



DRONES SOLUTIONS

T-DROMES

INTEGRATED SOLUTION FOR DRONES

T-DROMES is a turn-key solution for Unmanned Aircraft Systems (UAS) fleet and mission management providing up to info product generation in BVLOS/BRLOS flights.

T-DROMES is a “Drone as a Service” (DaaS) solution that, through an integrated approach, covers the design, planning, management, execution activities and Data Exploitation of Unmanned Aircraft Systems (UAS) complex missions for heterogenous operations and specific operative scenarios.

T-DROMES allows the end user to access to drones advantages, solving the issue to manage the overall complex safety and regulatory workflow aspects .

Thanks to T-DROMES, is possible to manage drone fleets belonging to several drone operators.

PLANNING

- **Mission Design Optimization** Module



EXECUTION & MONITORING

- **Mission & Fleet** manager
- **Connectivity** Box (SAT/LTE)
- **Augmentation & Tracking**
- **Fucino Space Center**
- **Hangar** management



DATA EXPLOITATION

- **AI Algorithms & End User I/F**
- **Mobile** App
- **Video** streaming



MAIN FEATURES



End to end solution, with high modular architecture to be purchased:

- A digital platform to support all the phases of the value chain: mission design and authorization support, flight planning and monitoring, info-product generation for end-user data access;
- Procedures and operations, to manage the overall workflow of the mission: from user requests up to data exploitation;
- Flexible SW tools and HW payloads to federate and interface different drones and to interface with the UTM\U-SPACE Service Providers.

ENABLERS

GNSS AUGMENTATION TOOLKIT

A cloud based service providing augmented positions by an improvement on the accuracy and, most importantly, enriched with the integrity information.

The GNSS integrity data give to the user the situation awareness on the status of GNSS. This is useful to enhance the safety in critical operations such as in BVLOS and BRLOS cases, when a precise and trusted drone position is crucial.

PROPRIETARY COM-BOX TPZ-AIR100

The hybrid device developed by Telespazio that enables a reliable and safe command and control of the drone in BRLOS thanks to the redundant communication channels (satellite and terrestrial).

The device has an embedded computing module that allows the end user to run customized applications enhancing the mission value.

TPZ-Air100, thanks to the global satellite network provided by Iridium, allows BRLOS flight, extending the mission flexibility and safety.

FUCINO SPACE CENTER

The heart of Telespazio’s cloud services, Fucino Space Center, is a critical national infrastructure to securely guarantee application services via dashboard or APIs for end users. Telespazio proposition sees the integrated usage of all products and assets on T-DROMES, demonstrating the feasibility to manage remotely the entire life cycle of a BVLOS and BRLOS flight , ensuring safe and reliable operations.

GEOSPACIAL DATA INTEGRATION

Telespazio Group can provide worldwide commercial EO Data through Distribution Agreements with all major Satellite Data Providers on the Market. Thanks to Data processing capabilities DTM (Digital Terrain Model) maps can be processed and used in T-DROMES solution.

DATA EXPLOITATION

Artificial Intelligence Algorithms for etherogeneous multi mission: Datura, Automatic control of water issue, through Hydric Stress Evaluation, considering Weather Forecast, Temperature ground Sensor information.

For more information please email:
tdromes@telespazio.com