



25 years of EU supporting Nature, Environment and Climate Action through **LIFE**



PROYECTOS LIFE: EVENTO DE NETWORKING

Las Palmas de Gran Canaria

30-11-2017

ORGANIZADO POR:

BAQUA



Life-25.eu





Revalorization strategies within the circular economy for the use of citrus waste in green packaging and cosmetics



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Objective:

Boosting the potential of **byproducts** through their **valorisation** in a number of new value chains

Partners: 13

Period: 7/2017 – 6/2020

Sector: packaging, cosmetics

Budget: 1,709,664 €



From vegetal by-product to bottle

Vegetal by-products will be used:

- As natural additives for the reinforcement of 100% biodegradable **plastic bottles and containers** for juice and creams
- Other elements will be used for **creams** composition

In this way the project intends to **valorise a maximum 80% of the raw material** generated in the transformation process



Orange juice



Creams with natural additives

- **Outer orange peels:**

Wax, pigments, carotenoids, essential oils, and fibres (soluble and insoluble)



- **Orange seeds:**

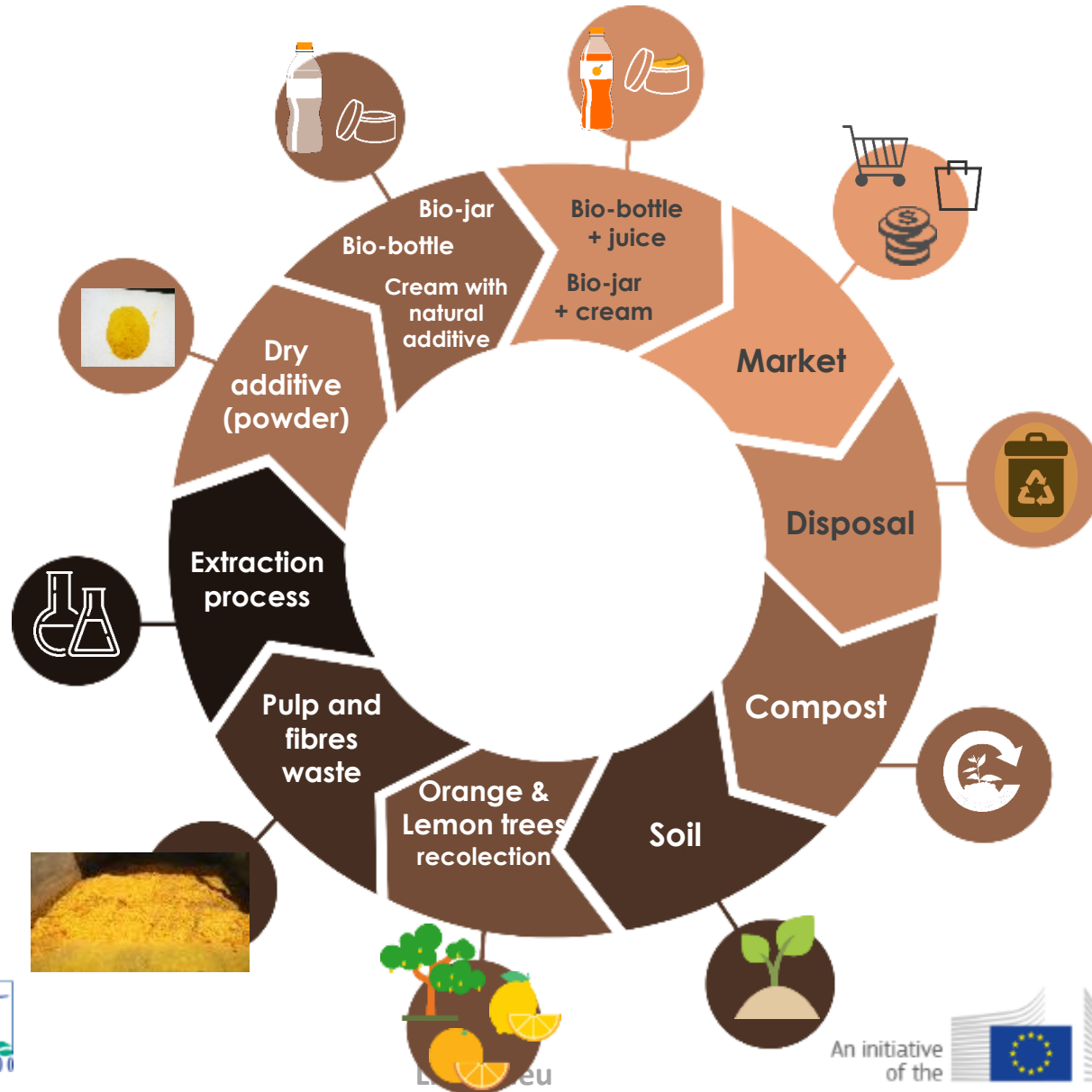
Pectins and flavonoid, and mainly insoluble fibres



- **Inner orange peels and pulp:**

Limonoids and fatty acids





WASTE

VALORIZATION

FUNCTIONALITY

VALIDATION/TEST



Citrus peel and pulp waste

Fibres powder Additive

Reinforce Additive for bioplastic packaging

Additive for Cosmetic Products

Juice Bottle (injection blow moulding)

Cosmetic Jar (Injection moulding)

Peeling gel/Cream

Oil/Water Cream

Extrusion compounding

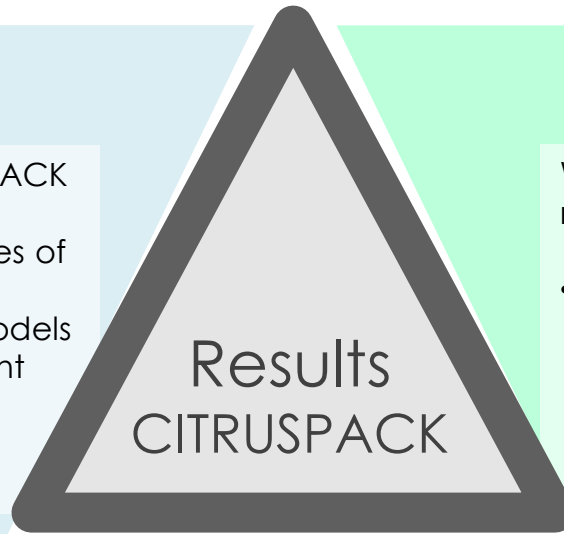


Extrusion blow-moulding



Industry

General Public



What do they need?

- International competitiveness
- Low Investment in new infrastructures

What does CITRUSPACK offer?

- New opportunities of business
- New business models in line with current manufacturing structure

What do they need?

- EU Citizens will not change their way of living and their safety will increase

What does CITRUSPACK offer?

- Healthier and better food and cosmetic products
- Similar Price and conditions in plastics products
- Environmentally friendly products

Governing Bodies and Public Entities

What do they need?

- Environmental objectives
- Independence of EU of oil resources
- EU leader in innovative products

What does CITRUSPACK offer?

- CITRUSPACK will increase the EU acceptance to reach 2020 objectives
- Products made with EU resources
- CITRUSPACK products will be exclusively developed by EU companies

Thank you for your attention!

AITIIP Technological Centre

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www.aitiip.com/idi/proyectos/citruspack

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LIFE PROGRAMME 

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