

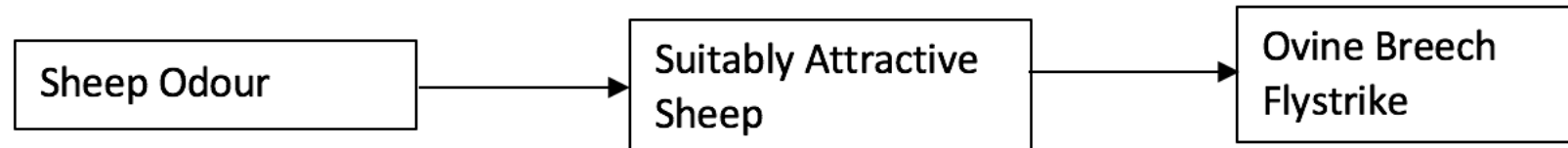
2018 BREECH FLYSTRIKE RD&E TECHNICAL UPDATE

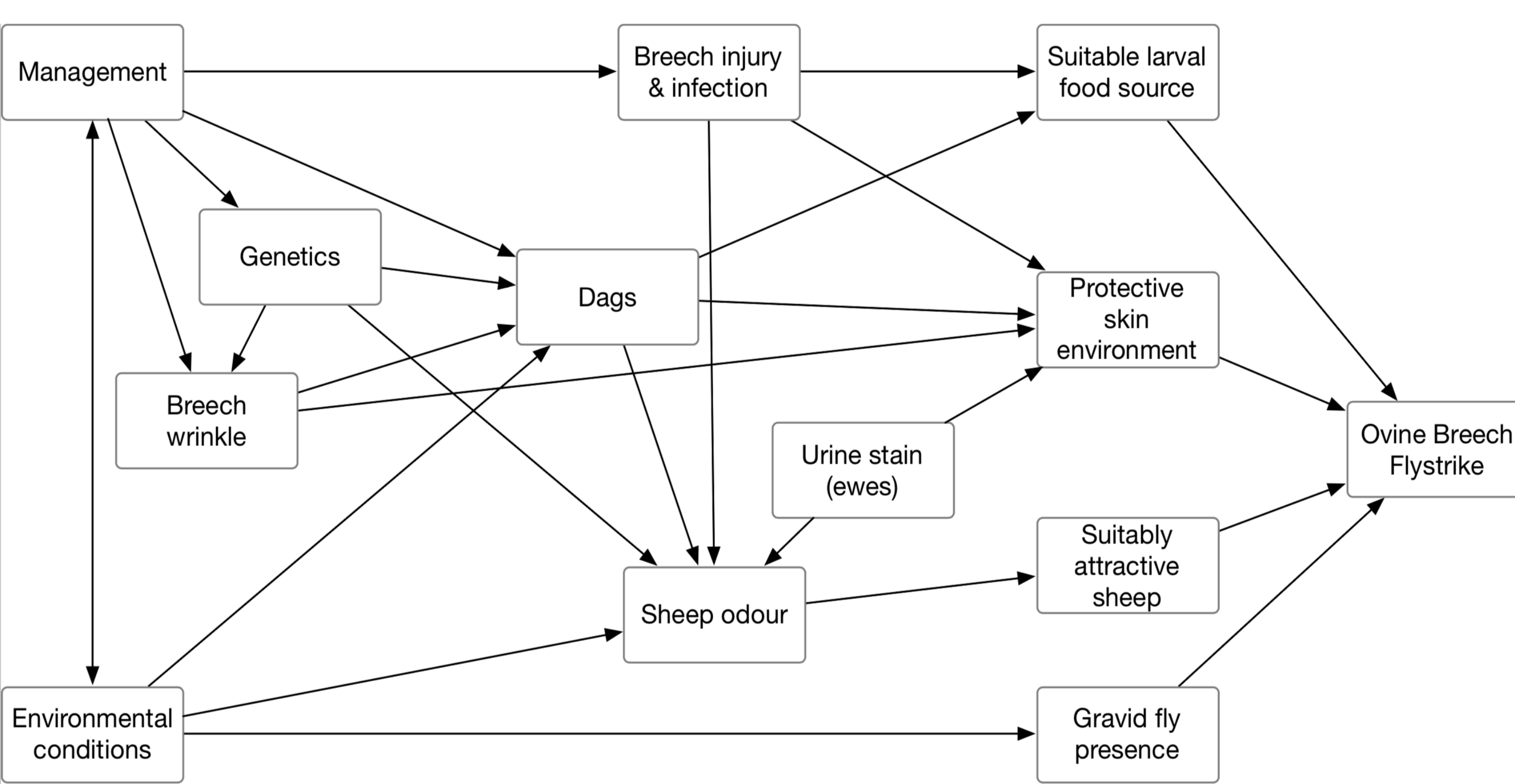
Welcome & Overview

Bridget Peachey – AWI

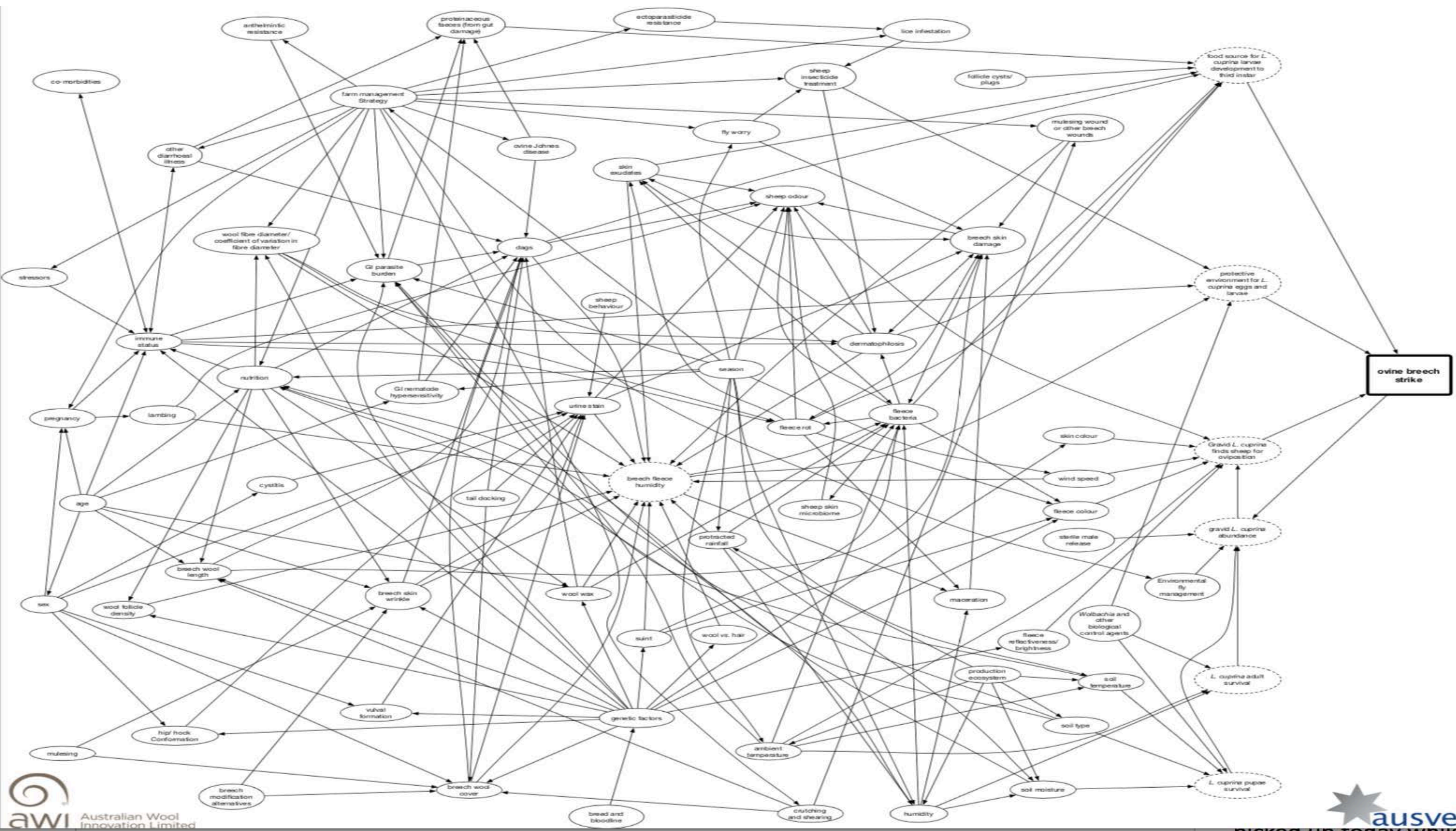
17 July 2018






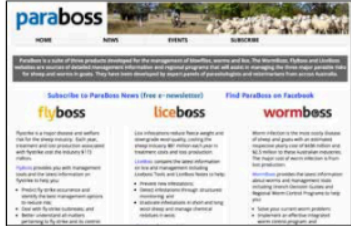

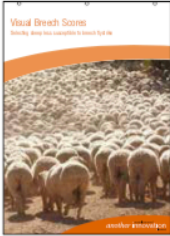







What do you get when you lock an epidemiologist, entomologist, geneticist, parasitologist and an animal scientist in a room for the day?



