

Nuevos desarrollos orientados al "convenience", sostenibilidad, eficiencia operativa y digitalización New developments in convenience, sustainability, operative efficiency and digitization

Manuel De Las Peñas (SEALED AIR)





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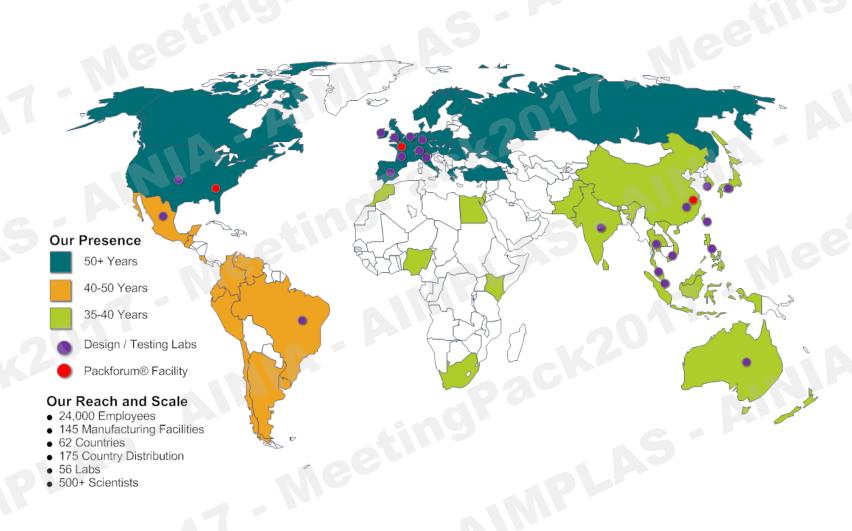
Convenience, sustainability, operational efficiency and digitalization: new developments in Sealed Air

Manuel de las Peñas · Sealed Air





Sealed Air: A Global Network Supported by Local Experience







3 trends that are shaping the future of food packaging





Industry 4.0



Zero waste

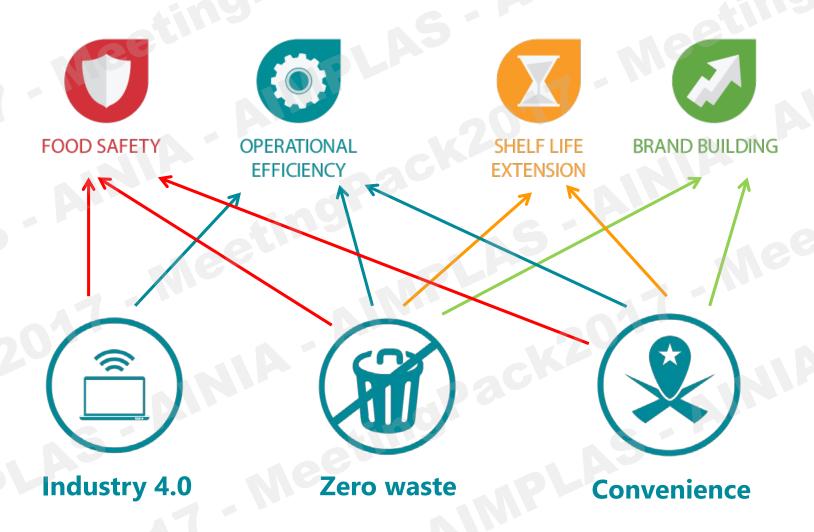


Convenience





3 trends that are shaping the future of food packaging



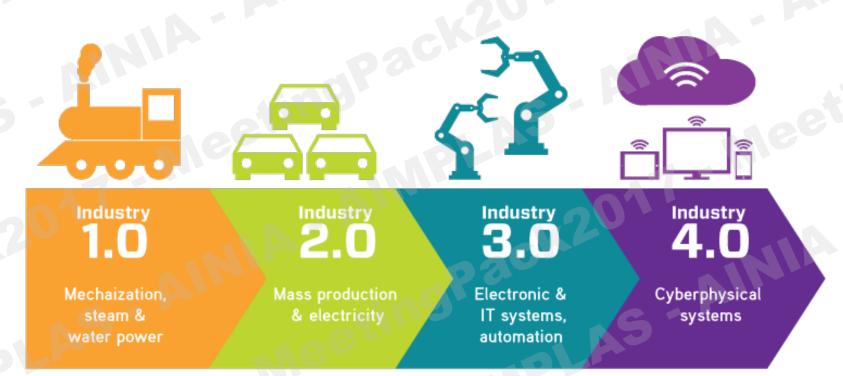




Industry 4.0 in food processing



"Industry 4.0 is changing how the food industry tackles problems like food safety, waste and speed of their operations "







