



Australian Government
Civil Aviation Safety Authority

DRONE ENABLE
Symposium 2022
Supporting ATM/UTM
Integration



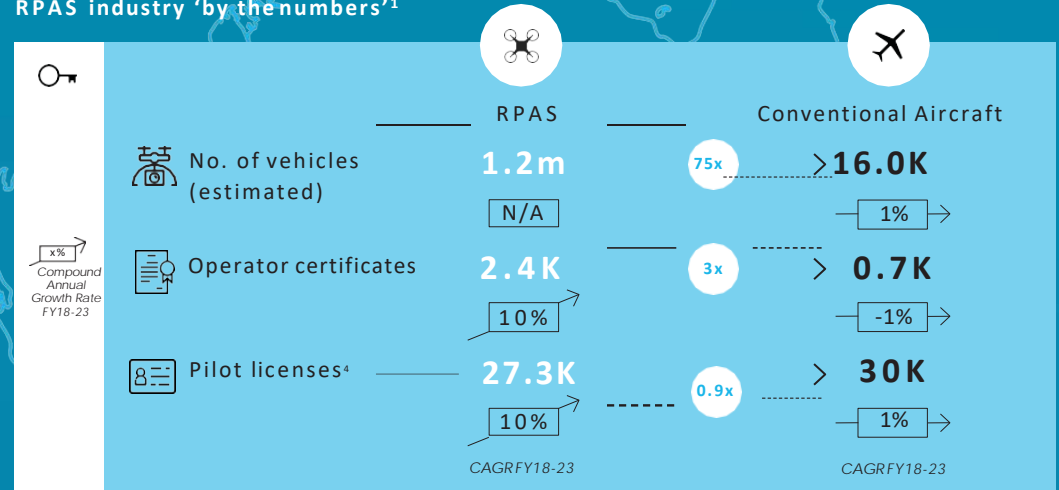
November 2022

RPAS / UAS Industry in Australia

Commercial Drivers / Areas of Interest

- Manufacturer R&D
- Application of emergency services
- Intermodal package transfer / delivery
- Longer endurance
- Higher Altitude

RPAS industry 'by the numbers'¹



Enabling constructs

dynamically approved flight planning ○ shift away from manually applied, static approvals ○ move towards data-informed, automated decision making

Aviation Construct In Australia

The Department of Infrastructure, Transport, Regional Development, Communications and the Arts.

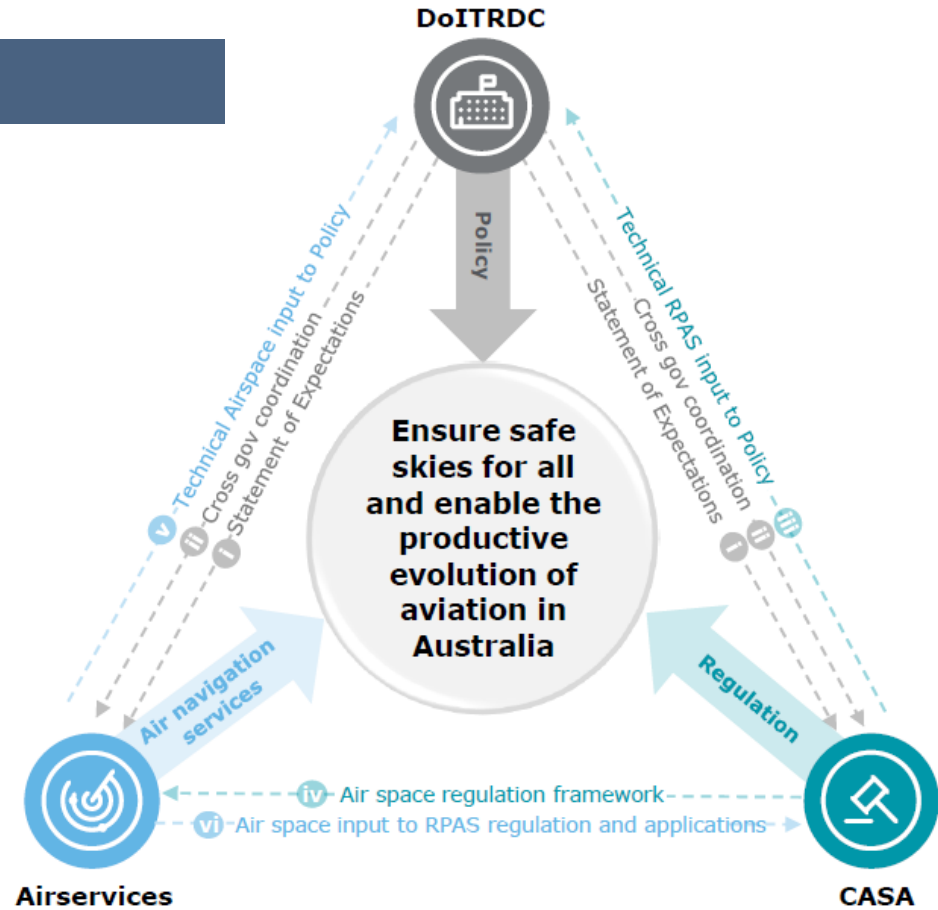
Policy Development: Establish and oversee the direction of Australian aviation in line with macro governmental economic and societal objectives

