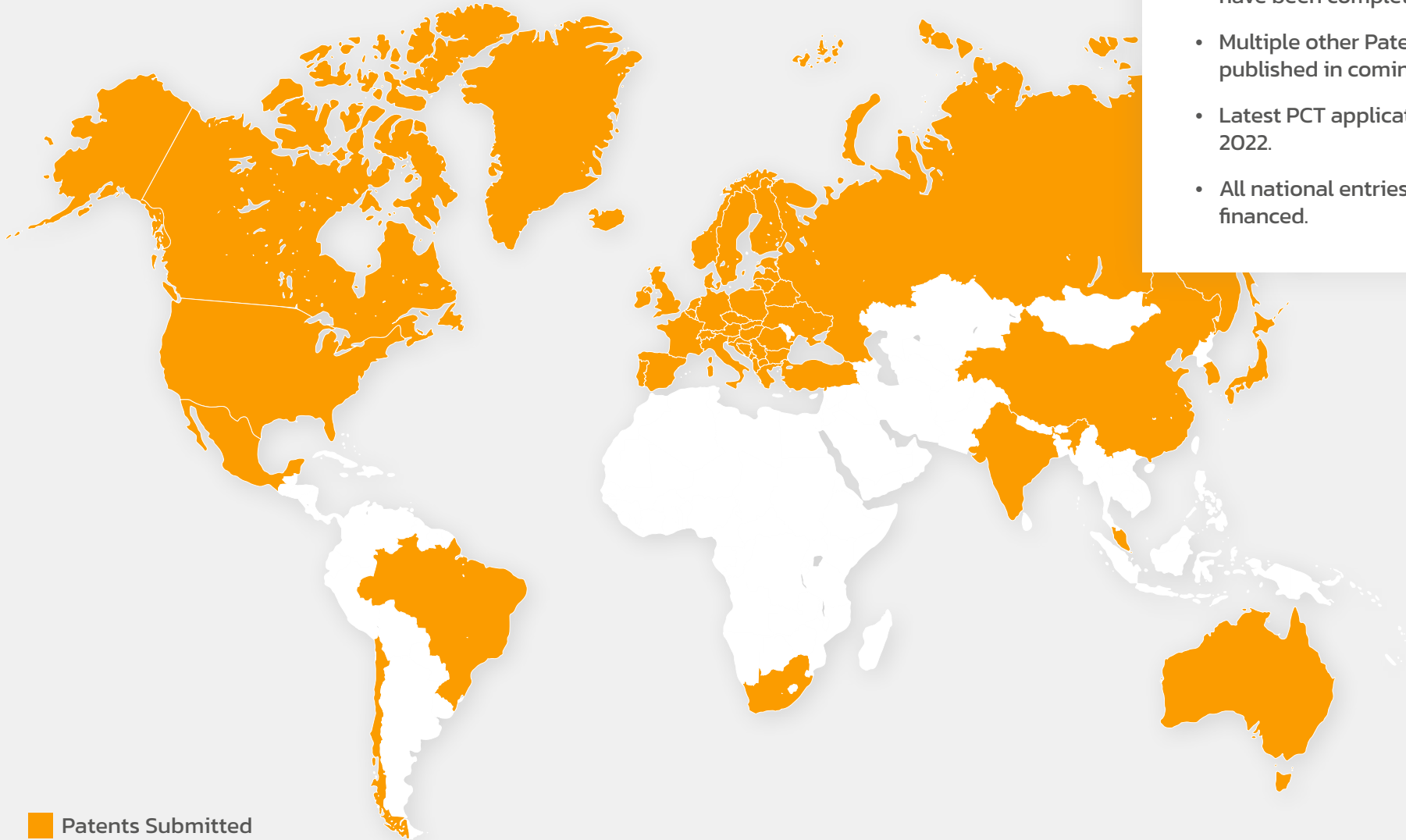
no nails, no tearing, lower weight, non-flammable

