certiflight

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Certified E-GNSS remote tracking of drone and aircraft flights

Granting Authority:

EUSPA European Union Agency for the Space Programme

Funded by the European Union

This project has been funded by the European Union. However, the views and opinions expressed are those of the Certiflight consortium only and do not necessarily reflect those of the European Union or EUSPA, the European Union Agency for the Space Programme (the "granting authority"). Neither the European Union nor the granting authority can be held responsible for them.

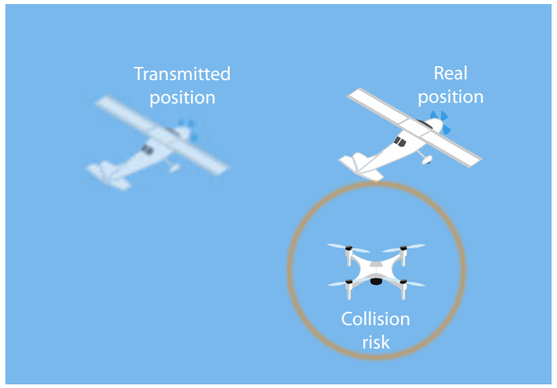
Why Certiflight?

Currently there is no system capable of reliably ensuring the position and flight path information of UAS and general aviation aircraft with legal validity.

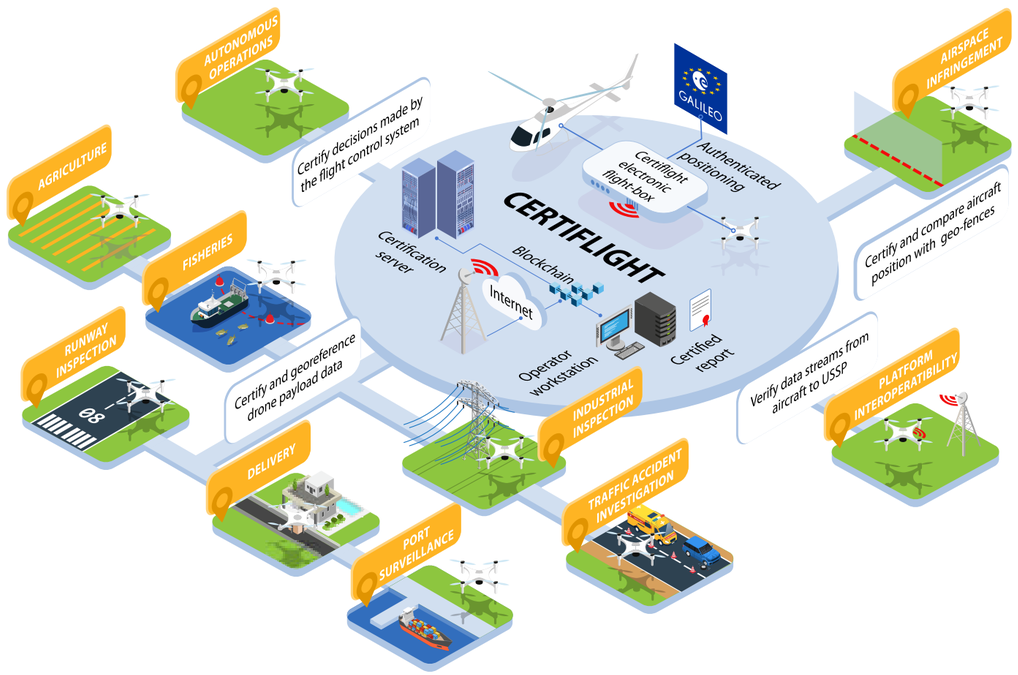
There is a rising number of drones accessing airspace below 120 metres to perform increasingly complex operations and flying alongside manned aviation.

The European Union requires that manned aircraft flying in designated airspaces, called U-space, have to detect nearby drones, and be detected by them. This is called electronic conspicuity.

In Beyond Visual Line of Sight operations, drone pilots can only rely on the position transmitted by other users.



Certiflight concept

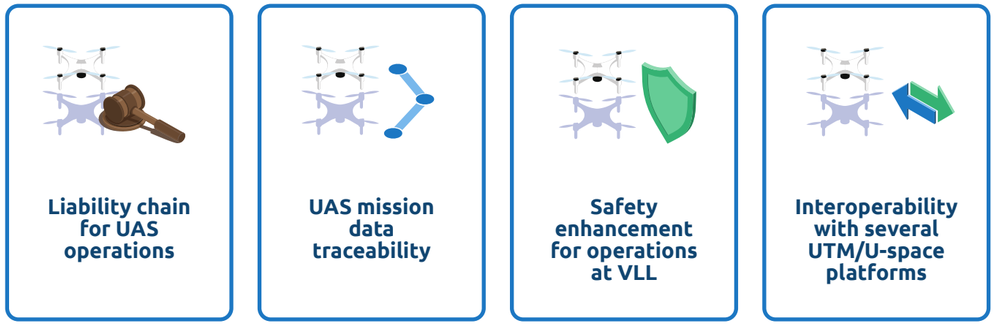


Project benefits

The Certiflight system will establish the"chain of trust" of flight position information of drones and general aviation aircraft

Certiflight will also legitimise the use of “smart contracts”, by activating the contractual condition on the basis of particular flight routes and performance

- Certiflight stores flight tracks in a dedicated blockchain ensuring that nobody can change data after it is stored.
- Three U-space service providers will test certiflight, guaranteeing the interoperability of the system.
- The recorded flight tracks, with associated images and data gathered by the sensors on-board, will be useful for many applications.



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