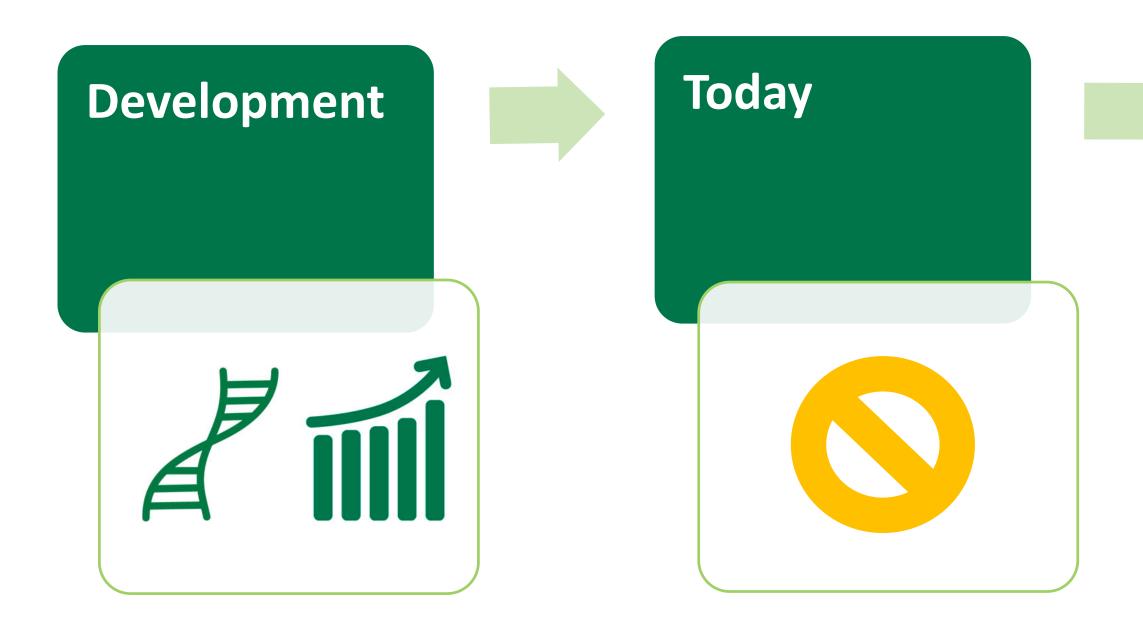
## **Genetics adoption strategy**

