CHAMELEON

A Holistic Approach to Sustainable, Digital EU Agriculture, Forestry, Livestock and Rural Development based on Reconfigurable Aerial Enablers and Edge Artificial Intelligence-on-Demand Systems

Newsletter

Welcome to the fifth edition of our CHAMELEON e-newsletter

In this e-newsletter, we present the latest advancements in our satellite and drone technology applications in rural development: agriculture, livestock and forestry.

This edition highlights recent participation in events and conferences attended by the CHAMELEON Consortium, the latest synergy activities with our Sister Projects, information on the Second Open Call, and sections of our website that are worth exploring for further insights.

Follow us for updates

We are delighted to have you here, whether you are a long-time follower or a new visitor!

To stay informed about the latest developments in the CHAMELEON project, we invite you to subscribe to our e-newsletter. Click **here to sign up** and ensure you never miss an update. Our newsletter delivers timely insights and opportunities to get involved in the project directly to your inbox.

In addition, we encourage you to connect with us on our social media channels. We look forward to having you with us every step of the way!

Workshops & Pilots

In CHAMELEON, end users are the core of our research.
In recent months, we have conducted several **workshops** with stakeholders, industry partners, relevant institutions and competent authorities.

Data collection is in progress across all project pilots.
To this end, the CHAMELEON UAV has been flown, equipped with various sensors to capture data for agriculture, livestock and forestry.

Conferences & Events

CHAMELEON participated in various **conferences and events** where the latest advancements of the project were disseminated. Some examples are:

V Conference of the Viticulture Group of SECH, held in Ourense (Spain).

Read more

INTERGEO Expo and Conference 2024, carried out in Frankfurt (Germany).
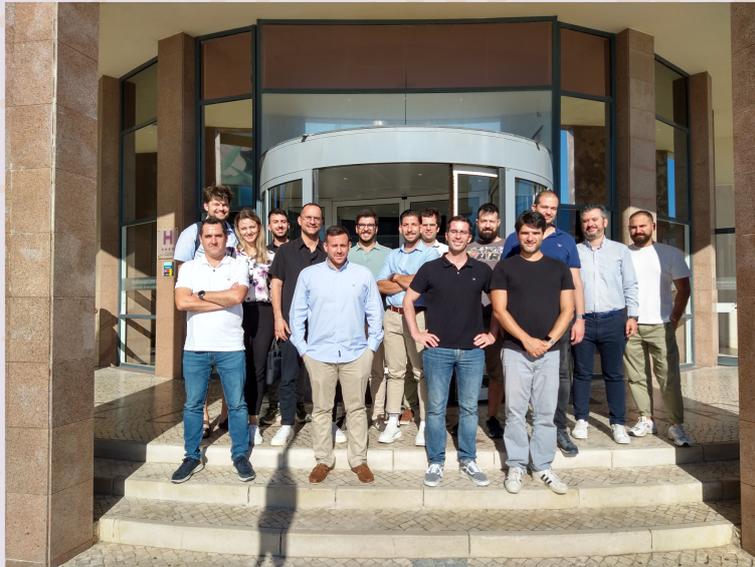
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UNVEX 2024, organized in Barcelona (Spain).

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As the CHAMELEON project approaches its conclusion, the Consortium partners have convened in person in Caparica (Portugal), and Ávila (Spain) to finalize key aspects.

Technical meeting in Caparica (Portugal).

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These meetings have provided a valuable opportunity to ensure alignment on critical points, including the status of the Pilot Use Cases, the progress of the Open Calls, and the deployment of bundles on the CHAMELEON server.

Plenary meeting in Ávila (Spain).

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Synergies

CHAMELEON, together with our Sister Projects ICAERUS and SPADE, published our **First Joint Newsletter** on July 2024.

In this edition, we presented the three projects that were funded under HORIZON - CL6-2021-01-21 in the category of "Potential of drones as multi-purpose vehicle".

Horizon Europe programme 2021
HE-CL6-2021-GOV-01 - *1st Joint Newsletter*

Meet the projects

CHAMELEON   Spade   ICAERUS

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Additionally, CHAMELEON, ICAERUS and SPADE participated in the **MDPI's webinar "Drones for Rural Development II"**.

In this webinar, key bundles were shown to a broad audience. These bundles include drone-based tools for detecting woody debris in rivers, assisting in livestock management, and monitoring crops.

Topics
2024 Webinars

Drones for Rural Development II
19 September 2024, 02:00 pm (CEST)

Drones, Remote Sensing, Geomatics, Land, IJGI

Chair
Prof. Dr. Diego González-Aguilera

Chair
Prof. Dr. Pablo Rodríguez-Gonzálvez

Speaker
Dr. David Sánchez-Jiménez

Speaker
Dr. Costas Davarakis

Speaker
Dr. Vasilis Psiroukis

Speaker
Esther Vera Moreno

MDPI

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CHAMELEON Open Calls

The sub-projects funded by the **CHAMELEON Second Open Call** have started.
These five sub-projects are validating CHAMELEON bundles in small-scale pilots.

Acronym	Title	Company	Topic	Bundle Code	Country
FIRECOM	Fire Propagation Risk Assessment and Compliance at Urban-Forest Interfaces	Axtron Systems, Lda	Forestry	BC1 – Vegetation monitoring and census BC3 – Continuity of vegetation BC4 – Characterization of Wildland-Urban interface	Portugal
VINESCALE	Advanced UAV Monitoring of Multi-Scale Mediterranean Vineyards	Agrobit SRL	Agriculture	BC8 – Crop growth and development monitoring BC9 – Vineyard water stress due to drought BC10 – Soil zonification	Italy
FIRE-AID	Forest Inspection for Fire Risk Evaluation with AI and Drones	AIDIA, MB	Forestry	BC3 – Continuity of vegetation BC4 – Characterization of Wildland-Urban interface BC5 – Hot stop identification at the beginning of wildfire BC10 – Soil zonification	Lithuania
ENVISION	Environmental and Vegetation Insights through UAV Surveillance for Innovative Optimization	ILINK NEES TEXNOLOGIES OE	Forestry	BC1 – Vegetation monitoring and census BC3 – Continuity of vegetation BC7 – Health status of vegetation (mainly bark beetle), game browsing, ground cover and fungal growth	Greece
ESSENSE	Esca Surveillance and Sensing in Serbian Vineyards	Veles Sense doo	Agriculture	BC8 – Crop growth and development monitoring	Serbia

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Videos

Watch our videos in the **Videos section** of our website.

In this section, you will find the most relevant audiovisual content about the project: interviews with the Consortium partners, informative videos on the project and the Open Calls, webinars in MDPI, data acquisition, geomatics content, and much more.

Read more

Scientific Papers

Visit the **Scientific Papers** section of our website.

Here you can access publications produced within the framework of the project, showcasing the latest advancements and key findings.

drones

an Open Access Journal by MDPI

A Novel Drone Design Based on a Reconfigurable Unmanned Aerial Vehicle for Wildfire Management

Dimitris Perikleous; George Koustas; Spyros Velanas; Katerina Margariti; Pantelis Velanas; Diego Gonzalez-Aguilera

Drones **2024**, Volume 8, Issue 5, 203

Read more

Consortium

ACCELIGENCE

adrestia
Equilibrium in Research & Development

A!DEAS

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