PONERA

Turning Waste in freight logistics into Intelligent Assets.

Le Garage - EPFL Innovation Park, Chem. de la Raye 13, 1024 Lausanne | Greater Zurich Area, 6918 Figino 🚺 Switzerland

Recognized as





Certified as





Achievements

- Client portfolio: The solution represent market potential of > CHF 200m p.a. (spend in packaging)
- > CHF 1.5m in implementation contracts and LOIs 2022, > CHF 3m for 2023
- Ponera modular packaging has successfully trasported loads of > 15 tons, and certain modules used >50 times using different tranport modes
- Client analytics completed so far with paying customers:
- average payback in less than 4 usages
- offered costs savings for 90% of all deliveries, average payback cycle in < 2 y, and 35% of cases with payback < 1year
- CO₂ emissions payback in < 1y average
- Re-sellers increase Gross Margins up to 3x
- Strong traction: 6 corporate and re-seller clients completedpilot phase, average cost >CHF 20k, >85% conversion rate
- Average implementation >CHF 100k investment in year 1. 6 additional pilots agreed, and 10 forecasted in 2022
- Industrial Supply Chain successfully implemented with multinational partners; can be rapidly scaled with very high product quality
- Raised > CHF 1.4 m so far, with CHF 2.5 m comitted for next round
- 5 International Utility Patent Applications, > 40 patent national entries and trademark registration
- Diligent and efficient use of resources; runway of > 6 months always guarenteed

Prizes and recognitions



Highly Innovative Startup

Innovation Pioneers in Logistics



Cleantech Startup







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 Industrial Packaging Every Day



Example Industries:

- Industrial equipment, machines an parts
- Furniture
- Art piecies
- Certain commodities

Non reusable custom sized pallets and crates





Up to 20 % man power for Purchase Orders

Non-synchronized deliveries (WH space & Late deliveries)

Not suitable for digitalization era

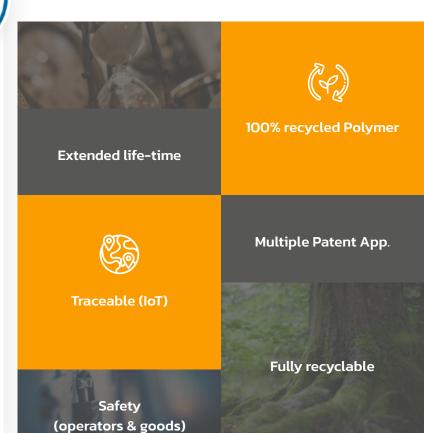
Limited Data, no Transparency, no Platform

Ponera Solution Reusable Modular Industrial Packaging



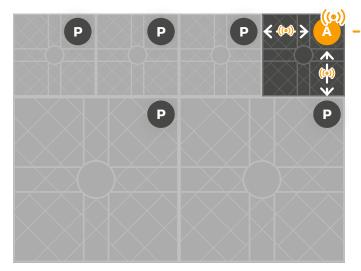
- Different sizes of modules attach in any direction.
- No size restrictions.
- Assemble and disassemble 2 components in 5 seconds.
- Transport goods up to 15 Tons!

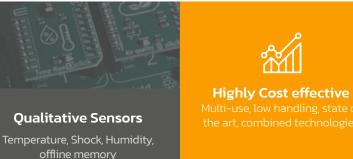
- Optimal stacking: Lean warehousing and reverse logistics.
- Possible pairing with connectivity devices
- \rightarrow Efficient circular economy
- \rightarrow Effective digitization



Ponera Brings Packaging to the Industry 4.0 Era

Digital IoT:





Traceable (IoT) GPS Geoloaction

Multiple Patent App.







Ponera Mobile App:

- Seamlessly guiding users through Ponera process (SOP)
- Offline enablement
- 5 main product features



Ponera Platform:

Full transparency and real-time visualization of pallets, goods, and main data points

Circularity & Pooling: Optimizing module fleet management

2 features:

- Inventory Management
- Sharing/transaction enablement

Integration with other platforms

Data Analytics: Optimizing processes and operations directly or indirectly linked to packing/ freight transport.

