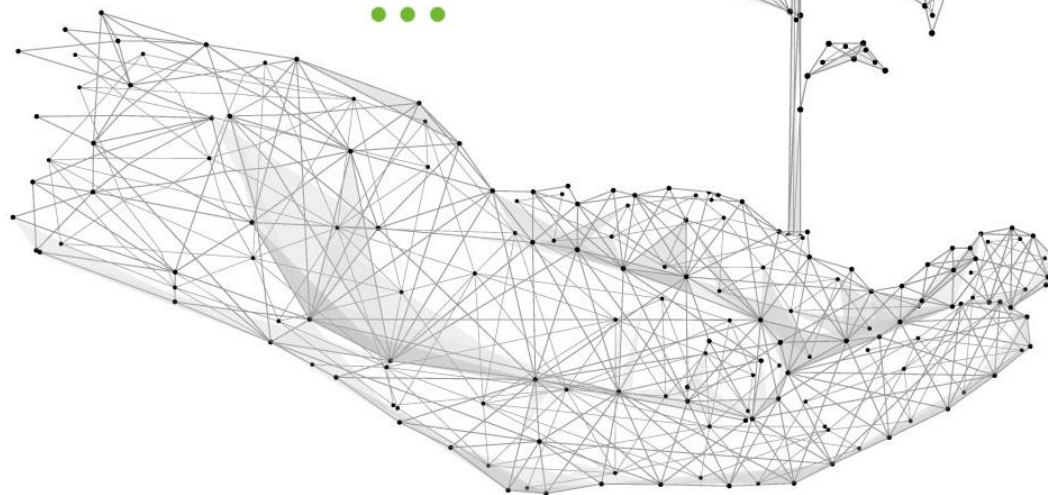


Research & Innovation Agenda

Technological platform of Organic Agriculture in Extremadura

Main challenges, objectives and action lines in research, technological development and innovation issues for reaching the best development of the organic sector in the region of Extremadura



Technology Platform of Organic Agriculture in Extremadura

DECRETO 140/2017 Ayudas para la realización de proyectos innovadores por parte de los Grupos Operativos de la Asociación Europea para la Innovación en la materia de productividad y sostenibilidad agrícola.

SUBVENCIÓN: 201.690 €



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Elaboration process



Bottom-up collaborative process
Working groups



Research data collection



Personal interviews



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Elaboration process



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Research and Innovation Agenda Technological platform of organic agriculture in Extremadura



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General Objective
To achieve a
sustainable organic
production from the
social, economic and
environmental perspectives



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Research and Innovation Agenda - PTAEEEx

Agricultural Production

The general objective of this area is:

“To increase the crops productive efficiency for improving its protection, control and promoting a productive diversification”



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Agricultural Production

The specific objectives and actions lines in this area are the following:

OE01: To diversify farmers profiles and cultivated products.

- LA01: Development of a information system to farmers.
- LA02: Introduction of products demanded by the market and traditional crops and varieties rescue.

OE02: To increase the efficiency in crops techniques.

- LA01: Research and development of vegetable material adapted to organic farming.
- LA02: Development of soil analysis techniques.
- LA03: Research and development of permanent crops.



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Agricultural Production

The specific objectives and actions lines in this area are the following:

OE02: To increase the efficiency in crops techniques.

- LA04: Cover crops management.
- LA05: Development of crop-livestock systems for crops management.
- LA06: Development of water saving techniques.
- LA07: Studies about irrigation management techniques.
- LA08: Use of big data, sensorisation and monitoring systems for decision making.
- LA09: Elaboration of a catalog with the main strategies against chemical drift in small farms.
- LA10: Development of new fertilizers, amendments and organic matters sources.
- LA11: Development of machineries for increasing the crops techniques efficiency.



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Agricultural Production

The specific objectives and actions lines in this area are the following:

OE03: To improve the control and protection in organic crops.

- LA01: Machineries design and development and other instruments directed towards physical control of competitors herbs (onion, carrot, rice, etc.).
- LA02: Research and development of organic herbicides and pesticides product.
- LA03: Development of practices of auxiliary fauna recovery.
- LA04: Research of pests and diseases control techniques with organic methods.



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Livestock Production

The general objective of this area is:

“To achieve a efficient productive system, adapted to climate change, which allow a healthy livestock, well-fed and with guarantee of stock supplies”



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Livestock Production

The specific objectives and actions lines in this area are the following:

OE01: To promote the research and technology for achieving more information, transfer and regulation simplifying.

- LA01: Development of information technological systems and improve the qualification of livestock farmers in these tools which allow to a better information and regulation simplifying related to organic sector.

OE02: To promote the supplies development and coordination, breeding animals and raw materials for livestock and apiculture productions.

- LA01: Development of efficient production lines of stud for organic production.
- LA02: Development of production lines of breeding female for organic production.
- LA03: Research and development of efficient techniques for the foster of apiculture sector (supplies, raw materials, etc.).



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Livestock Production

The specific objectives and actions lines in this area are the following:

OE03: To develop alternative and efficient animal production and feeding systems.

- LA01: Research and development of new ecological grassland crops.
- LA02: Development of legumes organic crop as protein source.
- LA03: Improvement of organic feed quality (aromatic plants additions, etc.).
- LA04: Development of techniques for livestock efficient management and livestock density.
- LA05: Development of natural techniques for better synchronization of birth and proper management of flushing, etc.



