Technical Report

Program and KPI: Sub program 5.3 KPI 3.35

Report Title: Final Report of The Supply Chain Group – 2020 to 2022

Prepared by: S.M. Miller

                         The University of Adelaide

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Citation

Acknowledgments

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Abstract

The Supply Chain Group is the conduit for the collaboration, co-investment, and capacity building for Advanced Livestock Measurement Technologies (ALMTech), MLA, AMPC, and participating partners in the red meat industry. The group has a common focus on the research development, extension, and adoption of the science of lean meat yield, eating quality and health attributes, objective carcase measurement, genetics, and producer feedback.

A critical success factor of the Supply Chain Group's meetings is its face-to-face format. As such, the meetings of the group provide its members with a unique relationship-building and networking forum to discuss ideas, peer review, and deliver the current and develop new/large national collaborative projects to grow the red meat supply and value chains. This format also affords the group's early career professionals in the industry, and postgraduate researchers the highly valued opportunity to forge relationships across the supply chain that underpin their growth, development, and future career contributions to the industry. Between 2019 and 2022, 24 members of this cohort benefitted greatly from their participation in the Supply Chain Group.

Although scheduled to meet twice yearly, the group was limited to being able to convene three times over the life of the ALMTech project. A period of recess was imposed between February 2020 and November 2022 (loss of four meetings) due to the impacts of COVID on members' ability to meet face-to-face. Despite the limited opportunities to meet, members of the group placed a high value on each of the three meetings (average meeting score = 8.5 / 10). Member participation at the Adelaide meeting (November 2022) reached an all-time high for the group.

The current funding support for the group concludes at the completion of the ALMTech project. However, current members strongly support the desire to explore opportunities for the group to continue its functions to support innovation in the supply of livestock, processing and measurement of carcasses, and use of objective carcase data along the red meat value chain.

1. Background to the Supply Chain Group

The Supply Chain Group had its origins as the Lamb Supply Chain Group. The LSCG was formed in 2007 by the Cooperative Research Centre for Sheep Industry Innovation (Sheep CRC), in partnership with Meat & Livestock Australia, and the Australian Meat Processors Corporation (Hancock *et al*. 2021). The transition to the Supply Chain Group occurred with the assistance of ALMTech in 2019 as it expanded to include the interests of the beef supply and processing sector.

The Supply Chain Group is the conduit for the collaboration, co-investment and capacity building for Advanced Livestock Measurement Technologies (ALMTech), MLA, AMPC and participating partners with a common focus on:

> *"The research development, extension and adoption of the science of lean meat yield, eating quality and health attributes, objective carcase measurement, genetics, and producer feedback. Where appropriate, the RDEA is embedded in participating Supply Chains from Day 1. The Supply Chain Group affords a place to discuss ideas, peer review, and deliver the current and develop new/large national collaborative projects".*

The overarching and key focus and imperatives of the Supply Chain Group (SCG) are those of the ALMTech Project and its subprograms:

- Measurement of Lean Meat Yield.
- Measurement of Meat Eating Quality.
- Compliance to specification (carcase composition, quality and health).
- Producer feedback to initiate on-farm practice change.
- Optimisation to maximise processor profitability.

The ALMTech / MLA SCG provides governance in the development and delivery of:

- *Economic analysis* via Lamb and Beef Value Calculators of increasing LMY through specific abattoirs / supply chains whilst maintaining eating quality.
- *Development and adoption of Lean Meat Yield (LMY)* prediction methods (some new) and eating quality.
- *Support and development of Supply Chains* with a focus on LMY and EQ measurement, feedback, and supplier training for red meat.
- *Focused training and development for livestock suppliers* in specific supply chains with relevant products and services of ALMTech and its partners.

Mission

Enabling beef, sheep and pig producers with access to more accurate descriptions and feedback of the key attributes that influence the value of their livestock, including carcase lean meat yield, eating quality, and compliance to market specifications.

Meetings

1. March: Annual operational plans - development and review, project updates, selected snapshots.
2. September: New science and discussion papers.

All Meetings: To include relevant tours, student snapshots, invited guests (especially in the meeting State).

