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:

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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:
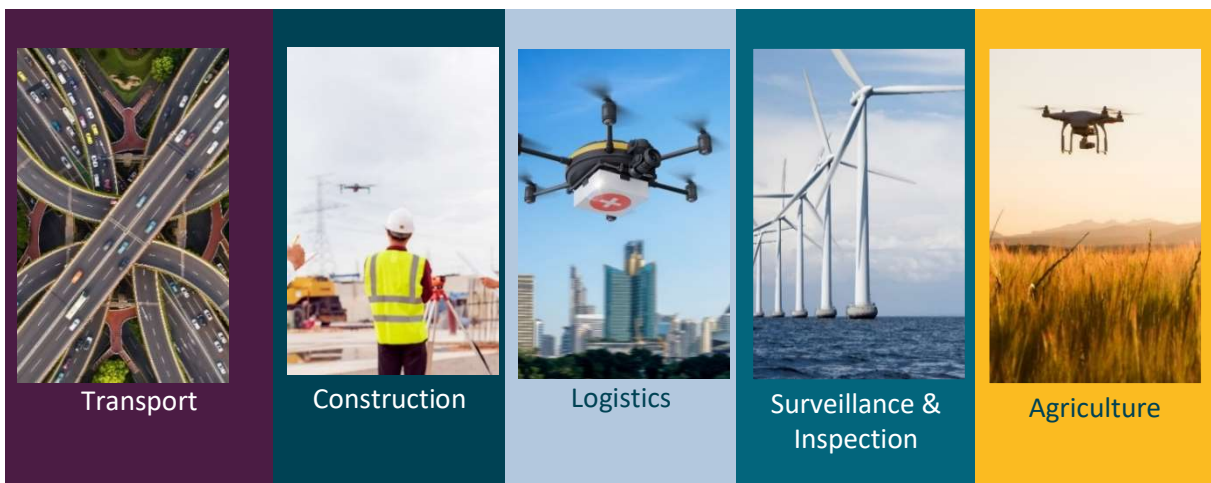
Transport	Construction	Logistics	Surveillance & Inspection	Agriculture
Drones for optimization of transport control, operation and infrastructure management	Drones for virtual design, construction and operation of transport infrastructures	Logistics using heterogeneous drone fleets	Drone and wheeled 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/UCUH27sjlF7ECC7lcH9gCRSA
https://www.facebook.com/Comp4Drones-618870145620479/

ECSEL Joint Undertaking
Electronic Components and Systems for European Leadership

European Commission

Horizon 2020
European Union funding
for Research & Innovation

Project Coordinator
Mauro Gil
INDRA SISTEMAS SA

Start
1.October 2019

Duration
36

Total Investment
€M 29.76

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