



Agritech Data Reference Group

Session #3 Nov 4 2021

Purpose

Seek input and guidance on the nascent role for AgriTechNZ in the context of primary sector data interoperability

Specifically: shared sector data definitions governance

Agenda / Process

Step

Who

Updates on context and related activities

Brendan and Kenneth; AgriTechNZ

Presentation and discussion on an open platform
for the registration of shared data definitions :
Link2025

Sam Ragnarsson and Chad Payne;
All

Farm data manifesto

Will Noble

AgriTechNZ intentions

Brendan, All

Following today

Further exploration of common ground

Ref Group Meet December 2nd

Industry / Ecosystem pitch to MPI for shared data
definitions governance

Payoff

Accelerate and fulfil the vision for ~~data interoperability~~ digital, pan-sector agriculture across New Zealand

- strengthen and protect common ground
- support and enablement of data collaboratives (every show in town)



Shared
aspirations,
and context



Starting hypotheses

- data collaboratives and partnership development within the ecosystem are to be encouraged
- data collaboratives will be better enabled where there are open data standards
- the process of defining standards needs to be transparent, collaboratively created with good stakeholder representation, independent of any one commercial solution
- open data standards need to be linked with international standards
- data standards on their own are insufficient in enabling better data interoperability
- issues of governance, security and privacy need discussion and will likely be addressed through data collaboratives and industry regulation – with input from groups like this IRG
- agritech is in demand and globally the sector is expecting significant growth
- primary industry will never thrive without primary data

Tech often lacking from policy thinking



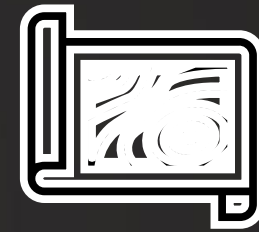
Reserve Bank Bill

No mention of digital currency or cryptocurrency in the bill about the future of NZ's Reserve Bank.



Water Services Bill

No mention of digital technology, IoT, data or sensors in the bill about monitoring NZ's water.



FEP 'framework'

Digital technology, IoT, data or sensors fully considered???