<u>Membership</u>

Membership of the Supply Chain Group includes approximately 20 managers, account managers, scientists, coordinators and extension officers from varying institutions and businesses across Australia, and approximately 10 supply chains. Members are;

- "Future outcome" orientated, display and empower a "can-do" attitude in work teams.
- Bring new ideas, concepts and technology to meetings or Coordinator's attention
- Offer appropriate assistance and guidance; especially when important SCG specific timelines are slipping.

<u>Membership Criteria</u>

All members organise a suitable proxy should they be unable to attend.

- MLA staff (one per business unit) – must be involved in ongoing activity / actions in the above focus area / projects, other staff welcome as guests for sessions.

- Supply Chains – must have collaborations and co-investment in one or more of:
  - Data metrics / analysis.
  - Interface of livestock procurement: processing.
  - Feedback systems based on objective carcase measurement (OCM) to increase compliance.
  - OCM synergies with automation (where appropriate).
  - Meat Science / on-farm production systems / whole of supply chain focus.
  - Shared / collaborative milestones and work plan with either MLA or ALMTech, which would involve 2-3 Specific action orientated meetings per year.
  - Intended long term commitment to collaborate & attend Supply Chain Group meetings for continuity.
  - Will attend the whole meeting, not leaving early.

<u>Ground Rules, Mode of Operation and Values</u>

The SCG operates in accordance with *Chatham House Rule*; where some information can be generalised and summarised, but use it with caution, and if in doubt, ask.

"When a meeting, or part thereof, is held under the Chatham House Rule, participants are free to use the information received, but neither the identity nor the affiliation of the speaker(s), nor that of any other participant, may be revealed. The Chatham House Rule originated at Chatham House with the aim of providing anonymity to speakers and to encourage openness and the sharing of information. It is now used throughout the world as an aid to free discussion. In cases where the Rule is not considered sufficiently strict, a discussion may be held 'off the record' or "in-confidence".

SCG members use common sense as to what is in-confidence and cannot be relayed throughout industry. All detail and company sensitive information will be in-confidence.

<u>SCG Meetings</u>:

- Members participate in both (2) SCG meetings per year. *If a member can't attend, the member should brief and send a proxy, and advising the SCG Coordinator as to who is attending – an essential for capacity building*.

- Provide time and travel in-kind from your current programs and business.

- Identify:
  - Date of the next meeting.
  - Location of the next meeting - meetings move around Australia to engage "thought leaders".
  - Time of the day - to suit OH&S travel logistics.

The SCG is one of "collaboration", i.e.:

- Work as a team when working with Supply Chains;
  - Building industry relationships.
  - Identifying and developing opportunities.
  - Contributing relevant products to the Prospectus.

- Clearly articulate any recognised existing and established lines of communication and relationships with identified supply chains.

- SCG members may work with Supply Chains on individual projects, BUT when doing that you should consider:
  - On-going relationship building (and ideally not deleterious).
  - Identifying opportunities for the SCG.
  - What impact it might have on others in the SCG (and ALMTech, MLA and other State DPI's).
  - Sharing information, activities and outcomes with SCG or Coordinator.

2. Supply Chain Group program 2019 - 2022

During the course of the ALMTech II project, three meetings of the Supply Chain Group were conducted. These were in October 2019 (Sydney), February 2020 (Brisbane) and November 2022 (Adelaide). The agendas for each meeting are provided as appendices to this report.

3. COVID impacts

Between the February 2020 meeting (Brisbane) and the November 2022 meeting (Adelaide), COVID-19 negatively impacted the ability of the group to gather together to conduct face-to-face meetings.

Due to the sequence of national and state-imposed travel restrictions and the subsequent risk of COVID transmission prior to the rollout of the national vaccination program, the Executive of the Supply Chain Group agreed to place the group into recession until it was generally safe for all members to travel and congregate freely.

A critical success factor of the group is the face-to-face aspect. As the group brings together a wide diversity of people from across the supply chain who generally do not interact together in the course of their daily business activities, the ability to meet and build relationships between members is vital. The networking opportunities that the Supply Chain Group, and the Lamb Supply Chain Group before it, have provided over the past 15 years have driven a uniquely collaborative, innovation-driven era that has led to transformative technologies being adopted by the industry to underpin a new era in objective carcase measurement, and the use

of data to underpin decision making along the value chain. Consequently, the decision to suspend the meeting schedule until the resumption of travel was made with considerable care to both the members and the functioning and impact of the group.

