



canso

Africa Conference 2018

3-5 September, Mombasa, Kenya



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HOST



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ALTITUDE
— ANGEL —



CANSO Africa Safety Workshop

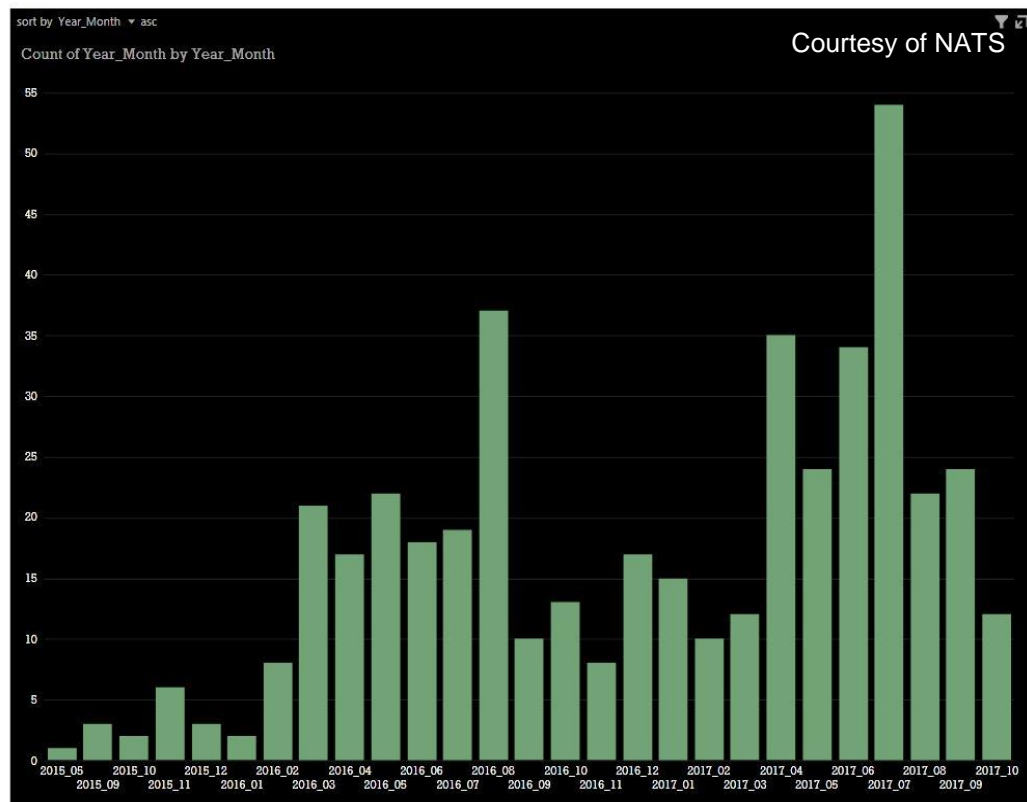
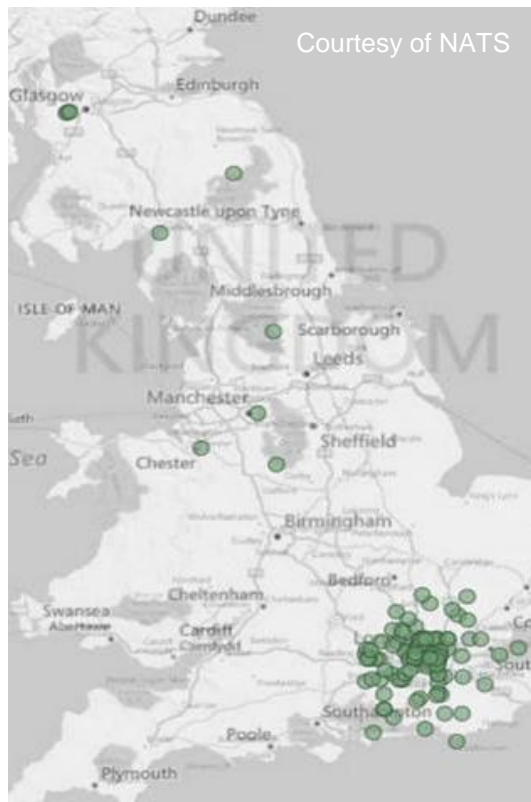
Philip Binks

