Boosting sustainable diversification in farming systems

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CARINA Project: Carinata & Camelina Evaluation in the EU

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CARINATA AND CAMELINA BOOSTING THE SUSTAINABLE DIVERSIFICATION IN AGRICULTURAL PRODUCTION SYSTEMS (CARINA)

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What is CARINA?

- ✓It's an **Innovation Action Project**, funded in the framework of the Horizon Europe work programme
- ✓It responded to the following call topic *HORIZON-CL6-2022-CIRCBIO-01-04: Maximizing economic, environmental and social synergies in the provision of feedstock for bio-based sectors through diversification and increased sustainability of agricultural production systems*
- ✓It started on November 1 2022, and will last 48 M
- ✓It includes **19 partners (+ 5 associated partners**) from EU and non-EU contries (Italy, France, Spain, Poland, Greece, Bulgaria, UK, Serbia, Morocco, Tunisia, and Switzerland)
- ✓**8 partners** are from RTD, + **11 partners** represent industries, SMEs, NGOs, etc.
- ✓It has been funded with 7.5 M€ and it will cost about 8.5 M€
- ✓UNIBO is the coordinator (Prof. A. Monti)

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CARINA PARTNERSHIP

Rtd partners

- UNIBO (ITALY)
- CRES (GREECE)
- DBFZ (GERMANY)
- UPL (BULGARIA)
- PULS (POLAND)
- ICARDA (MOROCCO)
- INRAT (TUNISIA)
- IFVNCS (SERBIA)

NGO

- RSB (SWITZERLAND)

Farmers' association

- TI & ARVALIS (FRANCE)
- SPANISH COOPS (SPAIN)

Industries

- NVMT (ITALY)
- SAIPOL (FRANCE)
- CCE (SPAIN)
- NUSEED (UK)

SMEs

- FLANAT (ITALY)
- KIMITEC (SPAIN)
- PEDAL (SLOVAKIA)

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The scenario in which CARINA operates

- The European bioeconomy sector generates an annual turnover of around 2 trillion euros with > 17 M of persons employed.
- >15% of the current biomass feedstocks used in Europe for bioeconomy are imported from overseas
- **Low-iLUC feedstocks** are urgently needed to support the competitiveness of agricultural and bio-based sectors.

- *To this end, innovative farming systems including resilient crops would enable farmers to produce domestic and low-ILUC feedstocks replacing fallow periods of the year or in marginal land, thus turning a rural and social problem into an opportunity.*

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The CARINA solution

In CARINA, we propose a portfolio of innovative crop diversification solutions including two promising easy-to-grow oilseed crops: carinata (*Brassica carinata* L. Brown) and camelina (*Camelina sativa* L. Crantz). Both species have proven to be suited to nearly all European pedo-climatic conditions, showing very interesting prospects in the **circular bioeconomy sector.**

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PERT Chart of CARINA

WP 7 – Coordination management

WP 1 – New Farming systems

WP 2 – Biomass valorization (biorefinery)

WP 3 – Integrated sustainability assessment

WP 4 – Policy interventions and certification

WP 5 – Social innovation and scale-up

WP 6 – Dissemination and communication

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Thank you

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