Civil Aviation Safety Authority

Regulation implementation and oversight: Ensuring an effective safety regulation framework and providing regulatory oversight whilst enabling flexibility in innovation

Airservices Australia

Provide air navigation services: Air navigation, aviation rescue and fire fighting services



Airservices Australia - Strategy

Safely and sustainably delivering customer and community needs

Communication, Navigation and Surveillance capabilities deliver services **anywhere, anytime**

Improved situational awareness through a **national surveillance capability**

Integrated and Automated Air Traffic Management providing a **single seamless** Australian administered airspace

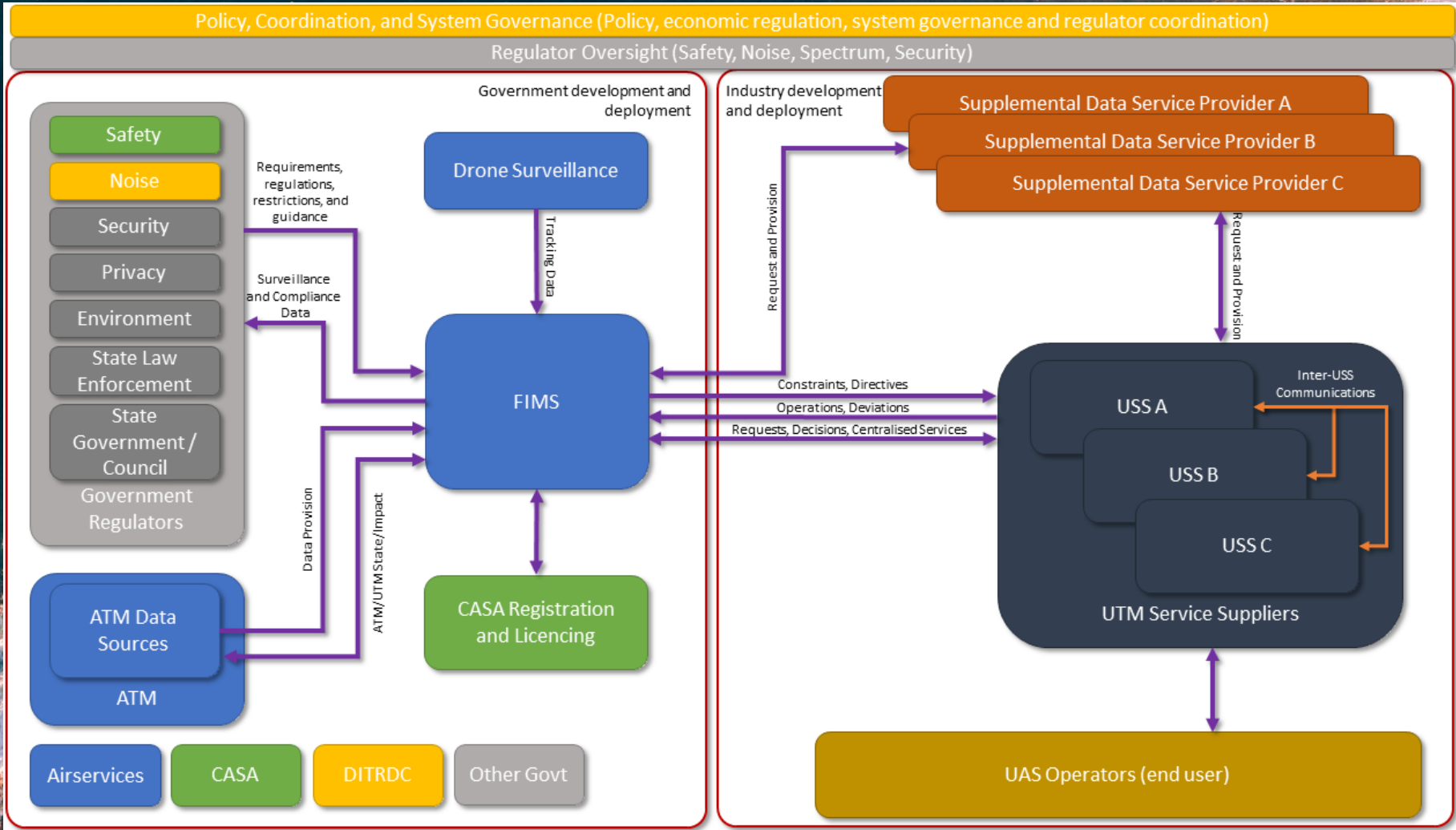
Graduated service delivery model through **centralised and automated** traffic management deployable across any facility