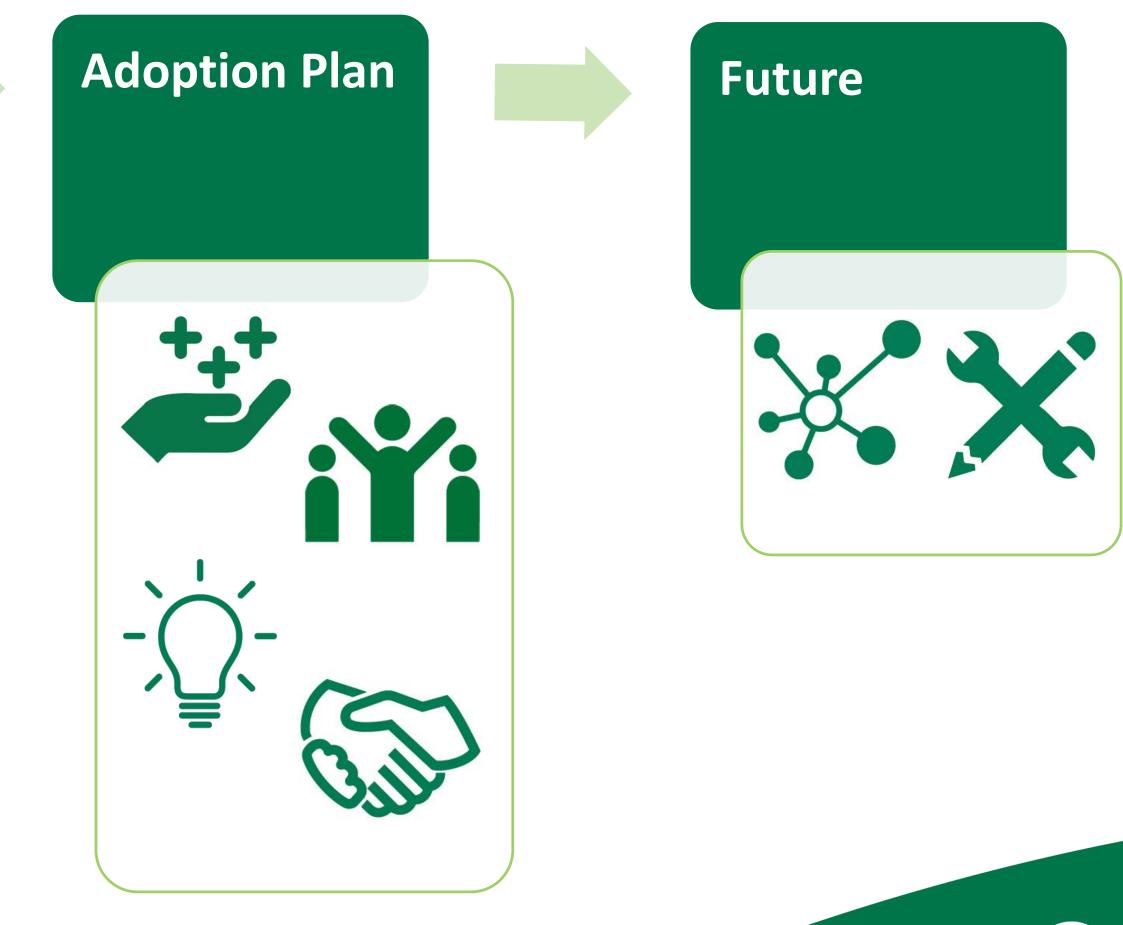
### Livestock Breeding and Genetics Forum





