

4 December 2024





#### **OUR SPEAKERS**



Elsabe Matthee Technical Director FSSC



Kelly Mulholland Technical Manager Safety & <u>Quality</u>

FSSC



Nerida Kelton

Vice President Sustainability & Save Food World Packaging Organisation

#### **PRESENTER: COLIN MORGAN**

MARKET DEVELOPMENT DIRECTOR FSSC



## **TODAY'S TOPICS**

- **01.** Importance of Packaging in Food Safety
- **02.** FSSC 22000 Packaging Scope
- **03.** Packaging and Food Loss and Waste
- **04.** Q&A

## PRACTICALITIES

- You are all muted
- Please use the Q&A functionality for questions
- This webinar will be recorded
- Recording and presentations will be shared via e-mail



## **ABOUT FOUNDATION FSSC**

- ✓ Foundation FSSC is the independent non-profit owner of the FSSC 22000 & FSSC 24000 Schemes, delivering trust and impact beyond certification.
- We support the consumer goods industry in protecting its brands and achieving its targets through the implementation of an effective ISO-based management system.
- We are a lean and collaborative Foundation with the goal of helping organizations contribute to the global SDGs and thus create a better world.



## **FSSC BRAND IDENTITY MODEL**





#### IMPORTANCE OF PACKAGING FOR FOOD SAFETY

## THE IMPORTANCE OF PACKAGING

- We recognize packaging as an essential component of the food supply chain's integrity and safety
- Through our Global Certification Program FSSC 22000 including its scope for Food Packaging Manufacturing, we integrate international standards:
  - o ISO 22000
  - ISO/TS 22002-4 sector-specific Pre-Requisite Programs (PRPs) for food & feed packaging, and
  - Additional FSSC 22000 certification requirements.
- This holistic approach enables organizations to effectively control food safety hazards, minimize risks, and ensure the production of safe packaging and packaging materials worldwide.



### THE IMPORTANCE OF PACKAGING

"As consumers, we often focus on the contents of a bottle or container but overlook the importance of the packaging itself. From a food safety perspective, it is crucial to recognize that we purchase both the packaging and its contents – together, they form the product we buy."

- Aldin Hilbrands, CEO of Foundation FSSC

"



#### FSSC & WPO AFFILIATE MEMBERSHIP





The World Packaging Organisation is a non-profit federation of national packaging institutes and associations, national packaging professional bodies, regional packaging federations, and other interested parties, including trade associations.

#### The purpose of the WPO includes:

Encouraging the development of packaging technology, science, sustainability and innovation.



Contributing to the development of international trade.



Stimulating education and training in packaging.



Connecting the global packaging community.



## **WPO AND FSSC**

## The affiliation with WPO in 2023 underscores Foundation FSSC's dedication to:

- Uphold the integrity and safety standards of packaging materials on a global scale.
- Drive innovation and elevate food safety practices across the packaging industry.
- Increase impact through capacity building and education through technical alignment/collaboration.
- > Work together on sustainability issues.



## **SUSTAINABILITY**

• FSSC became a member of the UN Global Compact in October 2021



- With **FSSC 22000**, Foundation FSSC actively contributes to SDG 12.3 reducing food loss and waste.
- FLW included in FSSC 22000 V6 as a requirement.



#### **SUSTAINABILITY & WPO**

Through collaboration with WPO and its members, we aim to explore innovative solutions to:

- Reduce food loss and waste from a packaging design perspective, thereby intending to advance sustainability practices in the packaging industry.
- Further deliver a positive impact to the Consumer Goods Industry.



#### PACKAGING SCOPE AS PART OF FSSC 22000

## **FOOD SUPPLY CHAIN SECTORS**



#### PACKAGING MATERIALS COVERED

- □ Flexible and rigid plastics, such as foils, blisters, crates, and sachets;
- Paper, such as cartons, boxes, and sacks;
- Metal, such as cans, bottles, and boxes;
- Glass, such as jars and bottles;
- Shipping and transport containers, such as big bags, drums, and tanks;
- □ Other packaging materials.