With COVID travel risks diminishing substantially in the latter half of 2022, the Executive resumed planning to reconvene the group, and a highly successful meeting was delivered in Adelaide in November 2022.

4.   The value of Supply Chain Group meetings

4.1.   Sydney, October 2019

Meeting self-evaluation score – 8.2 / 10

Comments from meeting participants:

Positive feeling in the room & better environment this time for sharing opinion.
Great feedback & discussion.
Really great vibe.
Good, very good etc.
Improvement from the previous meeting

4.2.   Brisbane, February 2020

Meeting self-evaluation score – 8.4 / 10

Comments from meeting participants:

Diverse and interesting.
Nice meeting, good commitment from all participants.
Pretty good – good agenda; mixed and mostly new.
Solid meeting.
Constructive.
Excellent meeting.
Best meeting!
Great.
Good meeting – enjoyed content.
Interesting points of discussion and topics - made it clear to see the implementation of data but it was largely data focussed; some variation would be worthwhile to keep up to date across the board.
Positive – but worry that we discuss similar things at each meeting but don't progress with results as much as we should.
Good range of topics but very focussed on processor sector of supply chain.
A lot more strategic – great topics leading to great conversation.
Good mix of research and business outcomes.
Always great! Positive meeting.
Very interesting, good insight, forward thinking presentation looking at what the industry can do. A lot of content to absorb!

4.3.   Adelaide, November 2022

Meeting self-evaluation score – 8.8 / 10

Comments from meeting participants:

The value of being in a room with others face-to-face can never be underestimated for discussing ideas, concepts and the potential use of new technologies for the industry.
Amazing presentations that helped to understand supply chain issues, challenges and successes.
Great for transparency, technical information and building relationships.
Valuable to be face-to-face again.
Breakout session was great to drive conversation and collaboration.
Excellent to hear processor's experiences with the adoption of new technologies.
Robust discussions were excellent.
Impressive research was shared.
Wonder how we continue beyond ALMTech wrapping up?
Content was brilliant – wide range of topics and great speakers

5.   Participation by early career professionals / postgraduates

Since ALMTech funding of the group commenced in 2019, 24 early career professionals and/or post-graduates were welcomed into and participated in the three Supply Chain Group meetings (see table below). Many within this cohort contributed to the formal meeting programs by delivering presentations to the group as agenda items.

In all cases, the networking opportunities provided by the Supply Chain Group meetings have enabled them all to establish a presence within the industry and have provided them with critical supply chain connections to collaborate with, draw upon for professional development, and develop opportunities to grow the red meat industry into the future.

Name	Affiliation	Name	Affiliation
Sarah Stewart	Murdoch University	Matt Martin	NH Foods
Honor Calnan	Murdoch University	Eddie Jeanes	Woolworths Group
Steve Connaughton	Murdoch University	Claire Payne	Agriculture WA
Michelle Henry	Gundagai Meat Processors	Alice Ritchie	Agriculture Victoria
Chloe Gould	Teys Australia	Jack Cook	MLA
Joel Bentley	Australian Country Choice	Amy Lealiifano	Greenstock Pty Ltd
Rachael O'Reilly	Murdoch University	Aimee Bolton	JBS Australia
Jasmine Green	Teys Australia	Farrah Preston	University of Adelaide
Kiri Broad	Woolworths Group	Vince Wang	University of Adelaide
Will Atkinson	MLA	Peta Bradley	MLA
Rebecca Bennett	Australian Country Choice	Emily Duncanson	MLA
Naomi Leahy	MLA	Laura Grubb	Teys Australia

6. Future of the Supply Chain Group

Having been funded through the ALMTech project since 2019, the Supply Chain Group's future is dependent on securing additional funding from alternate source to continue beyond the project.

At the most recent meeting in Adelaide, the unanimous feedback from all members was to confirm the positive value that the Supply Chain Group contributes to the industry through collaboration in developing, evaluating and commercialising objective carcase measurement technologies.

The group will investigate future opportunities to continue its functions to support innovation in the supply of livestock, processing and measurement of carcasses, and use of objective carcase data along the red meat value chain.

