







## **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**





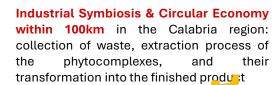


They offer benefits for human health, personal care (nutraceuticals & cosmetics), and plant health (biostimulants & biocides for agriculture)

#### **UMARI** softwares

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







### The Consortium:











