# [ sustainability pledge ]

## ILIP's [3 Rs]

**R**educe

**R**ecycle

**R**enewable resources

Passion for packaging

Passion for packaging

# [We have closed the loop]

Our story begins in Emilia-Romagna, region of excellence and future prosperity, where we have our roots and where we have established our values and developed our craft since 1962. Since the very start, we have always pursued excellence in food packaging, developing solutions that protect, enhance and give value to the packed product, and ultimately improve the consumer experience.

To our work we devote all the commitment, the creativity and the passion typical of our region, Emilia-Romagna. As well as striving for excellence and reliability, we care for our local area, believe in innovation and collaboration, make responsible choices and are loyal to our partners, customers and suppliers.

Ilip is a key member company of the ILPA Group, a European leader in the field of plastic processing and recycling. Ilip is synonymous with quality and cutting-edge thermoformed plastic food packaging solutions characterised by high innovation and sustainability.

At Ilip we have an honest, substantive, holistic approach to sustainability and packaging, the very opposite of greenwash.

By taking good care of food with Fit4Purpose packaging, Ilip is taking care of future generations.

Our future vision is to ensure an accomplished transition to a circular economy for plastic packaging from the current linear format, which is based only on finite fossil resources.

In order to actively participate in shaping the future we desire, we must work on our present.

**We are among the very few European Groups that can ensure total control and a closed loop on PET recycling, including all the different production stages: from post-consumer material selection, to the washing, grinding, extrusion and thermoforming operations required to produce new food packaging made from r-PET.**

Our vertical integration enables total material traceability and as we are EFSA (European Food Safety Authority)-approved to produce food grade r-PET, we can increase the recyclate content of our packaging up to 100%. This is why we can safely state that we are a successful example of a circular economy and we are at the forefront of promoting the recycling culture in plastic food packaging.

For all these reasons, we participate in specific working groups of major European Organisations, aiming to further close the loop for tray2tray recycling.

We will achieve this goal with the help and support of the entire value and supply chain and thanks to the commitment of the whole ILPA Group and Ilip Teams.

**Riccardo Pianesani**
*CEO ILPA Group*

# We feel that *sustainability* begins with three Rs

## Reduce

plastic usage by reducing the thickness and weight of the packaging without undermining its performance.
Reduce food waste by extending the shelf-life of food products.

## Recycle

post-consumer plastic and convert it into new r-PET packing solutions, according to a circular economy approach. Thanks to our vertically integrated supply chain, we work in a true closed loop system.

## Renewable resources

such as bioplastics are a valid alternative to fossil polymers. For this reason, many products in our range are made from PLA and other bioplastics.

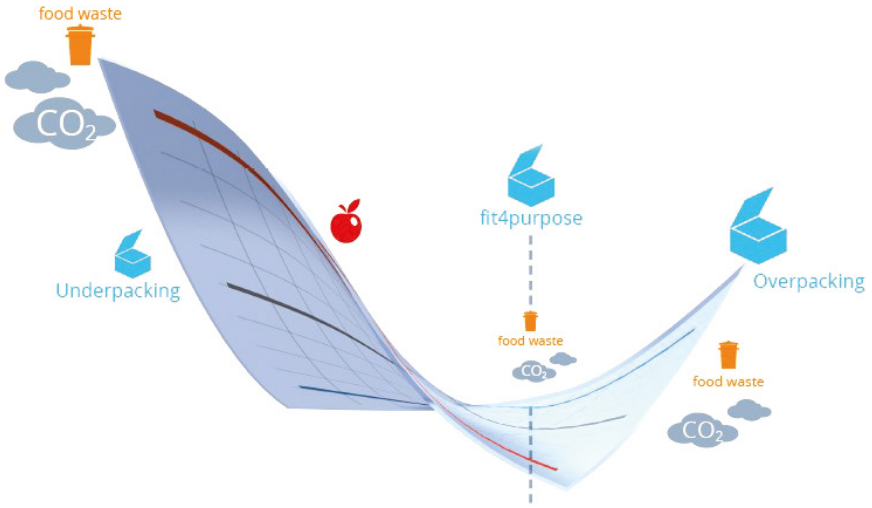
[ Serving & preserving freshness is what we do best ]