7. References

Hancock, B.L., Gardner, G.E., Pethick, D.W. and Apps, R. (2021). Lamb supply chain group: a conduit for collaboration, co-investment and innovation. Proceedings of the 33rd Conference of Australian Association of Animal Sciences, Fremantle.

APPENDIX 1 – Agenda of the Supply Chain Group Meeting #33

"The new RD&E meeting for the year, check off on KPI's & future collaborations"

The Branksome Hotel and Residences, 60 Robey Street, MASCOT, NSW 2020

Day 1: Tuesday 15th October 2019, 10:00am – 5:30pm, Dinner @ The Branksome Rooftop Garden
Day 2: Wednesday 16th October 2019, 8:30am – 3:00pm

Supply Chain Group Attendees (16)
MLA - Richard Apps, David Packer, Sarah Strachan, Hamish Chandler, Demi Lollback
ALMTech - David Pethick, Graham Gardner, Steve Connaughton, Sarah Stewart, Wayne Pitchford, Sean Miller, Chris Smith
NSW Agriculture - Edwina Toohey
AMPC - Matthew O'Bryan
Agriculture WA - Robin Jacob

Supply Chains (4)
Michelle Henry - Gundagai Meat Processors
Chloe Gould - TEYS Australia
Julie Brookes, Eddie Jeanes - Woolworths Group
Paul Gibson, Joel Bentley - Australian Country Choice

Other Invited Guests (8)
Stephanie Fowler - NSW Department of Primary Industries
Alice Ritchie - Agriculture Victoria (for Tim Hollier)
Emily Duncanson - Integrity Systems Company / MLA (Wed 16th)
Alen Alempijevic - University of Technology, Sydney (Wed 16th)
Elke Hocking - Consultant & Livestock Producer, SA
Naomi Leahy - MLA
Steve Connaughton - ALMTech
Peta Bradley - Sheep Genetics
Malcolm McPhee - NSW DPI (Wed 16th AM)

Apologies (14)
David Bevis, Maria Crawford - Coles
Emma Winslow, Bruce Hancock - Primary Industries and Regions SA
Michael Crowley, Christian Ruberg -MLA
David Hopkins – NSW Agriculture
Peter McGilchrist, Honor Calnan, Daniel Brown - ALMTech
Dale Flanagan - Frewstal
Graham, Lyon - Fletchers International
Matt Martin – NH Foods
Mark Inglis – JBS Australia

Mode of Operation: "Chatham House Rules"

Item	Time	Day 1- Tuesday 15ᵗʰ October 2019	Response
		<u>**10.00am for a 10.30am start at The Branksome Hotel and Residences**</u> 60 Robey Street, Mascot **Arrive Sydney <u>PM-Monday 14ᵗʰ</u> or <u>AM-Tuesday 15ᵗʰ</u>.** Hotel shuttle bus or walk to The Branksome (15 min walk from airport).	ALL
	10:00 AM	**Morning tea will be available on arrival**	
1.	10:30 – 10:40 (10 min)	**Meeting Start – Welcome & Ground Rules**	RApps - Chair
2.	10:40 – 11:40 (60 min)	**ALMTech Program 5 – Extension and Adoption** • Outcomes and actions from the Adelaide workshop. • Carcase Optimisation Tool, Value Calculators & in-plant software planning.	WP / SM WP / CS
3.	11:40 – 12:30 (50 min)	**Language and Standards - Industry Calibration Working Group** • Whole carcase lean, fat, and bone% as a new trait into beef and lamb industry. • Beef standards for training cameras on human graders. • Chemical Fat% as a new trait into beef and lamb industry.	GG GG /SStewart SStewart
	12:30 – 1:15	**Lunch (45 minutes)**	
4a.	1:15 – 1:45 (30 min)	**EQ devices and tech - new horizons** • Frontmatec commercialisation plans. • JBS IMF camera on middle machine. • NMR.	DP /SS
4b.	1:45 – 1:55 (10 min)	• Optical Coherence Tomography.	RApps
4c.	1:55 – 2:10 (15 min)	• MEXA for eating quality.	GG / DP
4d.	2:10 – 2:30 (20 min)	• Raman Spectroscopy + NIR.	Steph Fowler
	2:30 – 2:40 (10 min)	**Peta Bradley - Sheep Genetics**	
5.	2:40 – 3:25 (45 min)	**Genetics x serial slaughter x IMF x muscle (LMY) experiment (lambs)** • 4 kill weights (15 -> 40kg). • Several genetic overlays (muscle/fat/LMY x IMF x growth - breeding value extremes). • All grain fed for last 2 kills	DP / DB
	3:25 – 3:45	**Afternoon Tea (20 minutes)**	
6.	3:45 – 5:30 (105 min)	**DEXA - new horizons** a. Finalisation of Lamb cross-site calibration. b. Industry plan for DEXA auditing. c. DEXA predicting lamb carcase fat score. d. DEXA predicting lamb quarter composition. e. Revisiting DEXA predicting cut weights. f. DEXA predicting eating quality. g. First Nuctech DEXA installation.	GG / Steve Connaughton
	6:30 - 9:00pm	**Pre-dinner Networking and Dinner – The Branksome Rooftop Garden**	