# Australian livestock genetics journey







## **Genetic evaluation – AU development and growth**

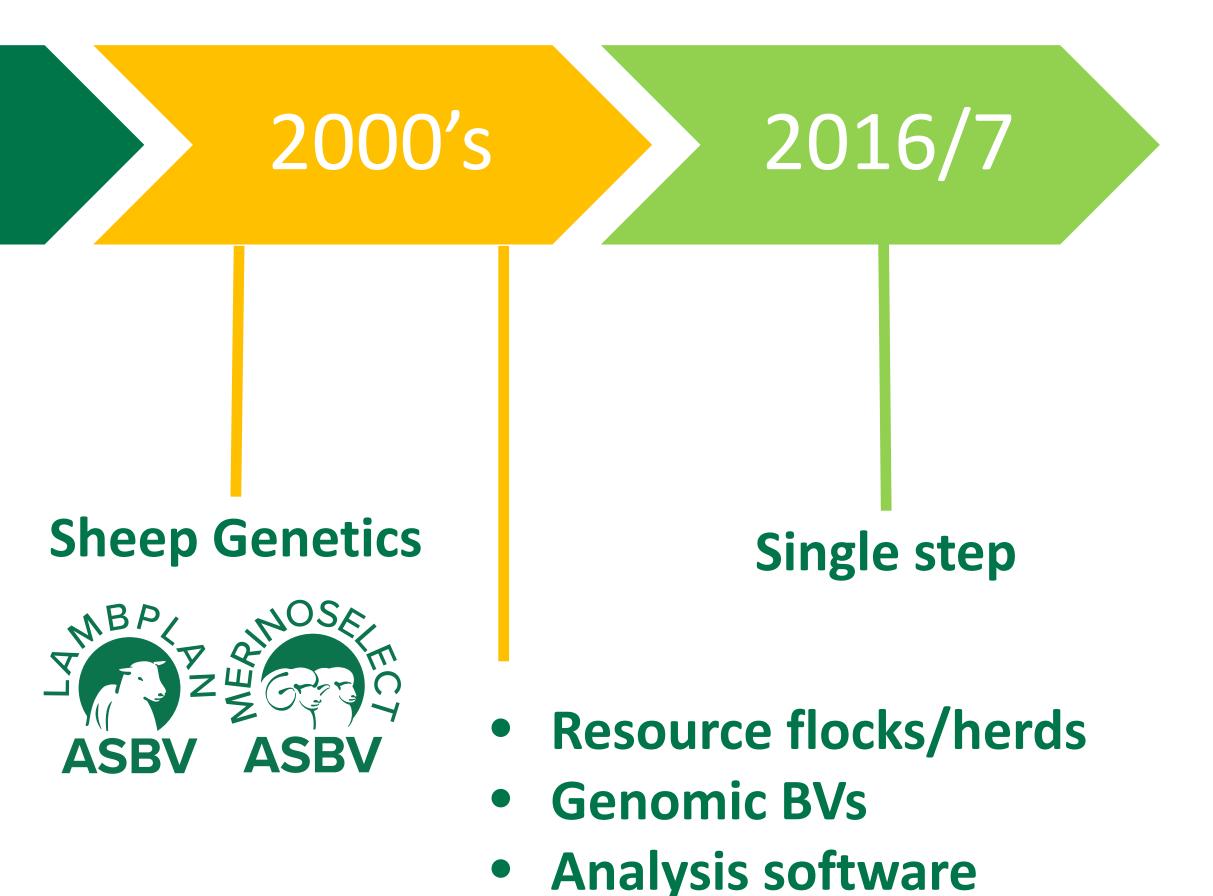


MB,

**ASBV** 



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

