Melodea
RECYCLABLE PACKAGING SOLUTIONS

COMPANY PRESENTATION 2026

SUPERIOR PACKAGING BY DESIGN. SUSTAINABLE BY NATURE.

MONO-MATERIAL. 100% RECYCLABLE.



REDEFINE RECYCLABLE PACKAGING.

ONE TECHNOLOGY.
TWO WAYS TO MOVE RECYCLABLE PACKAGING FORWARD.



READY-TO-FILL SOLUTIONS

READY-TO-FILL MONO-MATERIAL PACKAGING, IN 30 DAYS. MADE BY OUR IN-HOUSE CONVERTER.



BARRIER SOLUTIONS

WATER-BASED BARRIER COATINGS. NO CAPEX. PAPER AND FILM, ON YOUR EXISTING LINES.

Built for PPWR (EU) and SB 54 (California).

CONVERTERS

RECYCLABLE. WITHOUT REBUILDING.



100% RECYCLABLE

MONO-MATERIAL, IN PAPER OR FILM

FILM
ULTRA-HIGH OXYGEN BARRIER

- Oxygen barrier (OTR)
- Runs on existing coating lines
- 100% recyclable mono-material
- Print and lamination ready



PAPER
HIGH BARIER

- Moisture, oxygen, grease, aroma
- Common packaging formats
- Water-based, 100% recyclable and repulpable
- Switch from plastic to paper

PRODUCTS

2 WATER-BASED BARRIER SOLUTIONS



MELOX NGEN™

ULTRA-HIGH OXYGEN BARRIER

· Replaces multi-layer laminates, AlOx, SiOx
· Paper and film · 20% solid



VBSEAL™

HIGH WATER VAPOR BARRIER

· Heat-sealable · water vapor, oil, grease, aroma
· Paper · 40% solids

RECYCLABLE RETORT LID

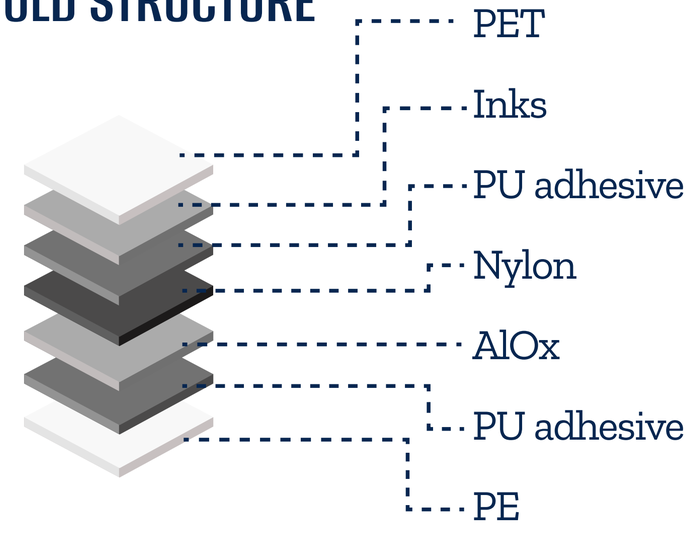
FULL RETORT PERFORMANCE



CHALLENGE

CHALLENGE: NON-RECYCLABLE RETORT LID WITH HIGH BARRIER NEEDS.

OLD STRUCTURE



MELODEA'S RECYCLABLE SOLUTION



- OTR <1 · WVTR <1 (cc/m²·day)
- Retortable
- 100% recyclable mono-material
- Longer shelf life
- Easy peel

FLOUR POUCH, NITROGEN FLUSH

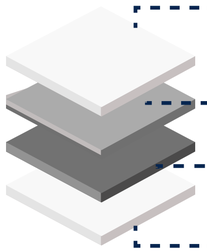
MONO-MATERIAL, PEST-FREE POUCH



CHALLENGE

A MONO-MATERIAL, HIGH-BARRIER, PEST-FREE POUCH.

OLD STRUCTURE



- PET
- Inks (reverse side of PET)
- PU adhesive
- PE

MELODEA'S RECYCLABLE SOLUTION



- Matte BOPP
- MelOx-NGen™ 2 g dry
- PU inks
- Solventless adhesive
- BOPP

- OTR <1 · WVTR <2 (cc/m²·day)
- 100% recyclable mono-material
- Longer shelf life

MOLDED FIBER TRAYS

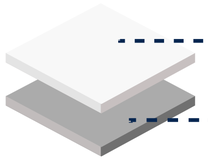
100% RECYCLABLE TRAY WITH MOISTURE BARRIER



CHALLENGE

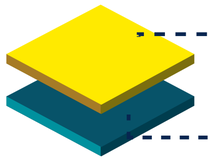
HIGH-PERFORMANCE TRAYS FOR WET FOOD.