Mode of Operation: "Chatham House Rules"

	Time	Day 2- Wednesday 16th October 2019	Response
	7:00 – 8:00	**Breakfast**	**All**
7.	8:30 – 10:00 (90 min)	**3D Animal Imaging Systems** • Carcase and live animal scanning - Understanding of the current UTechSyd R&D, what are the limitations and where is the next big leap forward? • Interaction with NSW DPI R&D projects.	Alen Alempijevic ET
	10:00 – 10:20	**Morning Tea (20 minutes)**	
8.	10:20 – 12:00 (100 min)	**Supply Chain Feedback Systems** Feedback systems & Livestock Data Link review. • New directions. • Supporting producer engagement. • Decision support systems linked to feedback. • Supporting / interacting with proprietary systems. *Presentation + working groups*	Emily Duncanson
9.	12:00 – 12:30 (30 min)	Lamb LMY & EQ workshops for producers • Discussion of pilot workshop series. • Opportunities for further supply chain delivery.	Elke Hocking
	12:30 – 1:00	**Lunch (30 minutes)**	
10.	1:00 – 2:10 (70 min)	Supply Chain Group – revisit purpose, membership, rules/mode of operation, meeting schedule (interactive, group feedback).	**ALL**
11.	2:10 – 2:30 (20 min)	Listing of other Upcoming Events / Engagement in 2019/20.	**ALL**
12.	2:30 – 2:50 (20 min)	Self-evaluation of SCG Meeting – was it worth the investment?	**ALL**
13.	2:50 – 3:00 (10 min)	Next Supply Chain Group Meeting – location (reason) and date.	**ALL**
	3:00pm	**CLOSE - Afternoon Tea available will be available before departure**	

APPENDIX 2 - Agenda of the Supply Chain Group Meeting #34

"The Annual Reflection / Planning Forward Meeting"

The Colmslie Hotel and Function Centre
Wynnum Rd & Junction Rd, Morningside QLD 4170

Day 1: Tuesday 25th February 2020, 8.00am – 5:30pm
Day 2: Wednesday 26th October 2020, 8:30am – 3:00pm

Research, Development and Adoption Orgs (RR&DCs, ALMTech, DPIs, Universities)

MLA - Richard Apps, Christian Ruberg, Hamish Chandler, David Packer, Demi Lollback, Jessira Perovic, Will Atkinson, Gus Rose

ALMTech - Graham Gardner, David Pethick, Peter McGilchrist, Daniel Brown, Honor Calnan, Sarah Stewart, Wayne Pitchford, Sean Miller, Steve Connaughton

NSW DPI - Edwina Toohey, Steph Fowler

Ag Victoria - Kirstie Anderson

Ag WA - Claire Payne

PIRSA - Emma Winslow

Supply Chains

Michelle Henry, Gundagai Meat Processors

Chloe Gould & Laura Grubb, TEYS Australia

Julie Brookes, Woolworths Group

Paul Gibson, Australian Country Choice

Maria Crawford, Coles

Invited Guests

Chris Smith, Agbiz Solutions

Danny Meehan, Meehan AgriBusiness Solutions

Jason Strong, MLA (Tuesday 25th)

Roger McCracken, Foods Connected Ireland (Tuesday 25th)

Tom Redden, Foods Connected Australia (Tuesday 25th)

Craig Daff, Marel Cedar Creek (Tuesday 25th)

Carl Miller, Marel Cedar Creek (Tuesday 25th)