# Reduce

# [Reduce] #1

## fit4purpose packaging = main framework for sustainability

" ...packaging can only be assessed in relation to the product it contains and the function it serves. Such an assessment will show that in the context of sustainability, packaging should be considered as part of the solution and not part of the problem."
Efficient and effective packaging results in maximum food protection,
minimum food wastage and therefore minimum environmental impact.




- Underpackaging
- Overpackaging
- fit4purpose packaging

# [Reduce] #2

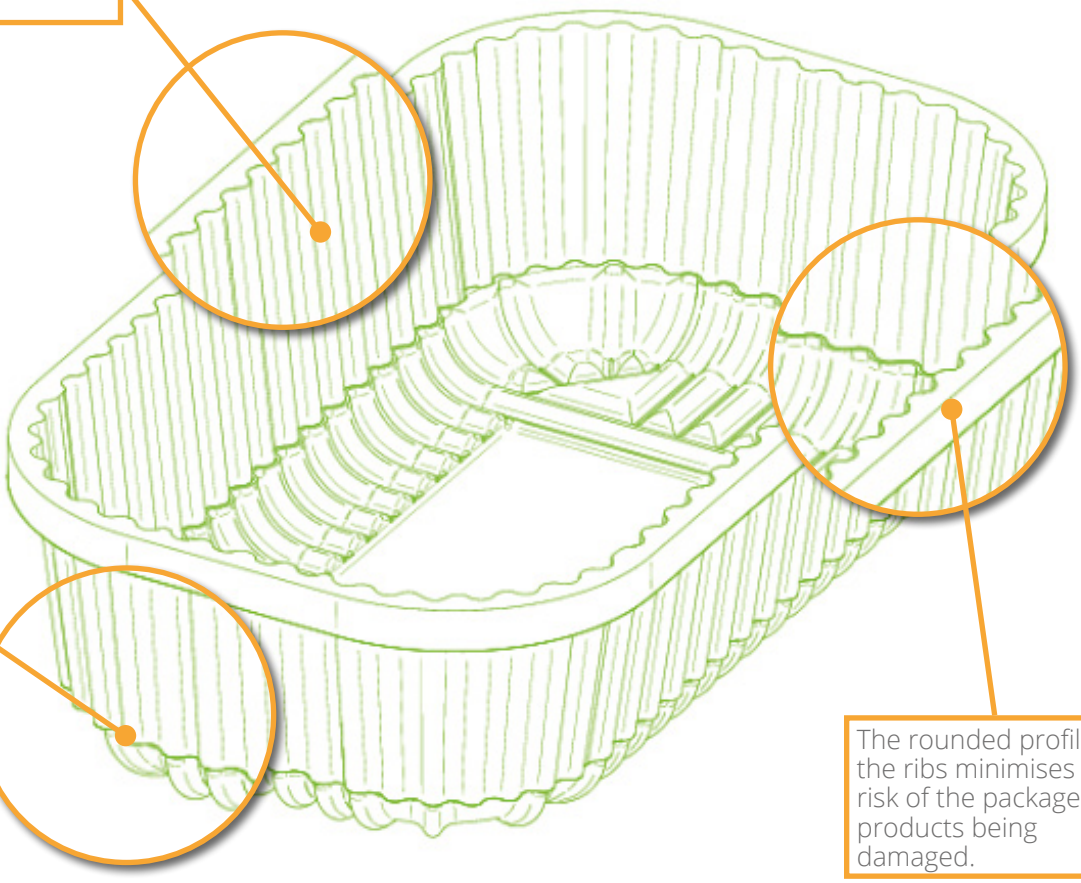
## product downgauging = $CO_2$ savings

Reducing packaging weight, without compromising its intended purpose, consumer safety, convenience or the hygiene and shelf life of the packaged foodstuff, is environmentally and economically sustainable.