OLD STRUCTURE



- PE lining
- Molded pulp

MELODEA'S RECYCLABLE SOLUTION



- VBseal™ spray-coated onto the tray
- Molded pulp

- Moisture and grease resistant
- KIT rating 12
- 100% recyclable and repulpable

MELOPACK

RECYCLABLE. WITHOUT COMPROMISE.

READY-TO-FILL. MONO-MATERIAL. IN-HOUSE CONVERTER.



MELOPACK

READY-TO-FILL MONO-MATERIAL PACKAGING, IN 30 DAYS.

In plastic: from €6/kg, 30 days to production, transparent.

PAPER OR PLASTIC. MADE BY OUR IN-HOUSE CONVERTER.

BUILT FOR PPWR & SB 54
100% RECYCLABLE

HIGH AND ULTRA-HIGH BARRIER

COMPLIANT FOR DIRECT FOOD CONTACT (FDA & BFR)

FLOUR



SPICES



BUTTER



SPREADS



TEAS



AND MORE



TEA

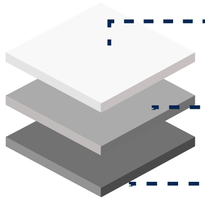
AROMA-SEALED PAPER SACHET



CHALLENGE

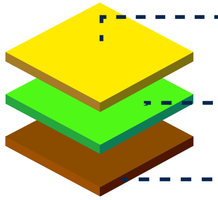
A PPWR-READY PAPER SACHET, WITHOUT AROMA LOSS.

OLD STRUCTURE



- Adhesive
- Metallized BOPP laminate
- Paper

MELODEA'S RECYCLABLE SOLUTION



- VBseal™ heat-sealable
- MelOx-NGen™
- Paper

- Aroma retention
- No oil contamination
- Stable at 85% RH
- 100% recyclable and repulpable
- Longer shelf life

BUTTER

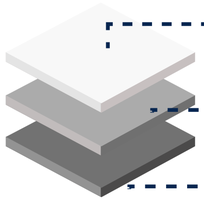
HIGH-BARRIER PAPER WRAP



CHALLENGE

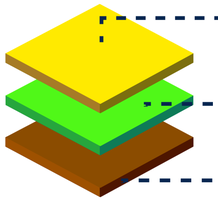
REPLACE FOIL WITH PAPER THAT PROTECTS AGAINST OXYGEN, MOISTURE AND GREASE.

OLD STRUCTURE



- Aluminum foil
- Adhesive
- Wax paper lamination wrap

MELODEA'S RECYCLABLE SOLUTION



- VBseal™
- MelOx-NGen™
- Paper

- Built for PPWR & SB 54
- High barrier
- 100% recyclable and repulpable
- PTS-validated with Cepi

VITAMIN BAR

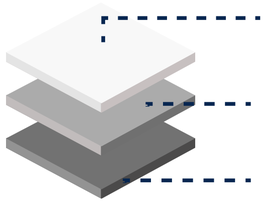
ULTRA-HIGH BARRIER MONO-MATERIAL FLOW-PACK



CHALLENGE

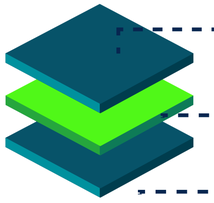
A PET-SUPPLEMENT MAKER NEEDED A MONO-MATERIAL, ULTRA-HIGH BARRIER PACK.