## **BENEFITS**

- ✓ International certification Scheme
- ✓ Recognized by GFSI
- ✓ Approved by IAF
- Assists in meeting legislative requirements
- Integration with other ISO management systems possible
- ✓ Robust integrity program
- Includes requirements relating to quality



## **STRUCTURE OF FSSC 22000**



## ISO 22000:2018

4. Context of the organization

5. Leadership

6. Planning

7. Support

8. Operation

9. Performance evaluation

10. Improvement



#### ISO/TS 22002-4:2013

- 4.1 Establishment
- 4.2 Layout and workspace
- 4.3 Utilities
- 4.4 Waste disposal
- 4.5 Equipment suitability, cleaning and maintenance
- 4.6 Management of purchased materials and services
- 4.7 Measures for prevention of contamination
- 4.8 Cleaning
- 4.9 Pest control
- 4.10 Personnel hygiene and facilities
- 4.11 Rework
- 4.12 Withdrawal procedures
- 4.13 Storage and transport
- 4.14 Food packaging information and customer communication
- 4.15 Food defense and bioterrorism



#### **ADDITIONAL REQUIREMENTS**

1) Management of services and purchased materials (All Food Chain Categories)

- 2) Product labelling and printed materials (All Food Chain Categories)
- 3) Food defense (All Food Chain Categories)
- 4) Food fraud mitigation (All Food Chain Categories)
- 5) Logo use (All Food Chain Categories)
- 6) Management of allergens (All Food Chain Categories)
- 7) Environmental monitoring (Food chain categories BIII, C, I & K)
- 8) Food safety and quality culture (All Food Chain Categories)
- 9) Quality control (All Food Chain Categories)
- 10) Transport, storage and warehousing (All Food Chain Categories)
- 11) Hazard Control and Measures for Preventing Cross-Contamination (All Food Chain Categories, Excl. FII)
- 12) PRP Verification (Food chain categories BIII, C, D, G, I & K)
- 13) Product Design and Development (Food chain categories BIII, C, D, E, F, I & K)
- 14) Health Status (Food chain category D)
- 15) Equipment Management (All Food Chain Categories, Excl. FII)
- 16) Food Loss and Waste (All Food Chain Categories, Excl. I)
- 17) Communication Requirements (All Food Chain Categories)
- 18) Requirements for Organization with Multi-site certification (Food chain categories E, F & G)

#### 2.5.1 MANAGEMENT OF SERVICES AND PURCHASED MATERIALS

 For food chain category I, in addition to clause 7.1.6 of ISO 22000:2018, the organization shall establish criteria related to the use of recycled packaging as a raw material input into the production of finished packaging material and ensure that relevant legal and customer requirements are being met.



#### 2.5.2 PRODUCT LABELING AND PRINTED MATERIALS

Artwork management & print control procedures

- Approval of:
  - > artwork standard or master sample;
  - each print run against the agreed standard or master sample;
- Process to:
  - manage changes to artwork and print specifications, and to manage obsolete artwork and printing materials;
  - detect and identify printing errors during the run;
  - ensure effective segregation of differing print variants; and
  - > account for any unused printed product.



## **2.5.9 QUALITY CONTROL**



Quality Policy and Objectives Quality Parameters Quality Control Procedures Calibration & Verification Line start-up and change-over procedures



#### EXAMPLES OF QUALITY PARAMETERS FOR PACKAGING

Product group	Possible quality parameters
Plastics	MFI, Thickness, COF, tensile strength, shrinkage, color, etc.
Glass	Dimensions, weight, height, color, visual inspections, etc.
Metal	Dimensions, top wall, body dents, visual inspections, etc.
Paper and board	GSM, compression, dimensions, starch solids, visual inspections, etc.



#### 2.5.11 HAZARD CONTROL AND MEASURES FOR PREVENTING CROSS-CONTAMINATION

 For food chain categories BIII, C and I, the following additional requirement applies to ISO 22000:2018 clause 8.5.1.3: The organization shall have specific requirements in place where packaging is used to impart or provide a functional effect on food (e.g., shelf-life extension).





WORLD PACKAGING ORGANISATION

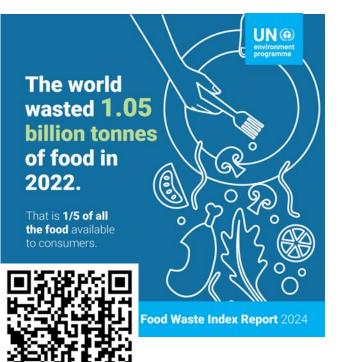




# **Save Food Packaging**

## The true role that packaging can play in minimising Food Loss & Waste across a value chain





Close to 800 Million people suffer from food insecurity, are malnourished or starving.