## Eco-design case history: B19NR

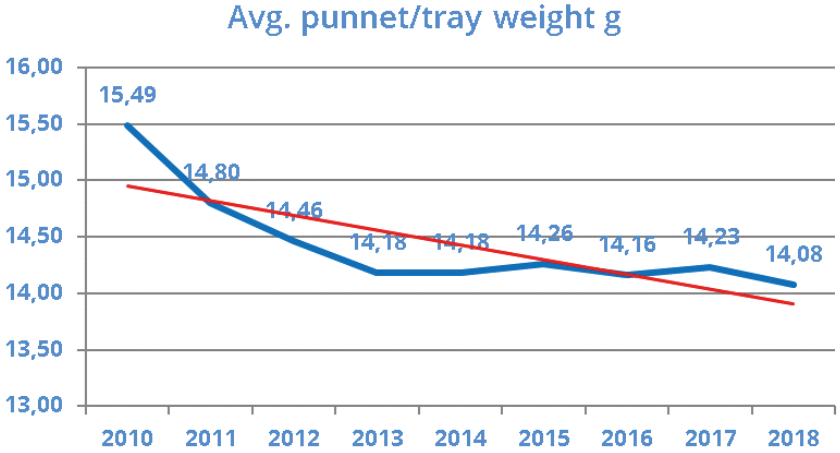
The new design with closely spaced side ribs gives the tray greater mechanical strength than the somewhat heavier previous version. The ribs also reduce friction, facilitating automatic de-nesting.

The side ribs converge along the base, improving the mechanical properties of the tray, minimising stress generated during the packaging process and making the product more attractive.



The rounded profile of the ribs minimises the risk of the packaged products being damaged.

**Since 2010 we have continuously reduced the average weight of our fresh produce punnets and trays: avg. weight reduction -9.10% equals to: –3.098t raw materials (PET, r-PET, PP) savings (2018 vs. 2010)**



# [Reduce] #3

## product downgauging = ILIP Eco-Design project

2019 has seen the launch of the ILIP Eco-design project, which aims to further decrease the weight of specific punnet profiles such as B40 and SETB33, recognisable by a special logo embossed onto the base and by specific technical solutions designed to improve punnet rigidity. We aim to achieve a further 1% weight reduction in the next three years which will result in a significant $CO_2$ footprint reduction.

# [Reduce] #4

## food losses & waste = ethical and environmental issue

Since 2012, ILIP has been a proud member of Save Food, the initiative launched by the United Nations Food and Agriculture Organisation and Interpack-Messe Düsseldorf to tackle food losses and waste where packaging is key to approach this issue. Since then, ILIP has formed partnerships with university research centres to investigate the relationship between packaging and packed food in order to enhance key packaging features whilst minimising environmental impact and improving shelf life, with the ultimate aim of reducing food losses and waste.

The main result of this ILIP approach
is our first active packaging solution: Life+

initiative® SAVE FOOD | Solutions for a world aware of its resources

*See next page*

# [Reduce] #5

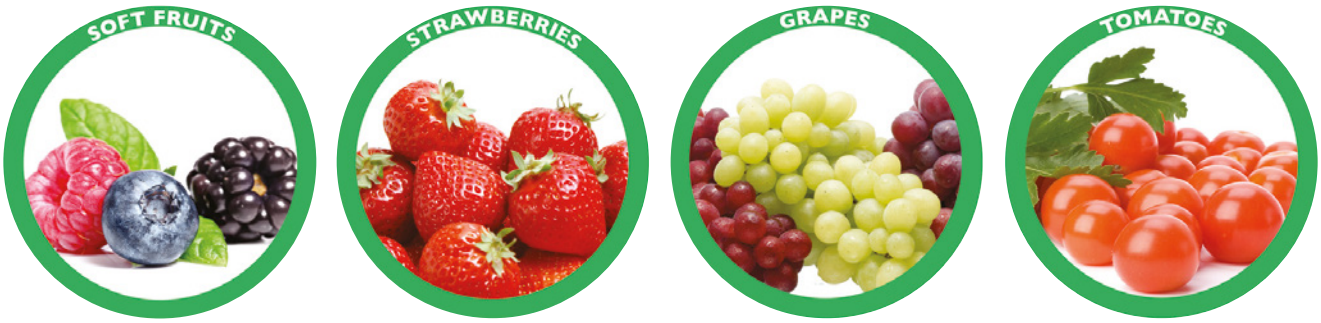
## food losses & waste = fight them with Life+ active packaging Life+

