Crops2Industry

“Non-food Crops-to-Industry schemes in EU27”

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The overall objective is to explore the potential of non-food crops, which can be domestically grown in EU27 context, for selected industrial applications, namely oils, fibers, resins, pharmaceuticals and other specialty products and outline and prioritise crops-to-products schemes, suitable for the different Member States, which will support sustainable, economic viable and competitive European bio-based industry and agriculture.

The expected output will be to identify whether and under which terms Europe has the potential and the technical competence to develop a competitive bio-industry fed by a sustainable agriculture.
The concept

Crop2Industry

- Oil Crops
- Fibre Crops
- Carbohydrate Crops
- Other Specialty Crops

- Oils
- Fibres
- Resins
- Pharmaceuticals and other specialty products

CROPS TO INDUSTRY
Project activities

WP1 Non food Crops
WP2 Plant breeding
WP3 Bio-based products
WP4 Socioeconomics
WP5 Sustainability
WP6 Crops-2-products schemes
WP7 Dissemination
WP8 Management
Project activities

- Explore the potential of non-food crops, which can be domestically grown in EU27 countries, for selected industrial applications (WP1)

- Identify current molecular genetics technologies (genomic and biotechnological tools) and suggest their potential applications in a crop-specific manner to address a wide range of breeding constraints regarding yields and tolerance to abiotic and biotic conditions (WP2)

- Explore the potential and feasibility of the European industry to make high-value biobased products namely oils, fibers, resins, pharmaceuticals and other specialty products (WP3)
Project activities

- Assess selected production and environmental impacts and identify a ‘core’ list of standards and criteria for the environmental and socio-economic sustainability of selected non-food crops-to-industrial-products systems (WP5)

- Perform supply chain cost analysis, identify best business opportunities and assess the socio-economic impacts of selected crop-to-product schemes at EU-27, regional and country levels (WP4)

- Perform an overall assessment aiming to select and prioritise crops-to-products schemes in technical, socio-economic and environmental terms (WP6)
Project activities

Thematic workshops

- Can fibre crops offer a viable alternative land use option? (Poland, m5)
- Niche markets for specialty industrial crops (Greece, m11)
- Can oil crops be considered as the only industrial crops that have a clear niche market in EU 27? (France, m17)
- Carbohydrate crops and the dilemma of using them for non-food purposes (The Netherlands, m23)
- Non-food crops for a bio-based Industry and sustainable agriculture (Italy, m29)

Dissemination activities (WP7) including project website, thematic workshops, links with other activities, such as:
- Plants for the future platform
- IENICA project
- 4F Crops project

Project management (WP8)
## The consortium

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<tr>
<th>Crops</th>
<th>Industry</th>
<th>Biotechnology</th>
<th>Economics</th>
<th>Sustainability</th>
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<td>UNIBO - University of Bologna, Italy</td>
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<td>OeKO - Institut of Applied Ecology, Germany</td>
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<td>BOKU - University of Natural Resources and Applied Life Sciences, Austria</td>
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<td>FZ-JUELICH Forschungszentrum Julich GmbH, Germany</td>
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### Crops2Industry schemes

Sustainability schemes: Bioeconomic assessment, Product development, Value chain analysis, Innovation and entrepreneurship.