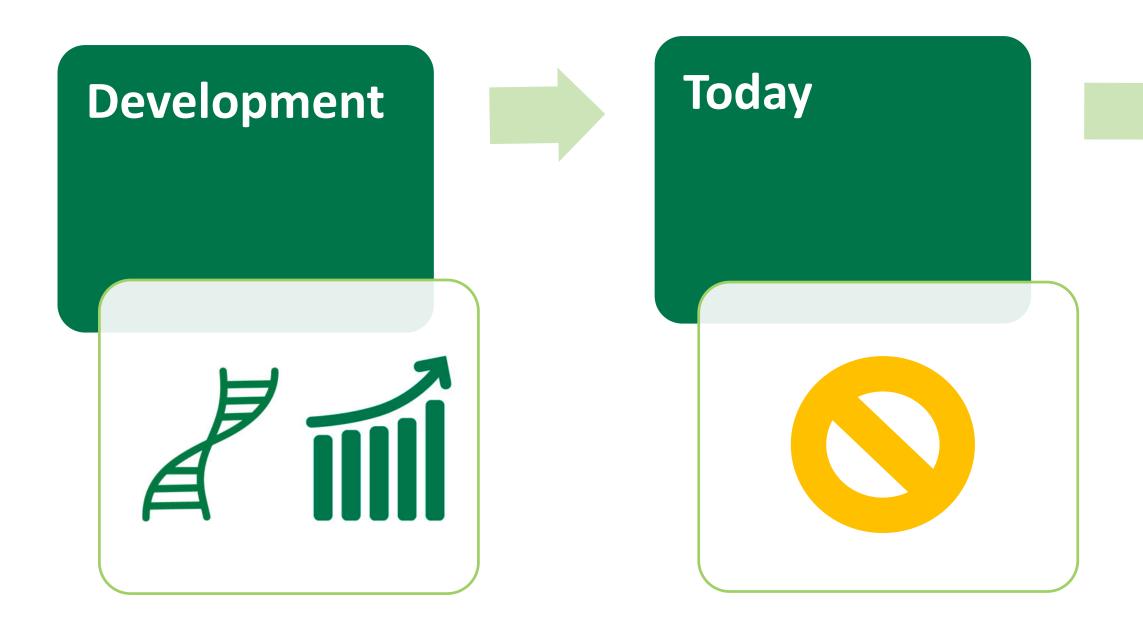
Genetics adoption strategy

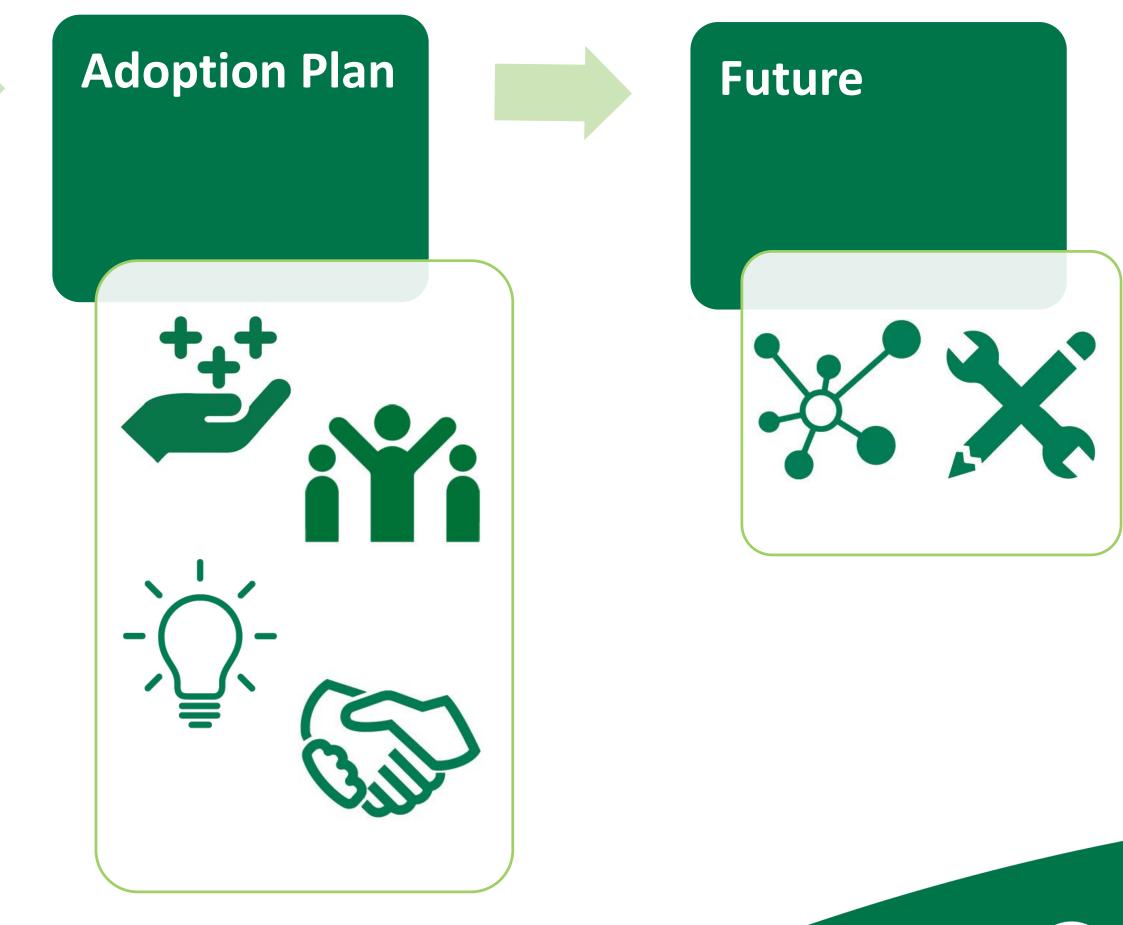
Livestock Breeding and Genetics Forum





Australian livestock genetics journey







