



Framework of Key Enabling Technologies for Safe and Autonomous Drones

COMP4DRONES will provide a framework of key enabling technologies for safe and autonomous drones. It brings to bear a holistically designed ecosystem from application to electronic components, realized as a tightly integrated multi-vendor and compositional UAV embedded architecture solution and a tool chain complementing the compositional architecture principles.

Five main objectives:

Easing the integration and customization of drone **embedded systems**

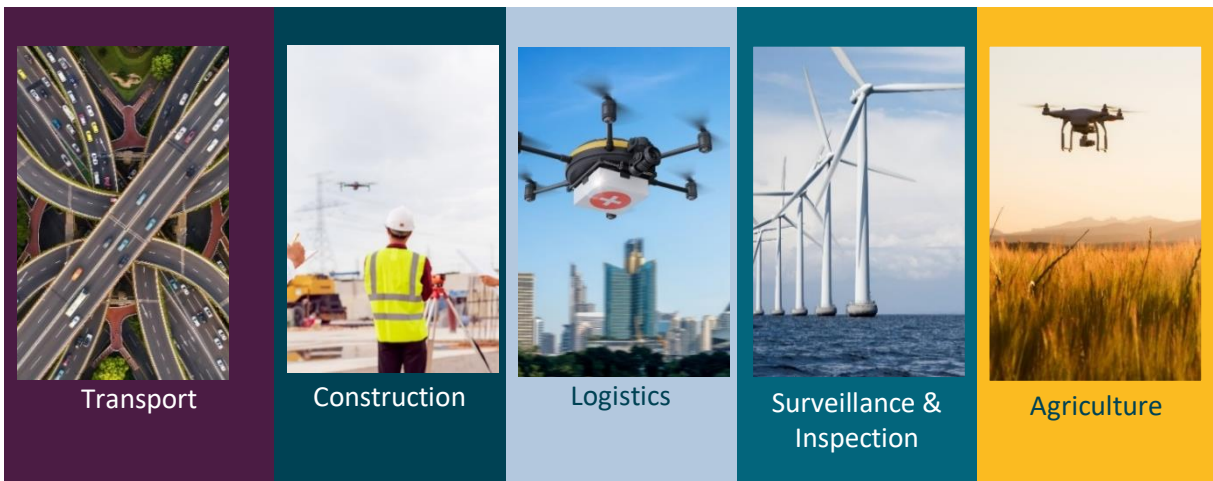
Enabling drones to take **safe autonomous decisions**

Ensure the deployment of **trusted communications**

Minimizing the **design and verification** efforts for complex drone applications

Ensuring **sustainable impact** by creating of an industry-driven community

Five relevant societal use cases:



Drones for optimization of transport control, operation and infrastructure management

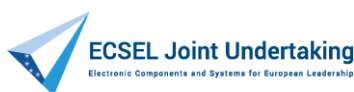
Drones for virtual design, construction and operation of transport infrastructures

Logistics using heterogeneous drone fleets

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

Smart precision agriculture: Targeted spraying fertilization and irrigation - from drone to rover

-  <https://www.comp4drones.eu/>
-  https://twitter.com/ECSEL_C4D
-  <https://www.youtube.com/channel/UCUH27siIF7ECC7lcH9gCRSA>



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Start	Duration
1.October 2019	36

Total Investment
€M 29.76

Partners
50 industrial, SME, academic and research partners from 8 different countries