



AA&S Conference Briefing

Army UAS: Business as usual

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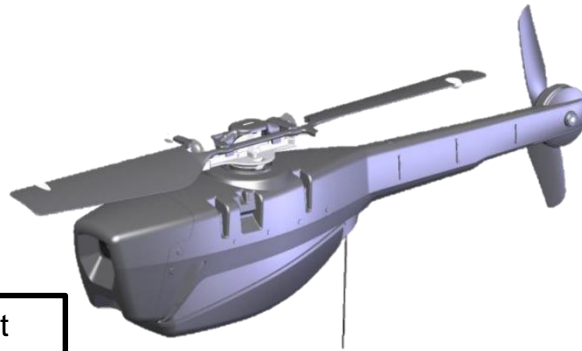
- Army is Australia's biggest, most experienced, safest UAS/drone user
- 3 systems in-service, 2 systems in-use
- Specialised, non-specialised and for sport
- Army has driven regulatory reform thrice over

- UAS / drones are not new for Army anymore...



NUAS / Black Hornet

- Since 2014, 25 for trial
- AMP024.33 = 161 over 2018
 - Every Combat Platoon
- 28 mins, 2km, micro class, 3-5 days training
- Aw = DASR.UAS.35.a: Unrest under 400ft
- Sust = Direct Commercial w/ local support



Trialx25

SOCOMD
and
Readying

Reset
and new
Readying

L125-4

2017

2018

2019

2020

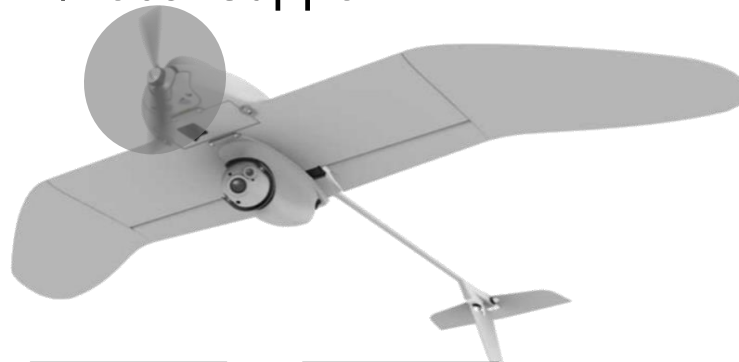
2021

2022

2023

SUAS / Wasp AE

- Since 2014, 14 for trial
- L129-4A = 65+ over 2018 to 2021
 - Every Combat Team
- 50 mins, 5km, very small class, 7-10 days training
- Aw = DASR.UAS.35.b: (almost) Unrest under 400ft
- Sust = Direct Commercial w/ local support



Trial x 14

SOCOMD
X 10

Batch 2
X 35

Batch 3
X 20

-4B

2017

2018

2019

2020

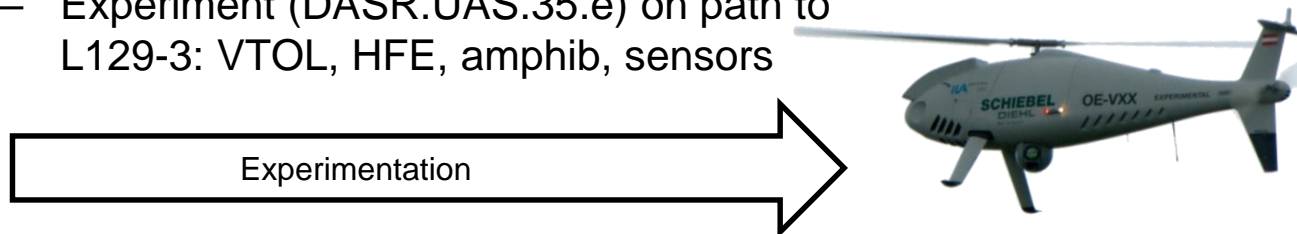
2021

2022

2023

TUAS / Shadow 200

- Workhorse of ADF, since 2011, to 23/24
- 9 hours, 100km, not 'small', 3 months trg
- L129-3 will replace/increase in 2022-5
- Aw = Specified Type A DASR.UAS.30, extra mission scope = UASOP / ACP
- Sust = FMS w/ local training and FSR
- Experimentation/Risk Mitigation:
 - Experiment (DASR.UAS.35.e) on path to L129-3: VTOL, HFE, amphib, sensors



Shadow 200

L129-3

2017

2018

2019

2020

2021

2022

2023

Armed MALE / HALE UAS

- A7000-1B
 - Aw = Spec Type A DASR.UAS.30 UASOP
 - Sust = FMS + ?
- Air 7003
 - Aw = Certified DASR.UAS.25 AMTC
 - Sust = TBC + ?



Heron

2017

2018

2019

2020

2021

2022

2023

COTS MRUAS

- 21 units already
- Unit training review
- C-UAS training
- Unit photography
- **Experimentation**
- AMP 023.34 to acquire ~350
 - Every unit in Army: Cadet, Reserve and Regular
 - 1 day training
- Aw = DASR.UAS.35.b: Unrestricted under 400ft
- Sust = Nil. CO's Purchasing Card



Roll-out

2017

2018

2019

2020

2021

2022

2023

Army Drone Racing Team

- Team selected from across Army
- Flying and racing all over Australia
- Engages young soldiers and youth
- Non-traditional Army sport
- Army sport no longer equals just rugby and AFL!



- Aw = DASR.UAS.35.b:
 - Registered club of the MAAA
- Sust = Self
- Hosting inaugural MIDRT in Oct 18



Army The ExTS19 Challenge

- ExTS17
 - 40 UAS (25% of Army fleet)
 - Problematic to get them flying
- ExTS19
 - Army fleet ~900. 25% = 200+. VTOL TUAS
 - How do we get that flying, safely?
- ExH18: ~120
- Old methodology may not work
 - What about we flip our thinking and start over?

Questions?