Genetic evaluation – AU development and growth

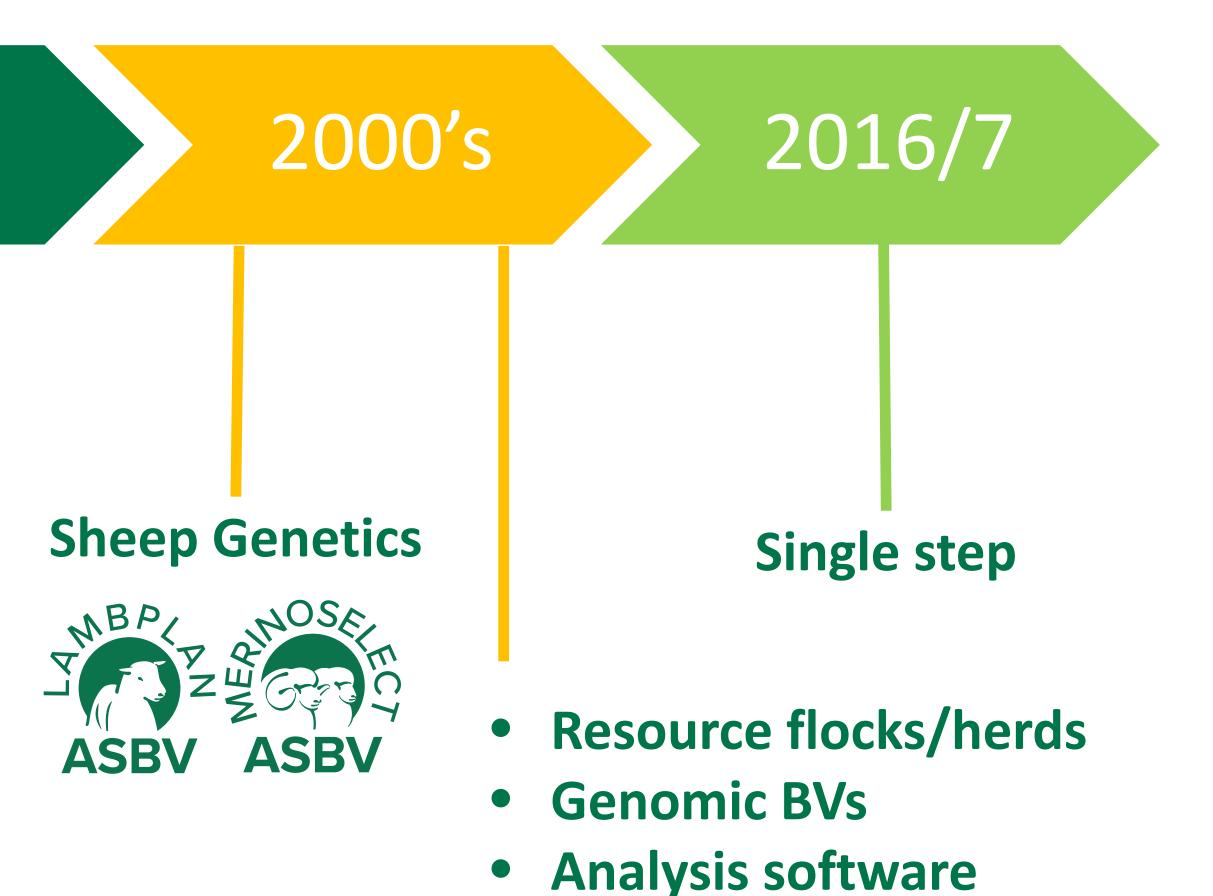


MB,

ASBV



- Across flock/herd analysis
- Carcass, fertility, calving ease traits
- Indexes,
 BreedObject,
 SheepObject

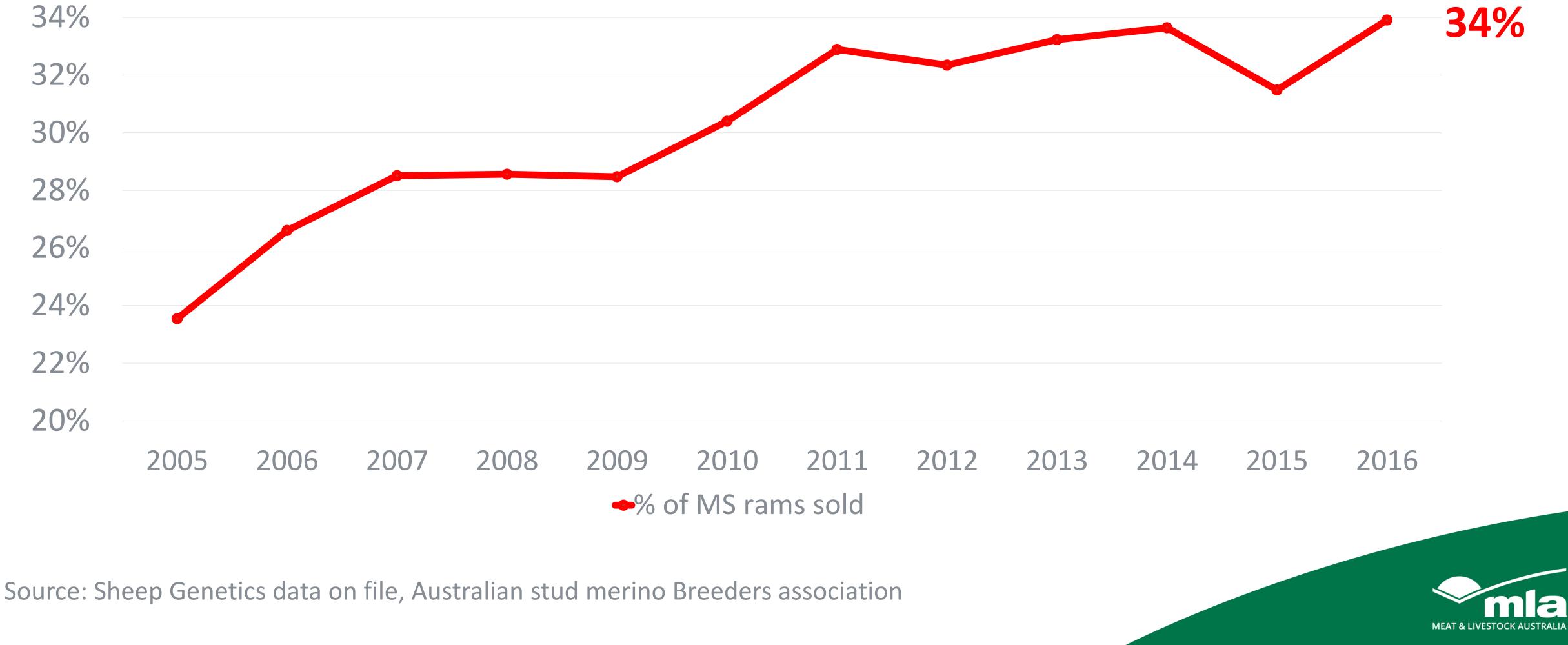


updates



Today – Barriers and issues

Proportion of MERINOSELECT rams, of all rams sold (ASMBA)







Today – Barriers and issues

Stud involvement

Never have recorded and submitted Bre Originally a member, but subsequently of Currently record limited EBVs Currently record all EBVs available in m Only use EBVs as a marketing tool to se Totally committed, recording and applyin

Source: ABRI (2015) B.NBP.0753

	% of studs
eedplan data	43
ceased recording / resigned	14
ny breed	4
ell bulls	4
ing EBVs in my herd	24





Today – Barriers and issues

Lack of value proposition

- Studs selling animals
- No demonstration of the value of genetics
- No clear incentive to improve
- No value/ROI seen in genomics

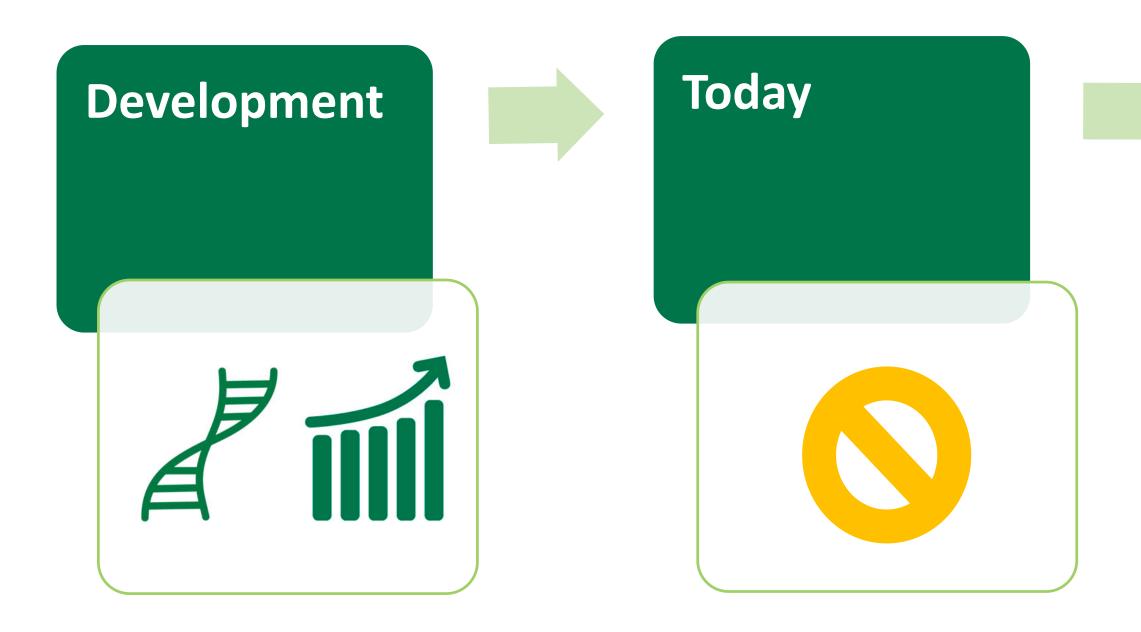
Complex and difficu system /language

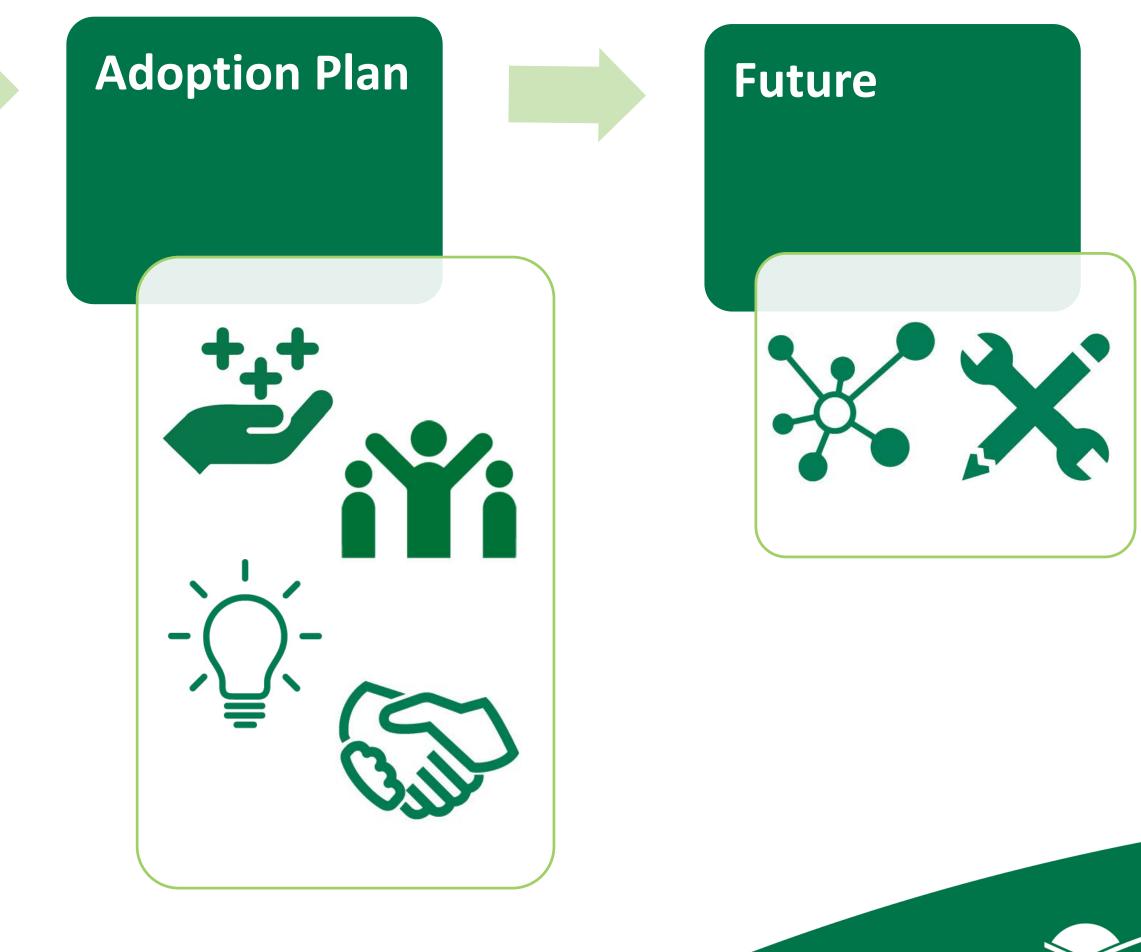
- Complex language > particularly for the commercial sector
- The difficulty and time taken to record and submit phenotypic data