• Algos, AI, Data Mining

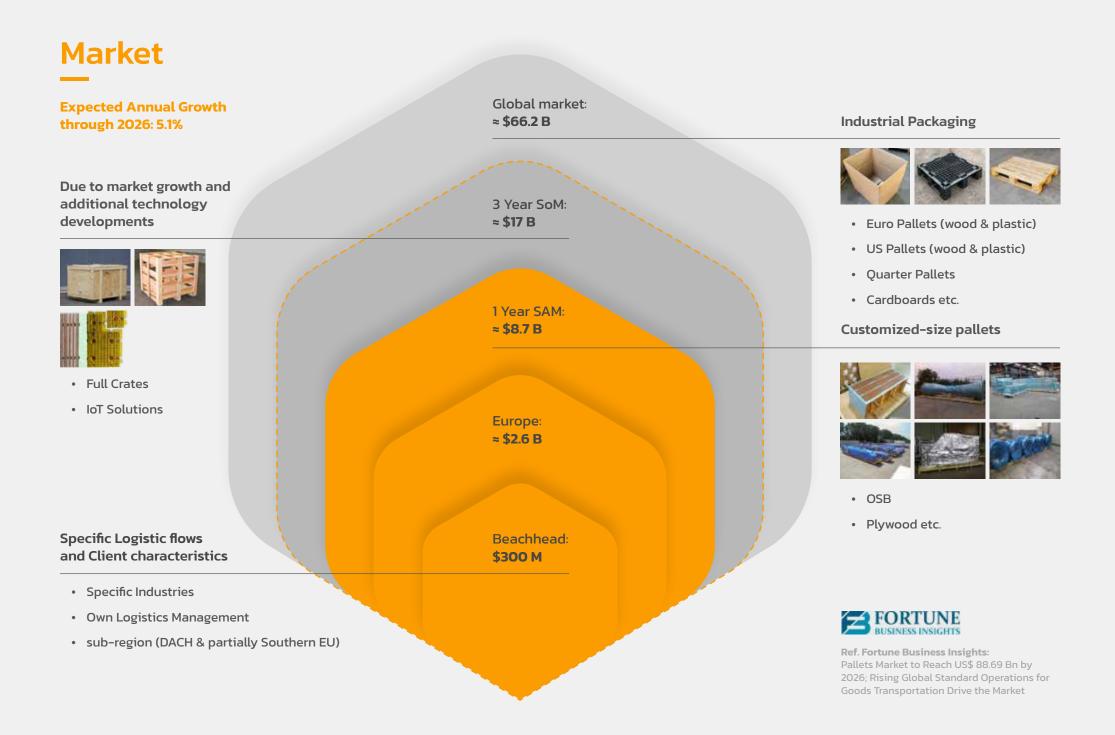
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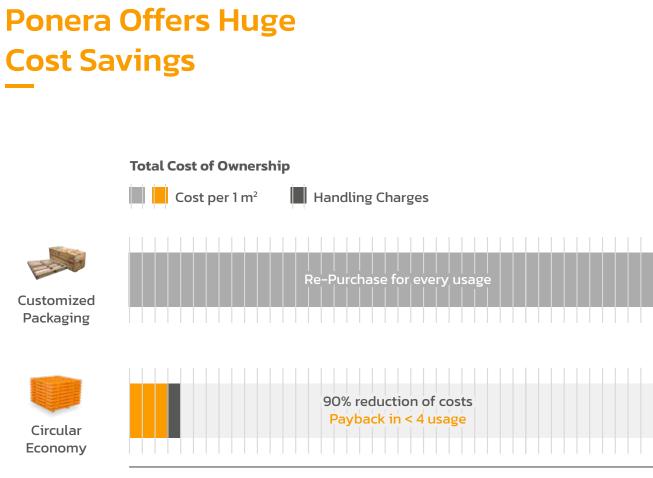
IP Strategy

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

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- 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.



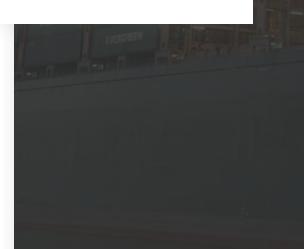


Cost

Additional Benefits

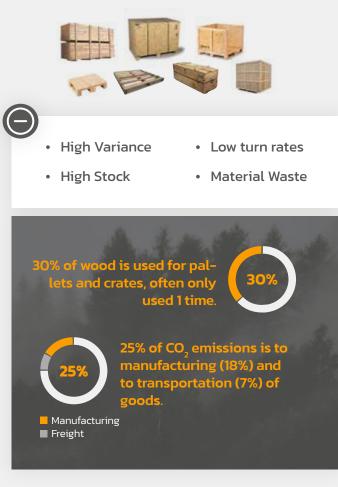
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- 60% Lighter
- 4x less warehousing space
- More convenient process
- Digitally enabled
- 85% Transport Inefficiency Reduction
- Reduced Purchase Orders



Huge Reduction in Environmental Footprint

19th - 20th Century Industrial Packaging



The results are based on models created in OpenLCA 1.8 with the database Eccinvent 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