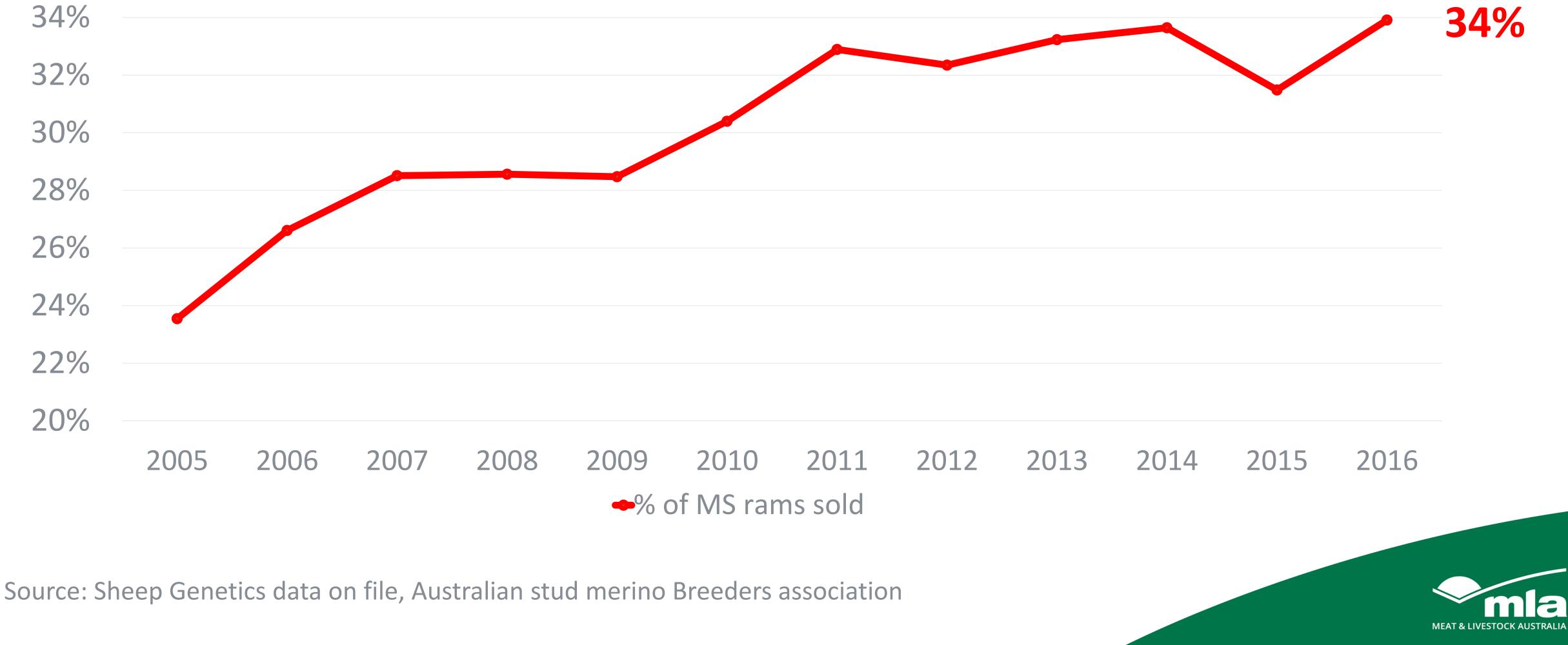


updates



# **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

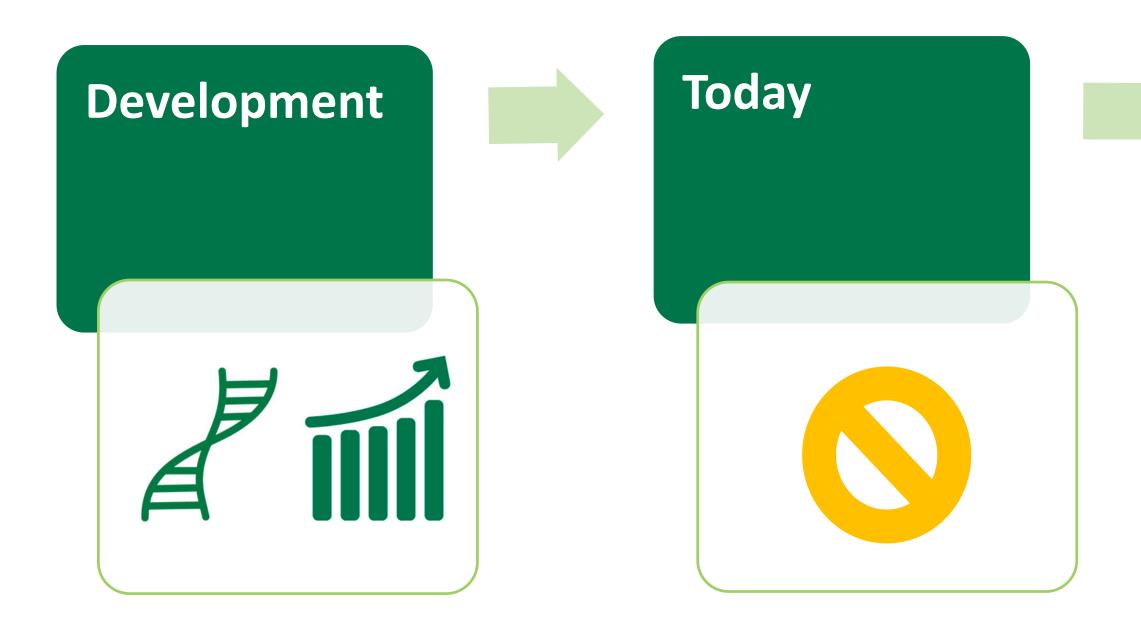
