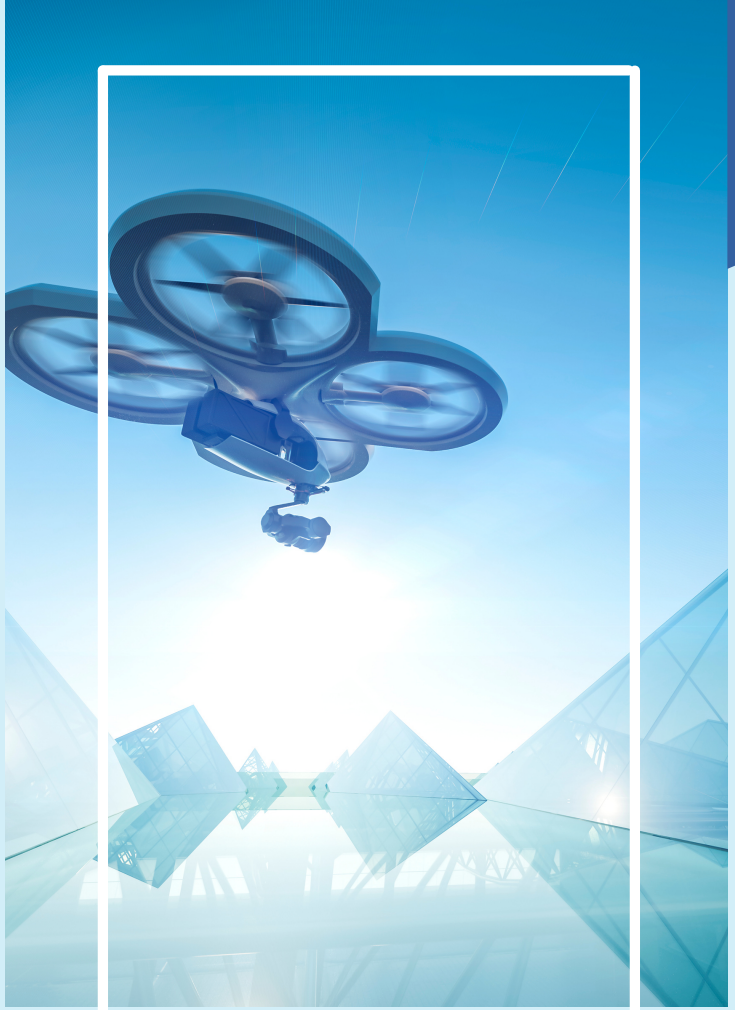

ADACORSA

MAKING DRONES SAFE AND VEHICLES FOR OBSERVATION, ANALYSIS, OR TRANSPORT IN BVLOS OPERATIONS.

ADACORSA is a EU funded project, that focuses on making drones safe and efficient vehicles for observation, analysis, or transport in BVLOS operations that would comply with legal and technical regulations, and high social expectations.

To achieve this, the project will focuses on five areas: drone avionics, security, infrastructure, social acceptance, legal and regulatory framework.

ADACORSA

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ECSEL JU

WHO WE ARE

Consortium: 50 Partners

Budget: 41,6 Mill. EUR

Work effort: 4564 PM

Structure: 8 WP and 10 SC

OUR FOCUS AREAS

Drone avionics

we are working on a drone's ability to sense its environment at a very high resolution. This ensures that drones can detect trees, branches, electric lines, and various other low-altitude occlusions, which significantly reduces the risk of collision, thus guaranteeing safe exploitation.

Security

We are building an open secure and reliable communication system for drones in a relative greenfield environment, that would reduce the possibility of hacking.

Infrastructure

before take-off drone needs to properly insert itself into the airspace by contacting and registering with relevant air traffic management systems and maintaining communication with ground stations and potentially other drones during the flight. Ensuring that proper infrastructure is in place will directly affect the safety of exploitation.

Legal and regulatory framework

the new regulatory framework is required for drones that can fly BVLOS. JARUS, the international Joint Authority for Rulemaking on Unmanned Systems, has been set up for this task. ADACORSA, in turn, will inform the development of these regulatory structures from a technical perspective with information on what is feasible and not cost-prohibitive.

FIRST FLYING DEMONSTRATORS AVAILABLE IN MAY 2022.