Head of ATM at Altitude Angel

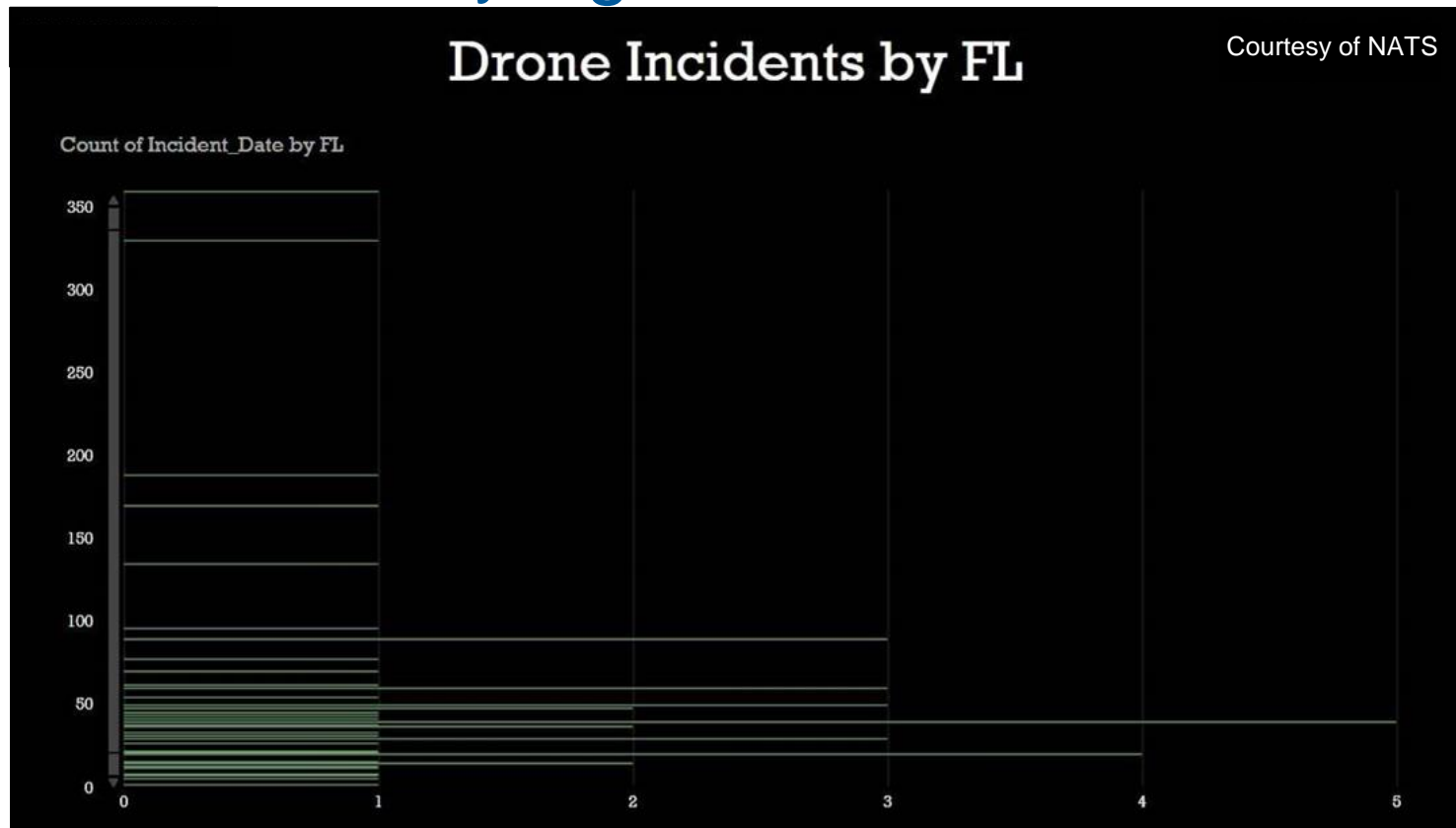
Content slide

- Introduction
- Issues facing the UK
 - Reality for UK Airspace
 - Drone incidents
- UK's approach
 - education
 - drone code
 - safety app – Drone Assist (supported by Guardian)
- How Altitude Angel supports NATS
- UK Based Projects

The reality for UK airspace today



Drone incidents by flight level



NATS Gatwick drone incident

<https://www.youtube.com/watch?v=V0rFFZ332k>




UK's approach

Drone Code

- Simple set of rules
- Allows the user to see in 6 pictures what they can and can't do
- www.dronesafe.com

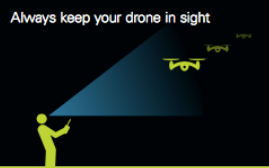
THE DRONE CODE

For further information please visit dronesafe.uk



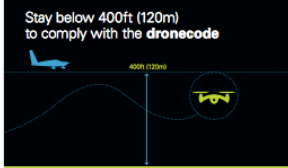
BE DRONE SAFE

Always keep your drone in sight



This means you can **see** and **avoid** other things while flying


Stay below 400ft (120m) to comply with the **dronecode**



This reduces the likelihood of a **conflict** with manned aircraft

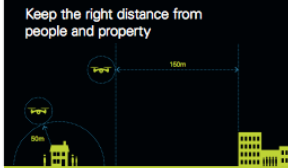
BE DRONE AWARE

Every time you fly your drone you must follow the manufacturer's instructions



Keep your drone, and the people around you, **safe**


Keep the right distance from people and property



People and properties – **150ft (50m)**
Crowds and built up areas – **500ft (150m)** and **don't overfly**


BE DRONE LEGAL

You are responsible for each flight



Legal responsibility lies with **you**
Failure to fly responsibly could result in **criminal prosecution**

Stay well away from aircraft, airports and airfields



If your drone endangers the safety of an aircraft, it is a **criminal offence** and you could go to prison for five years