Flexible, scalable, **automated** and **remote aerodrome services**

Optimised capacity through **intelligent systems** and **advanced analytics** to **balance customer needs** and **community expectations**

Leverage our capability to foster and promote aviation **safety** in our region

Airservices Australia - FIMS





Key Enablers

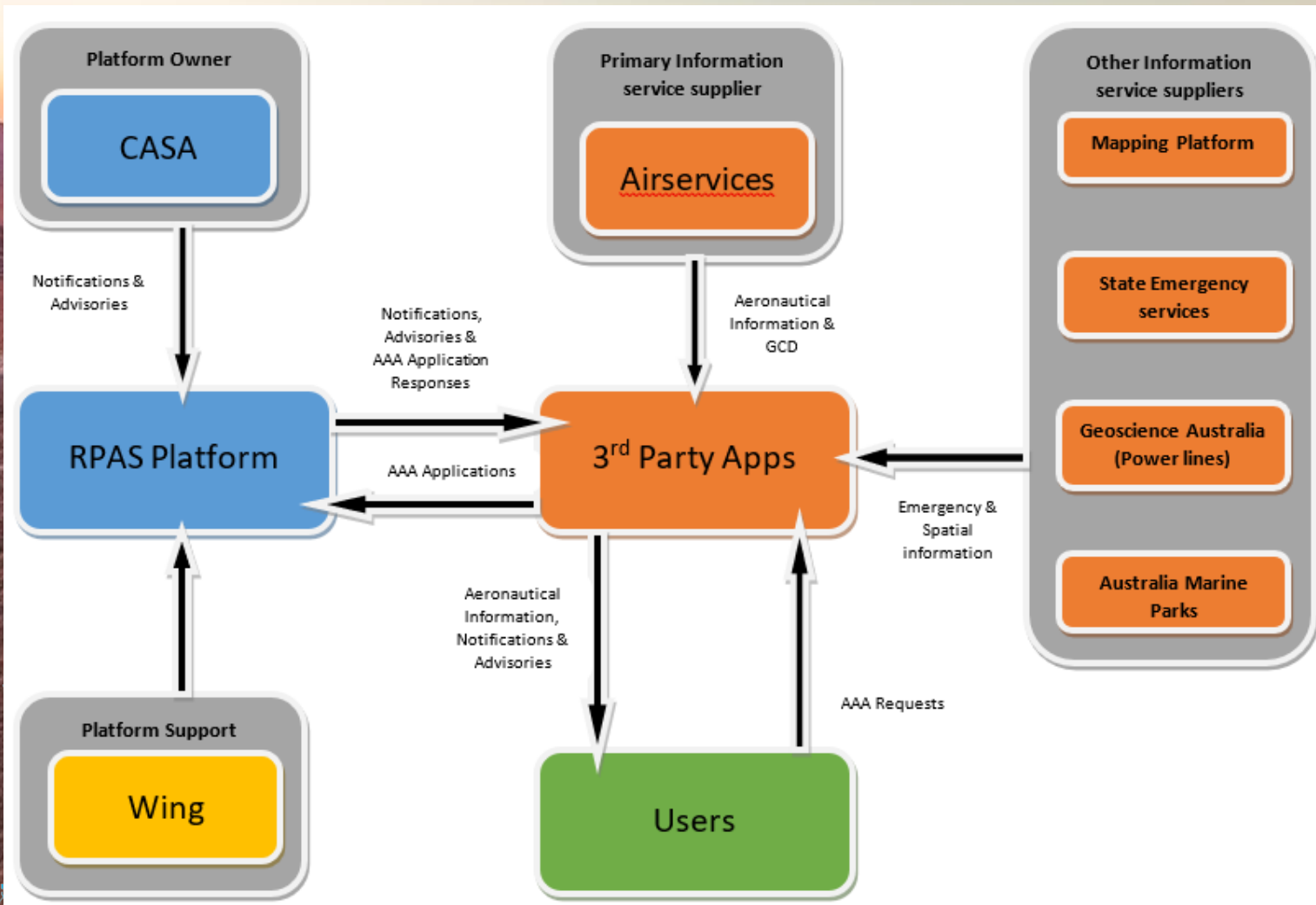
- Visibility of all kinds of operation and aircraft - not just ADSB equipped
- Easier to establish, less onerous access to low-risk airspace for UAS operators
- Sources of key operational information, such as live population density, historic flight track data, weather
- Data driven approaches to approving operations rather than more traditional, manual methods

The Answer.....