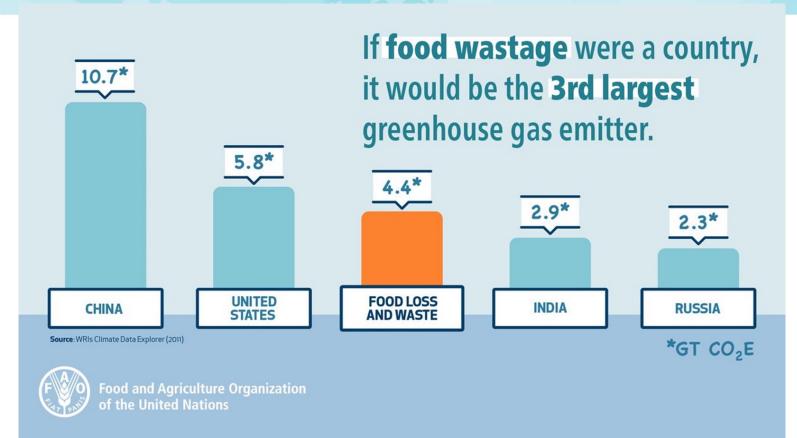
1.05 billion tonnes of food went to waste.

On average, each person wastes 79 kilograms of food annually.

This is the equivalent of 1.3 meals every day for everyone in the world impacted by hunger.

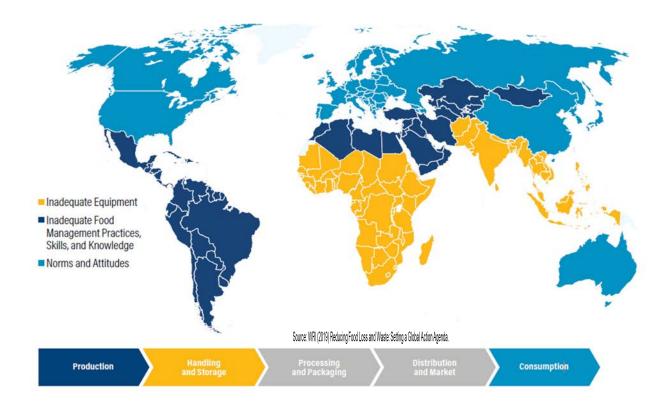
https://www.unep.org/resources/publication/food-waste-index-report-2024







#### Food loss and waste causes differ by region





#### **REDUCING FOOD WASTE SUPPORTS THE UN SDGs**



"By 2030, halve per capita global food waste at the retail and consumer levels and reduce food losses along production and supply chains, including postharvest losses"

SDG 15 Life on Land: Reducing food loss and waste reduces the need to convert more natural ecosystems into cropland or grazing pastures.

SDG 14 Life under Water: Reducing food losses at sea means reducing bycatch. Wasted food uses significant amounts of fertilizers, which contribute to eutrophication caused by agricultural run-off.

SDG 13 Climate Action: Reducing food loss and waste reduces the amount of greenhouse gas emissions associated with clearing land, growing, processing, and disposing of food that is not eaten.

> SDG 12 Sustainable Consumption and Production: Meeting the food loss and waste reduction target would improve the sustainability of food consumption and production.



#### SDG 1 No Poverty / SDG 2 Zero Hunger:

Reducing losses means that farmers have more food available for market and to feed themselves.



SDG 2 Zero Hunger: Improved storage and handling facilities help smooth seasonal shortfalls and preserve nutritional quality, thereby stabilizing food supplies.

> SDG 3 Good Health: Reducing quality losses means that food retains more nutritional value. Some food loss reduction practices, such as drying crops on tarps, can reduce the risk of contamination from aflatoxins.

SDG 3 Good Health/SDG 4 Quality Education/ SDG 5 Gender Equality: Reducing food waste could reduce unnecessary household spending on food and free up money for health, education, and other household benefits.

SDG 6 Clean Water and Sanitation: Better utilizing food already grown reduces pressure on freshwater consumption by agriculture and increases efficiency of water use.

