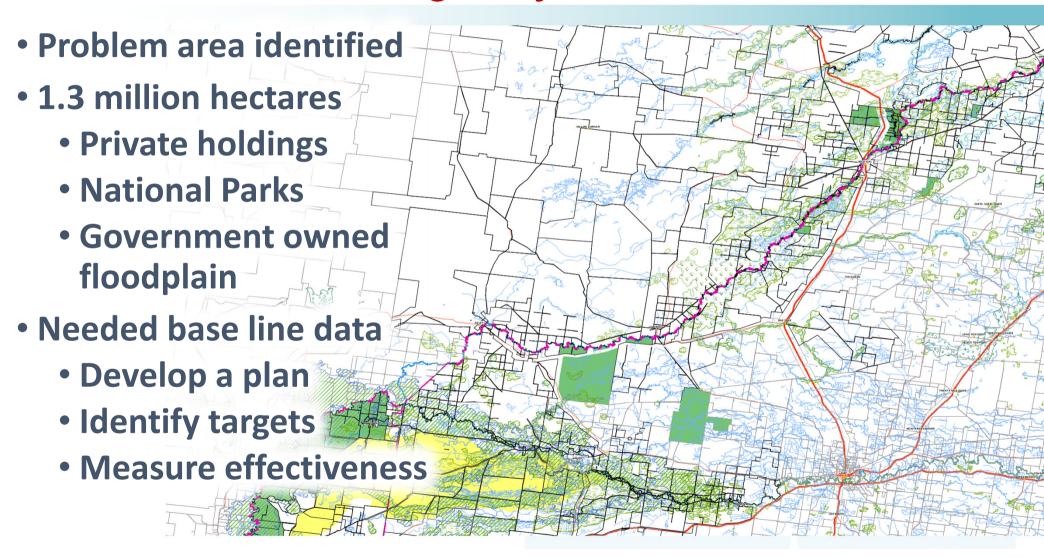


Western Riverina Pig Project To Count or Kill Pigs? That is the Question

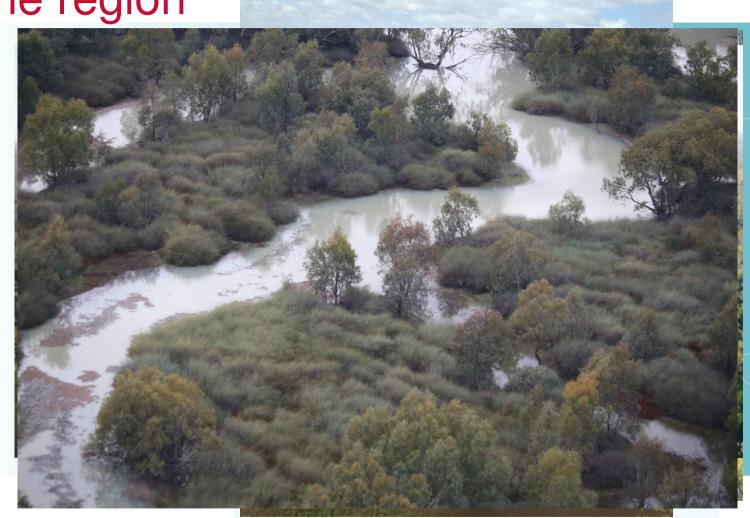
Suzie Holbery, Michael Leane, and Ray Willis

Western Riverina Pig Project -WRPP

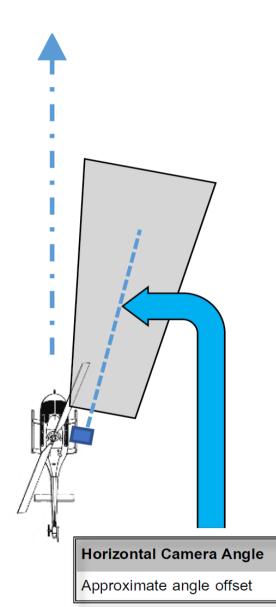


Landscape of the region

- Flat
- River red gums
- Flood plain
- Lignum swamps
- Saltbush plains



www.lls.nsw.gov.au/riverina



Suspended Mount Damper

Ken-Lab KS8 Mechanical Gyro



Sony 4K Camera

Jenoptik HD1024 Thermal Camera

Ken-Lab KS8 Mechanical Gyro

Sensor Platform Tilt Adjustment

12°

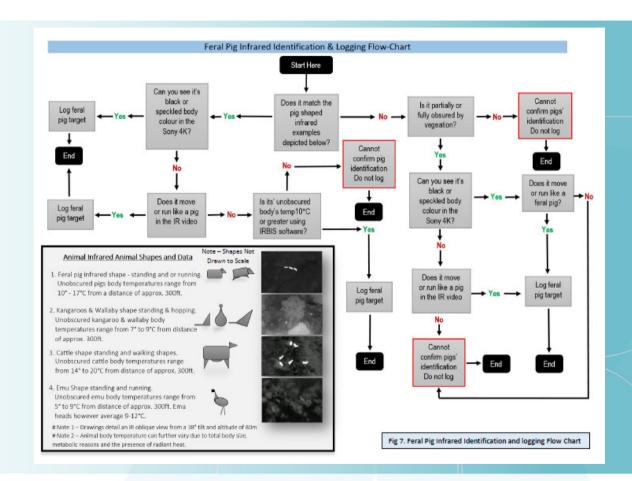
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IR thermal & 4K video