ult e	Resource and knowledge gap	Culture and lack of trust
	 Mixed messages across 	 Lack of trust for data in
	the industry	and data out
	 Widening gap of genetic 	 Visual appraisal of
5	knowledge	animals considered
		superior/the only method
ta	 Lack of resources 	
		 Heritability of wool traits
		 Fear of peer judgement

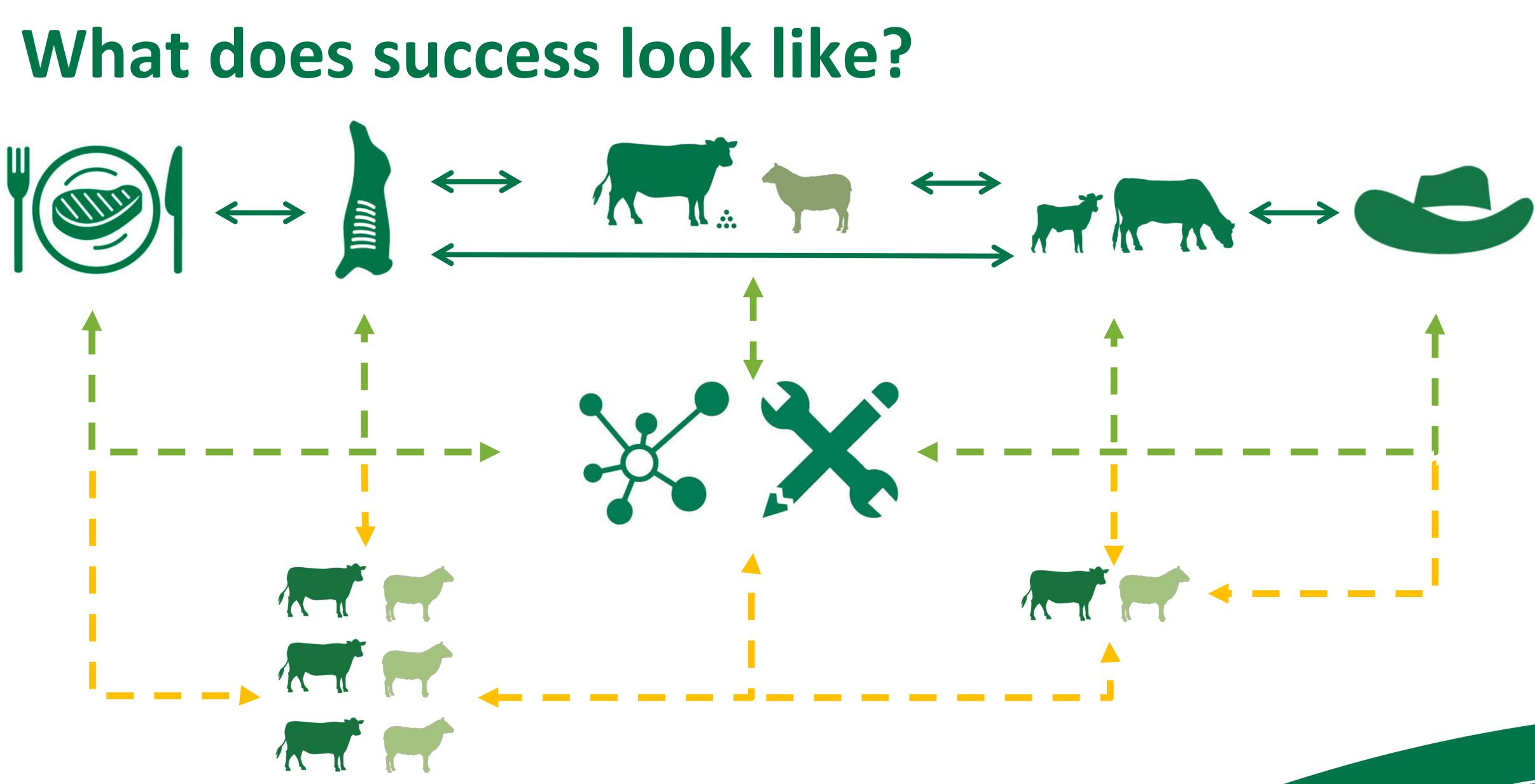


Australian livestock genetics journey



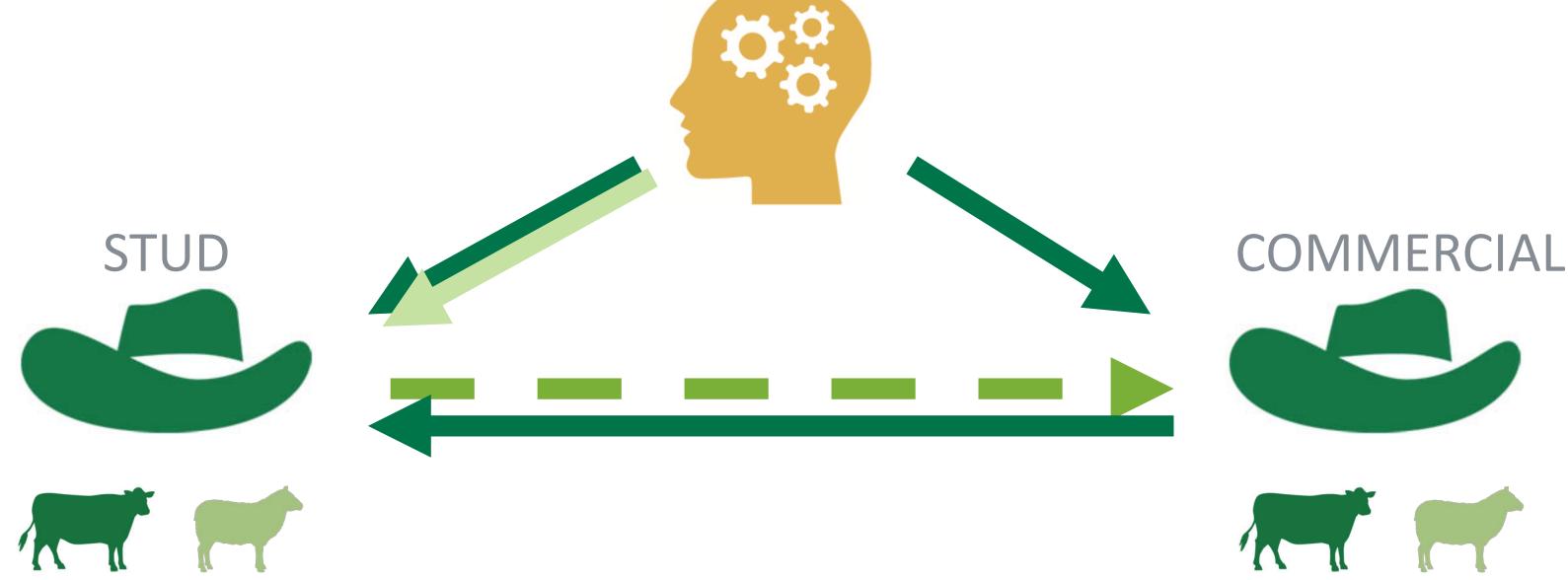




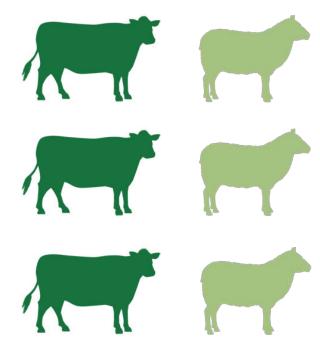




Genetic adoption focus









What does *initial* success look like for commercial producers?