Fully recyclable

+ non vergine material used

IP Strategy

Main global economies and trade routes are covered by our IP strategy



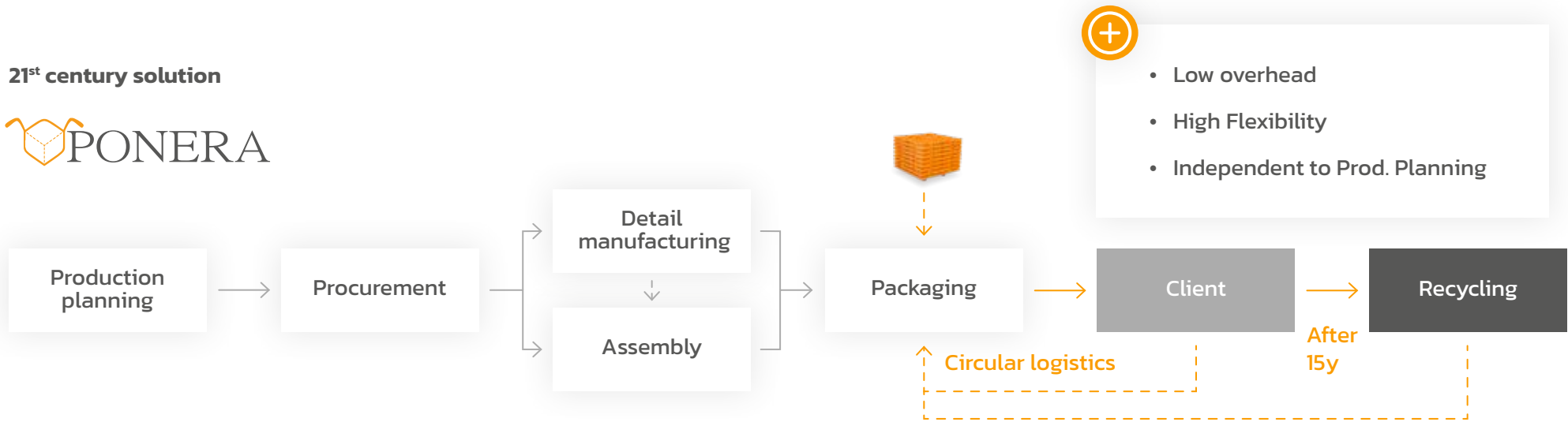
Patents Submitted



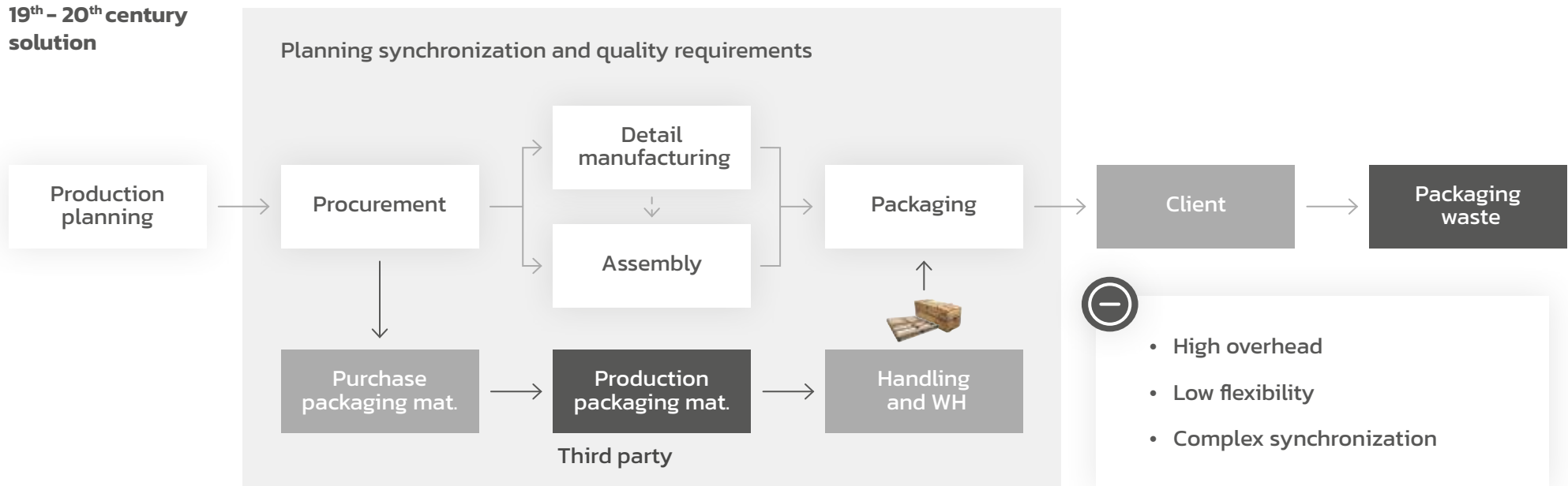
- Multiple PCT applications on Utility for Design and Concept. Positive Feedback received.
- Trademarks on Logo and Name have been completed.
- Multiple other Patents will be published in coming months.
- Latest PCT applications filed in 2022.
- All national entries are fully financed.