### What is Life+ ?

Life+ (Lifespan Improvement + Freshness Extension) is the new packaging system that allows the products' freshness, weight and organoleptic properties to be maintained for longer.

### How is that possible?

Thanks to cutting-edge technologies, like ILIP's innovative, unvented and anti-mist heat sealable punnets, combined with active pads and dedicated laser-perforated films.




Life+ has already been shown to significantly extend the shelf life and freshness of fruits like berries, strawberries, cherry-tomatoes and grapes.

# Recycle

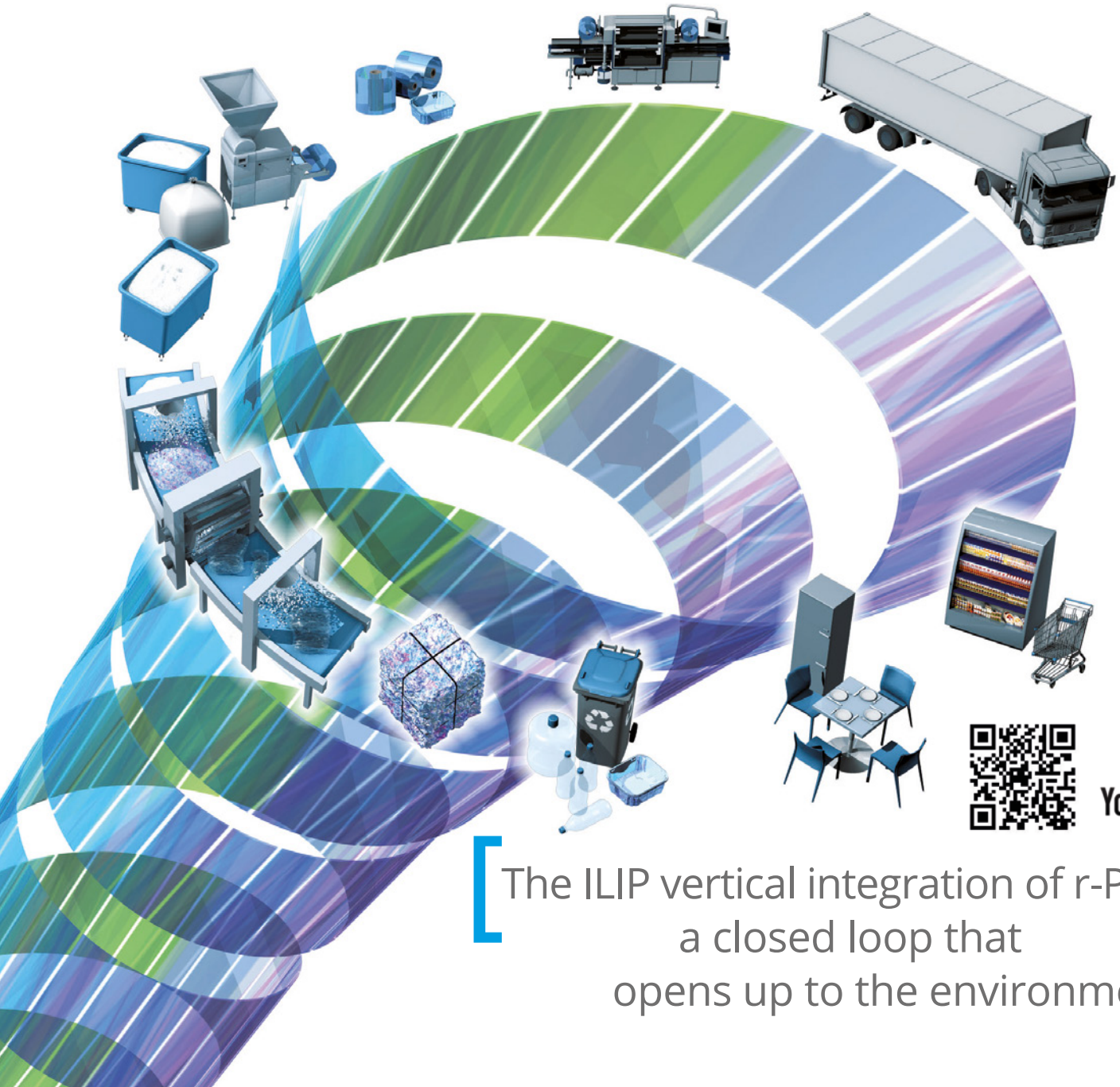
# [Recycle] #1

## closing the loop with r-PET food packaging = ILPA Group

The ILPA Group is a concrete example of circular economy, among the very few Groups in Europe to have vertically integrated its r-PET supply chain within its different companies, from post-consumer bottles to new food packaging solutions, while ensuring the origin and traceability of the material.

**We recycle around 30,000 tons of post-consumer PET p.a., which is the quantity of PET bottles consumed and recovered in the Emilia-Romagna region. We obtain secondary raw materials, avoiding the production of a corresponding quantity of virgin PET, which, in terms of CO2 emissions, corresponds to ca 75,000,000 kg of $CO_2$ eq.**

**The result of this process is a new packaging for foodstuff.**



YouTube

[The ILIP vertical integration of r-PET:
a closed loop that
opens up to the environment.]