Complex and difficu system /language

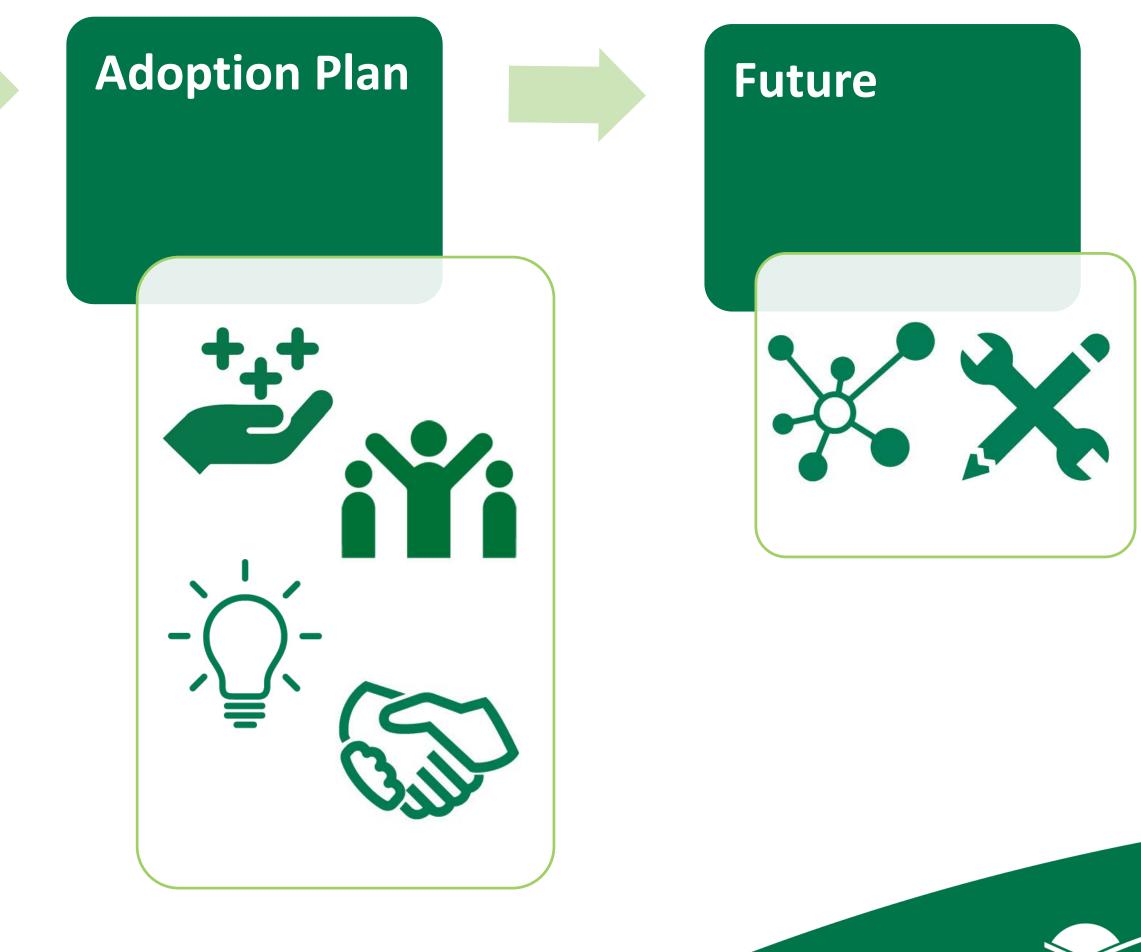
- Complex language > particularly for the commercial sector
- The difficulty and time taken to record and submit phenotypic data

