ASPRID

Airport System Protection From Intruding Drones

Drone intrusions at airports regularly hit the headlines and airports are taking measures in the short term to mitigate these, from grounding aircraft when drones are detected to reducing speed of aircraft on approach in order to limit damage in the event of a collision. Drones can therefore have significant impact on airport operations.

Project Data

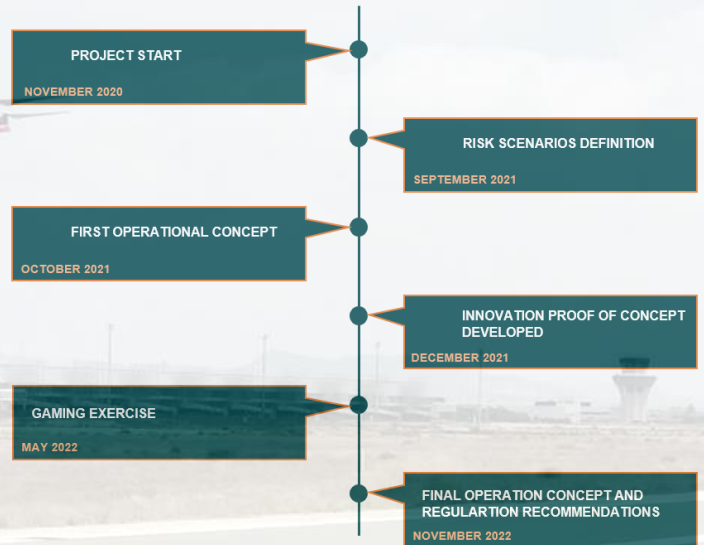|			
PROJECT ID 892036		**MAX GRANT AMOUNT** 1.235.195€	
COORDINATED BY INTA		**NUMBER OF PARTNERS** 7	
COUNTRIES INVOLVED 3		**EXPECTED DURATION** 25 Month	

Objectives

The aim of the project is to develop a service-oriented operational concept and system architecture to protect airport operations from unwanted drones.
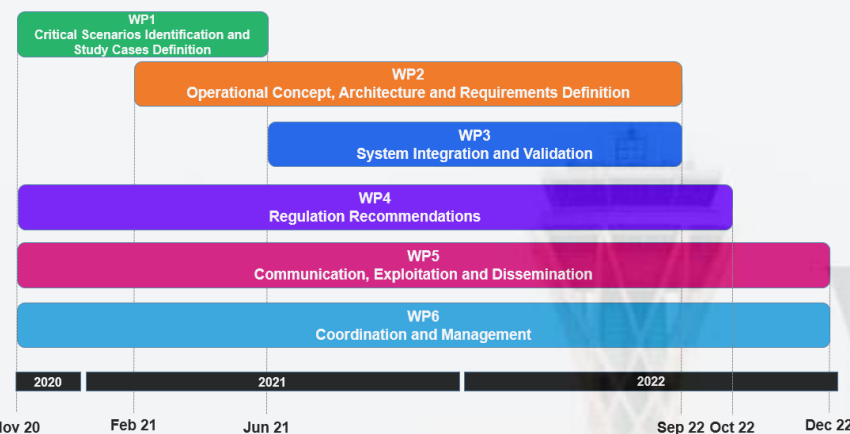
To do so, the project will analyze aircraft and airport operations to pinpoint possible vulnerabilities.

With this, the project aims to identify possible technologies, procedures and regulations that could help better safeguard against drone incursions and/or can help them recover from any disruptions as quickly and as efficiently as possible. In doing so, the project proposes a more integrated and coordinated approach to handling drone incursions.

Milestones

- **PROJECT START** — NOVEMBER 2020
- **RISK SCENARIOS DEFINITION** — SEPTEMBER 2021
- **FIRST OPERATIONAL CONCEPT** — OCTOBER 2021
- **INNOVATION PROOF OF CONCEPT DEVELOPED** — DECEMBER 2021
- **GAMING EXERCISE** — MAY 2022
- **FINAL OPERATION CONCEPT AND REGULARTION RECOMMENDATIONS** — NOVEMBER 2022

Work Packages

- **WP1** Critical Scenarios Identification and Study Cases Definition
- **WP2** Operational Concept, Architecture and Requirements Definition
- **WP3** System Integration and Validation
- **WP4** Regulation Recommendations
- **WP5** Communication, Exploitation and Dissemination
- **WP6** Coordination and Management

2020	2021	2022
Nov 20	Feb 21 Jun 21	Sep 22 Oct 22 Dec 22

Impact

- **Airport operational costs of disruption by non authorized drone intrusion decrease**
- **Counter-UAS & next U-Space regulation recommendations**
- **Environmental and economic impacts expanding the use of drones**
- **Airport Operations Safety awareness increase**

PARTNERS

aena

ALI Aerospace Laboratory for Innovative components S.c.a r.l.

CIRA — Centro Italiano Ricerche Aerospaziali

ENAIRE

GOBIERNO DE ESPAÑA — MINISTERIO DE DEFENSA — INTA — INSTITUTO NACIONAL DE TÉCNICA AEROESPACIAL

ONERA THE FRENCH AEROSPACE LAB

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