

Digital Tech I-FLY



Enabling an effective UAV-as-a-Service Market

I-FLY provides a marketplace of innovative AI and Computer Vision services for detection and monitoring of multiple types of Critical Infrastructures which can be deployed on UAV's, Cloud or Edge devices for real-time processing of videos

The inspection of Critical Infrastructures is of paramount importance to guarantee the correct functioning of equipment, operations and supply of services to citizens. Even though drones are everyday more common as an alternative for traditional inspection operations made by foot or car, these devices present some challenges related to bandwidth, connectivity, and capabilities for processing and analyzing automatically the images and footage collected.

For this purpose, I-FLY goes a step further to provide both, drone service providers and owners/operators of Critical Infrastructures, a robust and user-friendly platform where different IT services are offered such as AI and Computer Vision algorithms for detection of incidents. In an easy way, these stakeholders can acquire and deploy the services selected either on the drone, the cloud, or Edge devices and experiment the benefits of optimized inspection operations with real-time data processing and generation of alarms whenever an incident is detected.

Competitive Advantages

- Wide variety of IT services and algorithms for specific use cases
- Easy and fast deploy of services on the drone, cloud or edge
- Contract and use services when needed for a specific period

Target Markets

- Drone service providers in Spain
- Critical Infrastructure owners/operators in Spain
- Providers of specialized IT services for drones and inspection such as AI algorithms and models

Status/Traction

- Pilot in 2020 with an important Critical Infrastructure operator in Spain

Partners:

- Atos Spain: Business champion responsible for the front- and back-end of the platform, provider of specialized IT services.
- Fondazione Bruno Kessler (FBK): Technology provider responsible for the deployment of IT services over distributed environments and data management.
- Ferrovial: End-user responsible for specifications for the pilot.

Road Map

2020

- Sale of specific services such as 3D cloud image creation, terrain overflight, anomaly detection, data fusion for alerts and others.

2021

- Integrate new services from 3rd party providers, scale-up to new applications and regions outside of Spain

Leveraged Technologies

I-FLY will leverage the existing EIT Digital E-FLY project. E-FLY combines distributed (UAV, Edge and Cloud) AI-enabled image processing for detection of incidents in gas pipeline infrastructures. I-FLY generalizes E-FLY results by providing beyond state-of-the-art tools. Key differentiators of the I-FLY solution is the deployment automatization through user friendly marketplace, by-design use of Edge computing to enable timely data analytics as well as smooth integration into IT-systems.

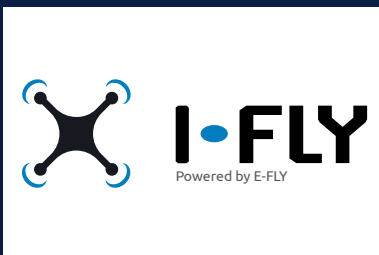
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EIT Digital supports entrepreneurial teams from research and business organisations in launching new startups and new products in agile 12-month projects called innovation activities. These activities are embedded in EIT Digital's European ecosystem and receive a financial co-investment to package their technology, sign up customers and attract investors.