Owen Keates, Hitachi Consulting (Tuesday 25th)

Dean Gutzke, MLA (Wednesday 26th)

Lachie Hart, Stockyard Beef (Wednesday 26th)

Apologies

Graham Lyon (Fletchers International), Bruce Hancock (PIRSA), Rob Davidson (WAMMCO), Dale Flanigan (Frewstal), Sarah Strachan (MLA), Mark Inglis (JBS), David Bevis (Coles), Matt Martin (NH Foods), Matthew O'Bryan (AMPC), Tim Hollier (Ag Victoria)

Mode of Operation: "Chatham House Rule"

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(Chatham House)

Item	Time	Day 1- Tuesday 25th February 2020	Response
1.	8:00 – 10:30	**PLANT TOUR** **Australian Country Choice** **117 Colmslie Road, Cannon Hill** **Meet at the plant at 8.00 AM for induction to allow 8.30 AM start** *Transport will be available from the Colmslie Hotel at 7.50am for those staying overnight Monday 24th February.*	ALL
	10:45 - 11:15	**Morning tea on Arrival**	
2.	11:15 – 11:20 (5 min)	Meeting Start – Welcome & Ground Rules.	RApps - Chair
3.	11:20 – 11:50 (30 min)	Opportunities for objective measurement along the ACC beef supply chain.	Paul Gibson
4.	11:50 – 12:50 (60 min)	Snapshots from Supply Chains - 10 minutes each; current issues and opportunities facing supply chains in the year ahead, new opportunities for collaboration with the Supply Chain Group, ID new project opportunities.	Supply Chains
	12:50 – 1:30	**Lunch (40 minutes)**	
5.	1:30 – 2:00 (30 min)	Development and validation of a Chiller Assessment Unit & Sheep Carcase System - Cedar Creek Company.	Craig Daff
6.	2:00 – 2:40 (40 min)	MLA's role in supporting red meat sector growth - Jason Strong, MLA Managing Director.	Jason Strong
	2:40 – 3:00	**Afternoon Tea (20 minutes)**	
7.	3:00 – 4:40 (100 min)	a. Foods Connected – integration of the Lamb Value Calculator functions to support supply chain planning, monitoring and reporting. b. Woolworths' data partnerships, and opportunities to leverage supply chain data for industry benefit. • Presentation and discussion followed by group activity to identify and prioritise opportunities for data utilisation for industry benefit.	Roger McCracken, Chris Smith, Tom Redden, Julie Brookes
8.	4:40 – 5:20 (40 min)	Hitachi supply chain data aggregation project	Owen Keates
	6:30 – 9:00pm	**Pre-dinner Networking and Dinner – details to be advised**	

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	Time	Day 2- Wednesday 26ᵗʰ February 2020	Response
	7:00 – 8:30	**Breakfast**	**All**
9.	8:30 – 9:15 (45 min)	Brief ALMTech Update – focus on substantive achievements, activities planned, issues arising requiring input from the group. • P3 - Frontmatic camera commercialisation update. • P5 – Lamb Carcase Optimisation Tool Optimiser.	RApps – Chair
10.	9:15 – 9:30 (15 min)	Effect of time and temperature at grading on marbling score.	PM
11.	9:30 – 10:00 (30 min)	Support for lamb DEXA rollout. • What do we need to be able to deliver feedback to producers and assist processors to use DEXA information? • What is already being done & what do we have ready to go? • What gaps need to be filled?	GG, WP, SM
12.	10:00 – 11:00 (60 min)	What can livestock genomics offer Supply Chains? • Sheep Genetics & Breedplan. • Supplementing carcase data with scanning data. • Opportunities for use of commercial carcase data. • Group discussion.	DB, Sam Walkom, WP, Steve Lee
	11:00 – 11:15	**Morning Tea (20 minutes)**	
13.	11:15 – 11:55 (40 min)	Perspectives on the value of objective carcase information (eating quality and yield) within a premium red meat supply chain. Stockyard Beef.	Lachie Hart
14.	11:55 – 12:25 (30 min)	MLA Co-innovation program.	Dean Gutzke
	12:30 – 1:15	**Lunch (45 minutes)**	
15.	1:15 – 1:50 (35 min)	The process of establishing new traits for industry • Industry consultation • Carcase composition • Chemical IMF% • Managing parallel traits	GG, SM
16.	1:50 – 2:00 (10 min)	Livestock 2020. April 2nd, Best Western Airport Motel & Convention Centre, Attwood, Vic. • *"Identifying the big challenges and opportunities facing the sheep and cattle industries in southern Australia over the next 10 to 20 years".*	DP
17.	2:00 – 2:15 (15 min)	Listing of other Upcoming Events / Engagement in 2019/20.	ALL
18.	2:15 – 2:45 (30 min)	Self-evaluation of SCG Meeting (was it worth the investment?) and agenda topics for the next meeting.	ALL
19.	2:45 – 3:00 (15 min)	Next Supply Chain Group Meeting – location (reason) and date.	ALL
	3.00 pm	**MEETING CLOSE**	