Industry 4.0 in food processing





greater flexibility, agility and efficiency to the productive processes, in order to meet demands of:





Lower prices



Higher product quality



Improved sustainability







Industry 4.0 Knowledge based services. CogniPRO тм



Systems

Services designed for packaging equipment

COGNIPRO™ CORE SERVICES

COGNIPRO™ INTEGRATION SERVICES

> COGNIPRO™ LINK

Supply chain

value added services to improve processors' operation in 3 pillars

OPERATIONAL EFFICIENCY AND YIELD



Cogni**PRO** Cryovac® FocusTM





Cogni**PRO** тм **Cryovac**[®] **Focus**[™] **A Yield Improvement System**

CAMARA CAPTURES IMAGES AND SENDS TO COMPUTER





CogniPRO Cryovac® Focus™ Sealed Air A Yield Improvement System

"You can't improve what you can't measure"

Value captured in manual & automated processing

- Eliminate manual audits reassign auditor to higher-valued role
- **2. Improved data consistency** eliminate variation from multiple auditors
- Optimize automated equipment for improved yields (in automated deboning)
- **4. Training tool** Can measure improvement and put a value on training
- 5. Testing tool Can compare techniques of deboning (equipment settings for deboning in automated systems)



meetingPACK meetingPACK 2017 3rd EDITION

Zero waste



"70% of Spaniards claim that

they throw away food because they forget the products in the refrigerator, in the pantry or in the freezer so that they expire, are damaged or are not completely reliable for the consumer"

Source: AECOC "Hábitos de aprovechamiento de los alimentos 2017

Companies are recognizing the benefits of lightweight, sustainable food packaging which results in:



fewer manufacturing costs



reduced waste going to a landfill.



less environmental impact from transportation









Zero waste Cryovac[®] Darfresh[®] on Tray











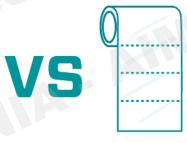
Zero waste Cryovac[®] Darfresh[®] on Tray







Cryovac® Darfresh® on Tray



30-40%

Less film usage with

Cryovac® Darfresh® on Tray

30-40% 0% film scrap

Cryovac® Darfresh® on Tray



Faster than pre-made tray skin packaging technologies







Zero waste New Cryovac[®] Darfresh[®] top webs



These new generation of material are aligned with the 3 **Guiding Principles of Sealed Air for Creating Customer Value:**

COST COMPETITIVENESS

- Move to mono PP/PET
- Downgauged trays
- Zero scrap of Darfresh on Tray:
 - Vs. tray skin: higher m/c speed
 - Vs. MAP: no pad, no gas, lower waste

SUSTAINABILITY

- Food Waste reduction
- Fresher for longer
- Zero scrap
- Mono PP/PET trays
- Thin Top webs

PERFORMANCE

- Brand building/pack look
- Merchandizing/ Display/ Communication
- Leak proof / Safe seal
- Ultra high barrier
- EZO
- High Forming/Abuse Top



Zero waste New Cryovac[®] Darfresh[®] top webs



NEW BEST IN CLASS TOP SKIN OFFER FOR MULTI SEALANT

- Excellent seal
- Outstanding transparency before and after the opening









Zero waste New Cryovac[®] Darfresh[®] top webs



TOP WEBS FOR: Mono PP trays

TOP WEBS FOR: Mono PET trays

Low seal top web For PP/PE – PET/PE trays









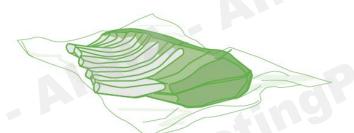
Zero waste Cryovac[®] Optidure[™] Bags



Thermoforming or PA/PE pouches

Cryovac® OptidureTM
Pet bags

No excess plastic Attractive glossy appeal













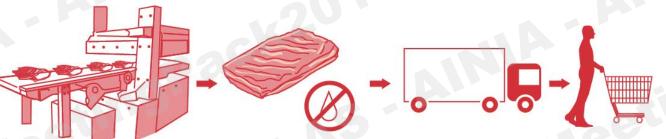
Zero waste Cryovac[®] Optidure[™] Bags

It is estimated that a 1% reduction in leak rates could eliminate \$140 million in food waste globally