#### SDG 8 Decent Work and Economic Growth:

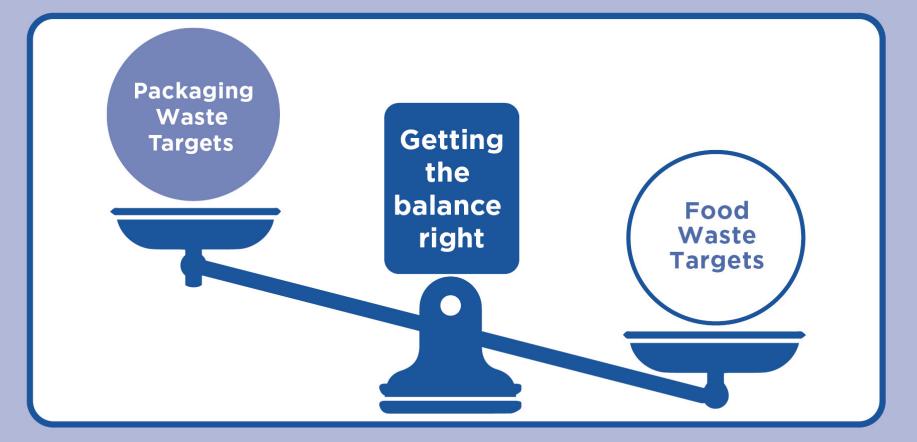
Farmer income and prosperity can be increased when they reduce on-farm losses and thereby sell more food.

SDG 11 Sustainable Cities and Communities: Reducing food waste in landfills can reduce landfill disposal fees for households and local authorities. It also can enable cities to meet waste, sustainability, and hunger goals.





#### Getting the Balance Right

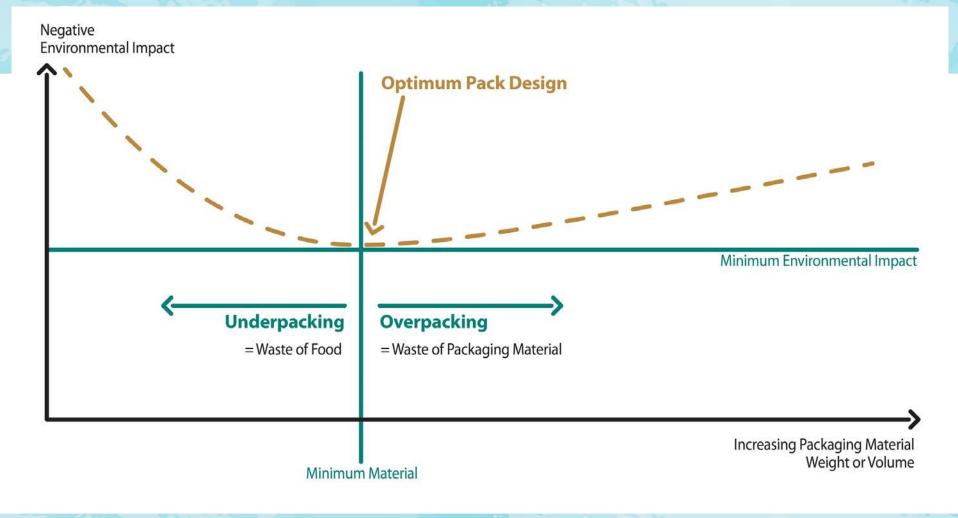




## **True role of packaging**

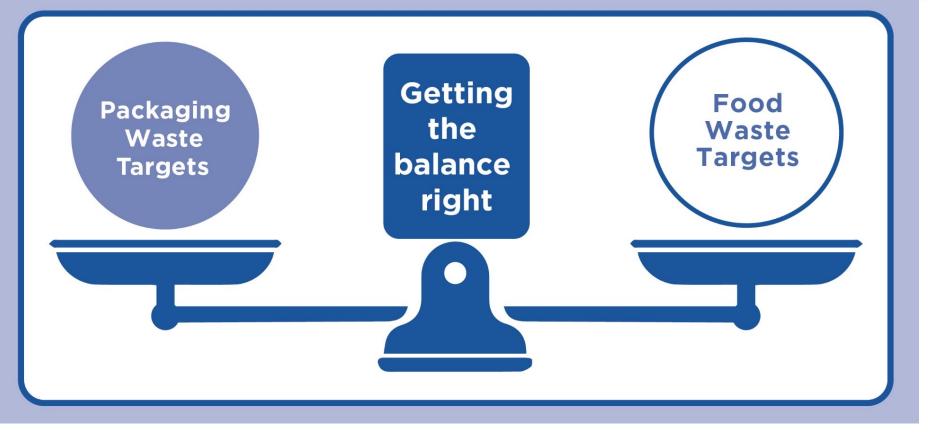


- Packaging is designed to ensure that a product is contained, preserved and protected all the way across the Supply Chain until it is purchased by the consumer.
- Packaging must also ensure the health & safety of the product and consumers, that product waste is kept to a minimum, the efficiency of the packaging can withstand the rigors of transport and the pack is designed with the lowest environmental impact.