We make life simpler

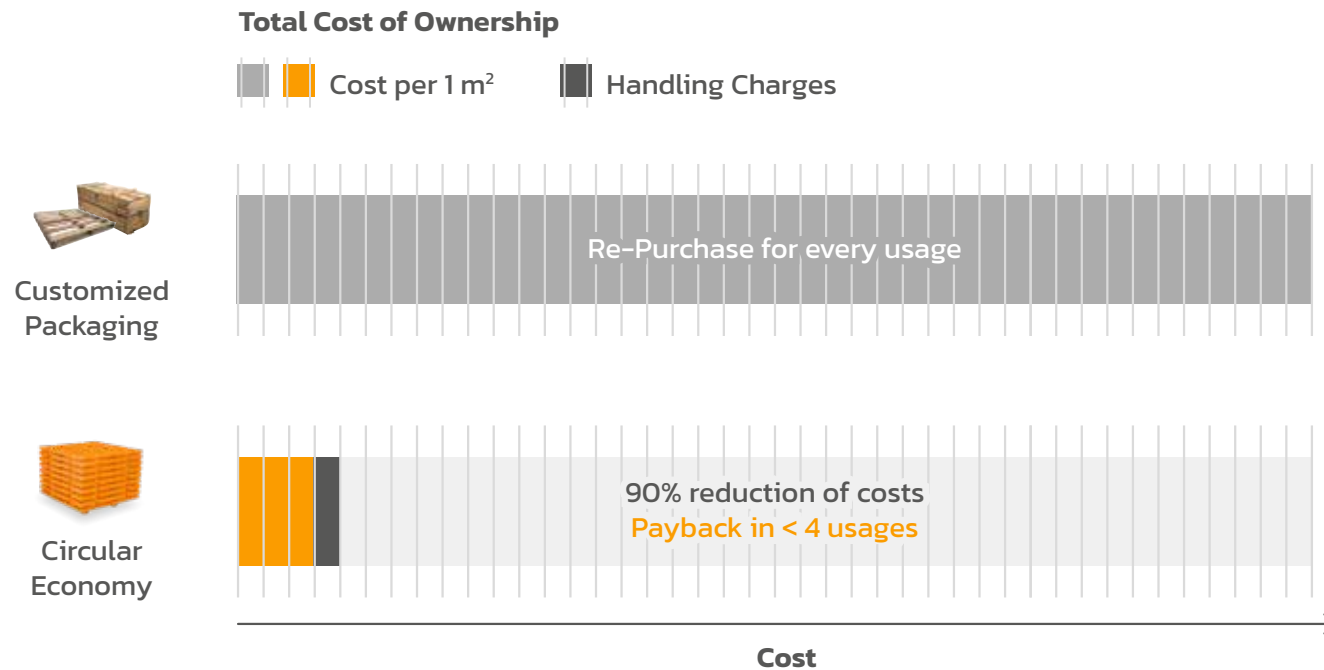
21st century solution



19th - 20th century solution



Ponera Offers Dramatic Cost Savings



Additional Benefits

- 60% Lighter
- 4x less warehousing space
- More convenient process
- Digitally enabled
- 85% Transport Inefficiency Reduction
- Reduced Purchase Orders

savings offered depend on flow characteristics such as module usage rates, volumes of goods transported (economies of scale) and packaging and transport types (cost structures).

Huge Reduction in Environmental Footprint

19th - 20th Century Industrial Packaging



- High Variance
- Low turn rates
- High Stock
- Material Waste

30% of wood is used for pallets and crates, often only used 1 time.



25% of CO₂ emissions is to manufacturing (18%) and to transportation (7%) of goods.

- Manufacturing
- Freight

The results are based on models created in OpenLCA 1.8 with the database Ecoinvent Version 2. „Life cycle assessment of one-way and pooled pallet alternatives.“ Procedia CIRP 29 (2015): 414-419 „Environmental analysis of pallets using life cycle analysis and multi-objective dynamic programming.“ Anil et al. (2010)