Timeline of significant events in Breech Flystrike R, D & E

<p>AWI Breech Flystrike R&D Program established</p> <p>Inaugural quarterly AVA audit of AWI Breech Flystrike R&D Program undertaken</p>	<p>Tri-solfen® registered for mulesing (Bayer Australia)</p>  <p>FlyBoss launched</p> 	<p>Categories for Non-Mulesed, Ceased Mulesed and Pain Relief included in the National Wool Declaration</p>	<p>Anti-flystrike clips commercialised (Leader Products)</p>  <p>AVA audits of AWI Breech Flystrike R&D Program undertaken every six months</p>	<p>Reviews of genetic progress in Breech Flystrike resistance undertaken annually</p>	<p>ParaBoss launched</p> 	<p>Australian Qualifications Framework endorse National Mulesing Accreditation Program training</p> <p>SkinTraction registered through APVMA</p>	<p>Buccalgesic® registered for mulesing (Troy Laboratories)</p> 																		
<p>2005</p>	<p>2006</p>	<p>2007</p>	<p>2008</p>	<p>2009</p>	<p>2010</p>	<p>2011</p>	<p>2012</p>	<p>Visual Score Guide for Breech Flystrike Indicators released</p>  <p>National Mulesing Accreditation Program released (Kondinin Group)</p>	<p>Partial Blowfly DNA gene sequence published</p> <p>Inaugural six monthly review of genetic progress in Breech Flystrike resistance undertaken</p>	<p>Inaugural Biennial Breech Flystrike RD&E Update held</p>	<p>Australian Sheep Breeding Values for key breech flystrike traits released</p> <table border="1" data-bbox="1010 1312 1312 1399"> <thead> <tr> <th>YWEC</th> <th>NLW</th> <th>EBWR</th> <th>EBCOV</th> <th>LDAG</th> </tr> </thead> <tbody> <tr> <td>-73 90%</td> <td>5% 72%</td> <td>-1.0 96%</td> <td>-1.1 92%</td> <td>-0.5 90%</td> </tr> </tbody> </table> <p>Annual AWI Animal Welfare Forum established</p>	YWEC	NLW	EBWR	EBCOV	LDAG	-73 90%	5% 72%	-1.0 96%	-1.1 92%	-0.5 90%	<p>Sheep parasite ecdysone receptor - based screen identified potential new blowfly drug targets</p>	<p>73% of mulesed Merino receive pain relief</p> <p>Visual Score Guide including Breech Flystrike Indicators updated and re-released</p> 	<p>Complete Blowfly DNA gene sequence published</p> <p>10% of whole wool clip reported as Not Mulesed</p> <p>Metacam® registered for Pain and Inflammation (Boehringer-Ingelheim)</p>	<p>Managing Breech Flystrike Manual updated and released</p>  <p>Planning for a Non-Mulesed Merino Enterprise Manual released</p> 
YWEC	NLW	EBWR	EBCOV	LDAG																					
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BREECH FLYSTRIKE STRATEGY 2017/18 – 2021/22

THE FIVE KEY PILLARS OF AWI INVESTMENT

The Breech Flystrike Strategy provides direction for AWI investment in sound, scientific solutions for the management of breech flystrike to improve lifetime animal welfare, address supply chain expectations and increase the demand for Australian wool.