1 Year Case Study

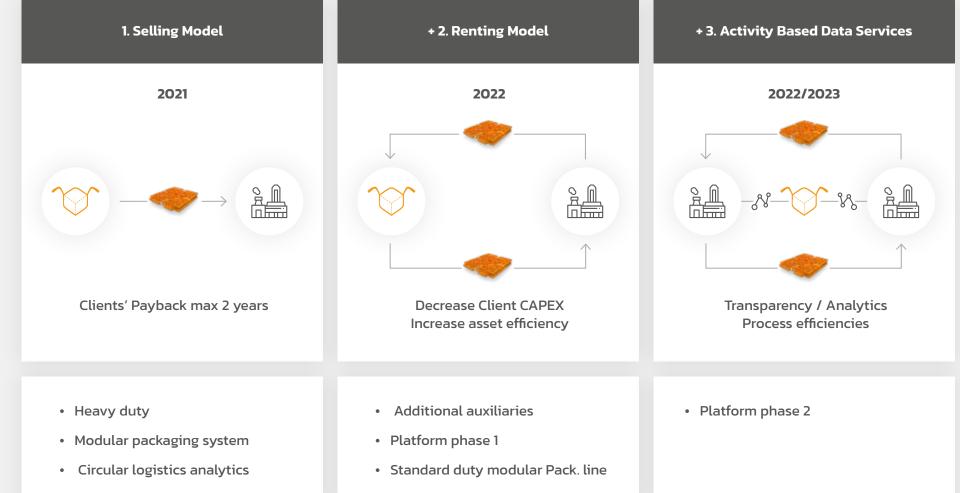
Using 1 year data from one of our pilot clients, in a specific logistic flow, we made a full multivariable analysis. Due to the production, transport and disposal savings, we could decrease CO² footprint by >70% for a long distance, 1 way, and regular flow. The yearly packaging volume savings are of 2'300 m².

USA - Switzerland

Offered Savings: 94t CO₂

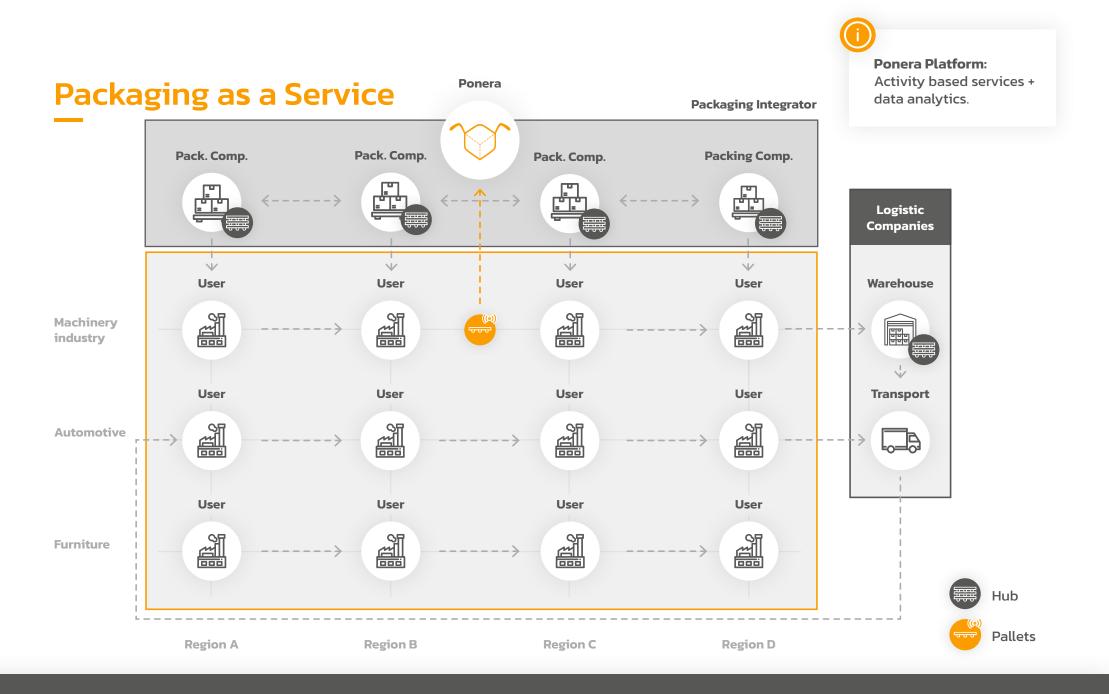
Product Development & Business Model





Business Model

Product Development



User: Owner of the goods being transported

Packing Comp.: Producer, distributor and provider of packaging services

Logistic company: Company providing services and infrastructure for transport services

Funding needed

Market Validation - 2020 500 K CHF Target (1M CHF Acheived)	Scale Up - 2022 1.8 M CHF + 1.2 M CHF	Growth - 2023/2024 5 M CHF
Investments: Investment required to create the product (R&D) Business development activities. R&D for product development Net Working Capital for Pilot activities Business devel. activites Multiple international patents and national entries filed	Investments: Supply Chain Build Up Further R&D on Hardware & IoT Solutions Distribution Scaling (Business Dev)	Investments: Develop the renting model Improve the IOT Solutions Business development activi- ties
Outcomes: Pilot Activity completed Validated market appetite Market ready product Product ready for Market First clients on-board	Outcomes: Production and Supply Chain in place IoT ready for deployment Globalization of operations and client base	Outcomes: Renting Model in place (Mix Sales/Rental) IOT Solutions phase 2

Join us in shaping the future of logistics



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