

Carlos Bernabéu: "The *Aracnocóptero* is manufactured piece by piece in Salamanca"

The director of Arbórea, a company of the USAL Science Park, affirms that the primary sector has great potential to develop high technology



Carlos Bernabéu, head of Arbórea

Carlos Bernabéu is the director of Arbórea, a company of the USAL Science Park that this year is present in Salamaq at the Caja Rural stand. Bernabéu explains that in Arbórea, a very young company with a year and a half of life in which six people work, Iberdrola and the CDTI participate, "to accommodate the *Aracnocóptero* project, which has been developed since 2008" and which has become a of the fair's attractions at the Caja Rural stand, where it is exhibited. Bernabéu explains that the objective of his company is to push this Spanish technology in which they work in different areas, "initially in the industrial one, the inspection of wind turbines or lines; in this case we have just signed an agreement with Caja Rural Salamanca to boost the technology of the *Aracnocóptero* which is a remotely piloted air system". It is a multi-rotor folding helicopter intended for the inspection of wind turbine blades.

The *Aracnocóptero*, together with its associated software platform, allows to increase the efficiency of maintenance inspections in wind turbines, reducing downtimes and achieving a level of detail far superior to that of traditional inspection methods. He emphasizes that "piece by piece is manufactured in Salamanca, it has merit to be an innovative entrepreneur in Spain" and recognizes the "great support of the University of Salamanca, Iberdrola and Caja Rural to introduce this technology in the field". For the head of Arborea, an innovative bet by Caja Rural is a bet, with multiple applications and very interesting in the field



when it comes to increasing production, reducing costs, being more efficient, reducing work and having a lower environmental impact.

The *Aracnocóptero* project is made up of a multidisciplinary team that includes researchers from multi-agent systems and artificial intelligence of the USAL, software engineers and mechanics, experts in electronics, telecommunications, behavior and communication of social animals that form swarms, military advisors and technical specialists in the very diverse applied fields of the product. This technological investment is part of the commitment of Iberdrola and the CDTI with the promotion of entrepreneurship and the industrial fabric in Spain and responds to their efforts to promote innovative projects that promote a change in the productive model to achieve a more sustainable society. Modernity by the hand of the primary sector in a territory, as Bernabéu states, "with extraordinary potential still largely to be developed, areas such as forestry where Castilla y León can say a lot. In livestock, the pasture is one of the ecological systems most important sustainable in the world in which an extraordinary biological wealth of native and migratory fauna is maintained and a traditional system with products exportable to the whole world and high technology must reach our field".

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