

Getting ready for the circular economy



Agenda

Klöckner Pentaplast: Who we are

We're getting ready for the circular economy

kp Tray2Tray® programme

Opportunities and challenges

Over to the expert panel

Ana Fernández

Global Innovation
Director, Food Packaging

Presenter



Scale

Leaders in high-barrier protective packaging and durables



2 divisions31 plants in 18 countriesacross 5 continents

Key company milestones

1965

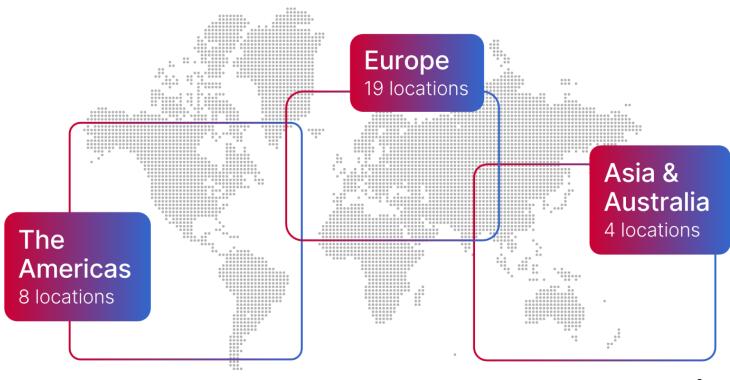
Founded in Montabaur, Germany

1970

Entered North American market

2012

Acquired by a group of investors led by SVP Global





Pharma, Health & Specialties

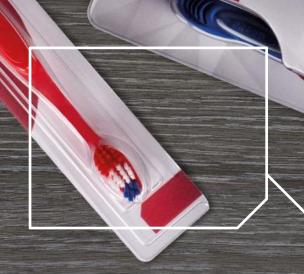


Pharma & Medical Devices

Cards and graphics



Labels



Health & Consumer Products







Close the loop

One of the main kp priorities





- Use less virgin raw material and more post-consumer recycled material
- Encourage consumers to recycle more by working with others to improve infrastructure and incentives
- More of our products specifically designed to be recyclable and weigh less, while complying with regulations and delivering superior performance

Make all of our packaging recyclable

By 2030, 100% of our packaging will be recyclable.

- Ramping up kp's recyclable portfolio of products that comply with Design for Recyclability standards
- Increasing number of products that are from only one type of plastic
- Collaborating externally to improve collection, sorting and recycling infrastructure



Use more recycled material

By the end of 2025, we will use at least 30% post-consumer recycled material in our PET packaging.

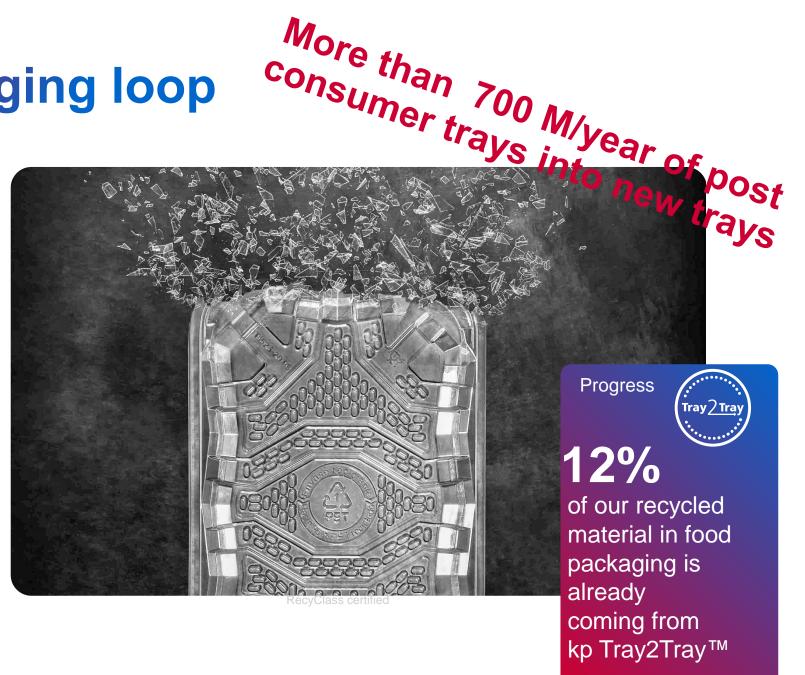
- Maximizing recycled content while reducing the use of virgin materials
- Setting up initiatives to increase the supply of PCR material
- Establishing recycled PET usage at scale, and explore other recycled polymers



Close the packaging loop

By the end of 2025, at least 30% of recycled material in our packaging will include 'Tray2Tray™' material.