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

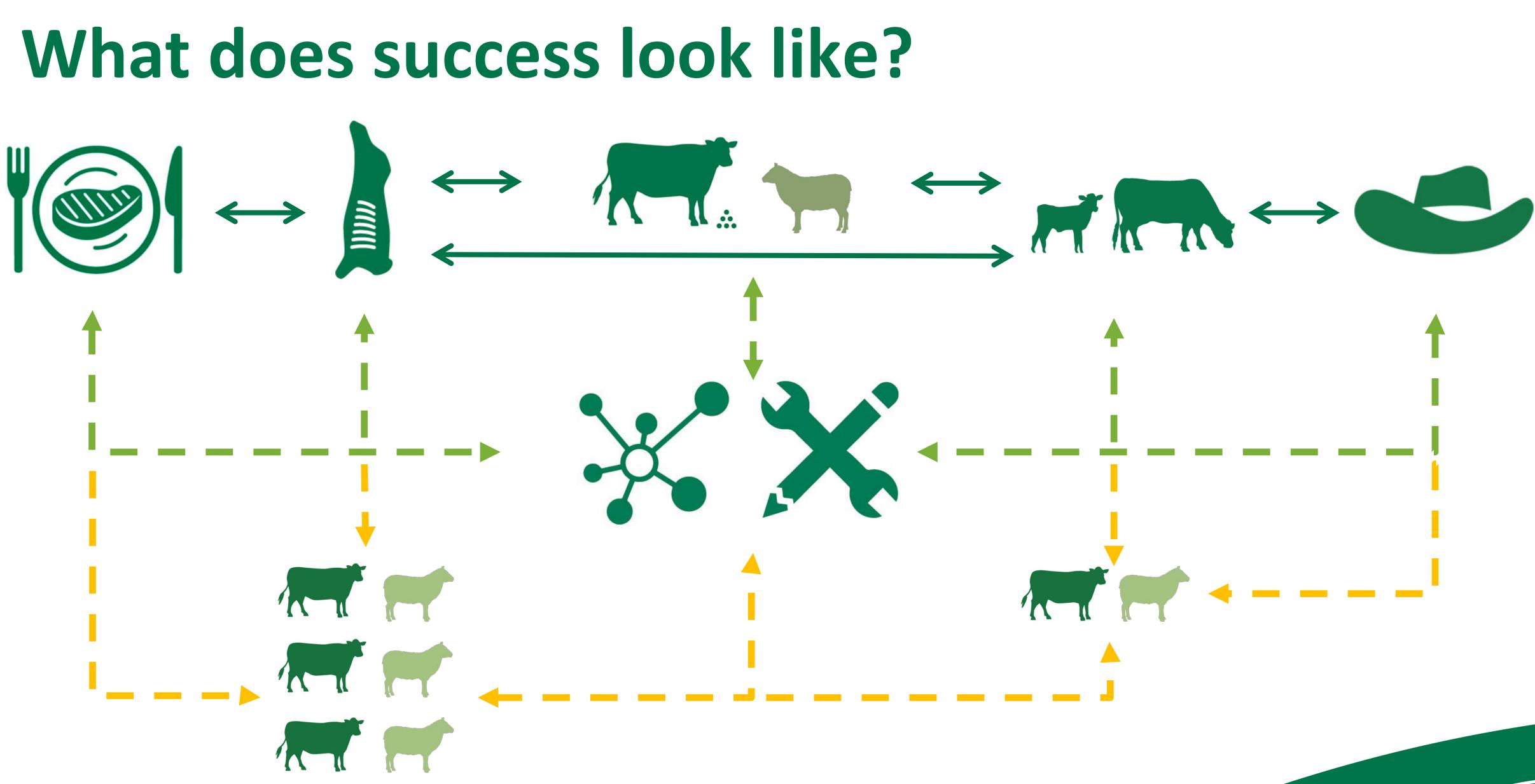


# Australian livestock genetics journey



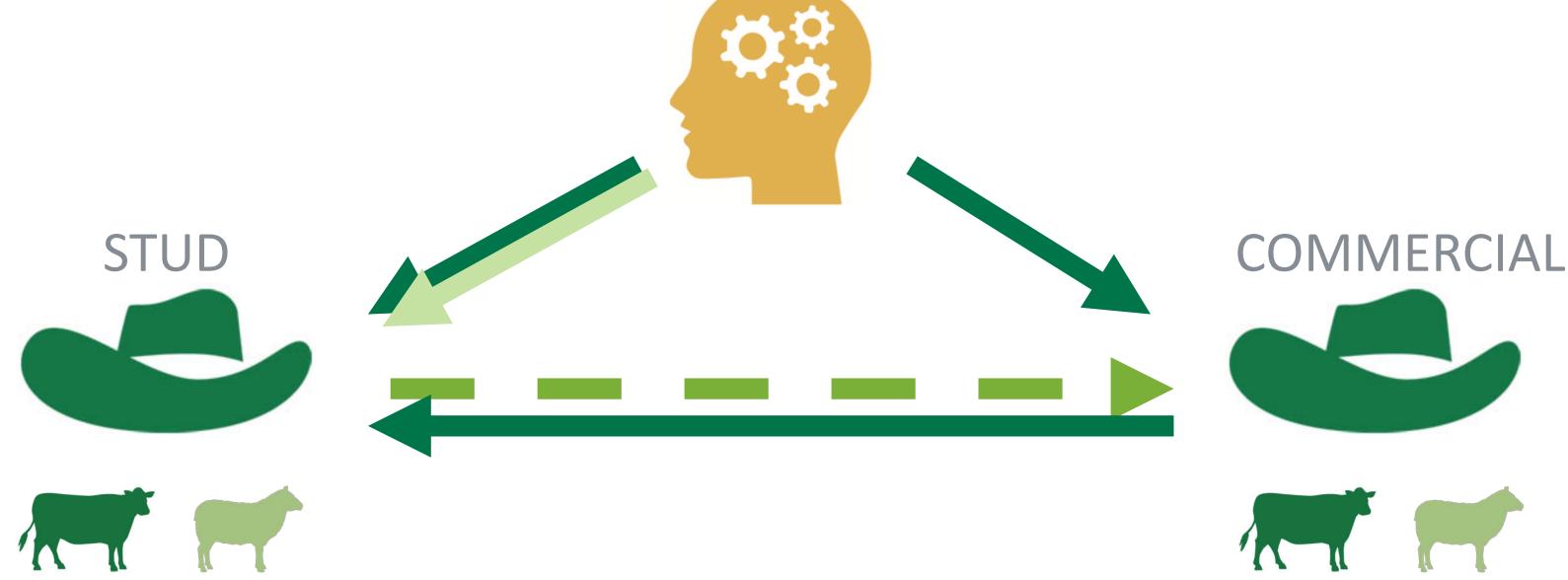




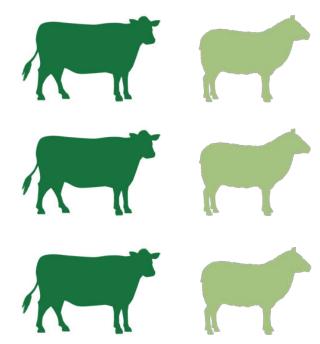