APPENDIX 3 - Agenda of the Supply Chain Group Meeting #35

"The Annual Reflection / Planning Forward Meeting"

The Function (@The Beachouse)
Level 3, 4 Colley Terrace, Glenelg, SA

Day 1: Tuesday 8th November 2022, 8.45am – 5:00pm
Day 2: Wednesday 9th November 2022, 8:30am – 3:00pm

Research, Development and Adoption Orgs (RR&DCs, ALMTech, DPIs, Universities)
MLA - Richard Apps, Jack Cook, Dean Gutzke, David Packer, Demi Lollback, Jessira Saunders
AMPC – Stewart Shaw, Ann McDonald
ALMTech - Graham Gardner, David Pethick, Peter McGilchrist, Daniel Brown, Sam Walkom, Honor Calnan, Sarah Stewart, Steve Connaughton, Rachael O'Reilly, Wayne Pitchford, Sean Miller
NSW Department of Primary Industries - Steph Fowler, Todd Andrews
Agriculture Victoria – Kirstie Anderson
Agriculture WA – Claire Payne

Supply Chains
Amy Lealiifano, Greenstock Pty Ltd
Jasmine Green, Teys Australia
Kiri Broad, Woolworths Group
Maria Crawford, Coles
Mark Inglis, Thomas Foods International
Michelle Henry, Gundagai Meat Processors
Paul Gibson & Rebecca Bennett, Australian Country Choice
Rob Davidson, WAMMCO
Aimee Bolton & Brendon Geary, JBS Foods
Steve Martin, Australia Lot Feeders Association

Invited Guests
Chris Smith, Agbiz Solutions
Dale Flanigan, Meat Data Logic
Danny Meehan, Meehan AgriBusiness Solutions
Elke Hocking, Elke Hocking Consulting
Farrah Preston, Rachael Withers & Vince Wang, University of Adelaide
Ben Hayes, University of Queensland
Robert McLaughlin & Rob Dall, Miniprobes
Jordan Yoemans, MEQ
Wayne Bulloch, Columbit
Evan McCarney, Inmrmeasure

Apologies
Edwina Toohey, NSW DPI
Hamish Chandler, MLA
Robert Frew, Frew Foods International
Graham Lyon, Fletchers International
Julie Kelly, Woolworths Group

Mode of Operation: "Chatham House Rule"

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	Time	Day 1 - Tuesday 8th November 2021	Response
1.	8:45 – 9:15 (30 mins)	Meeting Start – Welcome & ground rules, introductions.	RApps - Chair

2.	9:15 – 10:30 (75 mins)	The state of play for OCM technologies for lamb & beef;
		• the accreditation process,
		• what techs are;
		   o 'in-play' now,
		   o near deployment, and
		   o remaining in the pipeline?
		   o Where to from here?
			GGardner / SStewart / PMcGilchrist (Murdoch / UNE / ALMTech)