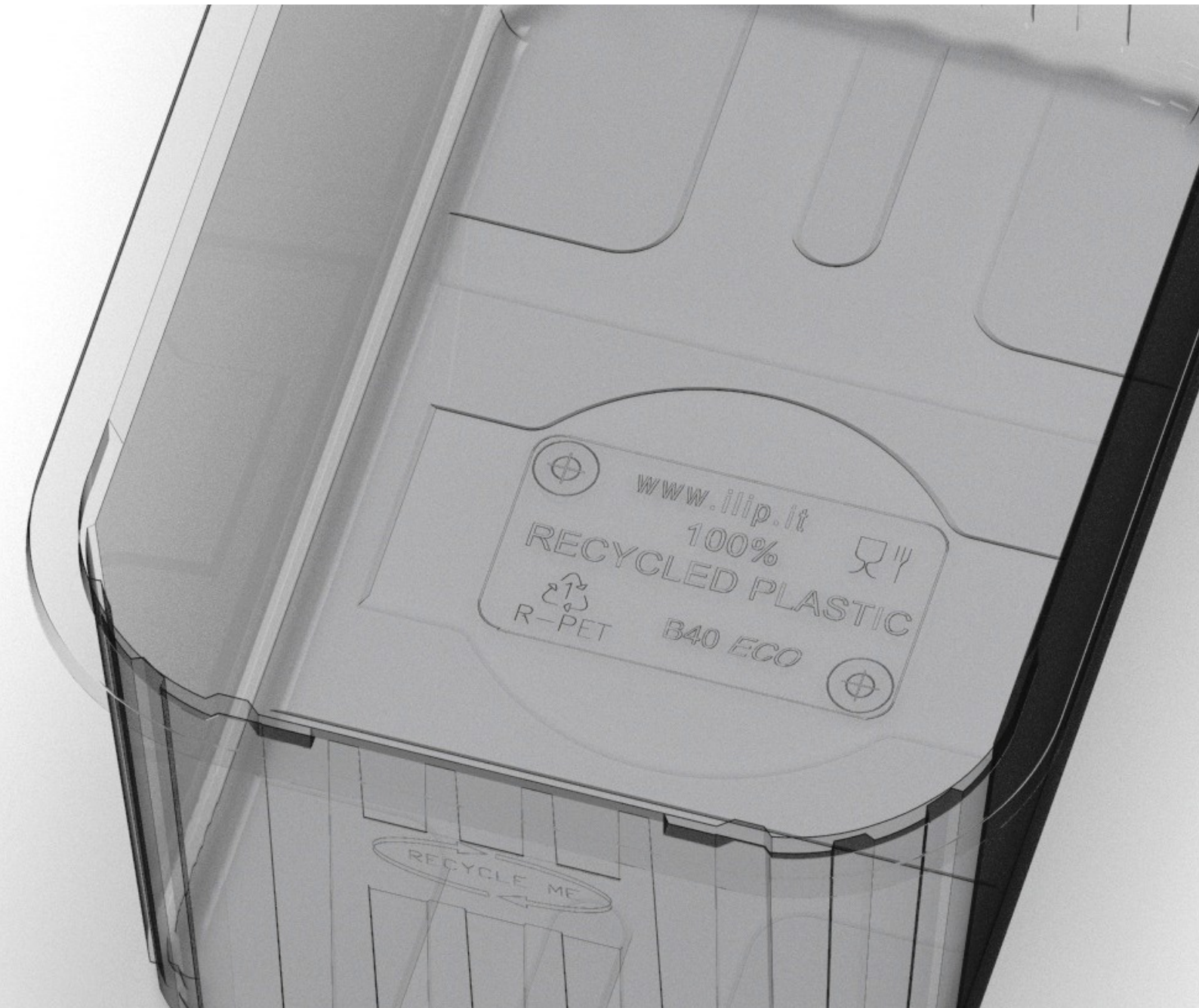
# [Recycle] #2

## 100% r-PET + closed loop = ILIP's unique added value

In addition to our capability to make 100% r-PET packaging, we also guarantee the origin and full traceability of the materials processed in the recycling system integrated in our Group of Companies and approved by EFSA (https://www.efsa.europa.eu/it/efsajournal/pub/3633)

CLOSED LOOP
ILIP
100% R-PET

- ✓ ONE source for recyclate
- ✓ ONE source for food packaging
- ☺ The same Group
- ☺ The same trusted quality and reliability



# [Recycle] #3

**ILIP's unique added value = it's all in the maths!**

**100% r-PET**
**(min. recyclate content 80%)** **+**

**closed loop** **=**

- ✓ **Full Traceability**
- ✓ **Quality**
- ✓ **Reliability**
- ✓ **Sustainability**
- ✓ **Circular Economy**

We comply with:
Reg. (EC) No1935/2004
Reg. (EC) No10/2011
Reg. (EC) No282/2008

CLOSED LOOP

ILIP

100% R-PET

# [Recycle] #4

## towards an accomplished circular economy: ILIP is leading the way

The ILPA Group and ILIP take a leading and active role in promoting a circular economy for thermoformed plastic food packaging.

We are a Board Member of Pet Sheet Europe, the PET supply chain trade association that is at the forefront in the improvement of PET food packaging recyclability and food safety.
We participate to the working group "Recycling PET Thermoforms" of Petcore Europe Association which aims to support the development of processes for tray to tray recycling of thermoformed food packaging. The members of Petcore Europe are the PET producers (CPME), the converters (EuPC, Forum PET Europe, EuPET), the recyclers (PRE) and also individual companies.
We are part of specific projects to improve PET packaging recyclability within Corepla, the Italian Consortium of plastic waste recovery.

# Renewable resources

# [Renewable resources] #1

## bioplastics: renewable and compostable

Bioplastics, such as PLA, are renewable and compostable.
ILIP is the only European packaging manufacturer to offer complete ranges of disposable tableware, foodservice packaging and fresh produce packaging made from PLA and we are extending our offer with items made from Novamont's Mater-Bi® too.

