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LRIC Update

EFO Research in 2017/18

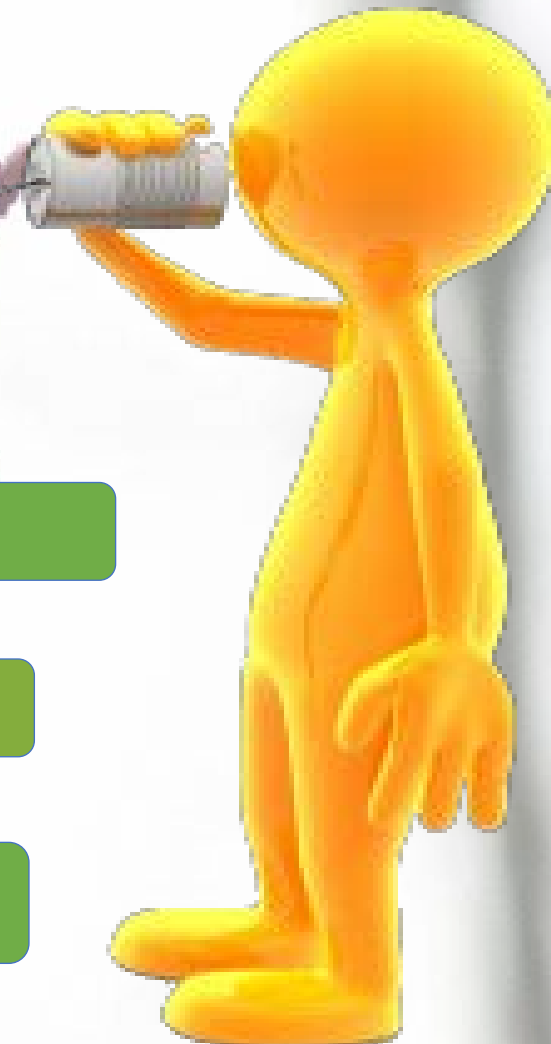
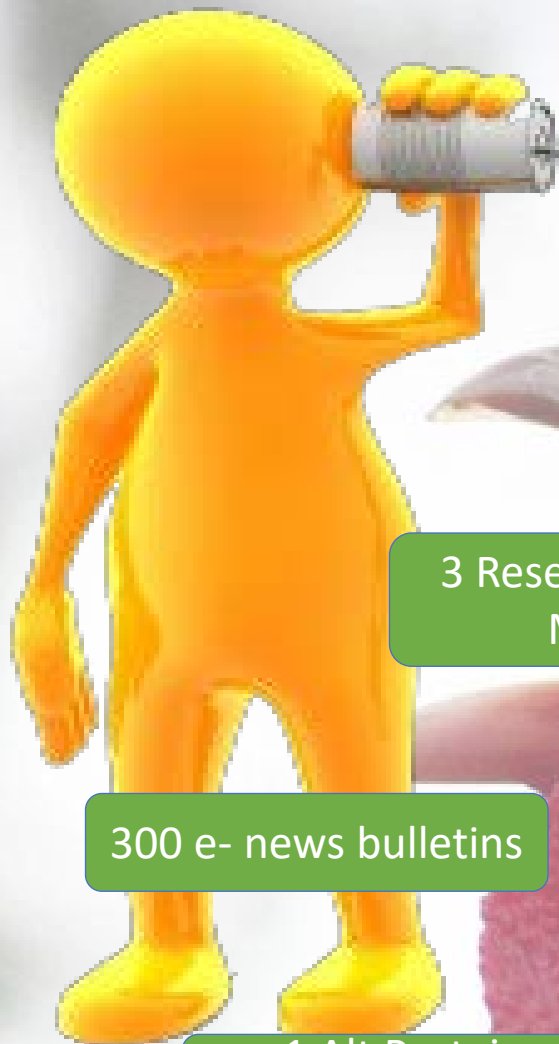
New Research Barn for Poultry

**Tim Nelson CEO**  
**Livestock Research Innovation Corporation**  
**28<sup>rd</sup> March 2018**

# Quick look back 2013-18

- Created research plans
- Development of the new research barns
- Ran multiple calls for proposals
- Presented producer priorities to OMAFRA
- Provided significant support for new faculty at Guelph
- Provided articles for many industry publications

# COMMUNICATIONS



14 full pages in  
Canada Poultry

X 175 Research  
Scouts

Ontario Farmer

65 LYRIC's  
>550 research  
results

3 Climate Workshops

3 Research Outcomes  
Magazines

Sheep Focus

IRAC

Ontario Beef

300 e- news bulletins

65 member updates

4 Annual meetings  
Themed events

2 Gut Health Days

1 Alt Proteins  
Workshop

8 'Other' Reports  
e.g. Arkell &  
Stockyards for TFO

# Identify and address X-sectoral issues

- 3 meetings on collaborative research with 1 successful project to date - AJB Mental Health.
- 2 x Gut Health (one more coming)
- 3 x Climate Variability
- 1 X Alternative proteins
- Alternative Feeds - Feeds AIP application
- Supported CgFARAD
- Stray Voltage work with OFA