# **Putting all Waste on Equal Footing**





3 2 Optimise **Design to** Eliminate **Design for** Use recycled recovery material reduce product hazardous materials efficiency materials waste g 10 8 3 Use of Design to **Design for** Provide consumer **Design for** renewable minimise litter information on transport accessibility materials efficiency sustainability

# Where does food waste sit within Sustainable Packaging Design?



# **Sustainable Packaging Design Principles**





Save Food Packaging is designed to minimise or prevent food waste from paddock to plate using innovative and intuitive design features that can contain & protect, preserve, extend shelf life, easily openable and resealable, provide consumer convenience and portion control; all the while meeting global sustainable packaging targets.

Source: WPO Member - AIP Save Food Packaging Guidelines





# **Save Food Packaging Design**



#### SAVE FOOD PACKAGING DESIGN 3 **DESIGN TO** DESIGN TO DESIGN TO **DESIGN TO DESIGN TO** CONTAIN PRESERVE PROVIDE COMMUNICATE BALANCE & PROTECT & EXTEND CONSUMER TO CONSUMERS FOOD & THE PRODUCT SHELF LIFE CONVENIENCE PACKAGING & PROMOTE HOW TO WASTE TARGETS FROM SPOILAGE & TO NOT WASTE FOOD DAMAGE THROUGH PRODUCT APPEAL FOR OPTIMAL PACKAGING MANUFACTURING. WAREHOUSING & VARIOUS STAGES OF DISTRIBUTION SECTION SUMMARY SECTION SUMMARY SECTION SUMMARY SECTION SUMMARY SECTION SUMMARY **O CASE STUDIES** CASE STUDIES CASE STUDIES O CASE STUDIES CASE STUDIES ICONOGRAPHY ICONOGRAPHY ICONOGRAPHY ICONOGRAPHY ICONOGRAPHY SAVE FOOD PACKAGING CRITERIA



# **Save Food Packaging Design Guidelines**

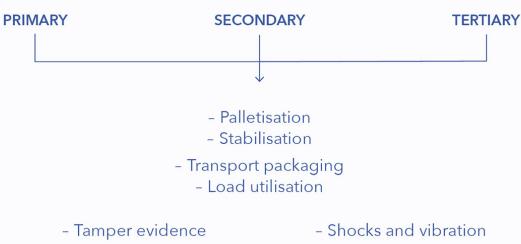


# **DESIGN TO CONTAIN & PROTECT THE PRODUCT** FROM SPOILAGE & DAMAGE THROUGH MANUFACTURING, WAREHOUSING & VARIOUS STAGES OF DISTRIBUTION



# DESIGN TO CONTAIN & PROTECT





- Leak proof & containment

- Protection from human contamination

- Temperature & moisture

- Protection from chemical contamination





# **Save Food Packaging Design Guidelines**





# **DESIGN TO PRESERVE & EXTEND SHELF LIFE** & ENHANCE PRODUCT APPEAL



### DESIGN TO PRESERVE & EXTEND SHELF LIFE



#### MANAGE PRODUCT ENVIRONMENT IN PACK

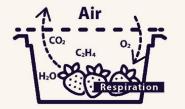
- Appropriate Barrier Performance
- Oxygen & Moisture Barrier Needs
  - Respiration Rates
  - Retain Nutrition

#### **EXTENSION & BARRIER PROTECTION**

- Skin & Vacuum PackagingMAP & EMAP Packaging
  - UV Barrier

#### **ACTIVE & INTELLIGENT PACKAGING**

- Traceability & Consumer Engagement Software
  - Sensory Labels & Indicators
  - RFID & NFC Tags (QR/2D)
  - Time Temperature Indicators (TTI's)
    - IoT Devices (Internet of Things)
      - Scavengers & Absorbers