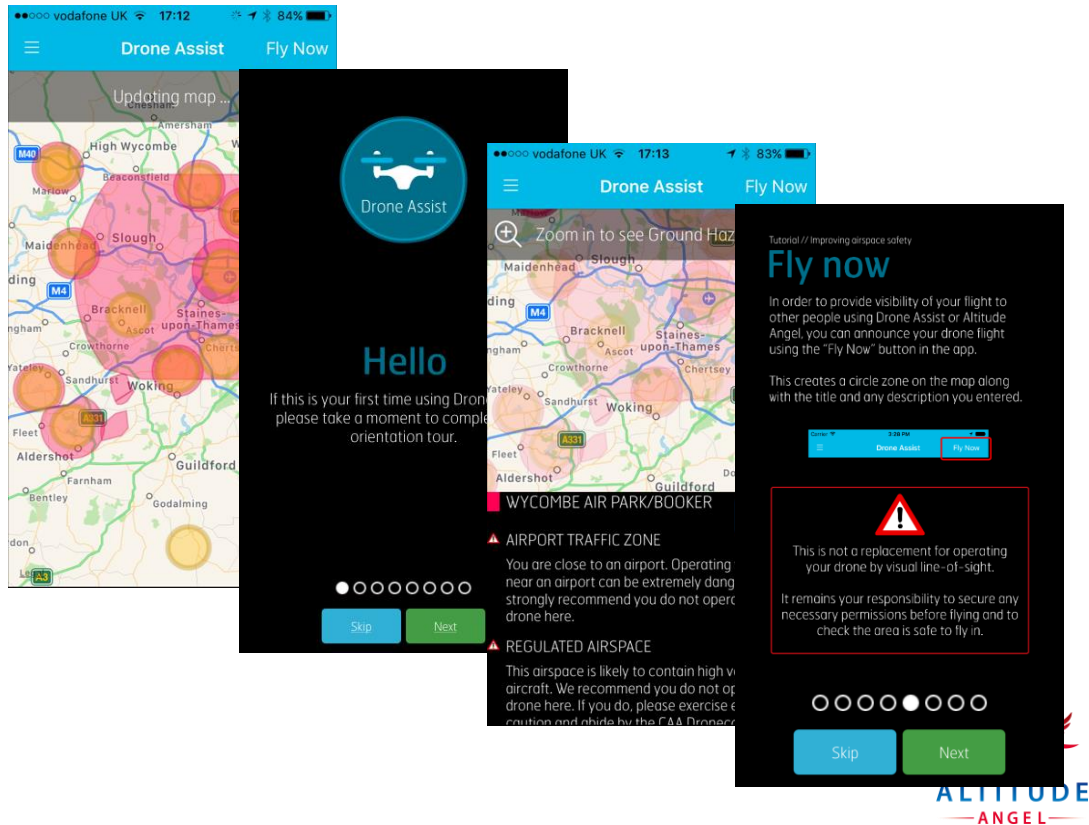
Drone Safe

- Set up by NATS, maintained by CAA
- Single point of truth
- Easy to understand



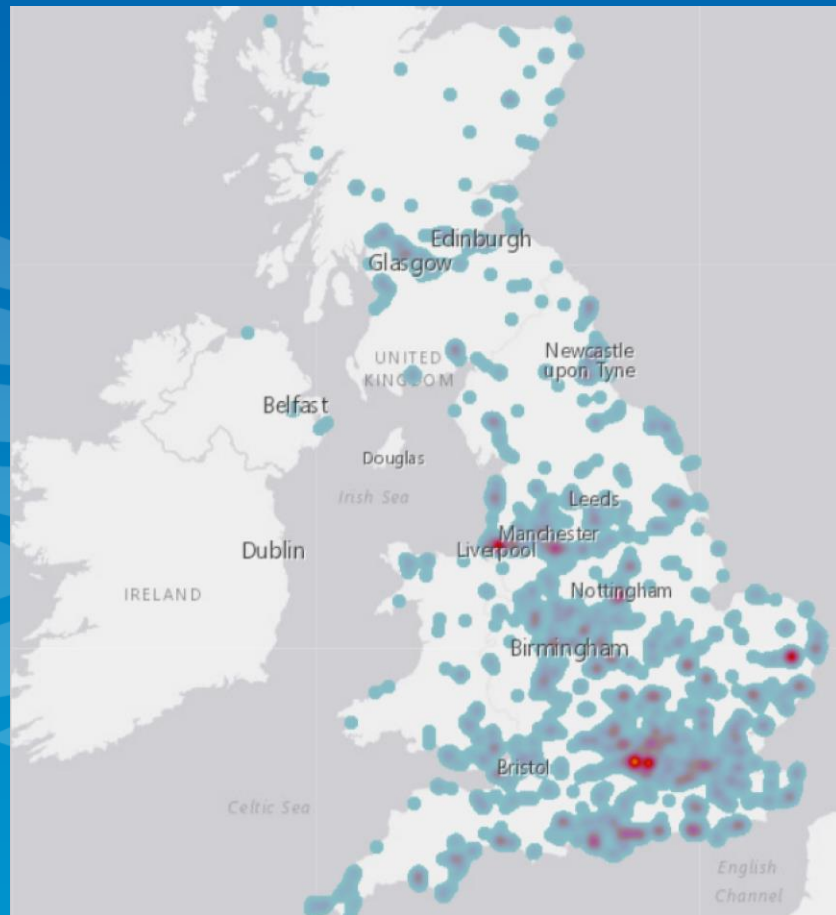
The NATS Drone Assist App (Powered by Guardian)