BREEDING AND SELECTION

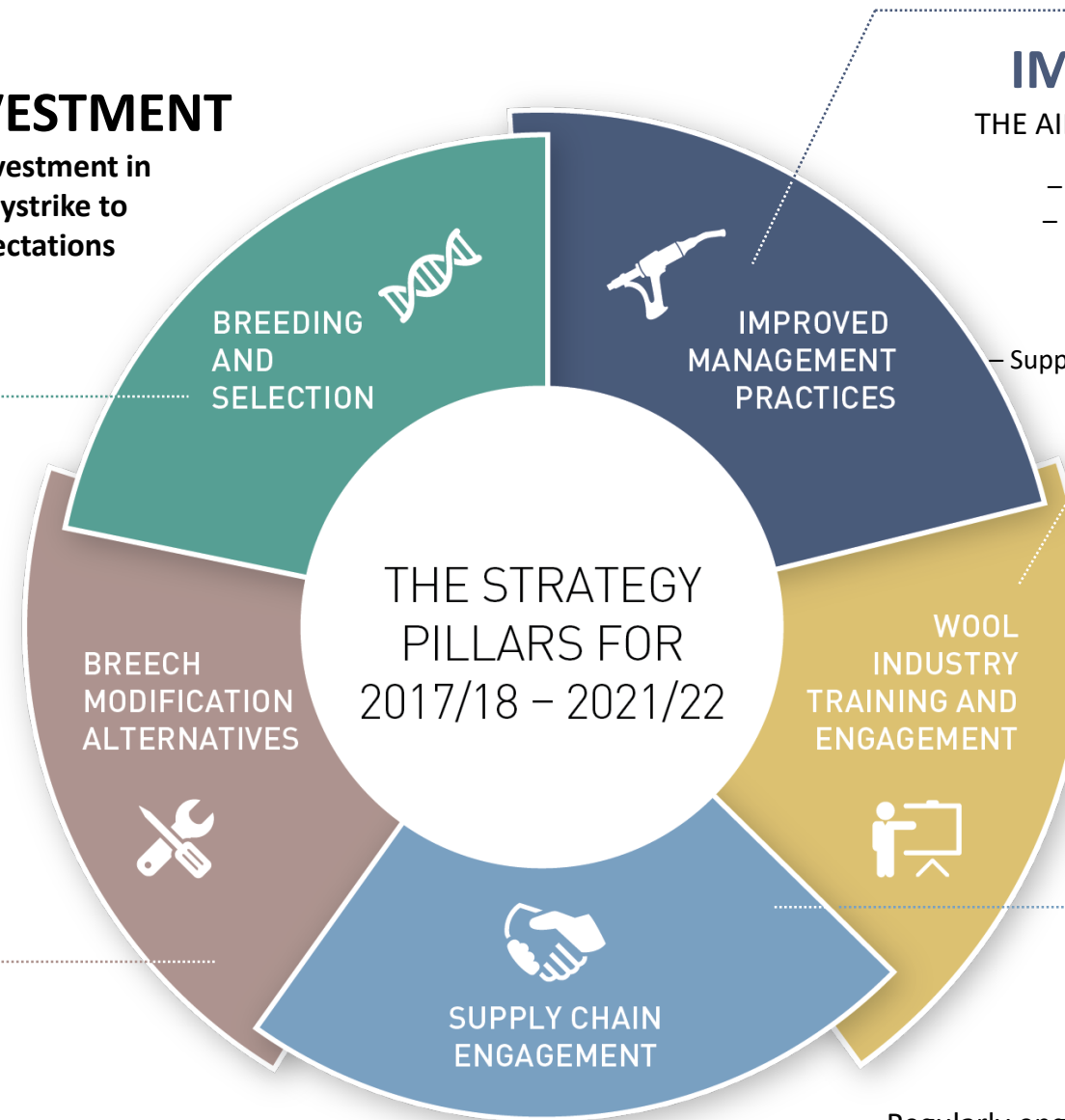
THE AIM: Long term sustainable solutions to reduce the risk of breech flystrike.

- Understand the performance and economic consequences of breeding for reduced breech flystrike.
- Investigate the, as yet unknown, factors that cause breech flystrike.
- Improve the accuracy and robustness of breech flystrike traits along with other welfare traits such as worm resistance and survival.
- Better understand how to reduce the incidence of dags and urine stain through breeding.

BREECH MODIFICATION ALTERNATIVES

THE AIM: Breech modification alternatives to reduce the reliance on mulesing.

- Undertake further R&D to refine the application protocols for breech modification alternatives to support their commercial viability.



IMPROVED MANAGEMENT PRACTICES

THE AIM: Improved management practices to advance lifetime welfare.

- Invest in getting new parasite control treatments and vaccines to market.
- Ensure access to information on parasite management and use of existing chemical treatments.
- Investigate longer acting, cost effective pain relief options for painful husbandry practices.
- Support for further National Mulesing Accreditation Program (NMAP) training.

WOOL INDUSTRY TRAINING AND ENGAGEMENT

THE AIM: Adoption of best practice strategies to improve the lifetime welfare of sheep and reduce reliance on mulesing.

