

Working with legislative and compliance requirements in evolving cities

Auckland Airshare (a.k.a. the 'drones programme')

Gatwick airport

Gwyn Topham, Matthew Weaver and Haroon Siddique

Fri 21 Dec 2018 05.12 GMT



446

Runway reopens after days of drone disruption at Gatwick

Airport reopens after disruption that saw about 800 flights cancelled, affecting 120,000 people

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- [How dangerous are drones to aircraft?](#)



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NEW ZEALAND

Police helicopter in near collision with drone above Auckland motorway

1 Jan, 2019 8:30am

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There are important laws and rules under New Zealand's CAA regulations that should be known and understood by all drone pilots. / Airshare

NZ Herald

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NEW ZEALAND



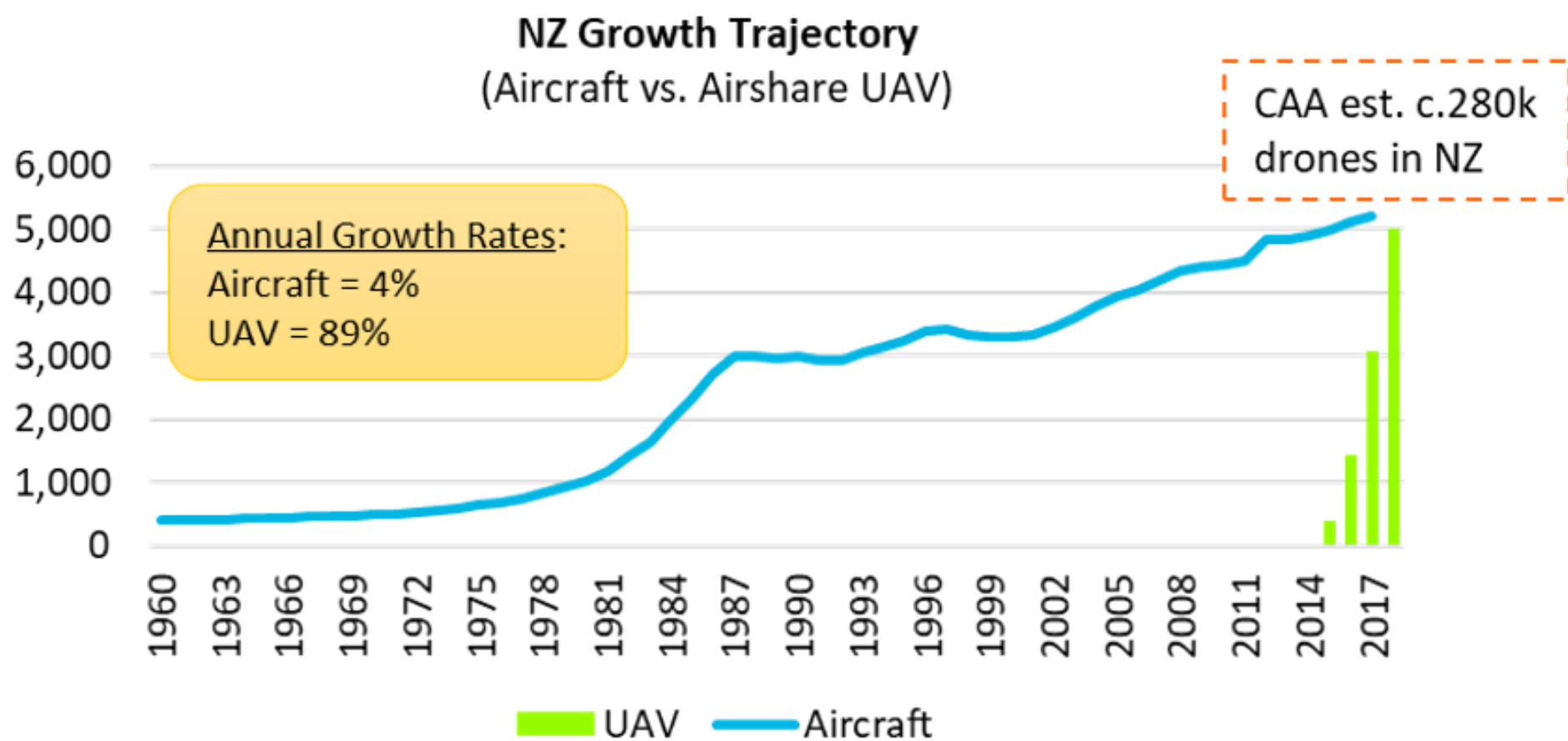


Fig. 1: CAA Aircraft Registrations; Airways Airshare Registrations







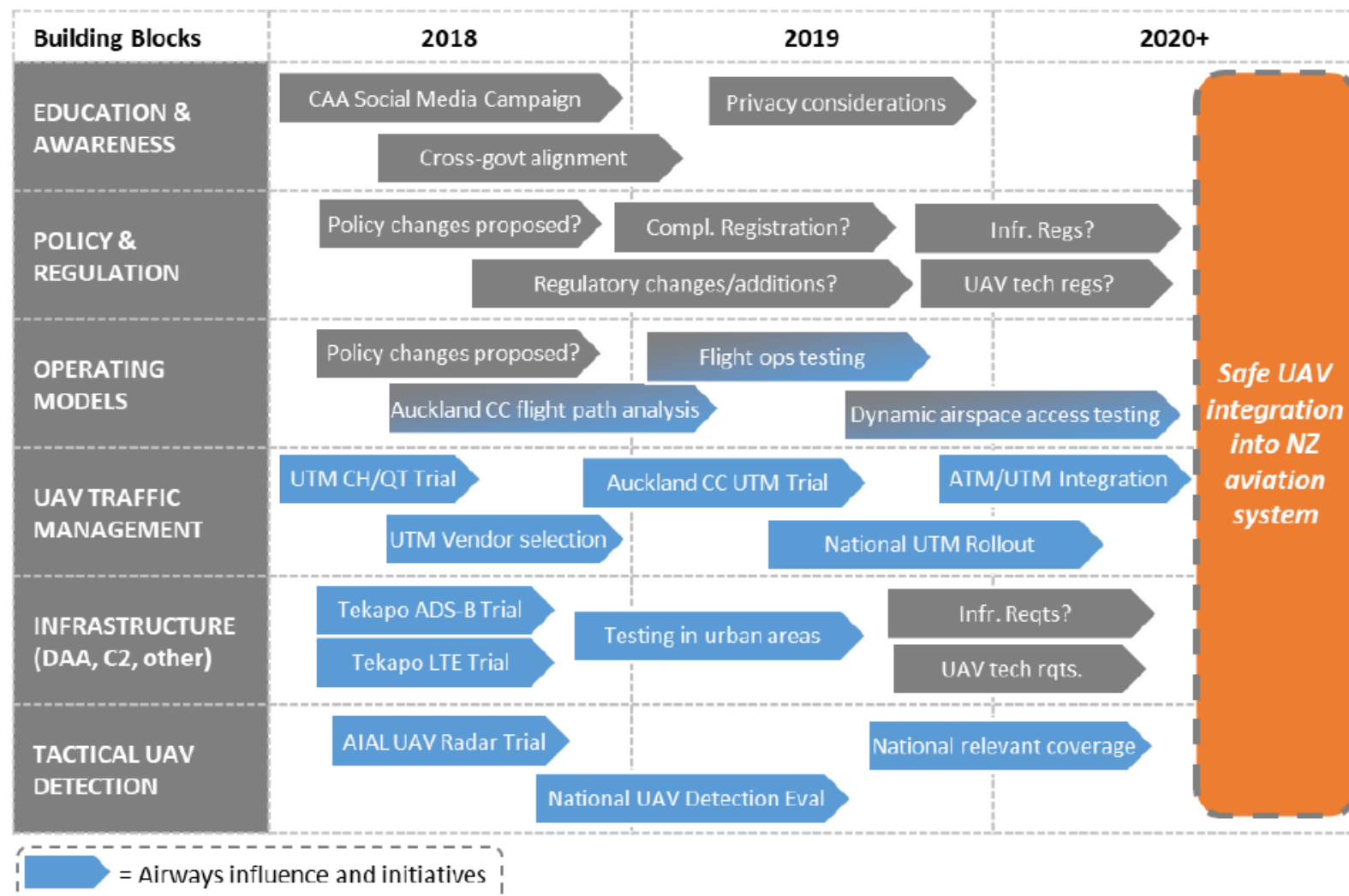


NATIONAL UAV PROGRAMME

Key to enabling safe UAV integration, MoT, CAA, MBIE and Airways have developed a vision for UAV in New Zealand.

This vision is underpinned by a national programme, which lays the foundations to enable safety and growth in the industry.

