



CASE STUDY

Skyguide & AirMap Partner to Develop Europe's First National Drone Traffic Management System

Skyguide, the Swiss air navigation service provider, and AirMap, the leading global airspace management platform for drones, have joined forces to develop a national drone traffic management system for Switzerland. The system will be the first national deployment of U-space, Europe's vision for the digital infrastructure that will support safe and secure access to European skies for millions of drones.

A Roadmap for Unmanned Flight in Switzerland

In a pilot phase starting in June 2018, skyguide and AirMap will integrate the AirMap UTM (UAS Traffic Management) platform with skyguide's infrastructure and introduce automated flight authorization in a single airspace environment.

Skyguide and AirMap will also work together to develop a roadmap for Swiss U-space that will set the stage for the deployment of a fully operational drone traffic management system in 2019 and beyond.

This integrated airspace infrastructure will support the commercial drone economy at scale through AirMap UTM and the Microsoft Azure cloud computing platform.

Features of Swiss U-space:

- Blockchain-based registration for users and drones
- Dynamic geofencing and instant digital airspace authorization
- Real-time traffic alerts for drone pilots and live drone telemetry for airspace managers
- Connectivity and communication between drone pilots and airspace administrators
- Other services to enable simultaneous flights in shared airspace

Accelerating Switzerland's Drone Economy

Swiss U-space will be a powerful catalyst for Switzerland's drone economy. Since 2013, drone flight requests at skyguide have multiplied tenfold. Switzerland is already home to a thriving community of drone companies and the world's first autonomous drone delivery network, located in Zürich. Swiss U-space will support this innovation ecosystem and ensure that the skies are safer for all.

Investing in Innovation

The partnership follows the success of skyguide's 2017 Swiss U-space trial, the first live demonstration of sophisticated U-space services in Europe. Together, skyguide, AirMap, and SITAONAIR exhibited fully operational U-space capabilities - including registration and identification, geofencing, and flight authorization - during live drone missions performed by senseFly and PX4 in Geneva.

Powered by AirMap UTM

AirMap UTM is the leading platform of airspace services for UAS Traffic Management. AirMap UTM offers up-to-date airspace information for every country in the world, national airspace rules for more than 20 countries, and a robust network that reaches thousands of the world's drones. With deployments in Switzerland, Japan, the Czech Republic, and the United States, AirMap UTM is the most comprehensive and connected platform of its kind.

U-SPACE WILL UTILIZE THE FOLLOWING AIRMAP UTM COMPONENTS:

Registry Engine

Ability to authenticate and verify pilots and aircraft

Geo Engine

Ability to publish airspace rules and advisories directly to drone operators

Flight Engine

Ability to communicate with drone operators with notification and digital authorization capabilities

Traffic Engine

Ability to coordinate real-time air traffic deconfliction with live drone telemetry and real-time traffic alerts for drone operators

For more information, please contact sales@airmap.com.