- Provides users with advice on where it is safe to fly and free at point of use
- The app provides users to access online tutorial and drone code
- Based upon UK AIP chart data and includes hazards such as pylons as well as privacy concerns, eg schools
- Enables us to track growth and trends in drone usage as well as airports
- Helps us to better understand what hazards and features are of interest



Drone Assist

- The NATS Drone Assist App was launched in Dec 2016
- Over 85,000 registered users
- Over 60,000 recorded flights, with time and location
- Over 18 million instances of airspace data provided
- Enables us to better understand growth and patterns of usage in sensitive airspace and airports

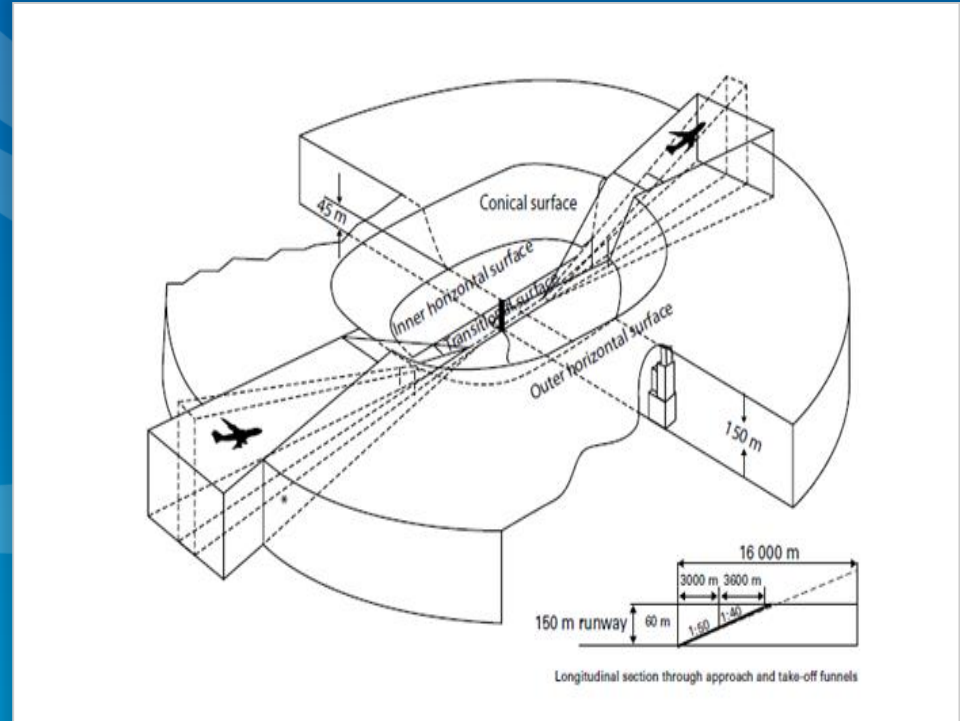




Project Chatham (UK)

