



EU Drone Days

Launch of the European Drone Strategy 2.0

SESAR U-space Showcase

Brussels, 29-30 November 2022





The partners







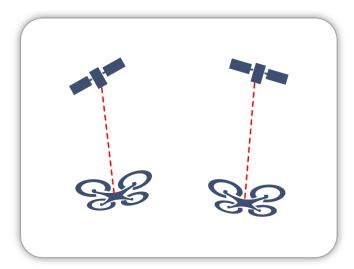








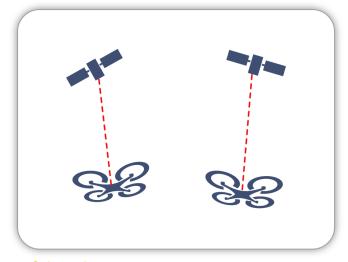
ICARUS Objectives



Objective #1

UAS-UAS: Common reference at VLL

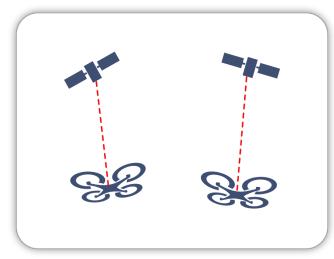
Define the technical requirements for high accuracy GNSS-based altitude measurement for drones, allowing a reliable and accurate common vertical reference (UAS-UAS)



Objective #2

UAS-Ground: Obstacle awareness

Investigate the vertical accuracy and resolutions achievable by the actual DTM/DSM services for ground obstacle and terrain profile, with respect to the geodetic WGS-84 datum



Objective #3

UAS-Manned: Common reference

Design a tailored U-space service for altitude translation between geometric to barometric altitude for UAS and manned aircrafts







Results

- We have defined, prototyped and validated the ICARUS concept
- The ISO 3629-12 UAS traffic management (UTM) Part 12: Requirements for UTM service providers document, published in July 2022 (the same month ICARUS ended) includes the three key U-space services introduced by ICARUS:
 - RGIS: Real-time Geospatial Information Service (RGIS)
 - VCS: Vertical Conversion Service (VCS)
 - VALS: Vertical Alert Service (VALS)











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