Perforation leaker reduced by

3%

vs Market standard





- Reduce global warming potential and cumulative energy demand by 30% vs standard vacuum bags
- 25% less of plastic material vs. standard bag (Pet based)
- Transparency and shrink
- Excellent sealing properties without bags sticking when overlapped





Zero waste Cryovac[®] Optidure[™] Bags











Make sure your products stand out with an attractive glossy finish after shrinking process



Convenience



"more than 40% of the US population purchases prepared meals from grocery stores.

Source: Forbes: Why 'Grocerants' Are The Future Of Food Shopping





Since 2008, in-store dining and prepared foods have grown nearly 30 % in groceries — accounting for 2.4 billion foodservice visits and \$10 billion in consumer spending in 2015.

Source: AECOC "Hábitos de aprovechamiento de los alimentos 2017





Convenience



Cryovac® convenience range

Functional packaging allow us to develop new categories, with traditional fresh food products, that meet new consumer habits

- Easy opening (EZO)
- Peelable
- Reclosable
- Pasteurizable
- Microwaveable
- Ovenable (from the freezer to the oven)
- Superb optics & pack appearance (AF & transparency)





Convenience Cryovac[®] EOR311 reclosable



- Stronger and stable reclose-ability with no decay during 6-7 reclosing operations
- Prevents dehydration
- No glue odor





Convenience Cryovac[®] Sealappeal[®] OSF



- Suitable for THS & FFS applications
- Cpet or Alu trays
- Printable
- Peelable in one piece
- Pasteurizable, MWable, Ovenable
- Antifog version
- Low sealing temperature version











Convenience Cryovac[®] Oven Ease[®]

- For THF applications
- Cooking or regeneration
- -25°C up to 220°C
- Constant quality
- Reduce cooking time







Convenience Cryovac[®] Simple Steps[®]



- Skin system for ready meals
- Pasteurizable, MWable, HPP
- Easy opening (EZO feature)
- Vertical display
- Freshness for longer
- Consumer health expectations continue to rise
- Self venting









Convenience Cryovac[®] Simple Steps[®]







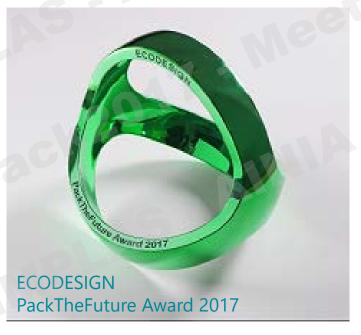


Convenience Cryovac[®] Sealappeal[®] PSF



- For THS & THF applications
- Pet based
- For Apet trays
- Peelable in 1 piece (no sharding)
- Optics (AF & transparency)
- Low sealing temperature (tray thickness reduction, less energy)
- Hermeticity
- F&V, fresh proteins









Convenience Cryovac[®] Sealappeal[®] PSF

Peel in 1 piece!







Convenience: Clarity



"38% of consumers said

they would be motivated to choose one food product over another if the packaging allowed them to view the contents"

Source: http://www.cstoredecisions.com Marilyn Odesser-Torpey, Clearly Delicious

"To today's consumers, transparency equals trust"









Convenience Cryovac[®] Sealappeal[®] PSF









Convenience Cryovac® LID39ZAP



- For THS ready meals applications
- PP sealant
- Shrinkable
- Perfect peelability
- Optics (AF & transparency)
- Pasteurizable & MWable
- Thinner than ever







... to sum up...



Our new developments are aligned with the new trends shaping the future of packaging, allowing for food processors to meet their goals and consumers satisfy their demands.







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