3

# **Save Food Packaging Design Guidelines**

DESIGN TO PROVIDE CONSUMER CONVENIENCE & TO NOT WASTE FOOD DURING HANDLING IN THE HOUSEHOLD



# **3** DESIGN TO PROVIDE CONSUMER CONVENIENCE • RMIT



#### ACCESSIBLE & INCLUSIVE PACKAGING

- Easy Open
- Reclose & Reseal
- Easy Tear & Grip
- Change of Household Portions
  - Reduce Pack Sizes
- Controlled Dispensing
- Ability to Remove Entire Product from pack

#### FUNCTIONAL PACKAGING FOR CONSUMER CONVENIENCE

- Microwaveable
- Added-Value Cooking
  - Part Preparation





6	
	-





# **Save Food Packaging Design Guidelines**

DESIGN TO COMMUNICATE TO CONSUMERS & PROMOTE HOW TO HANDLE, STORE, PREPARE & REUSE FOOD PRODUCTS



**DESIGN TO COMMUNICATE TO CONSUMERS** 



#### **ON-PACK DATE LABELLING**

- Best Before Dates
  - Use By Dates

#### CONSUMER COMMUNICATION

- On-Pack & Off-Pack
- Storage Environment: Refrigerator/ Freezer / Pantry
  - Left-over Ideas & Recipes
    - QR Codes & NFC Tags
      - Food Preparation





BEST BEFORE DATES





# **Save Food Packaging Design Guidelines**

**5** 

# DESIGN TO BALANCE FOOD & PACKAGING WASTE TARGETS FOR OPTIMAL PACKAGING









# Global Best Practice Award-winning Save Food Packaging Design







#### 2024 WORLDSTAR PACKAGING THAT SAVES FOOD SPECIAL AWARD GOLD WINNER

- AgroLife treatment is applied to paper-based agricultural packaging
- Ideal for corrugated boxes, lids, punnets or trays
- ✓ AgroLife treatment is 100% food contact friendly
- ✓ Does not affect recyclability



- ✓ Extends shelf life of fresh produce
- ✓ Reduces the losses caused by excess maturation
- AgroLife acts via the absorption of ethylene, which delays the ripening process
- Improves flavour by collecting at optimal point of maturity

REGIONAL AWARDS PROGRAM





Company: Smurfit Kappa Product: AgroLife®

Country: Spain













1

WARDS

#### 2023 WORLDSTAR PACKAGING THAT SAVES FOOD SPECIAL AWARD SILVER WINNER





- Design for Product Waste
- Design for Accessibility
- Design for Transport Efficiency
- Ideal for food loss & waste
- Tracking via cold chain
- Colour determines when temperature rises above set parameters



- Thermochromic dye technology
- Changes colour as environment changes
- Optical system dynamically changes appearance at preselected temperatures
- Allows for colour changes black to orange to red as pack gets warmer
- ✓ Extends Shelf Life



THERMOSHIELD TEMPERATURE MONITORING SYSTEM - FOOD

ThermoShield Temperature Monitoring System - Food

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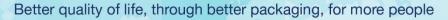
SPICIAL AWAR

# REGIONAL AWARDS PROCRAM COORDINATED BY COORDINATED BY WORLD PACKAGING ORGANISATION COMPANY: Caps & Closures Product: ThermoShield Temp Monitoring System -

 
 Product:
 ThermoShield Temperature Monitoring System - Food

 Country:
 Australia/New Zealand







#### JUNEE LAMB



JUNEE LAMB				
	2021 SAVE FOOD OF THE YEAR - AG Silver Winner Winner	PACKAGING DESIGN	1	
	uamb & Seal	ed Air		
Aff. compliant an through RE 02 High comp 111 properties	frecyclatie kyche en barrier		haga Boned days r and abrasion	inerciane be purposed of the p
Constant a protect	Save F	ood Packaging	Consumer	Estimate environmental impacts
A-MOXZ	Sealed,	Cour	pany: Junee Prin stry: Australia	ne Lamb & Sealed Air
of premium quality Au they now specialise ex Sealed Air partners wi derived from its unmat wasteful global food s the worldwide movem	stralian lamb. From clusively in prime Au th its customers to s ched industry knowl upply chain and enh	humble beginnings pr stralian lamb and supp ofce their most pressin ofter and expertise. The	ocessing lamb, beef an ly to many parts of the gresource challenges to ne solutions create an	ne of the leading producers, do perk for local curstemers, work. Ty defineting new solutions to a statistical sector and less leading solutions to protect