MATER-BI

ingeo™

NatureWorks

# [Renewable resources] #2

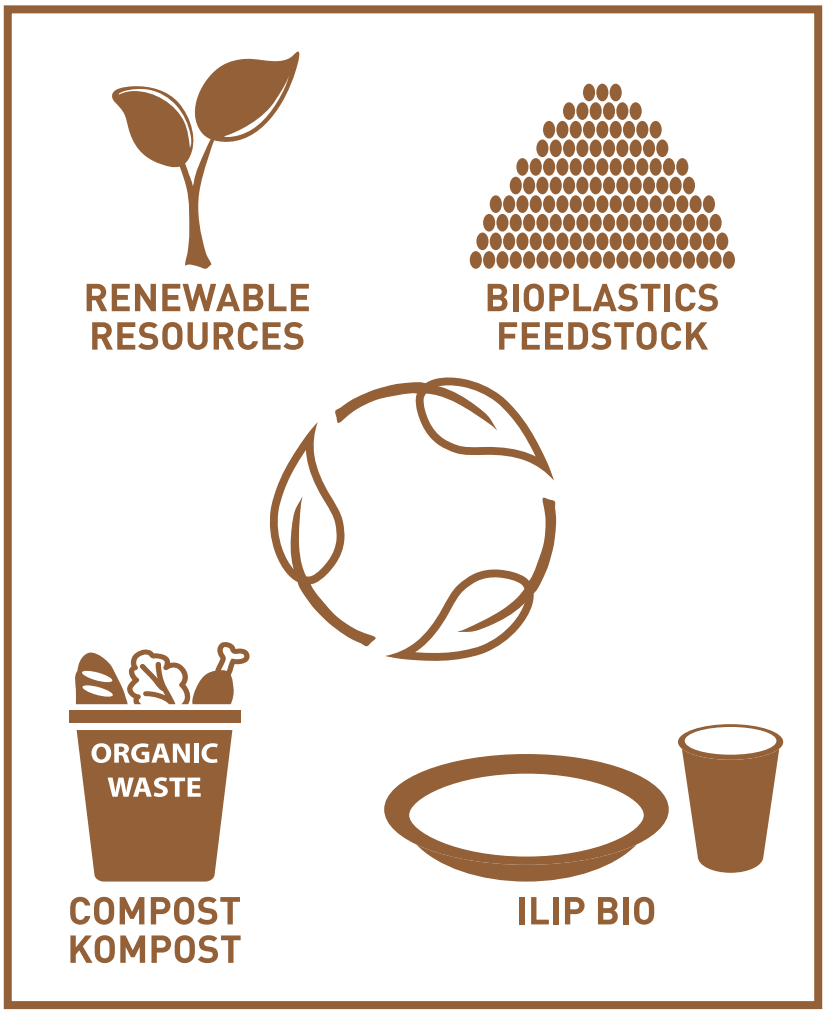
## bioplastics: plastics from plants

We produce food packaging made from bioplastics for specific intended purposes and specific situations, offering valid alternatives to fossil polymers. For this reason, many products in our assortment are made from PLA (polylactidacid), Mater-bi and other biopolymers.

Since 2002 we have been processing bioplastics to produce foodservice and fresh produce packaging. All these items are certified and comply with the **European standard EN13432**. The life of these products ends with organic recycling (composting, when appropriate and available) and the result of this process is compost.

compostable

COMPOSTABILE CIC
Verifica con il tuo Comune/Gestore Locale le modalità di conferimento e raccolta dei rifiuti



# [Renewable resources] #3

## bioplastics: use of natural resources

### AGRICULTURAL LAND

The total arable land area is 5 billion hectares. It is estimated that in 2017, land used for the production of bioplastics worldwide was only 1.2 million hectares, corresponding to less than 0.02%

