



SPIRE and Catalysing the Circular Economy BROKERAGE EVENT

3-4 October 2017

***CREATING NEW PLASTIC RECYCLING
PROCESSES***

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Who we are – ITENE

ITENE was founded in 1.994 as a private association with **NON PROFITABLE PURPOSES** and integrated by companies and institutions related to Packaging and Logistics



ITENE'S previous experience

39 Projects financed in **FP6-FP7**

5 Coordinators

6 Technical management

28 WP leader

120

Professional

22 Financed projects in other calls: LIFE, Interreg, Ecoinnovation (coordinators in 3 Lifes and 1 Sudoe)

23%

Doctors

10 projects financed in **H2020**

2 Coordinators: PLASTICIRCLE, IMPACPAPEREC

1 Technical management BBI (Pulpacktion)

7 Participation (EcoBulk, Agrimax, Optinanopro, Sherpack, Biosmart...)

14

Qualifications

20 SME's Instrument F1-F2 (support to the coordination, management and business)

3%

Annual investment
in Technical training

CE-NMBP-26-2018: Smart plastic materials with intrinsic recycling properties by design

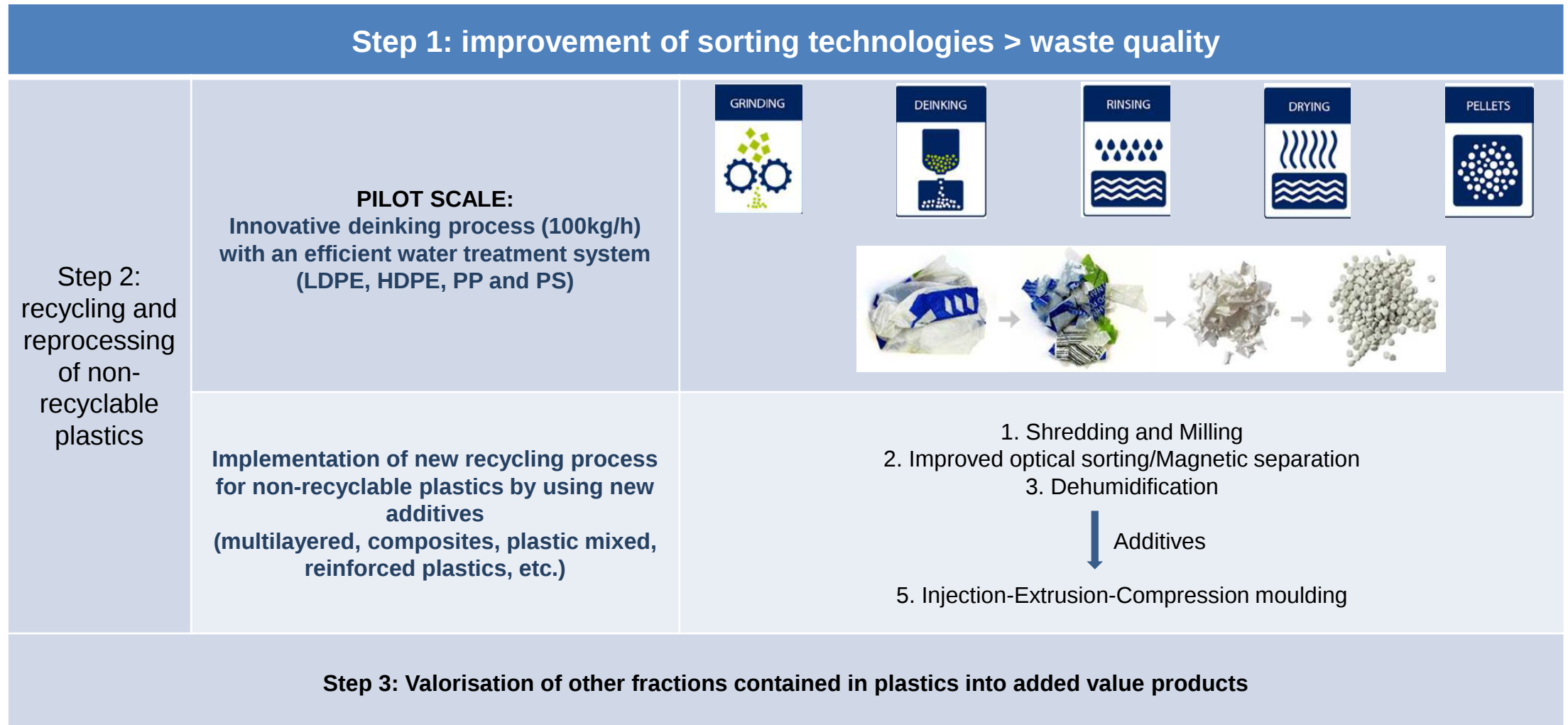
Design of polymer material:

- 1) Polymer design to improve “Recyclability”: use enzymes/bacteria to decompose the polymer into monomers that can be used as starting material in other polymerization processes
- 2) Universal additive: Additive to make conventional polymers also compostable.

Separation and recycling technologies

- 3) Innovative Removable Adhesives: to achieve the easy separation of multilayers in the sorting plant (only with water, temperature, or specific removing components)
- 4) Autosorting: markers to be added in the plastics to sort them easily by material or group of materials. This is useful for black plastics, multilayers or compostable materials in general
- 5) Chemical recycling of multilayers: pyrolysis or gasification

CE-SPIRE-10-2018: Efficient recycling process for plastic containing materials



LOOKING FOR EXPERTS IN THESE AREAS TO FURTHER DEVELOP WINNING PROJECT IDEAS:

- Industry, Research centres, Universities, etc....
- Looking for potential collaborations to move the rest of selected ideas in related H2020 topics
 - CE-NMBP-26-2018: Smart plastic materials with intrinsic recycling properties by design
 - CE-SPIRE-10-2018: Efficient recycling processes for plastic containing materials (IA)
 - CE-BIOTEC-05-2019: Microorganism communities for plastics bio-degradation
 - CE-SC5-01-2018: Methods to remove hazardous substances and contaminants from secondary raw materials

Contact details

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