- Establishing dedicated program to 'close the loop' for trays and rigid films
- Increasing the use of tray flake as kp's main goal through partnerships with local recyclers
- Working with customers and suppliers to 'push' and pull demand for PET trays

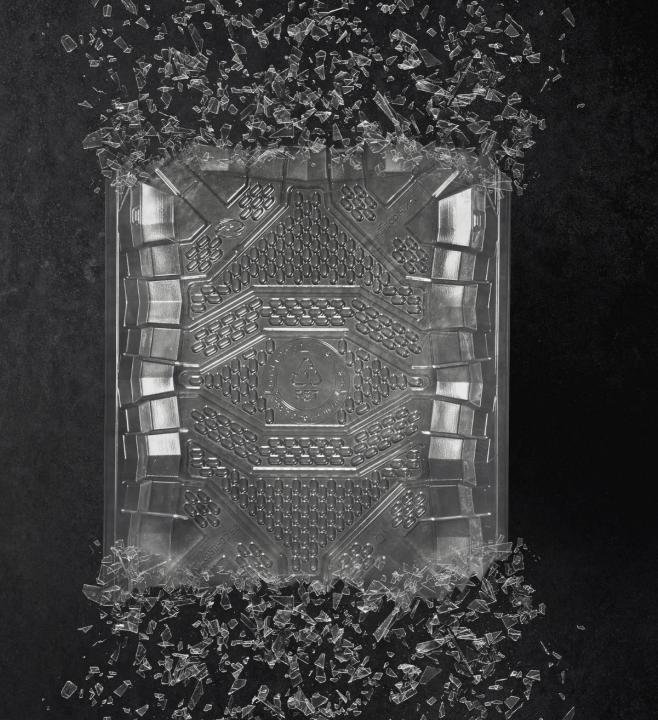


Tray Tray

Giving trays new life, time and again

Our goal is to revolutionise the recycling of food packaging, committing to a closed loop.

We are on a mission to recover used food packaging and turn it back into more of the same. Thanks to kp Tray2Tray®, our plastic trays and rigid films can come back time and again as safe, protective, fully recyclable food packaging. The possibilities are endless.











Available across our PET tray portfolio

kp Tray2Tray® is being rolled out across our PET tray manufacturing sites.



Third party certification

Certification and traceability ensured by external auditing of our supply chains and manufacturing siter (e.g. RECYCLAS).



Fully circular

PET is an easily recyclable material which is strong, clear and durable and can be used time and again for new products. Our mission is to improve recycling of food packaging to increase availability of this valuable raw material, closing the loop.

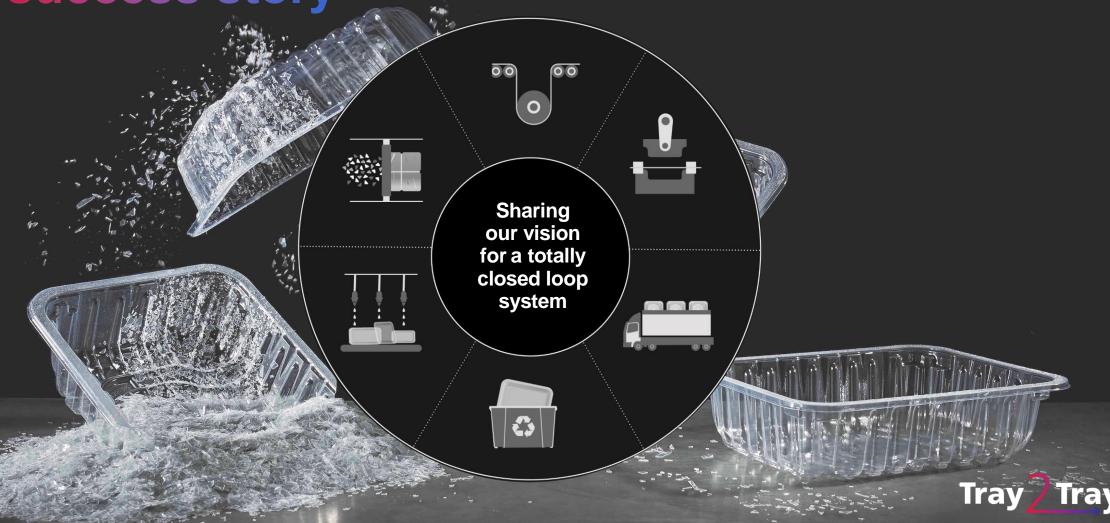


Maximum food protection

Trays and rigid films for form, fill and seal applications can be sorted and recycled back into more food grade packaging with no compromise on functionality or safety.