# **Genetic adoption focus**









## 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**

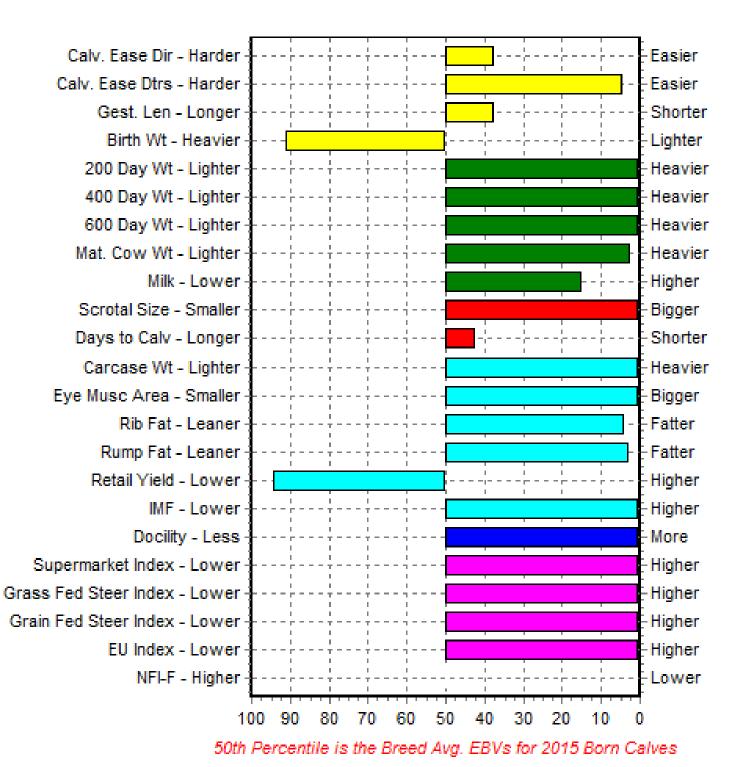
- **Simplify EBVs/ASBVs** 
  - Trait grouping e.g. fertility, growth
  - Stars?