- Clear breeding goals
- Knowledge and capability to use the tools

- Demanding animals with breeding values
 - Drive change in the stud sector

Positive \$Index * price correlation

Using value chain feedback to make genetic and whole of farm decisions



Genetics Adoption Strategy



Demonstrate value and grow demand

lssues/ Barriers

- Lack of value proposition
- Trust of evaluations
- No incentive to improve

Key Tactics

- Commercial producer case studies
- Genetics campaign
 - Clear, consistent key messages
 - Delivered through the right platforms

- Leverage current R&D projects
- **Demonstration sites**
 - Stud and Commercial producers

- ✓ Productivity (kg meat/Ha, kg wool/Ha)
- ✓ Cost of production (\$/Kg)
- ✓ Turn off age/DOF
- ✓ Increase in weaning %
- ✓ MSA index
- ✓ Income per breeder
- ✓ ROI on genetic improvement







Demonstrate value and grow demand

lssues/ Barriers

- Lack of value proposition
- Trust of evaluations
- No incentive to improve

Key Tactics

E.g. MSA

Grow the demand to value good genetics

- Develop value chain **partnerships**
 - Processors
 - Feedlots/finishers
- Provide guidance and feedback to improve



• Connect genetics to current incentives



Pathway to learning

lssues/ Barriers

- Mixed messages
- Lack of resources
- Spectrum of knowledge

Key Tactics

Develop a genetics network







Technical Experts (AGBU)

SBTS/TBTS

Sheep Genetics

Stud Producers

Breed Societies



Some extension & consultants

Commercial Producers





Technical Experts

SBTS/TBTS Sheep Genetics

Extension, service providers, consultants

Breed Societies

Stud & Commercial Producers

Livestock Agents, Merch. staff

Lecturers, Next Generation

Vets, Repro services

Processors & feedlots



Genetics Network

- Education, training and updates
- Alignment and coordination
- Feedback





Pathway to learning

Issues/ Barriers

- Mixed messages
- Lack of resources
- Spectrum of knowledge

Key Tactics

- Develop a genetics network
 - Annual conference
 - Regional forums, leverage existing networks
 - Train the trainened in the
 - Continue engagement momentum
- Identify gaps in resources and programs
- Deliver with whole farm/value chain approach



• Train the trainer - Align current programs and extension





Simplify the language and tools

lssues/ Barriers

• Complex language, tools and platforms

• Particularly for commercial producers

Key Tactics

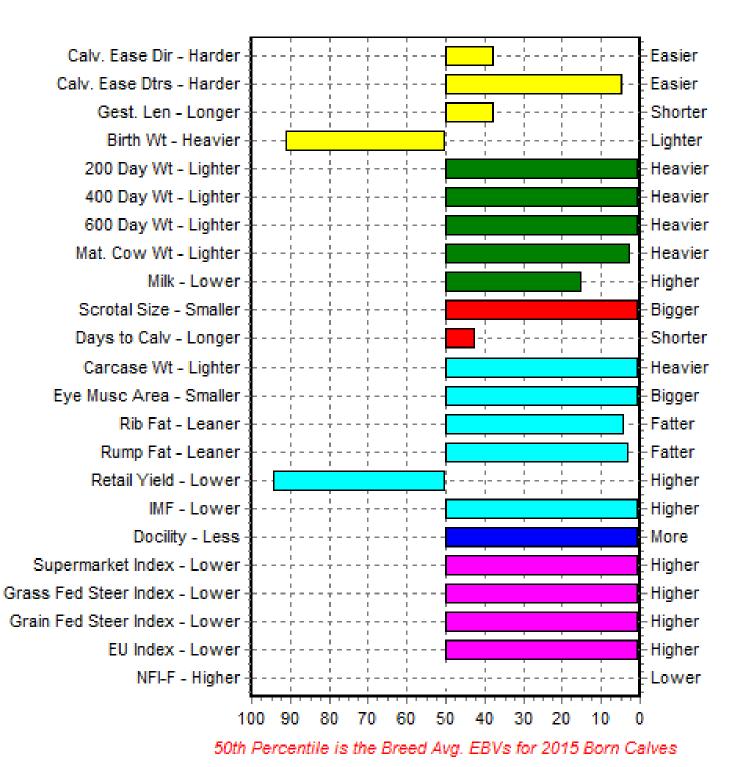
- **Simplify EBVs/ASBVs**
 - Trait grouping e.g. fertility, growth
 - Stars?