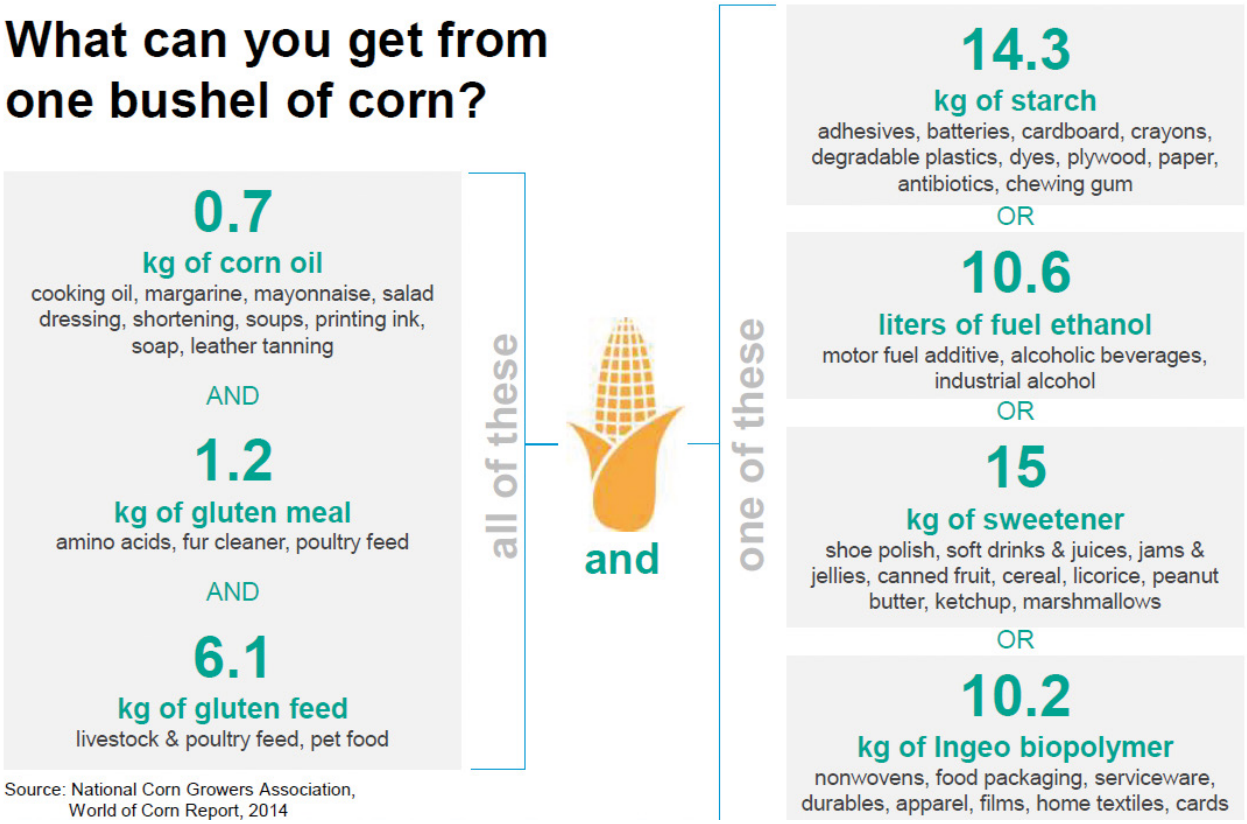
### GMO

NatureWorks offers a programme called “feedstock sourcing” for customers interested in promoting and supporting conventional (non-GMO) corn cultivation. Under this programme, this corn is purchased and introduced into the maize stream that feeds the milling plant with a conventional maize volume, equal to the amount requested by the customer. The customer receives copies of the certificates of purchase of the conventional seeds from the farmers together with the certification that the maize grown has been transferred to the milling plant.

### FOOD RESOURCES

Given the wide availability of the basic resources for the creation of biopolymers, food resources are not subtracted since their basic constituents are already used to make non-food products.

[Use of natural resources]




Source: https://www.natureworksllc.com


Passion for packaging

**ILIP S.r.l.**

a business of ilpa group

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