

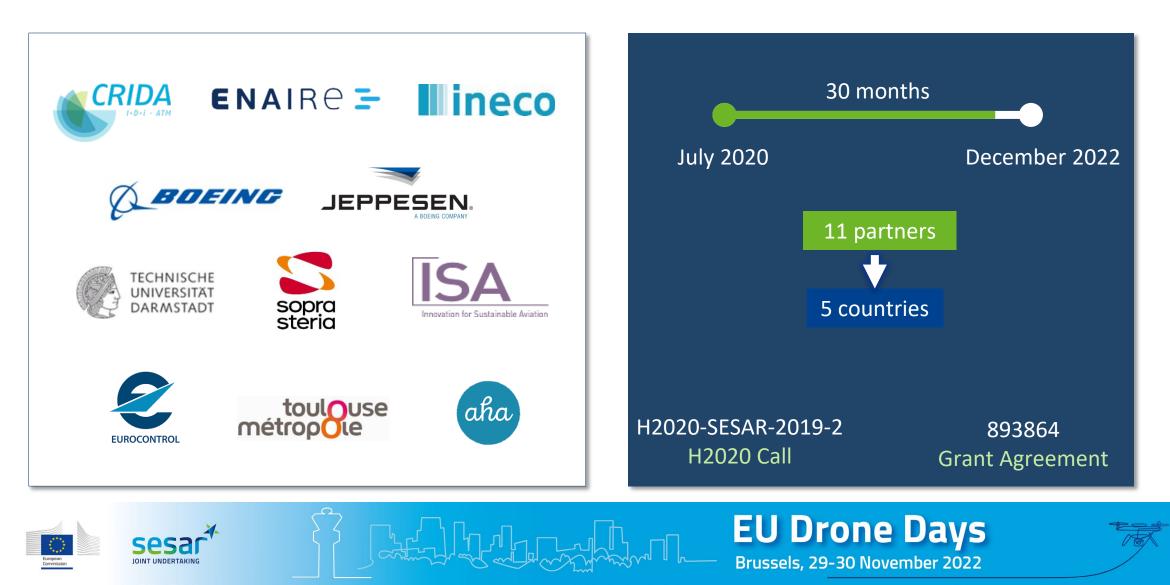


EUDTONE Days Launch of the European Drone Strategy 2.0 SESAR U-space Showcase Brussels, 29-30 November 2022

#EUDroneDays



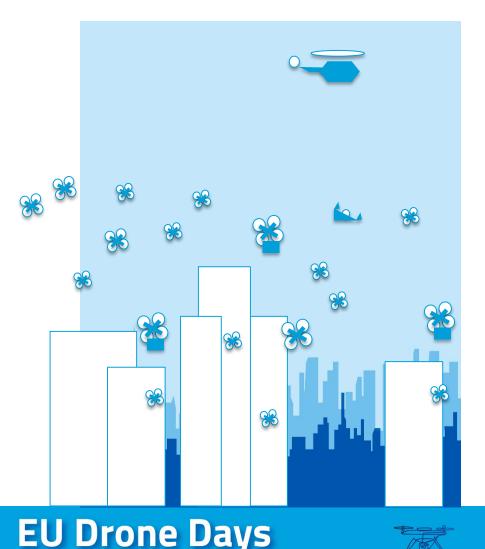
Partners



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Objectives

- U3 Dynamic Capacity Management service for urban environments and its integration in the U-space services ecosystem.
 - 1. U-space capacity associated to the air and ground risk.
 - 2. U-space capacity associated to the social impact.
 - 3. UAV flight plan to support the determination of the demand and its uncertainty.
 - 4. Mitigation measures in case of demand & capacity imbalances in U-space.

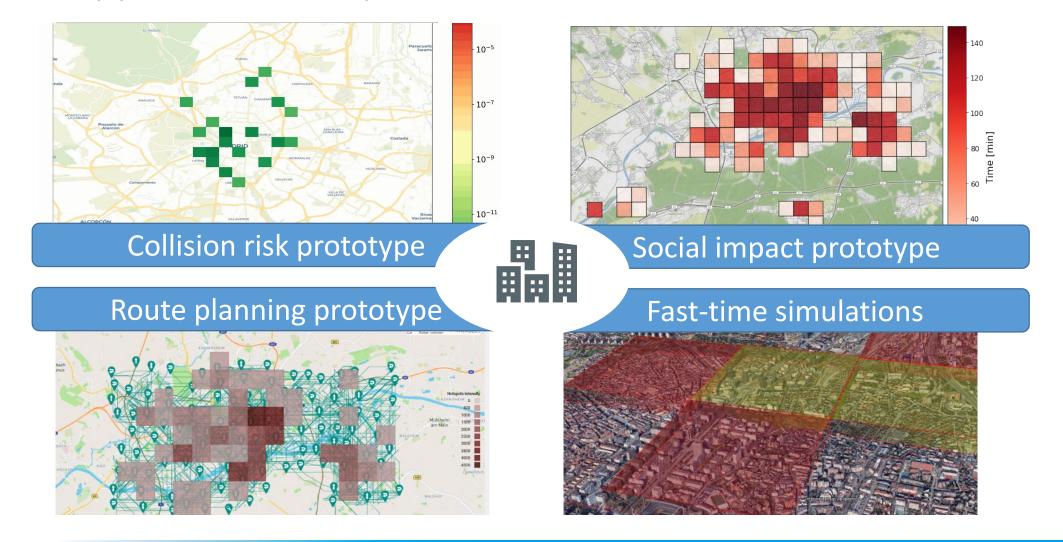


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Prototypes and experiments







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Results

- Collision Risk quantifies capacity by calculating air risk and ground risk over the population associated to drone failures or collisions.
- **2. Social Impact** identifies areas where demand exceeds capacity associated to noise exposure and visual annoyance over the population.
- **3.** *Route planning* quantifies how uncertainties due to departure time, weather and contingencies impact on the identification of imbalances.
- 4. Effectiveness of mitigation measures to solve imbalances according to their impact on U-space indicators defined by SESAR.



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