“Enable a thriving, innovative and safe unmanned aircraft sector in NZ”



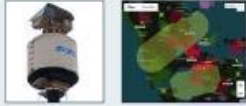
AERODROME SAFETY

- Detects potential UAV targets in/near the control zone
- Identifies drone identity and location of UAV operator

UAV DETECTION



UAV IDENTIFICATION



UAV AIRSPACE MANAGEMENT

- Digital tools help UAV operators fly by the rules
- Enables UAVs to be seen by each other and GA
- Reporting tools for the public

UAV PILOT TOOLS



UAV TRACKING



NATIONAL UAV INFRASTRUCTURE

- Enables beyond-visual-line-of-sight operations
- Humanitarian and commercial operations
- Optimal procedures and routes to fly

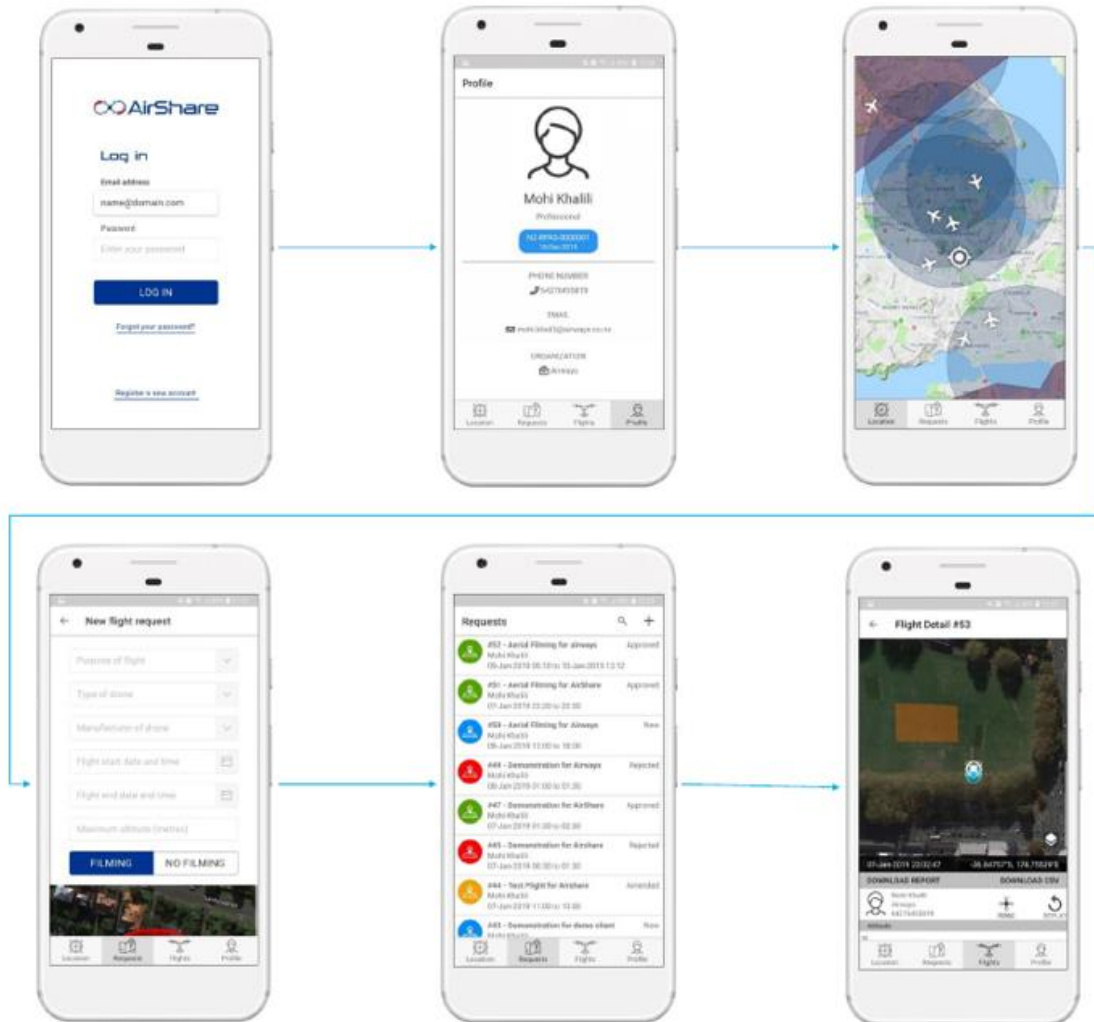
BVLOS OPERATIONS



AIRSPACE PROCEDURES



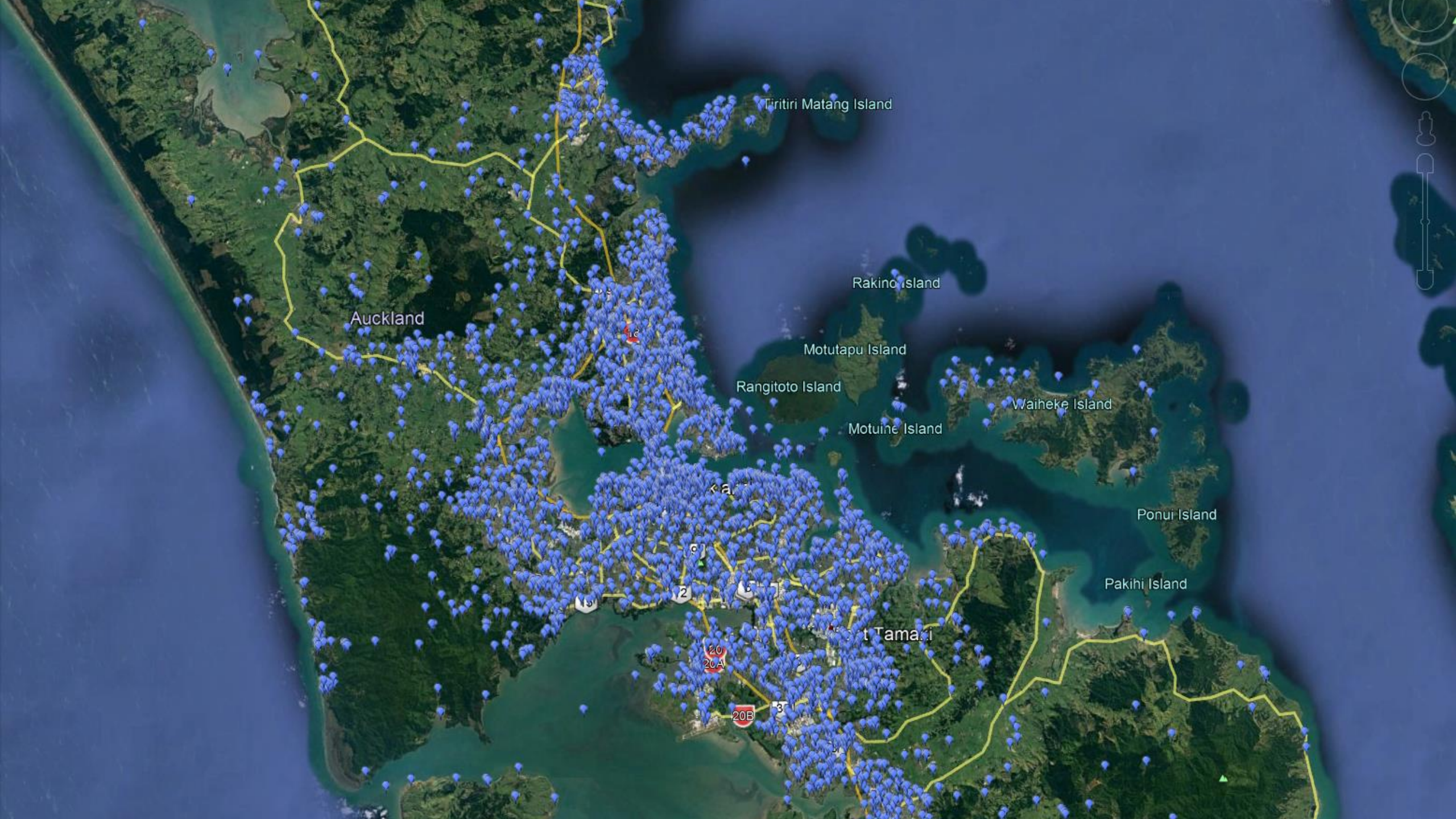
AERODROME SAFETY



New AirShare mobile app providing end-to-end UAV registration, flight planning and approval.



Auckland area showing aircraft, approved UAV flights (green UAV), one approved UAV who has deviated from their flight path (red UAV), and one non-cooperative drone (RED triangle)



Tiritiri Matang Island

Rakino Island

Motutapu Island

Rangitoto Island

Motuine Island

Waiheke Island

Ponui Island

Pakihi Island

Auckland

St Tamara

20
20A

20B

3









