



GROUND RISK



Depends on the operational area and timing, as a location may vary from empty to crowded within short periods.

AIR RISK



Refers to potential mid-air collisions between UAS, manned aircraft, or wildlife-events that may also cause ground impact due to system failures or human error.

ENVIRONMENTAL RISK



UAS may raise concerns about visual impact, emissions, and noise, yet they can also reduce congestion and support long-term sustainability through more efficient operations.

SECURITY & PRIVACY



UAS face risks from cyberattacks, misuse, and data protection breaches due to onboard sensors and cameras.

RISKS FOR DRONE OPERATIONS



U-AGREE is developing an integrated risk model that enables UAS to safely take flight while protecting people, privacy, infrastructure, and the environment. The model is built on a robust and streamlined methodology, following these key steps:

01

Identification of realistic UAS operation scenarios and their potential safety, security, privacy, and environmental hazards.

02

Collaboration with stakeholders to define metrics and thresholds for assessing risks from identified hazards.

03

Development of mathematical models to link hazards to their effects, define mitigation barriers, and quantify their risk reduction effectiveness.

04

Test of the model's effectiveness by applying it to previously identified scenarios.

OUTCOME



No negative
impact on
environment



Additional
system
capacity



New services
for European
citizens



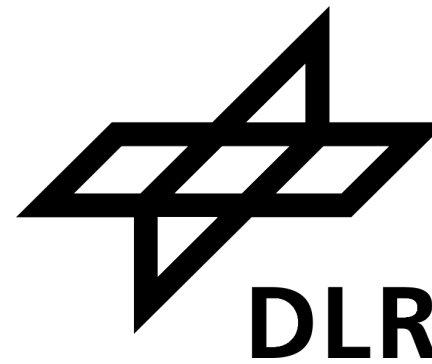
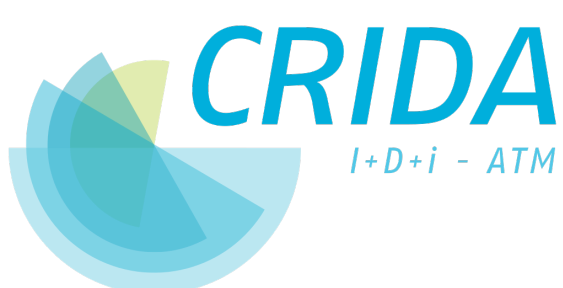
Maintenance
of the safety
standards



Maintenance
of the security
standards



Cost reduction
of the UAS
operation



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