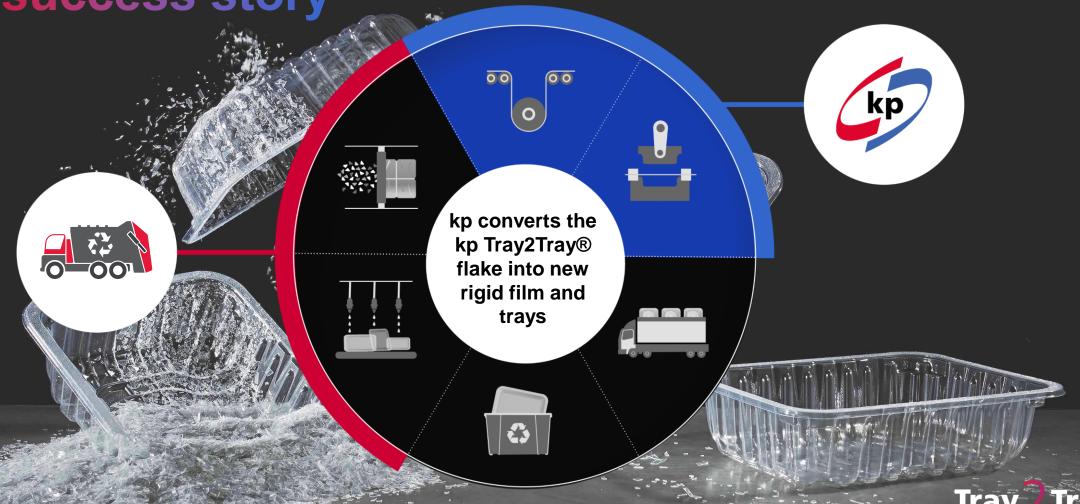




Tray / Tray

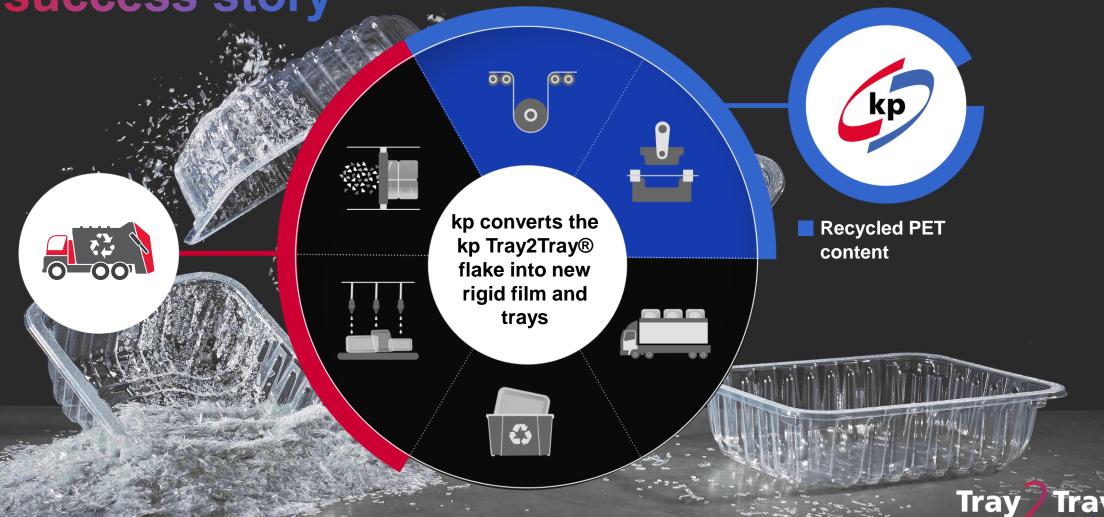


a success story

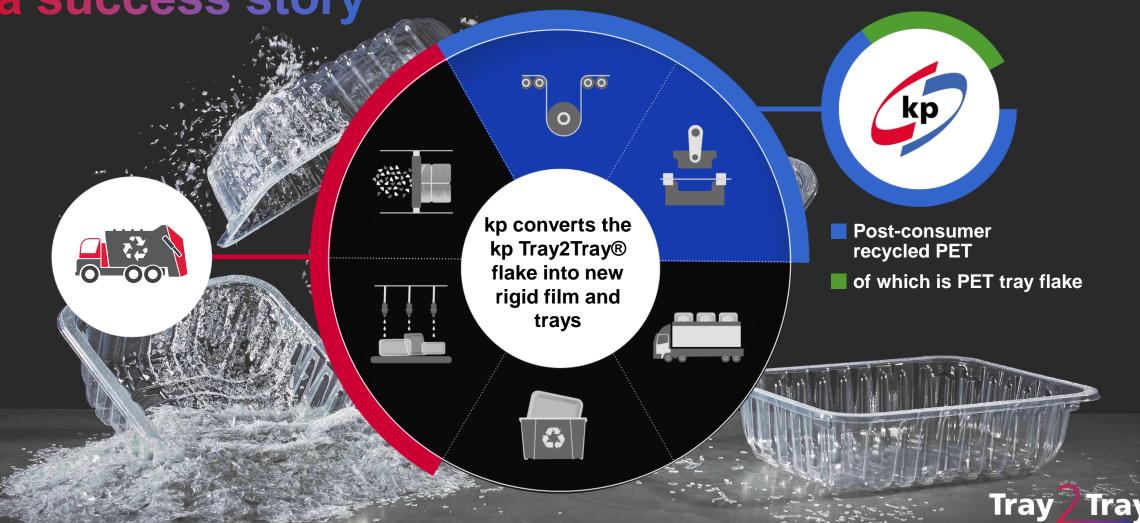


Tray / Tray

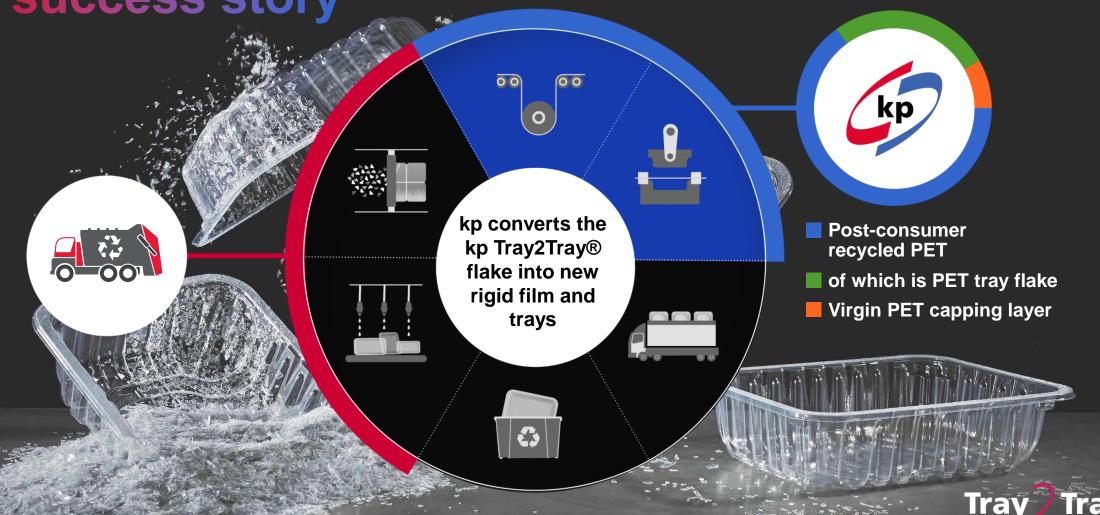












a success story

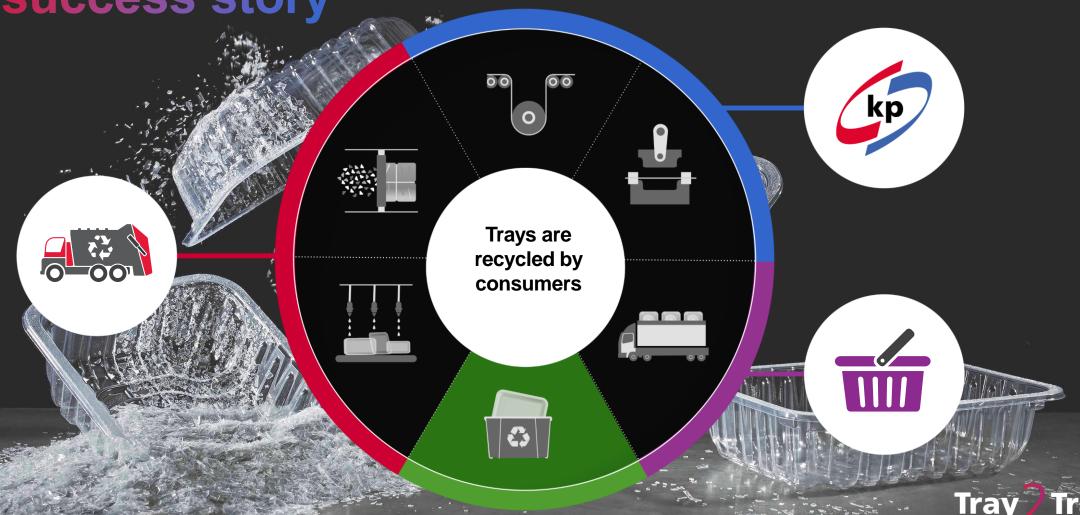




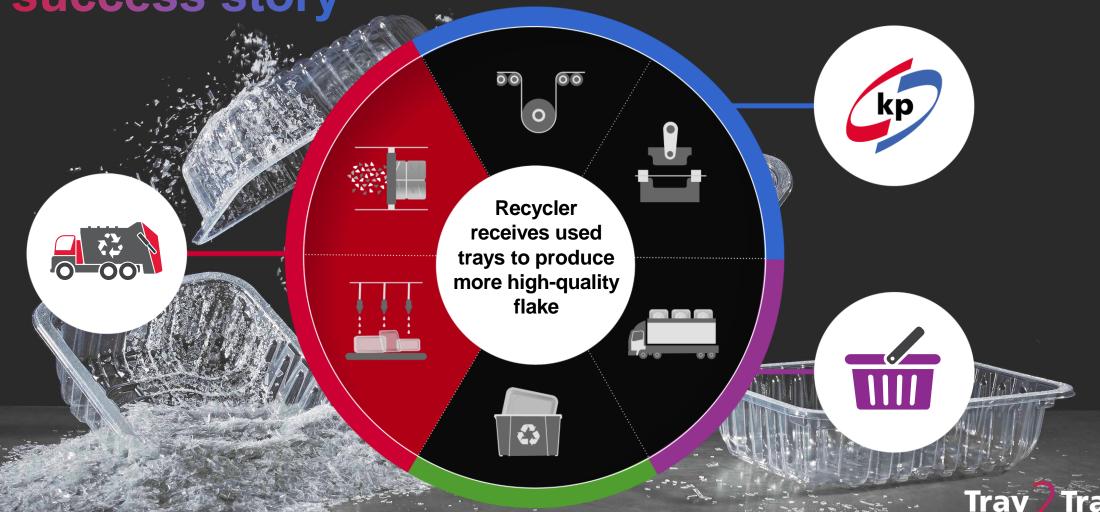
Tray / Tray











Opportunities and challenges



1000 ktons* of opportunities

- 1000k tonnes of PET trays are wasted each year!
- kp Tray2Tray® on its own has the potential to bring more than 50k tonnes of recycled PET back



Opportunities and challenges



Closing the loop at scale demands a high degree of collective action and innovation



- Design alone not enough to enhance quality.
- Bales specifications must facilitate PTTs recycling.
- Sorting must be improved.
- Separate collection or post-selection.
 - Food/non-food
 - Mono/multi
 - Colors
- Watermarks or other identification alternatives have to be implemented.
- Final consumer has to understand the value of waste and collaborate.

Opportunities and challenges

We as an industry need to go further, faster





- Different legislative initiatives are coming into force to define recyclability and boost recycled content.
- EPRs support is basic for boosting demand.
- **Ecomodulation** offering **cost incentives** for products meeting recyclability criteria and incorporating recycled material.
- Packers & Retailers have to ask for closing the loop by using PCR from thermoforms and be rewarded for it.
- Converters have to set targets around.

By 2030 plastic trays in Europe must be recyclable

1000 ktons opportunities

Collective action

Further, faster

Thank you

Ana Fernández