

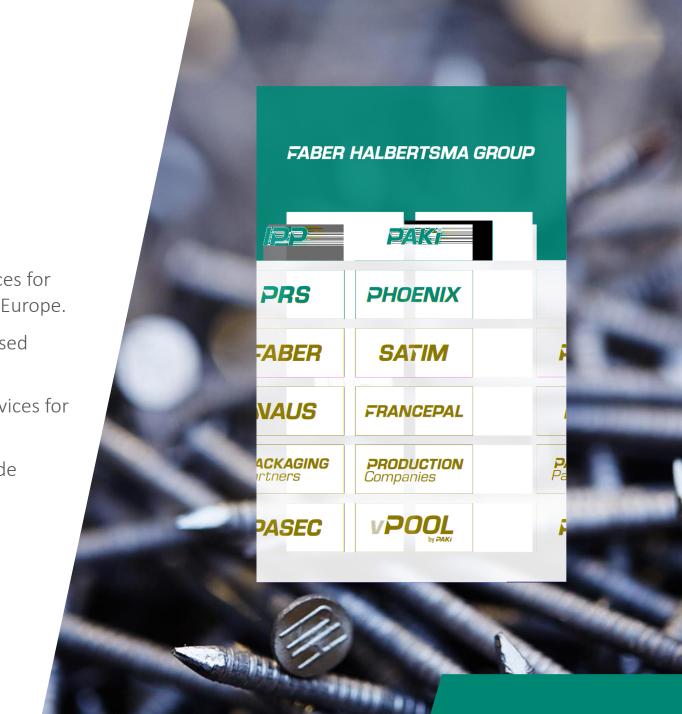
Standards and Collaboration as enabler for pooling services – first-hand insights into project by IPP

ALICE - IPIC 2021, 15.06.2021

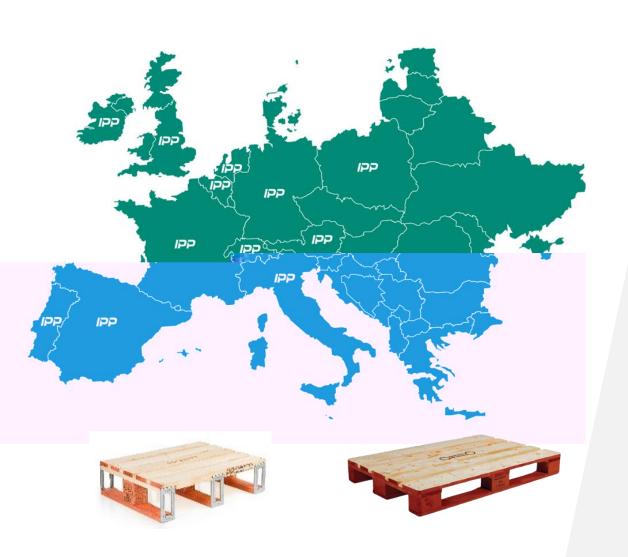




- → IPP provides sustainable closed pallet and box pooling services for the FMCG and recycling industry, covering most of Western Europe.
- → PRS, short for Pallet Return System, provides sustainable closed pallet pooling services to the European polymer industry.
- → PAKi is one of Europe's leading sustainable open pooling services for exchangeable standardised load carriers.
- → vPOOL offers sustainable open pooling services for food grade load carriers throughout Europe.



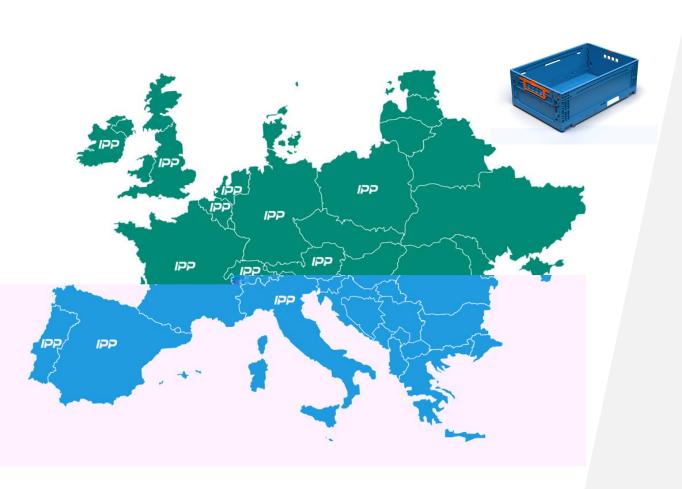




- BeNeLux
- Germany, Austria, Switzerland
- UK & Ireland
- France
- Iberia
- Poland







... fitting into our strategic portfolio of load carriers and services

- Synergies with existing flows and products
- Sustainable multiple-use approach
- New, innovative technologies and options
- Road towards serialized, data-based management of returnable assets
- 7 digit initial invest into the future ...



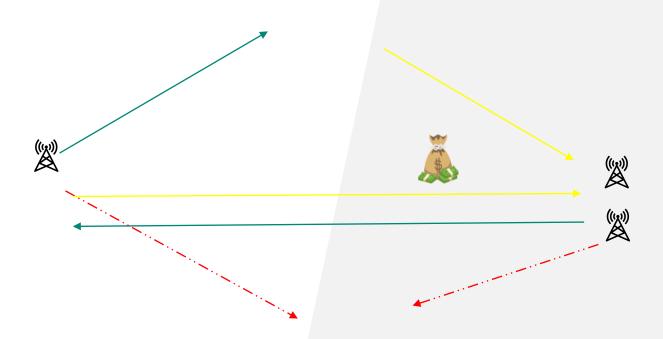
- → From Intra-logistical view towards cooperative asset use and management
- → Collaboration in technical and organizational development
- → Acceptance & Commitment
- → Gain- & Cost-Sharing







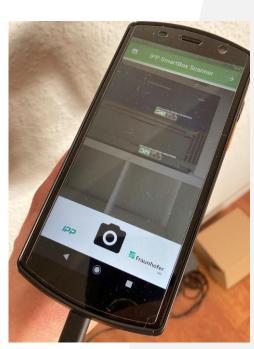






Innovative technologies – (r)evolution towards smart RTIs





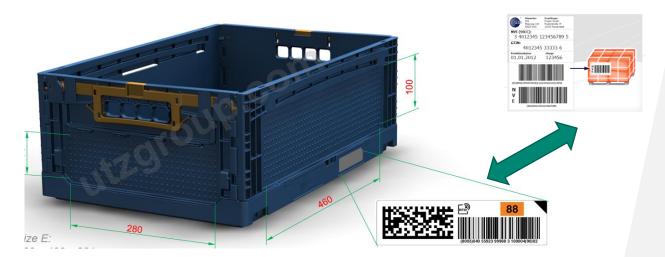












From load carrier to data carrier ...

- Step by step ramp-up
- Identification-Software and Hardware
- Barcodes supplemented by RFID tags
- 2D barcodes enable camera based bulk-reading
- Linking the physical to the digital world
- Linking box to the goods inside

... more than a box



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