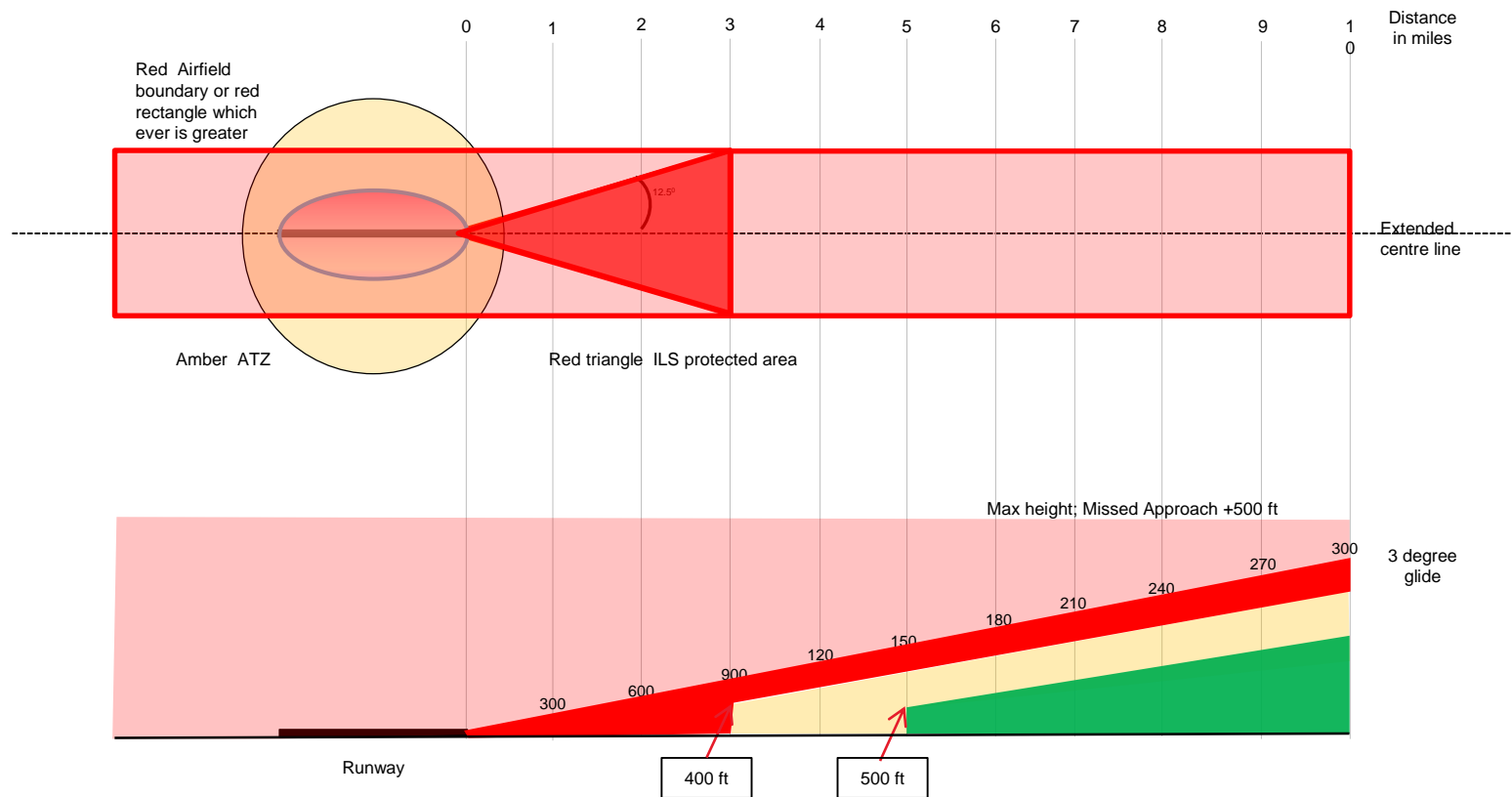
Project Chatham

- We looked at using airport safe guarding parameters
- Very confusing to a non aviator



