

PROCUREMENT PHASES

MECAOLIVAR is starting at the beginning of 2014 with the announcement of the administrative and technical specifications. There are two main phases:

Phase I. Pre-prototyping. This phase is divided into two consecutive stages:

Stage I: this is a curiosity driven research stage. It lasts 40 calendar days during which companies must submit a technical and administrative proposal. Then, an intermediate evaluation selection process chooses until four solutions per each line of the procurement process.

Stage II: this is a solution exploration stage. It lasts 75 calendar days during which the four previous selected companies perform a conceptual design and viability study of each prototype. An intermediate evaluation selection process chooses until two solutions per each line of the procurement process.

Phase II. Prototyping. Two companies are selected for each line to complete the design, development and manufacture of pre-commercial prototypes until the end of 2015.

ECONOMIC RESOURCES

After first intermediate evaluation of Step I, the four selected companies receive financial support for the implementation of Stage II. After second intermediate evaluation of Step II, the two selected companies to perform each prototype receive the rest of the budget as they arise certifications of prototype development.

The endowment of each stage and line appear online in administrative specifications documentation.

Audience:

Any company in the EU working on farm machinery, and specifically for olives.

Information:

- www.mecaolivar.com
- <https://contrataciondelestado.es/>
- www.uco.es/gestion/contratacion/perfil-del-contratante/198
- www.uco.es/centro/index.php/innovacion/item/45-proyecto-mecaolivar

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Project participants



Pre-commercial public procurement (CPC): MECAOLIVAR



OVERVIEW:

MECAOLIVAR project is a pre-commercial public procurement to develop machine prototypes and at the same time improving innovations and profitability of the olive crop by R&D strategies technologically demanded. Furthermore, it aims to create an innovative business network with ability to develop commercial machinery to improve the modernization of the olive sector, increasing its competitiveness and international position.

OBJECTIVES :

MECAOLIVAR, developed by the research group AGR 126 'Mechanization and Rural Technology' of the University of Cordoba in Spain, offers and shares results of R&D to develop pre-commercial machinery prototypes that outperform those available on the olive sector. MECAOLIVAR is composed by six lines to develop until two pre-commercial prototypes in each line. In this way, University of Cordoba can progress on innovation skills, research disclosure and R&D results, getting closer industrial and university environments.

LINE 1

Canopy shaker adapted to traditional olive orchard - tress with several trunks, wide canopies and ample tree distances- able to detach, catch, remove debris, transport and load olive fruits.

LINE 2

Harvester adapted to intensive olive orchard –trees in close lines, with alone trunk and trunk height of 80 cm- able to detach, catch, remove debris, transport and load olive fruits. This harvester can be based on trunk shaker technology.

LINE 3

Development of a trunk clamp system -vibration head and pad materials- able to keep a high fruit removal rate and avoid tree damage, especially during beginning of harvesting season. The clamp system has to automate the trunk attachment process and configure the clamp pressure.

LINE 4

Airblast sprayer adapted to traditional olive orchard - trees with several trunks, wide canopies and ample tree distances- able to spray based on canopy density distribution and reducing the product runoff. Prototype has to improve the productivity of conventional equipments and work over soil slope up to 15%.

LINE 5

A tractor mower to manipulate vegetable covers and an automated sprayer unit to weed control, both adapted to intensive and traditional olive orchards. Both prototypes must be able to work in a separate or combination way, increasing soil protection to erosion by the conservation of vegetable rest over the ground and reducing the herbicide application by variable distribution.

LINE 6

Pruning system to tree adaptation of the new developed harvesters in both traditional and intensive olive orchard. Canopy and soil chemical application evaluation according to concentration, distribution and runoff.