- 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

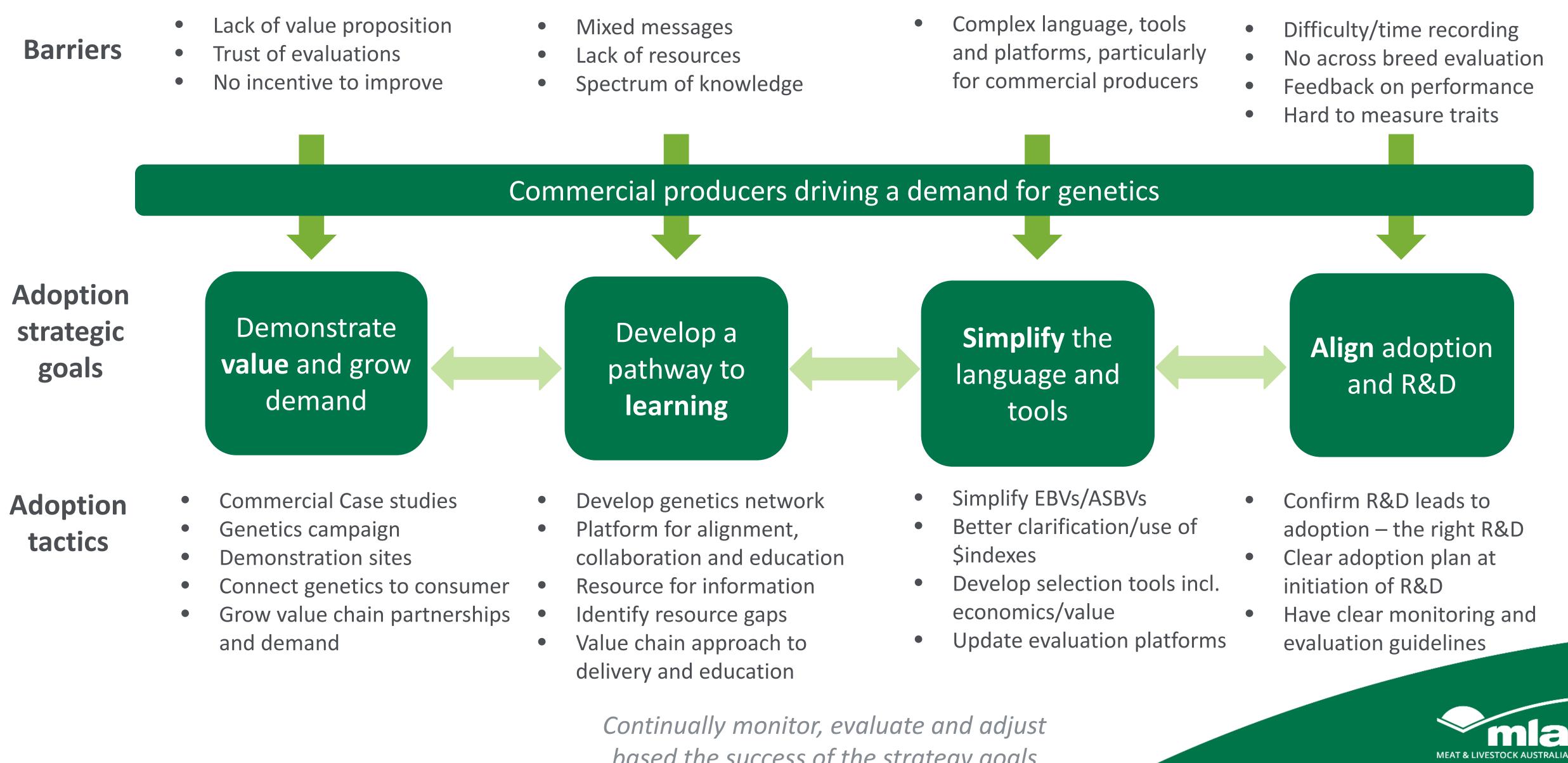






## **Genetics Adoption Plan**

#### 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