21st Century Industrial Packaging



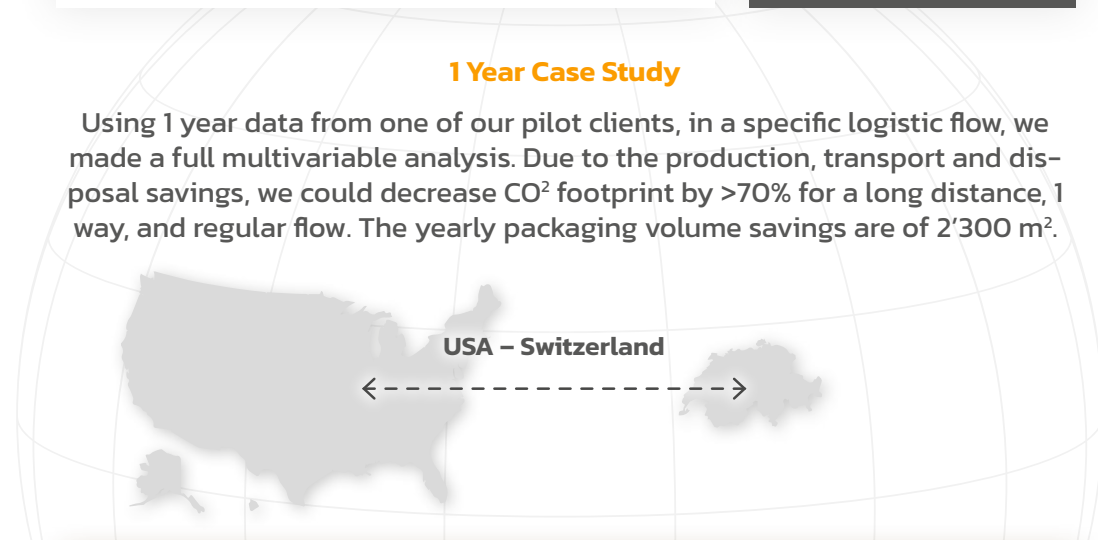
- Standardized
- High turn rates
- Low Stock
- Sustainable



Wood Consumption Reduction 95%

1 Year Case Study

Using 1 year data from one of our pilot clients, in a specific logistic flow, we made a full multivariable analysis. Due to the production, transport and disposal savings, we could decrease CO₂ footprint by >70% for a long distance, 1 way, and regular flow. The yearly packaging volume savings are of 2'300 m³.



USA – Switzerland



Offered Savings:

94t CO₂

Flow Analysis: Holistic view



One company full analysis:

- up to 70 % of regional transport CO₂ emissions reduction
- 10k Tons CO₂ emission reduction
- 92 % of logistic flows benefit financially from a reuse system
- Financial savings: CHF >10m p.a.

Flows

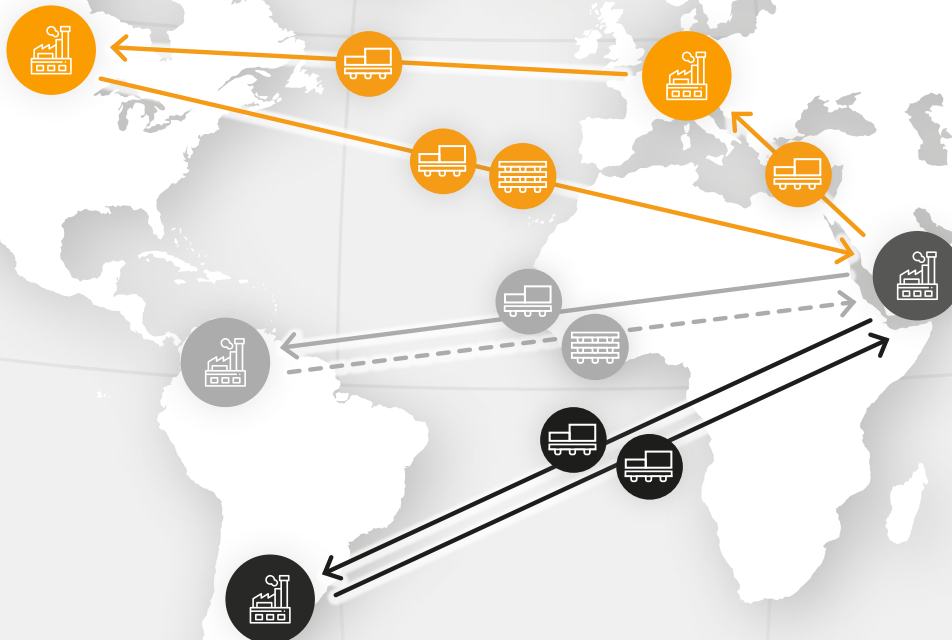
- Closed loop
- One way flow
- Circular loop



Modules

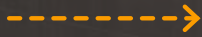


Pallets



Implementation Phases

1-3 Months
Try-vesting
or
3 Months
Pilot



1-3 Months
Analytics for implemetation

-----> 100% conversion rate to date

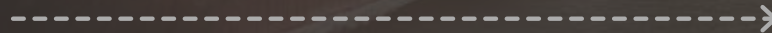
6-9 Months
Immediate impact



12-24 Months
Further implementation



12-24 Months
Analytics for implemetation



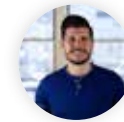
Join us in shaping the future of logistics



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