- Easy to use **tools**
 - **Selection** + economics/value
- **Update** the online platforms/websites



Increase \$index understanding/use

Benchmarking e.g. Sheep CRC flock profile





Align adoption and R&D

lssues/ Barriers

- Difficulty/time recording
- No across breed evaluation
- Feedback on performance
- Hard to measure traits

Key Tactics

Confirm R&D leads to adoption i.e. the right R&D

- Clear adoption plan at initiation of R&D
- Have clear monitoring and evaluation guidelines





- Maximise genetic gain Х
- Adoption of the R&D

• **Reduce timeline** from R&D to adoption



Monitor and evaluate the adoption plan

- Monitor and evaluate for success of the strategy
 - Market research
 - Feedback through the network
 - Forums, working groups
 - Maximise producer engagement

Adjust as necessary



Summary

Demonstrate value and grow demand

Pathway to learning

Simplify the language and tools

Align adoption and R&D







Feedback on the direction

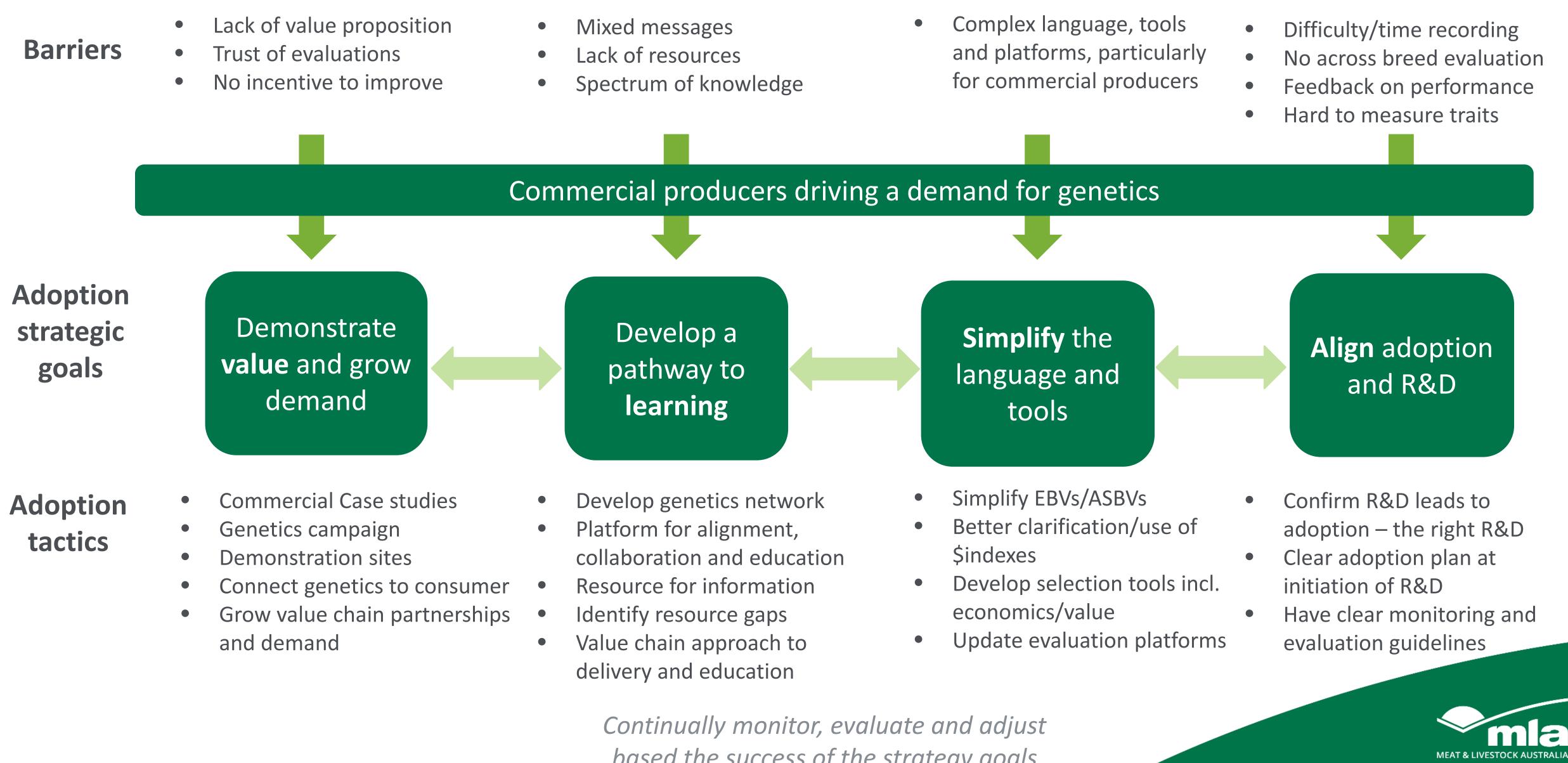






Genetics Adoption Plan

By 2022, >\$400M of industry improvements across the value chain through doubling the rate of genetic gain **NLGC Goal**



based the success of the strategy goals

