





Innovative Processes and Products of Green Chemistry

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FRAMEWORK

PRIME will develop and demonstrate advanced green chemistry processes capable of transforming renewable raw materials and waste available on the Piedmont territory in bio-products and biomaterials with functional properties comparable and / or improved with respect to those existing on the market, with significant spillovers in sectors strategic for the regional economic development, such as agriculture and food packaging.

WP6 – Task 6.1 Sensory Shelf-Life

Evaluation of the sensory shelf-life of fresh food stored in innovative packaging

WP6 – Task 6.2 Mulch

Validation of biodegradable mulch sheets and comparison of six different agroecological practices for weed management

WP6 – Task 7.6 Circular Economy and Systemic Design

Identification of indicators for monitoring the impact of the project in a circular economy for food perspective

Methodologies

Sensory Shelf-Life:

✓ Comparison between four types of cling film

Electronic nose Image analysis

✓ Working on a survey online on consumer perception of sustainable packaging.

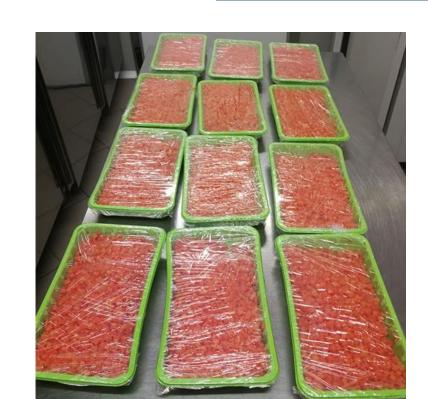
Mulch:

- ✓ Cultivation of cabbage, lettuce and onions in two areas in the province of Cuneo;
- Comparison of agricultural practices and observations in the fields.

Circular Economy and Systemic Design

- ✓ Census of the main tools and indicators developed to measure sustainability;
- ✓ Searching for new indicators and measurement tools.













Next Steps

- > Sensory tests for the evaluation of appearance, smell, taste, flavor during the storage;
- Evaluation of agroecological practices regarding agronomic, qualitative, ecological, sensorial and economic aspects;
- ➤ Identification of indicators to measure the "CEFF" applicable to PRIME products and monitoring methods; Hypothesis of communication / exploitation of results for companies.