http://aipack.com.au/ save-food-packagingdesign-case-studies/

Better quality of life, through better packaging, for more people

**RMIT** 

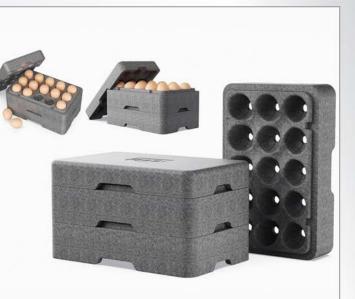
AIP





#### 2020 WORLDSTAR PACKAGING THAT SAVES FOOD SILVER WINNER

- ✓ Recyclable egg-box
- EPP environmental protection materials
- Ideal for e-commerce transportation & community distribution
- Modular design flexible and adaptable
- ✓ 50% reduction in egg-damage



- ✓ Shelf life extended by 50%
- Packaging efficiencies increased by 20%
- No need to throw the Egg-Box away after use
- Reusable lead to 'Shared egg-boxes' in future











#### 2019 WORLDSTAR PACKAGING THAT SAVES FOOD SILVER WINNER

- ✓ 100% recyclable (EPS)
- ✓ High thermal insulation
- ✓ Improved product preservation
- ✓ Shelf-life of fruits exceeds 45 days in cold chambers and 20% on gondolas
- ✓ Fruit weight and water loss are reduced by 50%
- ✓ Reduces loss and waste in the Supply Chain



- ✓ Extend shelf-life
- ✓ Ideal from harvest to consumer
- Suitable for transporting (shock absorption)
- Consumer Convenience displaying product directly at retail
- Certified by European laboratories



WPO MEMBER



**REGIONAL AWARDS PROGRAM** 



Country: Brazil

**Company:** 



Better quality of life, through better packaging, for more people

Termotécnica





#### 2019 WORLDSTAR PACKAGING THAT SAVES FOOD BRONZE WINNER

- Ideal for delivery during summer
- ✓ Innovative Active Packaging
- Pack retains oxygen absorbed by Albis plastic Shelf plus masterbatch
- ✓ Prevents bad odours
- Retains freshness of product



- Easy-to-tear notch and zipper
- Vacuum pack removes 95% of air inside pack
- Polyamide/PE recyclable pouch is environmentally friendly
- ✓ Enhances shelf life
- ✓ Minimises toxic microbial growth





Company:	JF Packaging(Pvt) Ltd	
Product:	Active Packaging System for the Packing of Prawns	
Country:	Sri Lanka	





### Kenya - Hermetically Sealed Bags for Maize



# Save Grain. Save Life

# **Post Harvest Storage Solutions**

Hermetic bags that allow you to store produce longer without any food waste

- The bags protect against any food loss from insects, pests or infestation.
- Preserves original moisture content of the food.
- Minimum oxidation.
- Preserves aroma.
- Aerobic atmosphere no quantity loss.
- Weather resistant.
- Improves storage of food.





#### Breatheway Temperature Switch Technology® membrane

- Mini cucumbers have high respiration rates and short shelf-life
- Breatheway Modified Atmosphere Packaging (MAP)
- Engineered to regulate respiration rates, regulating 02 and C02 levels
- Actively 'exhales' excess CO2





- Inhales the amount of O2 required to keep the produce fresh
- Provide beneficial atmosphere levels to protect and maintain quality
- Protects from damaging CO2 spikes that can occur during transit
- Ideal for Cold Chain environments











### SAVE FOOD PACKAGING DESIGN CRITERIA RESOURCE BOOKLET



**RMIT** 

AIP

# **Available Resources**



# SAVE FOOD PACKAGING DESIGN







#### SAVE FOOD PACKAGING DESIGN 3 **DESIGN TO DESIGN TO** DESIGN TO **DESIGN TO DESIGN TO** CONTAIN PRESERVE PROVIDE COMMUNICATE BALANCE & PROTECT & EXTEND CONSUMER TO CONSUMERS FOOD & THE PRODUCT SHELF LIFE CONVENIENCE PACKAGING & PROMOTE HOW TO WASTE TARGETS FROM SPOILAGE & TO NOT WASTE FOOD DAMAGE THROUGH PRODUCT APPEAL FOR OPTIMAL PACKAGING MANUFACTURING. WAREHOUSING & VARIOUS STAGES OF DISTRIBUTION SECTION SUMMARY SECTION SUMMARY SECTION SUMMARY SECTION SUMMARY SECTION SUMMARY **O CASE STUDIES** CASE STUDIES CASE STUDIES O CASE STUDIES CASE STUDIES ICONOGRAPHY ICONOGRAPHY ICONOGRAPHY ICONOGRAPHY ICONOGRAPHY SAVE FOOD PACKAGING CRITERIA



# **Save Food Case Studies**

#### SAVE FOOD PACKAGING WORLDSTAR AWARD WINNING INNOVATIONS





The SAVE FOOD Initiative is promoting a more responsible use of resources along the entire food supply chain and actively contributing to the reduction of food loss and waste.

That's why Save Food Org are actively seeking smart agricultural practices and logistics solutions, innovative processing and packaging ideas, as well as initiatives to raise awareness among private households and encourage political engagement in this field.

Do you have a project that make a significant impact in reducing food loss and waste? The winning project will be awarded a grant of 10,000 Euros.



### 2023 Inaugural winner of the SAVE FOOD PROJECT COMPETITION

SAVE FOOD PROJECT COMPETITION WINNER -SIG Foundation: *Cartons for Good* 

pacprocess

**PROCESSING & PACKAGING** 











# International Day of Awareness of Food Loss and Waste (29 September)



29 September International Day of Awareness of Food Loss and Waste

STOP FOOD LOSS AND WASTE. FOR THE PEOPLE. FOR THE PLANET.



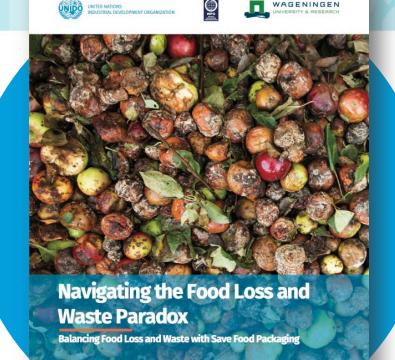
**#FLWDay** 



### Food Loss & Waste Paradox: Balancing Food Loss & Waste with Save Food Packaging

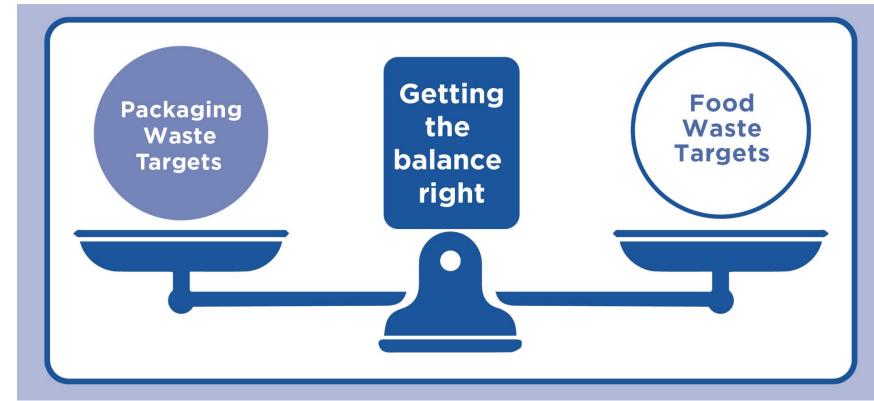
### **NEW Position Paper**

- Co-authoring a Position Paper on the topic 'Navigating the Food Loss and Waste Paradox: Balancing Food Loss and Waste with Save Food Packaging' with WPO and Wageningen University and Research.
- Highlighting the role packaging has in reducing food loss and waste and showcasing regional challenges, outlining practical save food packaging design guidelines and showcasing global solutions (Chile, Sri Lanka, Kenya, Australia, China, Brazil).





# **Putting all Waste on Equal Footing**







ORGANISATION

### Nerida Kelton FAIP

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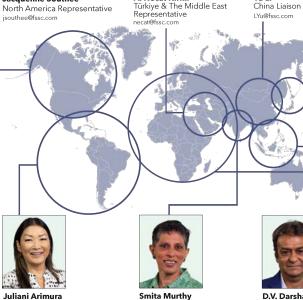
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# THANK YOU



