



Valorising agricultural residues for local and sustainable cosmetics and nutraceuticals

The objective of the European project AgriWasteValue

Duration

4 ans (25.10.18-24.10.22)

Global budget

3.193.157,19€

FEDER funds

1.744.580,84€

DID YOU KNOW ?

- Currently, the majority of natural active ingredients used in cosmetics or nutraceuticals are imported into Europe
- The term "locally produced" is perceived as a guarantee of quality by consumers.
- The European cosmetics market was estimated at €80 billion in 2019.
- The European market for food supplements is estimated at €12.6 billion in 2019, with constant growth in recent years.



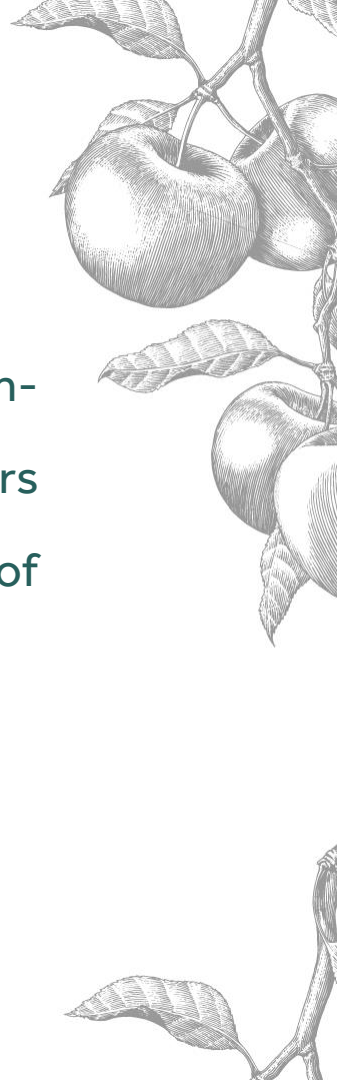
AgriWasteValue...

... is a project that aims to demonstrate the benefits of developing local supply chains and obtaining organic, sustainable and local bioactive compounds to meet growing consumer expectations.



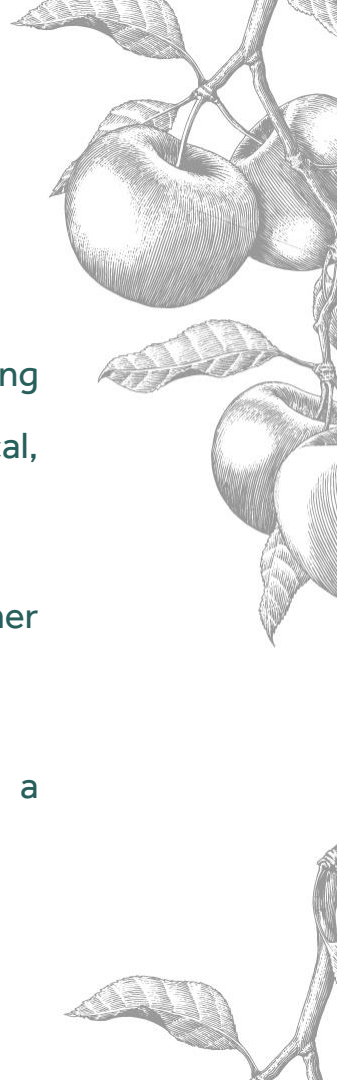
How ?

By transforming agricultural by-products and residues from the North-Wesy of Europe into bioactive compounds for use in key industrial sectors such as cosmetics and nutraceuticals and, in a second phase, in the fields of energy, chemicals and agriculture.



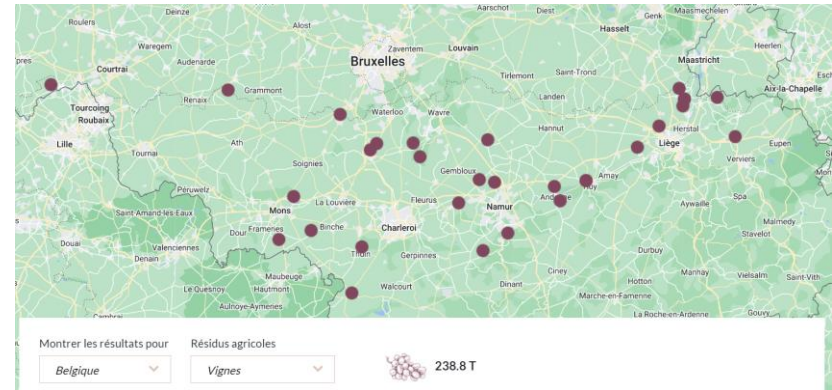
Why ?

- Consumers are more concerned than ever about the environment, health, the ageing population and the positive image of natural products. They want more quality, local, transparent and ethical products.
- As companies develop more and more natural resource-based ingredients to meet consumer demand, the need to sustainably source these ingredients increases.
- AgriWasteValue is part of the commitment of Europe and its citizens to develop a bioeconomy, to achieve zero waste and to achieve local value chains.



RAW MATERIAL

To put **farmers in contact with companies** looking for molecules of interest for their products, the project partners have developed a **digital map** of the raw material available in Europe for prunings of vines, pears and apples - the three most promising crops identified during the project.



MOLECULES OF INTEREST

Among the molecules extracted during the project, these stand out for their promising properties and their quantity and quality...

Phlorizin

- From apple tree pruning
- Dihydrochalcone used in the cosmetic and food industry as a colouring agent

Resveratrol

- Produced from the prunings of grapevines
- Powerful anti-oxidant for skin and stress, widely used in cosmetics and nutraceuticals

Catechin

- Derived from pear tree prunings
- Anti-oxidant with a protective role in the prevention of cardiovascular diseases, type 2 diabetes and osteoporosis

Epicatechin

- From the prunings of pear trees
- Anti-oxidant with a protective role in the prevention of cardiovascular diseases

Chlorogenic acid

- Derived from pear tree prunings
- Anti-oxidant used in the food industry against obesity

KEY NUMBERS

- 1.492.432 tonnes estimées de tailles de vignes disponibles en Europe du Nord-Ouest
- 340.493 tonnes estimées de tailles de pommiers et poiriers en Europe du Nord-Ouest
- 26 variétés investiguées : 11 pour les vignes, 10 pour les pommiers, 5 pour les poiriers
- 20 nouvelles molécules identifiées
- 3 extraits aux capacités antioxydantes, anti-âge et anti-tyrosinase particulièrement prometteuses

The AgriWasteValue project is part of the Interreg North West Europe programme. Interreg NWE is a European territorial cooperation programme funded by the European Commission which aims to make the North West Europe region a key economic player and an attractive place to work and live, with high levels of innovation, sustainability and cohesion.

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Project under the program



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9 partners in Europe



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