



its

THE  
CONVERSATION  
CONTINUES

# COMP4DRONES



indra



# COMP4DRONES

October 2019

September 2022



49

Partners



indra

Project  
Coordinator



Technical  
Coordinator

29.76M€

Budget



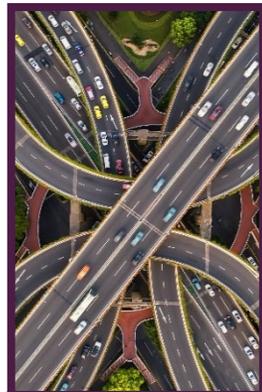
**ECSEL Joint Undertaking**

Electronic Components and Systems for European Leadership



# Five relevant societal domains

Components, tools and technologies developed in WP3-WP6 will be integrated, tested, validated and assessed in 5 domains and 11 demonstrators in WP1



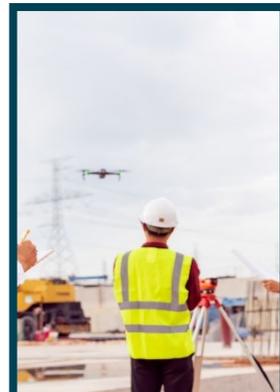
## Transport

Road transport

Port operations

Monitoring  
Railway

Drones for optimization of transport control, operation and infrastructure management



## Construction

Digitalization civil inf.

Underground inf.

Drones for virtual design, construction and operation of transport infrastructures



## Logistics

Hard-to-access areas

Hospital 5G

Logistics using heterogeneous drone fleets



## Surveillance & Inspection

Offshore turbines

Fleet multi robot

Drone and wheeled robotic systems for inspection, surveillance and rescue operations



## Agriculture

Crop monitoring

Wine production

Smart precision agriculture: from drone to rover

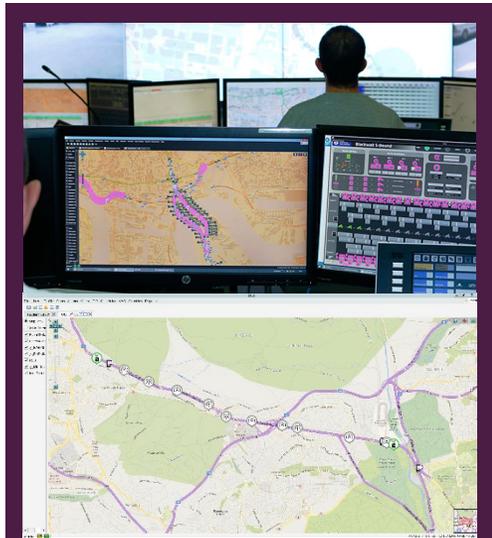
# Transport Use Case

In this Use Case the drones will be used as novel monitoring devices for the road traffic and infrastructure conditions, enabling a faster detection and early response to incidents.



# Drones – Traffic Management

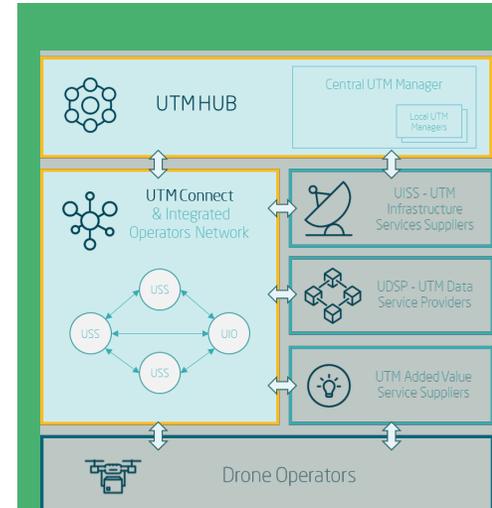
This demonstrator will focus on the deployment of drones as monitoring devices of the road traffic conditions and the detection and early response to incidents. The drone facilities will incorporate capabilities to request a drone's flight over an area of the infrastructure identified by its operators.



Traffic Control Center  
*HORUS*



Drone  
*Mantis & Others*



UTM  
*Air Drones*



**Rozas Aerodrome**

These first developments and tests will be deployed at the Rozas Aerodrome in Lugo (Spain), which is part of the Civil UAVs Initiative, a project of Xunta de Galicia.

# Drones – Traffic Management

