Data Interoperability in the Supply Chain

MLA Digital Forum
October 2016

About Us

- Agricultural software 27 years
- Founded Rezare Systems in 2004

- Product development mobile, models
- Livestock management, genetics, pasture
- Consulting, ag data interoperability

Sensors and silos

- Unclear “ownership”
- Confusion over meaning
- Sharing without permission?
- Unable to share

Encouraging innovation in farm data

Farm Data Code of Practice

Transparency around rights to data and policies

Farm Data Standards

Common vocabulary for farm data

DataLinker

Framework to share data with farmer permission

Farm Data Code of Practice

www.farmdatacode.org.nz

Transparency

- Understandable Terms & Conditions
- Rights to data
- Sharing: who and how

Practices

- Security policy
- Privacy and controls

Farm Data Code of Practice

www.farmdatacode.org.nz

"I think if there was a code which we had come to trust and begin to rely on, we would all start to buy into the concept of sharing for the good of the industry"

- Farmer Survey

- Demonstrate commitment to industry best practices
- Provide peace of mind to farmers
- Future-proof and align with industry standards

Farm Data Code of Practice

www.farmdatacode.org.nz

Accreditation is straightforward

- Self-audit against checklist
- Independent review panel assessment
- Annual licence and certification
- Annual review

Farm Data Code of Practice

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Governance by:

DairyNZ

beef+lamb new zealand

FEDERATED FARMERS OF NEW ZEALAND

mia Meat Industry Association

DCANZ DAIRY COMPANIES ASSOCIATION OF NEW ZEALAND

NZVA New Zealand Veterinary Association

TE TUMU PAEROA The New Māori Trustee

Farm Data Standards

www.farmdatastandards.org.nz

Common vocabulary to describe farm data

"Namespace" for identifiers

Covering

- Animals
- Land Applications
- Financials, Accounts
- Pasture and Feed
- Irrigation and Effluent
- Farm and Model Data
- Spatial Entities
- Health & Safety

Farm Data Standards

www.farmdatastandards.org.nz

Primary users are

- Analysts
- Developers
- Integrators

Data Dictionary Defines

- Entities
- Attributes
- Observations
- Spatial layer names (INSPIRE etc)

Data Linker

www.datalinker.org.nz

Framework to share data with farmer permission

- Providers have data to share
- Consumers can use data

Data Linker

www.datalinker.org.nz

Register of:

- Provider services and
- Consumer applications

Protocol includes:

- Schemas for common sets of data
- Licences between parties
- Dynamic registration
- Farmer permission (OAUTH) and tokens
- Data flows directly

Thank you

www.rezare.co.nz
andrew.cooke@rezare.co.nz

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