FlyRADAR

FlyRadar Project Introduction

Gian Gabriele Ori
International Research School of Planetary Science
Ibn Battuta Centre, Marrakech

This project has received funding from the European Union's Horizon 2020 research and innovation programme under MSCA-RISE2020 grant agreement No 101007973

26/04/2023

FlyRadar

FlyRADAR

Low-frequency multi-mode (SAR and penetrating) radar onboard light-weight UAV for Earth and Planetary exploration

The Idea

The project deals with the production of a dual-mode, low-frequency, radar installed on board of a light-weight UAV. The radar will operate into two modes: as Synthetic Aperture Radar (SAR) and as ground penetrating radar. Both instruments provide extremely interesting images that are extensively used in Earth and planetary observations.

In 2016 we tested a dual-mode (SAR + penetrating Radar at the Ibn Battuta Centre in Erfoud, Moroccan Sahara

FlyRADAR

r in Dolomites
Pellegrino Pass)

The radar was built and operated by CORISTA (Naples)

FlyRADAR

The tests were succesful and I started to think to miniaturise the entire system and put it over a small electric drone

FlyRADAR

CORISTA and IRSPS obtained funding from Thales Alenia Space–Italia and then we organised a brillant team that has been funded by the Marie Sklodowska-Curie Research and Innovation Staff Exchange programme of Horizon 2020.

FlyRADAR

IRSPS srl

Csillagaszati es foldtudomanyi kutatokozpont

Centrum badan kosmicznych polskiej akademii nauk

Universite Lyon 1 Claude Bernard

CORISTA

Hyperion Seven

Università d'Annunzio

Contacts

- www.flyradarproject.eu
- Coordinator: Gian Gabriele Ori giangabriele.ori@unich.it
- Programme Manager: Tanja Di Iorio tania.diiorio@flyradarproject.eu)

Disclaimer: This presentation reflects only the author's view.

The Research Executive Agency (REA) is not responsible for any use that may be made of the information it contains

This project has received funding from the European Union's Horizon 2020 research and innovation programme under MSCA-RISE2020 grant agreement No 101007973

26/04/2023