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Livestock Production

The specific objectives and actions lines in this area are the following:

OE04: To develop processes and treatments for achieving the most possible welfare during livestock production.

- LA01: Generation of affordable and accessible sanitary treatments, biocides and animal health products permitted for organic production.
- LA02: Development of natural treatments, phytotherapies and homeopathy.
- LA03: Research about more resistant genetic lines to pests and diseases.

OE05: To promote and support the climate change adaptation process.

- LA01: Development of efficient systems for water management on livestock farms and their grass.
- LA02: Research about the possibility of Carbon Fingerprint calculation in livestock farms and its possible economy performance.



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Elaboration and Transformation

The general objective of this area is:

“To optimize elaboration and transformation processes which allow the quality increase of products, promoting the sustainability and the valorization of generated by-products and wastes”



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Elaboration and Transformation

The specific objectives and actions lines in this area are the following:

OE01: To improve the elaboration and transforming processes for improving and maintenance the quality and the food properties.

- LA01: Identification of local organic productions which can supply transformation industrial demands.
- LA02: Development of knowledge which allows to improve the organic product transformation processes, optimizing the efficiency and diminish the allowed additives in the main crops in Extremadura (olive oil, wine, etc.)
- LA03: Studies, analysis, and machineries development, equipment and adapted processes for a small scale transformation.
- LA04: Studies and analysis about the possibilities of creating small community based industries which allow to produce local food, fostering the diversification of local food production.



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Elaboration and Transformation

The specific objectives and actions lines in this area are the following:

OE01: To improve the elaboration and transforming processes for improving and maintenance the quality and the food properties.

- LA05: Development of protocols and good practices guidelines (based on science) which allow and facilitate the hygienic standard in small-scale producers, community based industries and artisan productions.
- LA06: Development of natural additives for improving the elaborated food conservation.

OE02: To improve the packaging systems in order to obtain a better adaptation to market trends and to the environmental sustainability.

- LA01: Development of sustainable environmental packagings.



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Elaboration and Transformation

The specific objectives and actions lines in this area are the following:

OE03: To improve the logistic and supply systems.

- LA01: Development of a information system and collaboration models which improves the supply system among producers and can guarantee the supplying provision, decrease the associated costs and facilitates a value chain more uniform.
- LA02: Design and promotion of a sustainable transport and logistic transport system which allow to increase the efficiency and to go up to a larger transformation scale.
- LA03: Development and promotion of creative and innovative action lines for allowing shorter the production chains, minimizing costs and increasing the implementation speed.
- LA04: Establishment of new scientific-based standards about market requirements in livestock products.



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Elaboration and Transformation

The specific objectives and actions lines in this area are the following:

OE04: To improve the waste management systems in food processing through the by-products valorization, generating new market opportunities.

- LA01: Promotion of researches directed towards the identification and valorization of by-products and wastes generated in the organic processing sector.
- LA02: Development of public-private collaborations which facilitate by-products exchange through infrastructures and specific regulations.



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Commercialisation and Consumption

The general objective of this area is:

“To increase and facilitate the commercialization and consumption of organic products through a better commercial structure, innovative, adapted and specific selling channels to this sector”



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Commercialisation and Consumption

The specific objectives and actions lines in this area are the following:

OE01: To educate and society awareness about the benefits and goodness of organic agriculture and livestock.

- LA01: Awareness-raising and education in an innovative way and based-knowledge, about the goodness and benefits of organic agriculture and livestock.

OE02: To develop specific strategies and channels adapted to organic productions.

- LA01: Development of eco-social studies, consumers behavior, market analysis, etc., which support the decision-making processes and other supporting initiatives.
- LA02: Development of sales and marketing channels adapted to organic production that encourage an adjustment between supply and demand and allow for greater differentiation with conventional channels.



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Commercialisation and Consumption

The specific objectives and actions lines in this area are the following:

OE03: To promote commercial structuring of organic sector.

- LA01: Analysis and development of collaboration models to promote a common and based-platform commercialization process.
- LA02: Study of potential public grants.

OE04: To analyse and study about prices elaboration process for organic products.

- LA01: Studies of prices elaboration process and development of methodologies which guarantee a righty price for producers.



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Food and Health

The general objective of this area is:

“To promote the knowledge related with the ingestion or organic food and the health, promoting the development of interest organic biocompounds linked to these sectors”



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Food and Health

The specific objectives and actions lines in this area are the following:

OE01: To create and enlarge the knowledge related to interest healthy compounds associated to the main organic crops in the region of Extremadura.

- LA01: Identification and analyse interest healthy compounds associated to the main organic crops in the region of Extremadura from chemistry, physical and nutritional point of view. desde un punto de vista físico-químico y nutricional.
- LA02: Evaluation about the biodisponibility of interest compounds associated to the main organic crops.
- LA03: Determination of the functionalities of different interest healthy compounds as a organic sector valorization tool.



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Food and Health

The specific objectives and actions lines in this area are the following:

OE02: To deepen about the benefits and advantages of organic food against diseases, allergies and/or intolerances.

- LA01: Determination the relation and/or influence of organic food with different diseases, allergies and/or intolerances.

OE03: To develop interest organic bioprocesses and bioproducts for the food & health pairing.

- LA01: Studies about possible organic bioproducts directed towards health and food, as well as for productive processes.
- LA02: Processes research for obtaining organic bioproducts.



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