



UMARI

Usare **Matrici Agroalimentari di scarto** per **Riciclarle in Ingredienti funzionali**

Using waste **Matrices from Agrifood** to **Recycle** them into functional **Ingredients**

UMARI **valorises production residues** from **agriculture** and the **agrifood industry** to produce high added-value products that provide benefits to human & plant health. An environmentally and economically **sustainable industrial model**, demonstrated with **LCA analyses** and **quantitative indicators** of product quality & sustainability.

Collection of production residues

Tomatoes

Strawberries



Courgettes

Peels, stems, leaves and processing water still contain usable bioactive molecules

Extraction of phytocomplexes from plant wastes



Rich in metabolites with antioxidant and antimicrobial properties



Development of new products enriched with phytocomplexes



They offer benefits for human health, personal care (**nutraceuticals** & **cosmetics**), and plant health (biostimulants & biocides for **agriculture**)

UMARI softwares

- Value chain management (blockchain-based) for a digital product passport
- Shelf-life prediction to more quickly assess the stability of new products



Industrial Symbiosis & Circular Economy

within 100km in the Calabria region: collection of waste, extraction process of the phytocomplexes, and their transformation into the finished product



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The Consortium: