









What is the MLP?

The MLP project is:

- Capturing lifetime data
- Across diverse environments, genetics and Merino types

The MLP project will deliver increased profit through:

- Better understanding of the drivers of lifetime productivity
- Refining and testing current selection tools and assessment ages

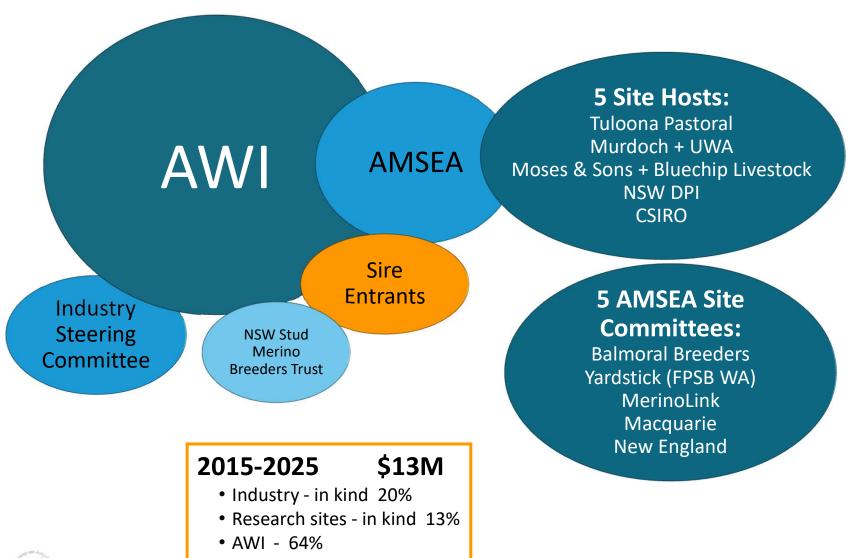
For all Merino types and environments.







A 10 Year Partnership

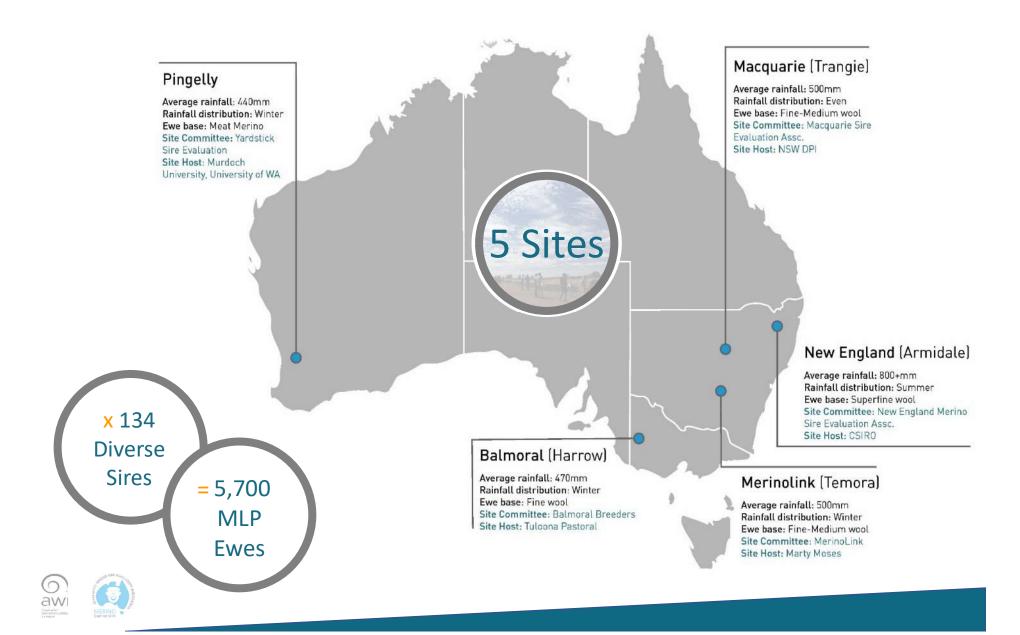






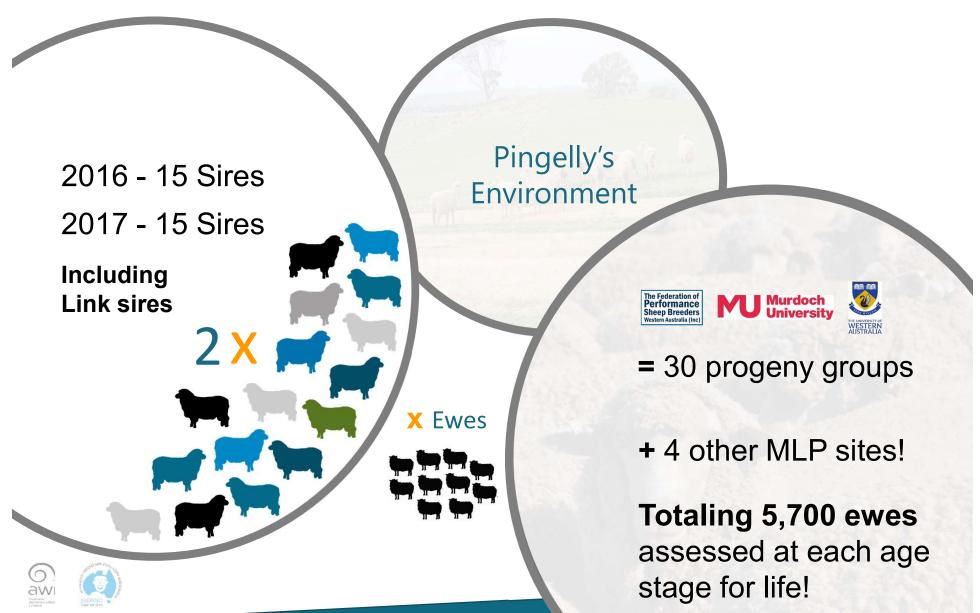


Diverse Ewe Bases & Environments





Pingelly





What's being assessed annually?

Wool

- Fleece weight
- Yield
- Fibre diameter, SD, CV
- Staple length
- Staple strength
- Comfort factor
- Curvature

Growth & Carcase

- Body weight
- Fat depth
- Eye muscle depth
- Adult ewe size

Joining, Pregnancy & Lambing

- Pedigree
- Preg scanning
- Number of lambs weaned (conception, litter size, ewe rearing ability)
- Body weight x 4
- Condition score x 4

Health & Welfare

- Worm egg count
- Faecal consistency
- Dag score
- Urine stain
- Breech cover
- Crutch cover
- Breech wrinkle
- Survival

Visual **Conformation**

- Face cover
- Jaw
- Legs/feet
- Shoulder/back
- Body wrinkle

Classing

- Flock classing
- Stud classing
- **AMSEA Grade**

Visual Wool

- Fleece rot
- Wool colour
- Wool character
- **Dust penetration**
- Staple weathering
- Staple structure
- Fibre pigmentation
- Non-fibre pigm't
- Recessive black
- Random spot







Pingelly Site

Site Snapshot

15 sires for each drop
6 link sires

1 ewe source

Pingelly WA

2016 Drop

Post weaning

Adult 2

Adult 3

Adult 4

Adult 5

Adult 6

HA F









2017 Drop

Post weaning

Adult 2

Adult 3

Adult 4

Adult 5



AH F

AH PH







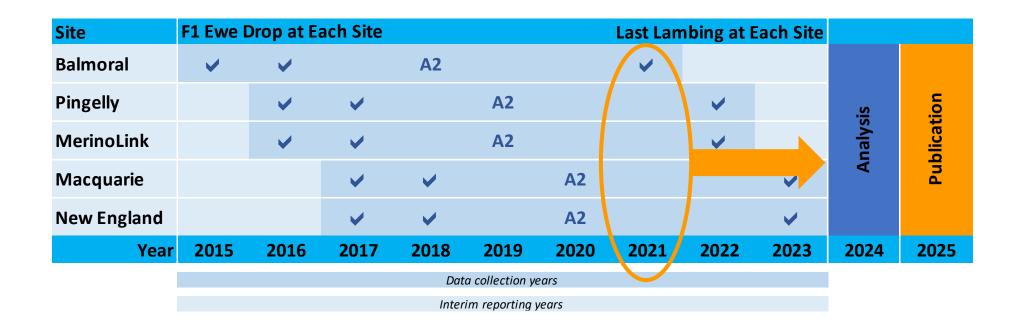








Full Project Timeline









Publication Analysis 2025 2024

Data Analysis

Site Reports

- Site Reports for every site every year
- Early interesting info
 - Elite performers
- Bi paternal twins
- Ram mating success
- Need to resist 'results' until all data collected

Analysis commencing in 2021

- Needed consent to use Ovis software
- \$1M, 4.5yr project approved
- AGBU contracted for MLP R&D
- Currently contracting AGBU for general genetic benchmaking R&D



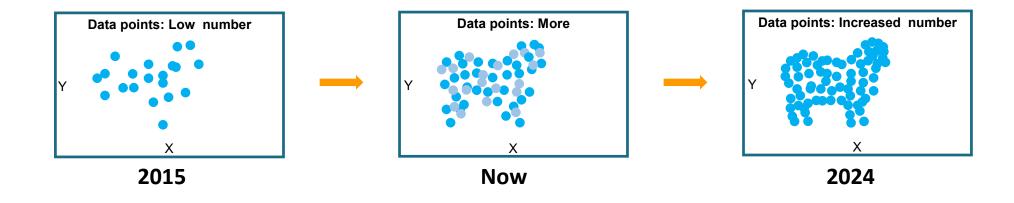




Data-to-Date







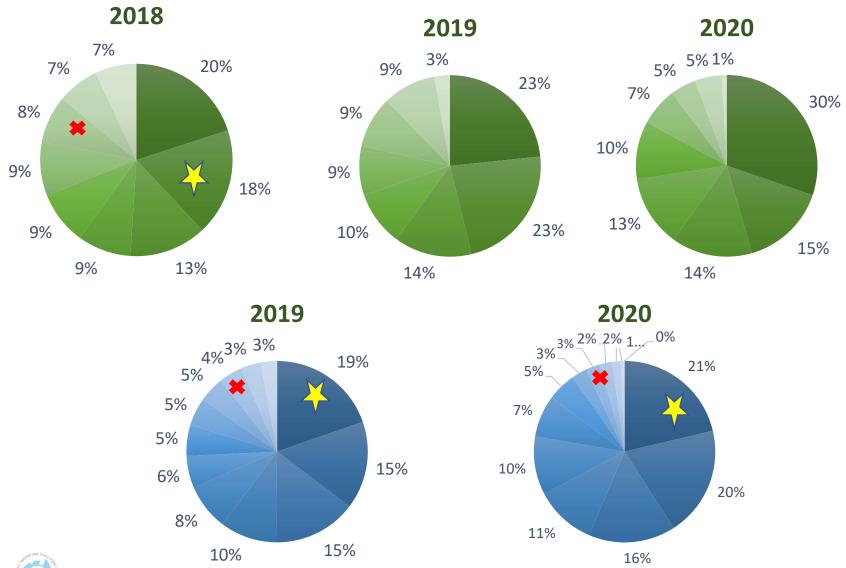




24% to go



Which Pingelly rams are doing all the work?









Twins?

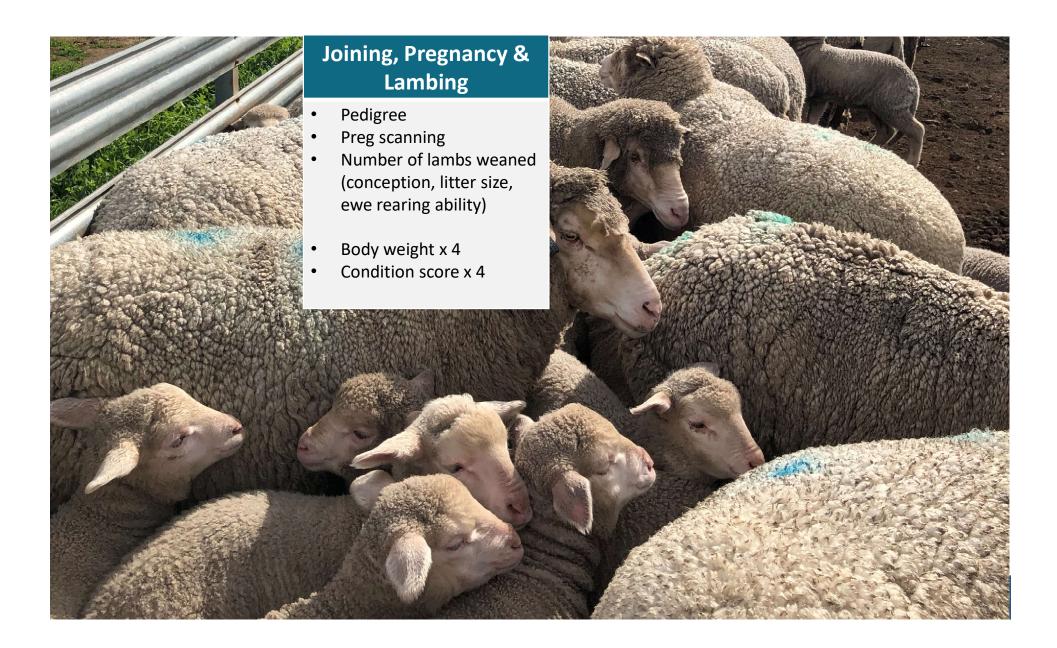
Site	Dam year of birth	F2 Progeny year of birth	No. Multiple Litters	No. Split Sires	Percent Split Sires
Pingelly	2016 drop	2018	48	31	65%
		2019	108	60	56%
		2020	142	74	52%







Let's look @ Reproduction





Reproduction Culling Strategies

- When is the best time to cull for increased reproduction?
 - Dry Maiden
 - Lambed and Lost Maiden (LOL Maiden)
 - Double Dry
 - Double Lambed and Lost (Double LOL)
 - Failed to Rear at 1st and 2nd Lambing (Failed twice)
- Average Lambs Weaned / Ewes Joined (%)
 - Number of lambs weaned per ewes joined over the 3 years

Note: Does not include dead ewes or ewes that did not present each year







3 MLP Sites

	MerinoLink (308 maiden ewes joined)		Balmoral (724 maiden ewes joined)		Pingelly (357 maiden ewes joined)	
Selection Approach*	No. Ewes Removed	Lambs Weaned/ Ewes Joined (%)	No. Ewes Removed	Lambs Weaned/ Ewes Joined (%)	No. Ewes Removed	Lambs Weaned/ Ewes Joined (%)
No culling	-	106	-	94	-	114
Dry Maiden	53	111	99	95	21	115
LOL Maiden	20	105	110	94	35	114
Double Dry	25	107	17	95	5	114
Double LOL	2	106	27	94	3	114
Failed Twice	33	107	68	95	12	114























Analysis for Industry

- Do current indexes reflect profitability well?
- Should mature ewe survival traits be added to indexes?
- At what age(s) can accure woductivity be made?
- Analysis = Answers for Levy Payers
- Can we improve without DNA
 - Better lifetime productivity







Keeping in Touch





Acknowledgements

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Thanks especially to the site partners and hosts.



