OLD STRUCTURE



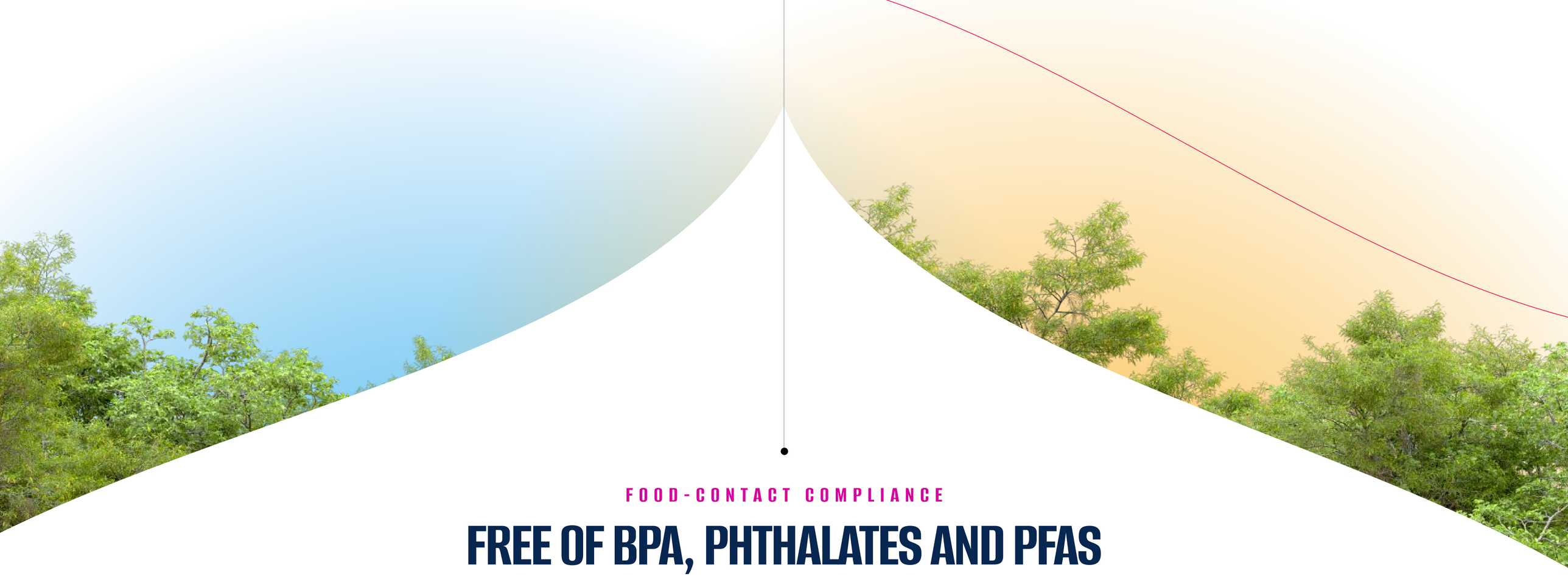
- PET
- Aluminum
- PE

MELODEA'S RECYCLABLE SOLUTION



- Metallized BOPP
- MelOx-NGen™
- CPP

- Built for PPWR & SB 54
- Ultra-high barrier
- 100% recyclable mono-material
- Competitive price
- Samples in 30 days



FOOD-CONTACT COMPLIANCE

FREE OF BPA, PHTHALATES AND PFAS

COMPLIANT FOR DIRECT FOOD CONTACT

BfR
Risiken erkennen – Gesundheit schützen

FDA

Cepi RENEWABLE RECYCLED RESPONSIBLE EUROPEAN PAPER

PTS

PAPER

360° SUPPORT

WITH YOU ALL THE WAY



R&D center for packaging optimization



Mocon OTR and WVTR testing



In-house converter, seamless move to production



Expert support through implementation

PRODUCTION

RUNS ON YOUR EXISTING LINES

GRAVURE AND FLEXO PRINTING

VARIOUS INK TYPES



LAMINATION WITH VARIOUS ADHESIVES



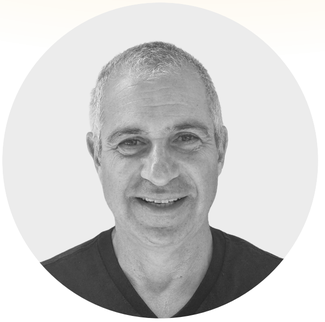
MAP, RETORT, STERILIZATION

MEET THE TEAM



DR. SHAUL LAPIDOT
CEO & CO-FOUNDER

Co-founder & CEO with more than ten years of research leadership and business in the field of biomaterials



ALON HAYKA
COMMERCIAL DIRECTOR

An entrepreneur, co-founded Galileo and DenX Advanced Medical Systems, leading it to a public and private offering while raising over $100M



DR. EINAV BARAK-KULBAK
R&D DIRECTOR

Extensive research leadership in the field of biomaterials production and product development



PROF. ODED SHOSEYOV
SCIENTIFIC ADVISOR & CO-FOUNDER

Prolific inventor, with 25 years of extensive experience with plant genetic engineering, protein engineering & nano-biotechnology



ALBERT DOUER
CHAIRMAN OF THE BOARD

Industrialist and entrepreneur in cleantech and plastics, with active investments in recycling technology startups

Melodea
RECYCLABLE PACKAGING SOLUTIONS

YOUR RECYCLABLE PACKAGING IS ONE STEP AWAY

REQUEST A SAMPLE