Analysis

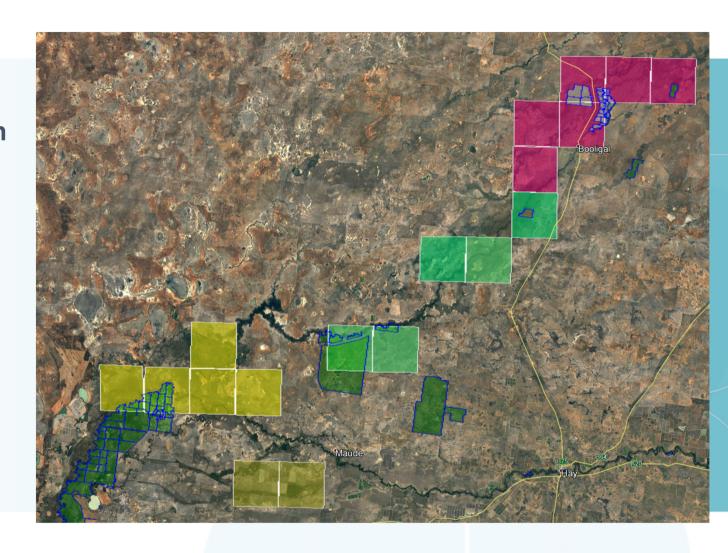
- 1. Animal shape
- 2. Temperature
- 3. Style of movement
- 4.4K video imagery



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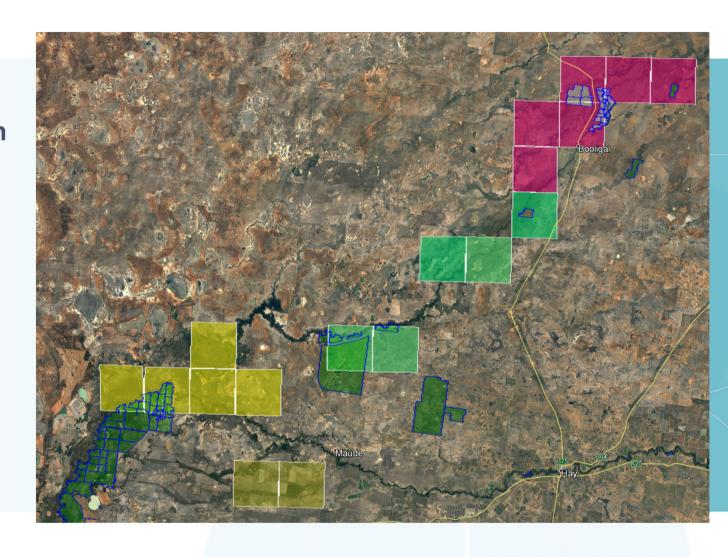
Results 2016

- 18 Blocks (10km x 10km= 10,000 ha)
- 582 ha per block, or
 10,476 ha total survey
- 487 pigs spotted over18 blocks
- 1 pig per 21 hectares



Results 2017

- 18 Blocks (10km x 10km= 10,000 ha)
- 582 ha per block, or
 10,476 ha total survey
- 923 pigs spotted over18 blocks
- 1 pig per 11 hectares



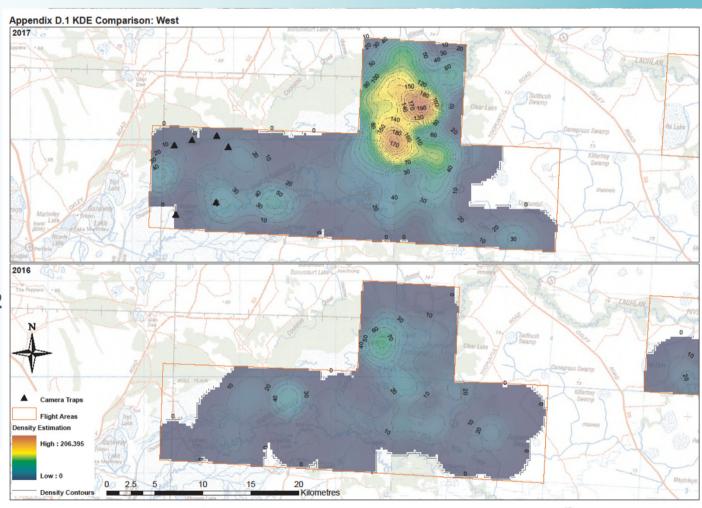
What Did We Achieve

- Approx 10,000 pigs culled between surveys
- Despite control pig numbers doubled
- Good data needed better analysis
- Need population & density modelling
- Contracted Ecoknowledge to further analyse data



Further Results - Same Data

- Survey methodology scientifically valid
- Used two different sampling methods to confirm numbers
- Pig density & abundance
 model-23 000 @206 pigs km2
- Population trend figures-2.77 increase – 2m in 5 yrs
- Required cull numbers for effective control -16 000



Actions

- Identified "hotspots " to be targeted for control
- Accessed State & Federal \$
- Correspondence with land managers
- Proof that current control not effective
- Participate for free or compliance at your cost
- Undertaking or Direction



WRPP – Count or Kill

- Need to count before you kill
- Governs where and how many
- Effectiveness of control
- Cost of different methods
- Overall cost of control
- Are you as a pest manager doing a good job.



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For further detail email: michael.leane@lls.nsw.gov.au



