

## Drones and 3D to map the geological heritage of Jaén

**LOCATION:**Jaén

**DURATION:**1'40"

**SUMMARY:**A research team from the Centre for Advanced Studies in Earth Sciences of the University of Jaén is documenting the 87 geological interest points of the province of Jaén to make the data obtained with this research available to the public. They use aerial images, some of them obtained with drones, terrestrial pictures, and also images obtained with laser systems. Their goal is to combine these images with the information of their database, so it can be useful for researchers and the general public.

### VTR

This is a 3D image of La Cimbarra, in Jaén, declared area of natural and geological interest. A team from the Centre for Advanced Studies in Earth Sciences of the University of Jaén is studying it by applying photogrammetry techniques to aerial images, some of them obtained with drones, terrestrial, and captured with laser systems.

**FRANCISCO JAVIER CARDENAL**  
Cartographic Engineering professor

*"We use photogrammetry to process those images, obtain digital models of the terrain surface and, in addition, we can use the images to obtain textures that will allow us to give visual content to those digital models of the terrain."*

These images will be reproduced on any type of digital device, and they also carry additional information.

**FRANCISCO JAVIER CARDENAL**  
Cartographic Engineering professor

*"We can integrate the 3D model that we are creating into a database, an information system where we can also introduce any type of information. Information that explains the geological history of the area, information that offers an explanation about a fossil that was found there, rupestrian"*

This inventory is composed of 87 points of interest that make Jaén one of the most interesting Andalusian provinces at a geological level. It includes from natural monuments to dinosaur footprints.

**PEDRO A. RUIZ**  
Ctr. Advanced Studies in Earth Sciences

*"We are going to tell them how things were formed, what are they made of, their composition..."*

**FRANCISCO JAVIER CARDENAL**  
Cartographic Engineering professor

*"An information system that allows the dissemination, spreading, of those elements of the heritage, but that can also be used by specialists to interchange data. On the other hand, this documentation can be useful for the protection of heritage itself."*

Tourism, teaching or research are some of the immediate applications of this project that will make the results of years of research available to the public.

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