Airport Workshop

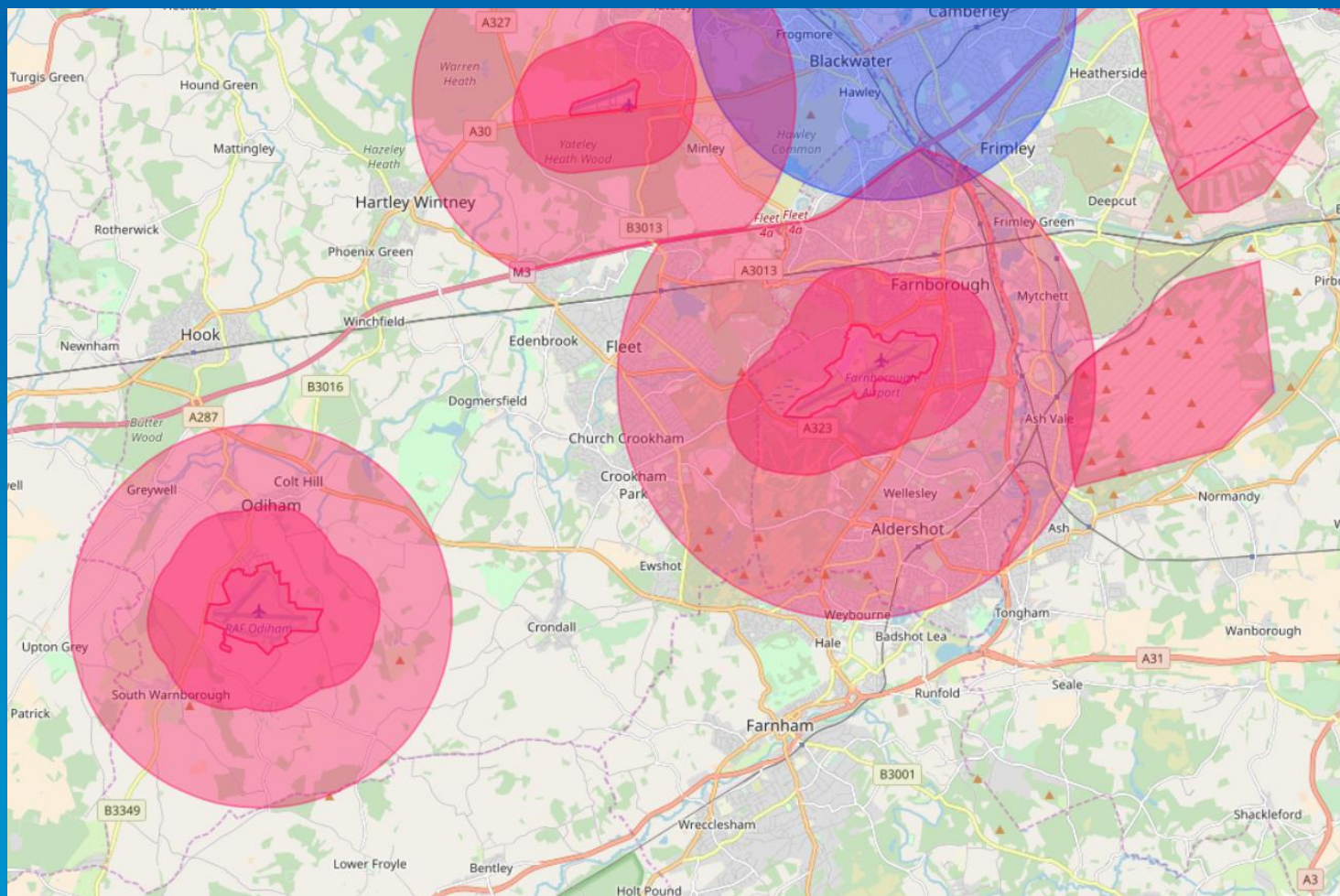
Courtesy of NATS





UK Governments update to legislation

Flight Restricted Zones



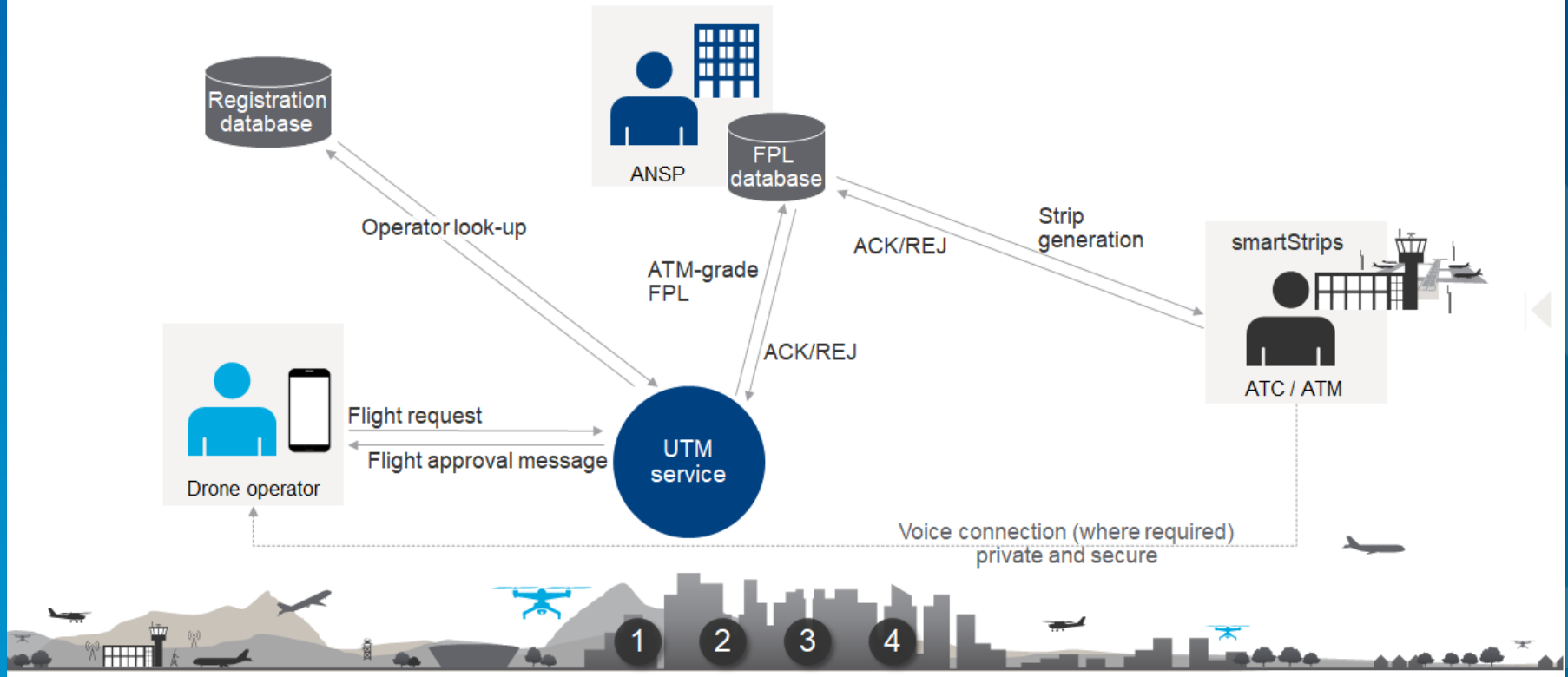


Airspace User Portal – Powered by GuardianUTM

The background features a large, light blue graphic of wings on the left and a series of nested, upward-pointing triangles on the right, all set against a solid blue background.

https://www.youtube.com/watch?v=PS_5h3NfqGg

UTM world to seamlessly integrate with ATM world



Non Standard Flight Request

NATS Airspace User Portal

Class D Transit

Step 1: Transit details

Step 2: Transit areas

Step 3: Summary

Please fill in the details below:

Transit details

Callsign *

Enter callsign without a hyphen (-)

Aircraft type *

Enter aircraft type

Transit type *

☒ VFR ☐ IFR

Place of departure *

Enter place of departure or ICAO designation if known

Destination *

Enter flight destination or ICAO designation if known

Pilot details

First name *

Enter first name

Last name *

Enter last name

Email address *

Enter email address

Next

Working with ANSPs and Aviation Authorities

- Foundation services
- Provide support technology
- Improve safety

Where its going?

<https://vimeo.com/187780285>



Thank you

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www.altitudeangel.com



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