- Develop and implement education, training and extension strategies to improve lifetime welfare of sheep and reduce reliance on mulesing.
- Monitor, evaluate and improve the success of education, training and extension strategies.
- Engage with woolgrower advisors on the RD&E program.

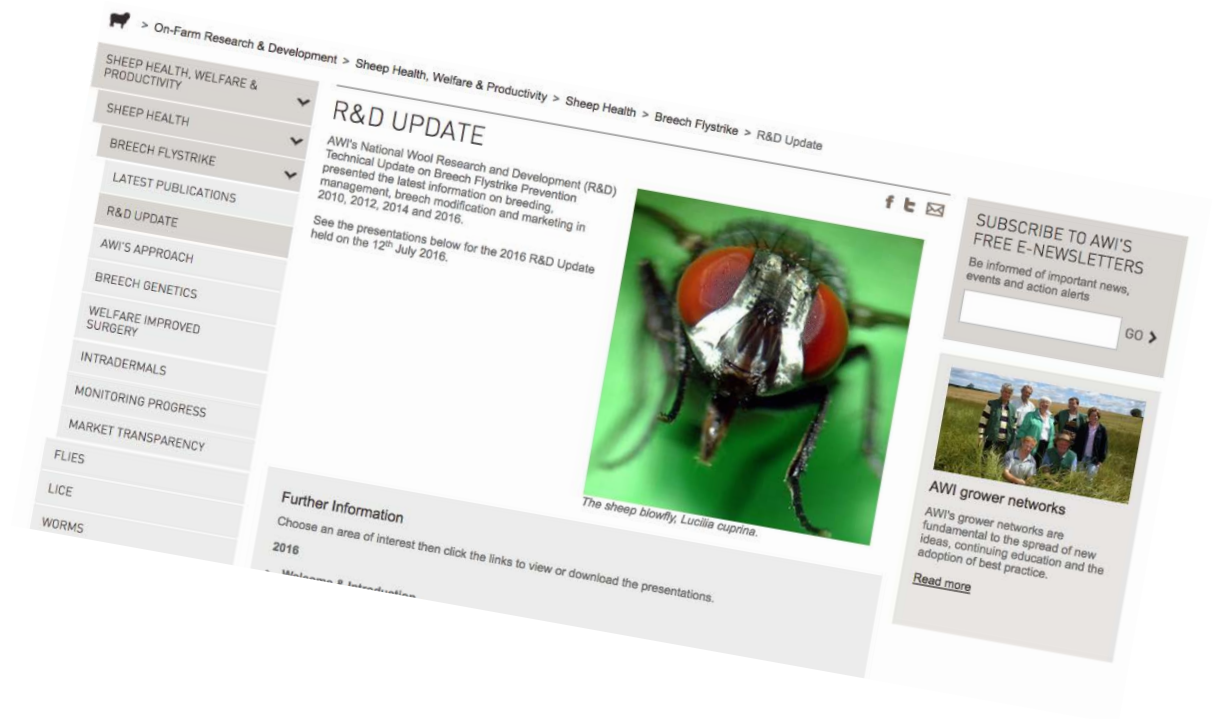
SUPPLY CHAIN ENGAGEMENT

THE AIM: International and domestic stakeholders support the Australian wool industry.

- Regularly engage with domestic and international stakeholders to ensure they understand best practice management of breech flystrike and associated welfare implications.
- Minimise the risk of regulatory measures that may restrict the ability of woolgrowers to select the most appropriate practices for their farming system.
- Consult with Australian wool and sheep industry organisations.

Housekeeping

- Breaks
- Powerpoint presentations (www.wool.com)
- Evaluation of day
- Welcome Scott Williams – Forest Hill Consulting



Australian Wool Innovation acknowledges the support and commitment to the Breech Flystrike RDE program





This publication is based on information presented at the Australian Wool Innovation Limited (AWI) National Wool Research and Development Technical Update on Breech Flystrike Prevention held on 17th July 2018. Some information in this publication has been contributed by one or more third parties and licenced to AWI, and AWI has not verified whether this information is correct. This publication should only be used as a general aid and is not a substitute for specific advice. Any reliance on the information contained in this publication is done at your own risk and to the extent permitted by law, AWI and any third party contributors exclude all liability for loss or damage arising from the use of the information in this publication. Except to the extent permitted under Copyright Law no part of this publication may be reproduced by any process, electronic or otherwise without the specific written permission of AWI. Neither may information be stored electronically in any form whatsoever without such permission. AWI gratefully acknowledges the funds provided by the Australian government to support research, development and marketing of Australian wool. GD2792