U-AGREE

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SOLUTION

U-AGREE aims to develop risk models linking the operations of unmanned aircraft systems (UAS), the hazards they are exposed to, and their effects in terms of severity and probability. Based on those models, the project assesses how U-space services could mitigate such effects, supporting the airspace risk assessment required by European Regulation and leading to swifter specific category operation approval processes enabled by digital tools.

UAS flights in selected scenarios

Hazard identification

Development of risk models

Mitigation through U-space services

KEY FINDINGS

Fast-time simulations in Benidorm (Spain), Manduria (Italy) and Shannon–Limerick (Ireland) show how U-space services turn a near-empty sky into a safe, shared one.

≈ 1

drone at a time can fly safely with no U-space services

–99.9%

near mid-air collision risk with Flight Authorisation Service

up to 45

simultaneous drones in Shannon–Limerick

0

protected-area infringements with geozones

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Co-funded by the European Union

This project has received funding from the SESAR Joint Undertaking under the Horizon Europe research and innovation programme under grant agreement No 101167187.

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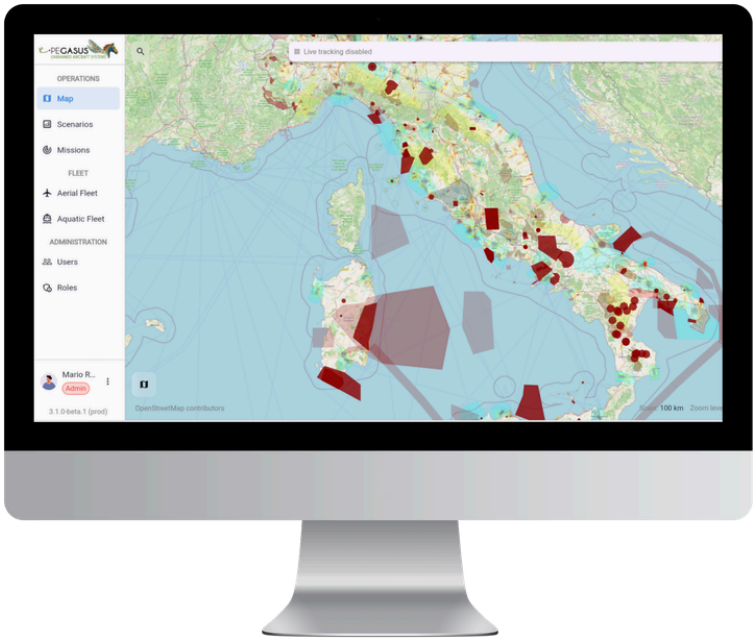
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THE VALIDATION LEADER: ENGAGE SRL

ENGAGE coordinates the validation of the U-AGREE risk models and U-space service-based mitigations, with the collaboration of Cranfield University, Universitat Politècnica de València, Collins and DLR. Alongside the UPV and Cranfield simulators, its PEGASUS simulator tests them in realistic operational environments, driven by measurable KPIs.

FAST-TIME SIMULATOR BY ENGAGE



Runs in any browser, no installation. Users are notified when results are ready.

Thousands of drone flights, real airspace and manned traffic from ADS-B data.

Every run is driven by KPIs, so outputs are reliable, comparable and verifiable.

Quantifies how each service reduces risk and increases capacity in the chosen scenarios.

More info at www.engagesrl.eu.

PARTNERS

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