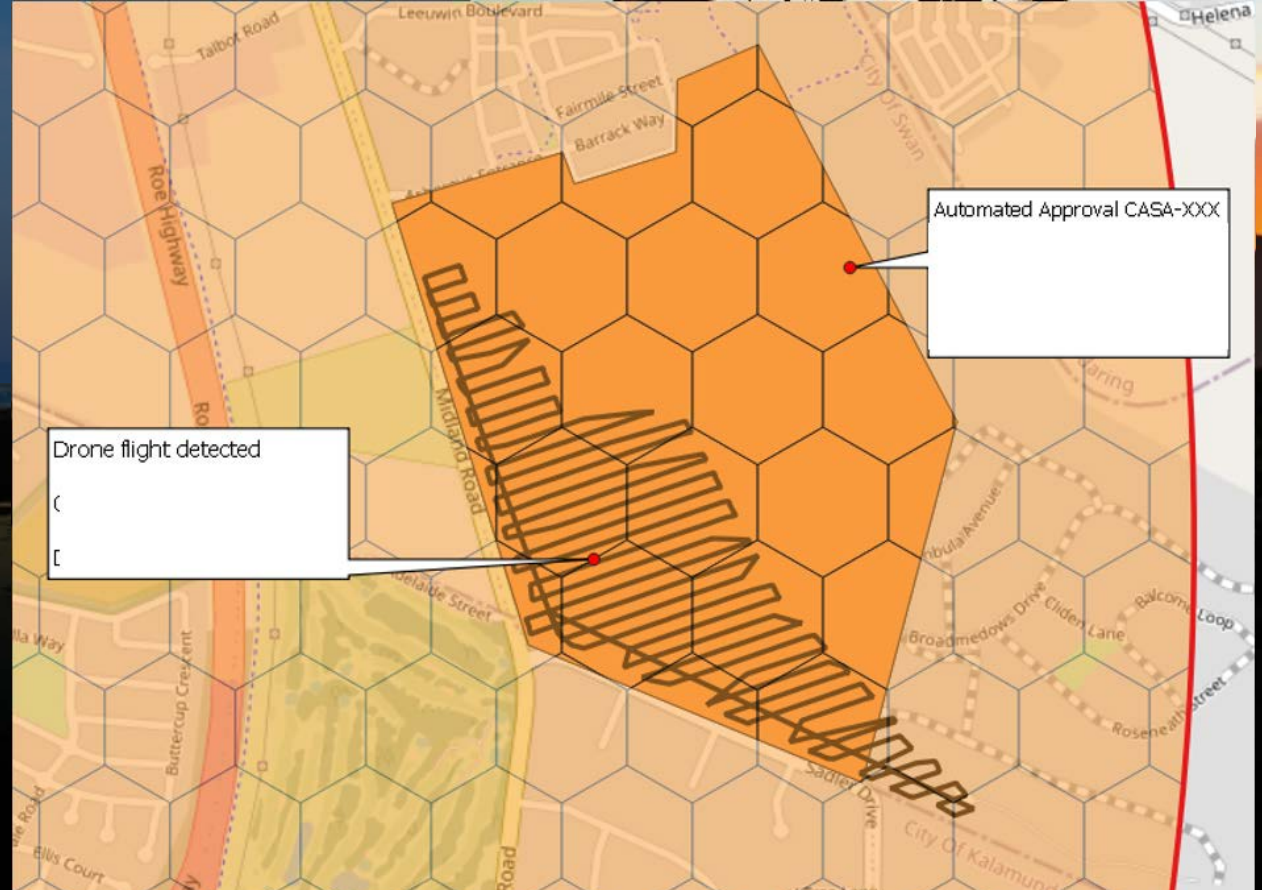
CASA RPAS Platform

CASA Digital Platform



Experiences with service providers (Platform-connected application providers)

- On-boarding & effective oversight
- Contractual arrangements
- The right amount of access
- Determining levels of accuracy
- Unintended inconsistencies
- Feeds with no guarantees
- Flexibility vs incorrect usage



Key Enablers

- Automation of on-boarding and regulator auditing
- Regulatory provision for non-human assessment
- Regulatory sandbox
- Co-design with industry
- Outcomes based
- UAS centric information
- Manufacturer alignment
- Open source



Thank you