Lots of pieces of the digital puzzle

DIGITAL
COUNCIL

DIGITAL
ECONOMIC
PARTNER
AGREEMENT

DIGITAL
IDENTITY

DIGITAL
SME
BOOST

DIGITAL
INCLUSION

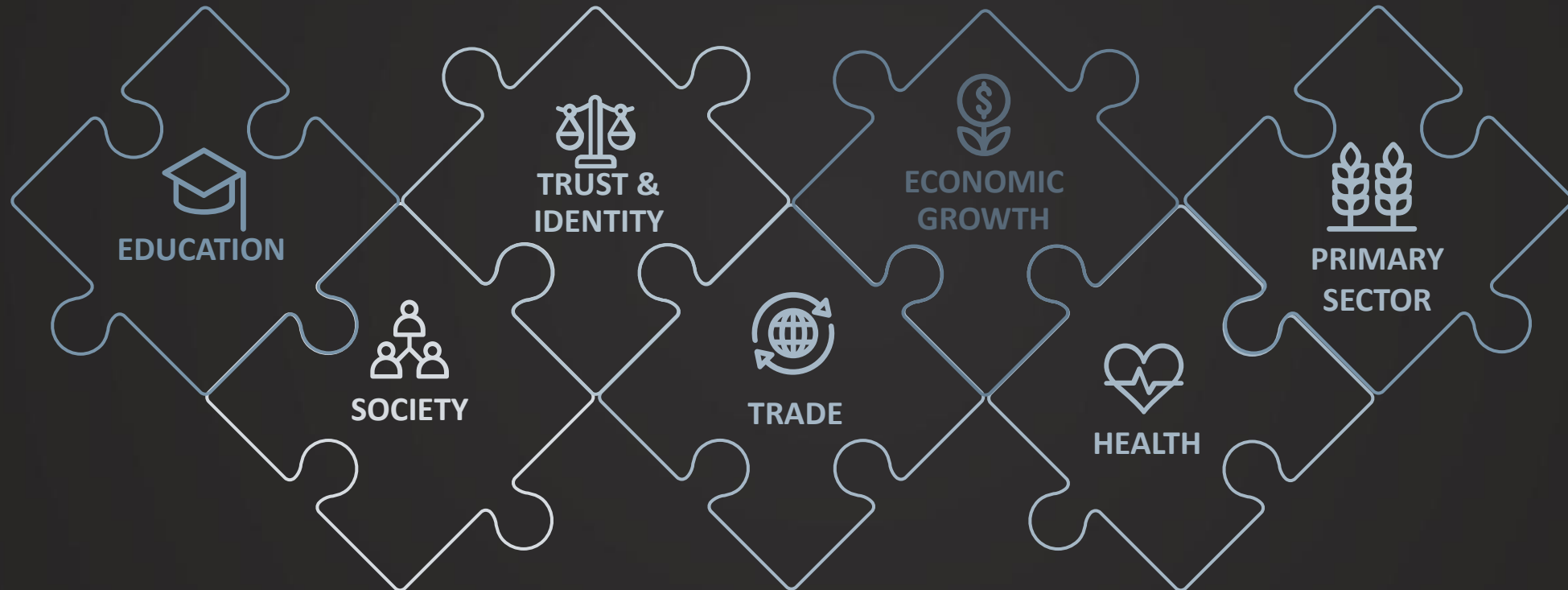
DIGITAL
INDUSTRY
TRANSFORMATION
PLAN

AGRITECH
INDUSTRY
TRANSFORMATION
PLAN

DIGITAL
TECHNOLOGY
CURRICULUM

DIGITAL
APPRENTICESHIPS

A connected national digital strategy





Data Interoperability Working Group

Member

Brendan O'Connell

Klaeri Schelhowe

Mark Begbie

Chad Payne

Sam Ragnarrson

Tim Hembrow

Chris Allen

Alternate - Andrew Hoggard

Jennie McMurran

Karen Treloar

Ivan Lawrie

Organisation

AgriTechNZ (Chair)

Horticulture NZ

Data Alliance

Regional Council

Regional Council

Business Analytics Manager

Federated Farmers

Ministry for the Environment

DairyNZ

Foundation for Arable Research (FAR)

Other participants invited/co-opted as required e.g. Andrew Cooke, Rezaie



Data Interoperability Working Group Projects

Digital Identity POC

Geospatial Definitions Working Group

Integrated National Farm Data Platform (INFDP)

Fruit quality collaborations

GHG calculators

Freshwater / HWEN

Link25

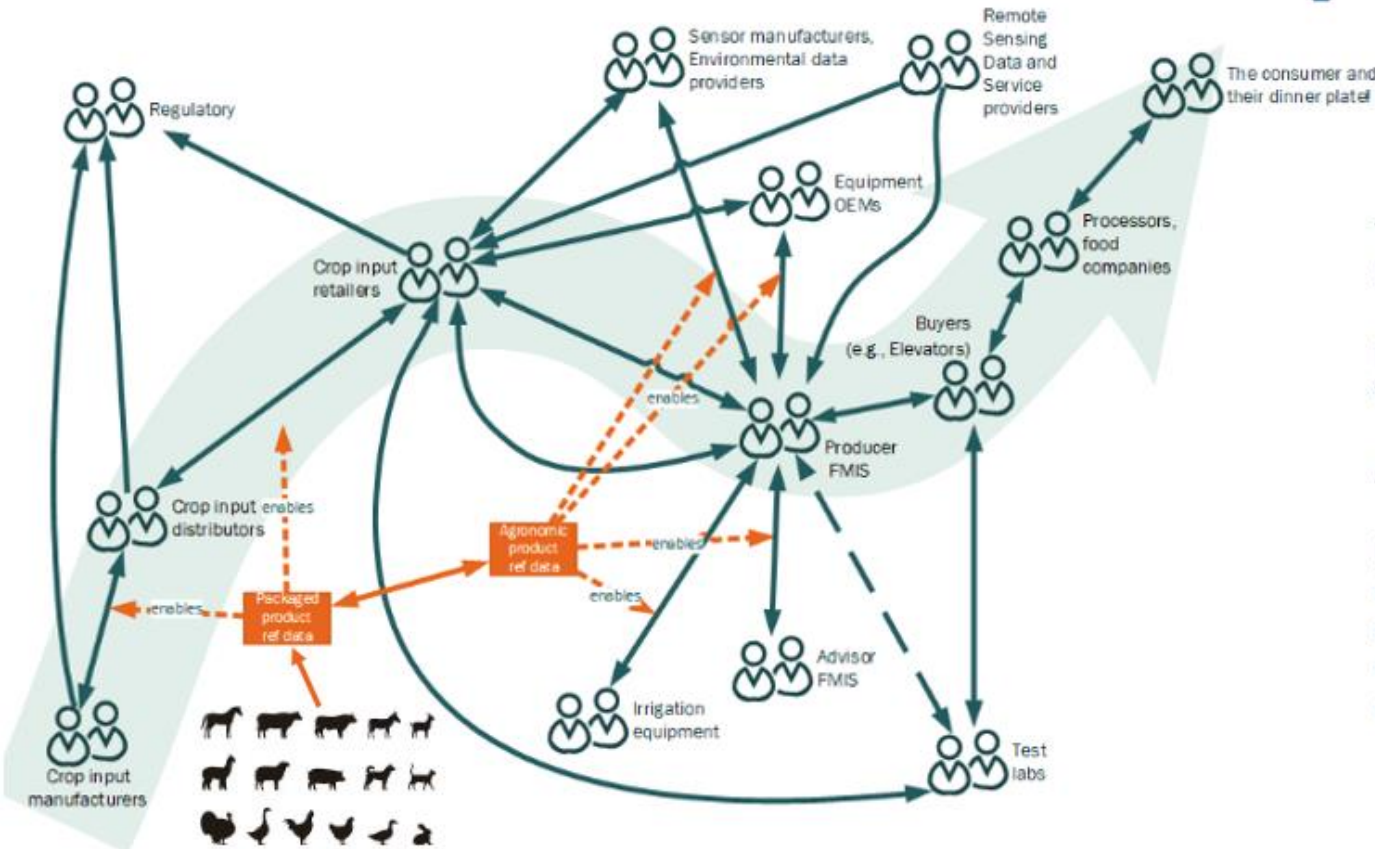
Data definitions for farm environmental outcomes
(aligning HWEN, IFP, GIWG, INFDP...)