3.	10.30 – 10.45 (15 mins)	Lamb DXA accreditation	SConnaughton
	10:45 - 11:00	**Morning tea (15 mins)**	
4.	11:05 – 11:30 (25 mins)	Supporting Supply Chains to 'test drive' OCM technologies in-plant.	DGutzke (MLA)
5.	11:30 – 12.00 (30 mins)	Snapshots from Supply Chains - focus on objective measurement. • Jasmine Green • Steve Martin	JGreen (Teys) SMartin (ALFA
6.	12.00 - 12.30 (30 mins)	The effect of IMF distribution and fineness on consumer eating quality	PMcGilchrist
7.	12:30 – 12:55 (25 mins)	Commercial evaluation and adoption of 'next generation' OCM technologies at Australian Country Choice.	Paul Gibson (ACC)
	12:55 – 1:40	**Lunch (45 mins)**	
8a.	1:45 – 2:15 (30 mins)	Lamb MSA MkII - Implementation of the lamb MSA cut x cook model; the model and how it was developed - new work coming up - key enablers - integration of MSA model into plant software - benchmarking variation in commercial lamb - barriers to adoption.	DPacker / DPethick
8b.	2:15 – 2:45 (30 mins)	Breakout session – group activity to identify opportunities to support adoption of the Lamb MSA model.	ALL
9.	2:45 – 3.10 (25 mins)	Development of ultrasound for live animal IMF measurement	Jordan Yeomans (MEQ)
	3:10 – 3:25	**Afternoon Tea (15 mins)**	
10.	3:30 – 3:55 (25 mins)	Engaging producers in the OCM journey & using carcase feedback.	EHocking (ALMTech P5)
11.	3:55 – 4:20 (25 mins)	*My Feedback* – the evolution of LDL.	JSaunders (ISC)
12.	4:20 – 4:40 (20 mins)	AMPC R&D update	Shaw/McDonald (AMPC)
13.	4:45 – 5:00 (15 mins)	Wrap up of the day & next steps / actions arising.	RApps / SMiller
	6:00 – 9:00pm	**Networking, Drinks and Dinner @ Sammys on the Marina** *1/12 Holdfast Promenade, Glenelg* *We will also use this occasion to recognise the career contributions of Mr Bruce Hancock & Professor David Pethick to the Australian Lamb Industry*	

Mode of Operation: "Chatham House Rule"

"When a meeting, or part thereof, is held under the Chatham House Rule, participants are free to use the information received, but neither the identity nor the affiliation of the speaker(s), nor that of any other participant, may be revealed." (Chatham House)

	Time	Day 2 - Wednesday 9ᵗʰ November 2022	Response
14.	8:30 – 9:00 (30 min)	Hot carcase IMF measurement using optical coherence tomography (OCT).	RMcLaughlin (Miniprobes)
15.	9.00 – 9:45 (45 min)	Lamb DXA commercialisation progress/successes/challenges - Supply chain experiences with DEXA installation and integration into plant operations; what it means to a supply chain, underlying challenges, what ongoing support is required?	ALMTech P5 MHenry (GMP) DFlanigan (FFI) RDavidson (WAMMCO)
16.	9:45 – 10:15 (30 min)	Carcase optimisation – evolution of the tools, application in supply chains (processor case study), longevity of the COT & the Value Calculators.	WPitchford / VWang / FPreston
	10:15 – 10:30	**Morning Tea (15 mins)**	
17.	10:30 – 11.00 (30 mins)	Developments in carcase traceability – development & application of crush-side genomics tests and blockchain to meat traceability.	Ben Hayes (UQ)
18.	11:00 – 11:25 (25 min)	Commercial implementation of QFOM beef grading systems.	Wayne Bulloch (Columbit)
19.	11.25 – 11.50 (25 min)	Nuclear magnetic resonance (NMR) prediction of IMF in hot lamb carcases.	Evan McCarney (Inmrmeasure)
20.	11:50 – 12:30 (40 min)	• Genetic analysis of eating quality (DB). • Analysis of ALMTech technologies (DEXA and MEQ) (SW). • Future opportunities to improve genetic gains (DB).	DBrown / SWalkom (UNE / ALMTech)
	12:30 – 1:15	**Lunch (45 mins)**	
21.	1:15 – 2:00 (45 mins)	What do ALMTech II's final 5 months look like & the future of the Supply Chain Group?	GGardner / ALL
22.	2:00 – 2:15 (15 mins)	Listing of other Upcoming Events / Engagements in 2022/23.	ALL
23.	2:15 – 2:45 (30 mins)	Self-evaluation of SCG Meeting (was it worth the investment?) and agenda topics for the next meeting.	ALL
24.	2:45 – 3:00 (15 mins)	Next Supply Chain Group Meeting – location (reason) and date.	ALL
	3.00 pm	**MEETING CLOSE**	