



Experimental stratospheric surveillance system flight from the Aeropole Antoine de Saint-Exupéry at Jonzac (Charente-Maritime, France)

ASMAN Technology, B2Space and INNOVIDEA are pleased to inform you about their proof of concept of FORESTS which is their joint semi-permanent modular surveillance solution integrated into a stratospheric balloon for environmental crisis management (fire, maritime pollution, natural disaster...).

Funded by UFO and supported by Aerospace Valley, FORESTS combines complementary know-how of three companies: long range communications and surveillance systems (ASMAN Technology), stratospheric platform (B2Space), advanced vision in several spectrums (INNOVIDEA).

The solution in development will fly at an altitude of about **20 km** with **several tens kg** payload and cover up to **200 000 km²** for a few weeks missions.

Main technical challenges met by the consortium are following:

- drift of the balloon over a given area
- sensors adapted to a mission at 20km altitude
- high-speed, long-range, secured, real-time transmission throughout the flight



UFO project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 873411

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About the FORESTS consortium:

ASMAN Technology is a French SME based in Nouvelle Aquitaine (France), which designs, develops, markets and operates light aerial monitoring and photogrammetry solutions for aircraft, helicopters, aerostat and drones. The offer is built around a modular mission system allowing to operate the onboard equipment, in real time, from the ground. ASMAN Technology also performs flight test services and aerial work missions.

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B2Space was founded in 2016 in UK with the purpose to provide a reliable, flexible and low cost access to Low Earth Orbit for small and micro satellites, democratize space access and facilitate the development of new technologies and uses of space; today, there are no companies that customize the small satellite market launching needs. Over time, new projects have emerged from this need and B2Space is using its knowledge to develop a new platform to perform Near Space missions & HAPS, among others.

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Innovidea is a French SME, specialized on innovation for environment, industry and health based upon photonic. It proposes solutions with infrared thermography or thermal Imaging cameras (SWIR, MWIR, LWIR), HDR or low noise CMOS cameras, advanced remote sensing measurement solutions for answering your need. Applications encompass amongst other welding and additive manufacturing, gas leak detection, lifescience and health, optical communication, environment...

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