Other participants invited/co-opted as required e.g. Andrew Cooke, Rezafe

World Agri-Tech Innovation
Summit, September 28-29,
2021



Which are the Core Group's tasks?



The first task of the core group is to agree on the definition and topics of Smart Farming that the ISO SAG SF will address.

Based on the identified topics of Smart Farming, subgroups will be thematically and numerically defined.

A Call for Experts for the subgroups will then take place.

Preparations by the leadership team for the kick-off:

- A schedule
- Question and answer catalog for general questions (Q&A)
- Background information about the ISO SAG Smart Farming
- A collaboration platform for the creation of documents

Cross-sectional technologies and topics

Artificial intelligence
 Cybersecurity
 Food loss and waste

...



Which TCs are part of the Consultative Group ?

- ISO/TC 23 Tractors and machinery for agriculture and forestry
- ISO/TC 23/SC6 Equipment for crop protection
- ISO/TC 23/SC7 Equipment for harvesting and conservation
- ISO/TC 23/SC18 Irrigation and drainage equipment and systems
- ISO/TC 23/SC19 Agricultural electronics
- ISO/TC 34 Food product
- ISO/TC 34/SC17 Management systems for food safety
- ISO/TC 34/SC18 Cocoa
- ISO/TC 93 Starch (including derivatives and by-products)
- ISO/TC 154 Processes, data elements and documents in commerce, industry and administration
- ISO/TC 184 Automation systems and integration
- ISO/TC 190 Soil quality
- ISO/TC 207 Environmental management
- ISO/TC 211 Geographic information/Geomatics
- ISO/TC 268 Sustainable cities and communities
- ISO/TC 274 Light and lighting
- ISO/TC 281 Fine bubble technologies
- ISO/TC 282 Water reuse
- ISO/TC 282/SC3 Risk and performance evaluation of water reuse systems
- ISO/TC 299 Robotics
- ISO/TC 315 Cold chain logistics
- ISO/TC 323 Circular economy
- ISO/TC 326 Machinery intended for use with foodstuffs
- ISO/TC 331 Biodiversity
- ISO/IEC JTC 1/SC 41 Internet of Things and digital twin
- ISO/CASCO Committee on conformity assessment
- ISO/COPOLCO Committee on consumer policy

Number of participating TCs **27**



Opening Remarks

Kenneth Irons, Chair AgriTechNZ



Link 2025

Sam Ragnarsson and Chad Payne



Farm Data Manifesto

Will Noble



Farm Data Manifesto

WE BELIEVE IN THE DEMOCRATIZATION OF DATA, FOR THE BENEFIT OF FARMERS AND THE FOOD AND FIBRE SECTOR.

THE FARM OWNS ITS DATA. THAT DATA MUST BE PORTABLE AND INTEROPERABLE BASED ON FARMER-DIRECTED PERMISSIONS.

ON-FARM DATA SYSTEMS MUST KEEP DATA SAFE, AS CURATORS AND CUSTODIANS OF FARMER INFORMATION.

**THOSE WITH PERMISSIONED ACCESS TO DATA MAY PRODUCE AND LEVERAGE VALUE FROM THAT DATA
WHILST BENEFITTING THE FARMER, THE SECTOR, AND NZ INC.**

**WE EMBRACE THE OPPORTUNITY TO INNOVATE ON THE BACK OF THE INEVITABLE
DISINTERMEDIATION OF TRADITIONAL BUSINESS MODELS.**

Purpose

Seek input and guidance on the nascent role for AgriTechNZ in the context of primary sector data interoperability

Specifically: shared data definitions governance



Shared data definitions governance

Rather than establish a new entity

Establish a representative working group to develop and govern
a data definitions registry



Comments and Questions