# DIRECT OUTCOMES FOR PRODUCERS

- Positively influencing governments' research agenda with your agenda
- Cutting edge research results getting to producers very fast
- Single desk research & project management service
- Early information on emerging/developing issues
- **Significantly** leveraged sector funding to address cross sectoral/emerging issues (7:1) CgFARAD,

2018-2023

Accelerate the  
rate of adoption  
of innovation

Excellence in  
exploiting  
opportunities to  
innovate  
(from cutting edge  
research)

Excellence in  
research  
management



**STRATEGY  
2023**

**VISION  
Innovation  
driving  
livestock &  
poultry sector  
success**

**MISSION**  
We work collaboratively  
with and on behalf of  
our members to drive  
innovation through the  
value chain.

**FOCUS ON OUTCOMES**

# 2018-2023 The Research Driver

- Manage research (all facets)
- Evaluate investment performance
- **MEASURING THE OUTCOMES**





# Current Research

Project title	Project lead
Has the intensive genetic selection of commercial layer chickens impacted the control of the reproductive axis?	Gregoy Bedecarrats
Nutritional Means to Enhance skeletal development in pullets and subsequent effects on productivity, bone health and welfare	Elijah Kiarie
Development of evidence-based wellness health literacy and emergency wellness health response programs for Ontario agriculture (EFO, Ontario Pork, Ontario Sheep, OMAFRA)	Andria Jones-Bitton
The role of omega-3 fatty acids in bone development in pullets: Investigating epigenomic response to breeder and perinatal nutrition	Elijah Kiarie
Epigenetic transfer of behavior and stress susceptibility in the laying hen: influence of rearing and housing of different strains of parent stock on behavioural development of offspring	Tina Widowski

## Completed recently

Assessment and mitigation of contamination risks: critical knowledge to reduce diseases and increase biosecurity compliance (PIC/OMAFRA)	JP Vaillancourt & M. Guerin
Eggshell cuticle plug protection against invading pathogens in the table egg	Max Hincke
Evaluation of rapid diagnostic assay for avian influenza	Suresh Neethirajan

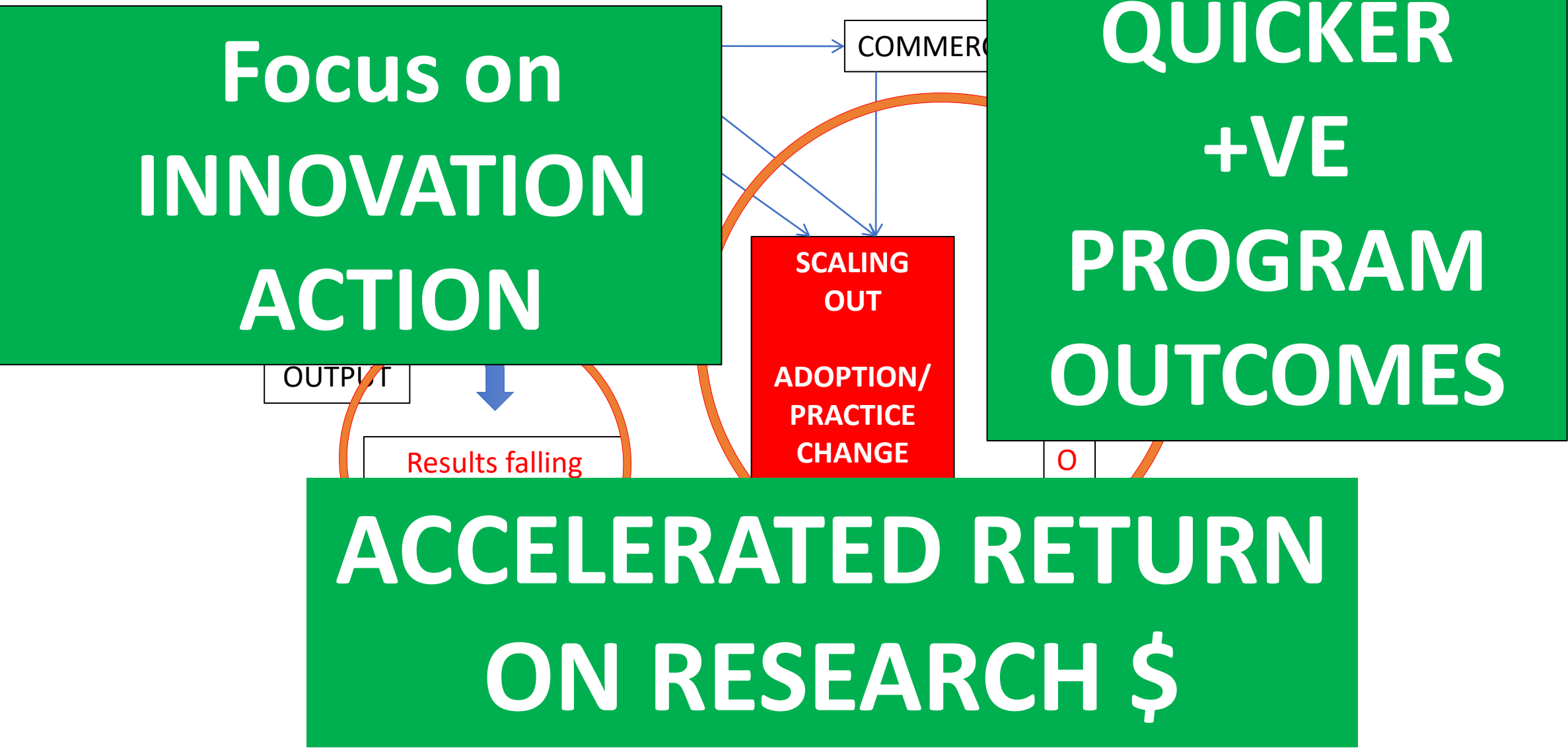
LOI's currently under review = 2

Provided Reviews for National Poultry Cluster

# The Research Service provider

- **\$250K p.a. Seed funding for X Sectoral work from OMAFRA - Addressing common issues through collaborative investment -**
- **Undertake projects where there are gaps**
- **Theme Advisory Groups , set and evaluate priorities, proposal reviews.**
- **Sharp focus on- Industry Reviews**

# Research that helps drive results to application faster



# 2018-23 The Research Knowledge Broker

The 'go-to' place for:

- Articles/reports/results
- Innovation Partners
- Co-investment Opportunities
- Funding Opportunities
- Collaborations
- Advice/Ideas/a Sounding Board



# LRIC'S IMMEDIATE FOCUS FOR POULTRY

- **Industry Priority Setting (The Poultry Industry Research Committee)**
- **New poultry research facilities**
- **Accelerating adoption of research results**
- **Keeping up the rate of calls for proposals**



# LRIC'S MEDIUM TERM FOCUS FOR POULTRY

- X Sector collaboration opportunities
- STRONGER representation at OMAFRA
  - ✓ Project proposal review
  - ✓ Representation with Govt as needed – e.g. new research barn
- Oversight & publication of OUTPUTS from Arkell & then New Barn

# LRIC'S LONGER FOCUS FOR POULTRY

- Ensure research needs are being addressed
    - ✓ Sustainability – environment, welfare, economic, farming systems, precision farming opportunities.
    - ✓ Genetic improvement
    - ✓ Turbocharge research on Extension/Education
- Provide research related services as required  
– your right arm for research.**



# ISSUES AND INNOVATION

- **Feed industry alliances on research (Currently Mycotoxin & Pelleting – AIP grants)**
- **Final Gut Health day**
- **Alternative Meats Day**
- **Technology Day**
- **Research on adoption models**

# DIRECT OUTCOMES FOR POULTRY PRODUCERS

- *Positively influencing governments' research agenda*
- *Cutting edge research results getting to producers very fast* **Through PIC**
- *Single desk research & project management service*
- *Early information on emerging/developing issues*

# **DIRECT OUTCOMES FOR POULTRY PRODUCERS**

- **Poultry Research Barn underway (commissioned?)**
- **Faster adoption of innovation – through PIC**
- **More X sectoral research involving value chain partners (e.g. feed industry)**
- **Bigger bang for buck and.....**
- **Significantly increased rate of return on research investment**

# Quick word about Research Infrastructure

- ARIO is still 'protecting' money – but...election looming
- Need to think about future industry needs - **HARD**
- Need to start discussions and initiate process to 'lock in funds' asap
- Facilitate meetings with all sectors – joint needs/individual needs – select champions to represent industry.
- Discuss \$ - how much you want to invest and how much you need to invest.



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Thanks to EFO for your ongoing support,  
& to Brian Miller

We look forward to a productive future together

Tim Nelson CEO  
Livestock Research Innovation Corporation

[www.livestockresearch.ca](http://www.livestockresearch.ca)

[info@livestockresearch.ca](mailto:info@livestockresearch.ca)

Ph. 5198212960