

Data Sharing and Interoperability for Decision Support in Grazing

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data driven agriculture

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Outline



- Better decisions demand better data
- Interoperability and lessons from other industries
- Software trends relevant to Agriculture
- Towards an architecture for interoperability

A small number of innovative farmers are achieving significantly better results than the mainstream



Our mission: • Identify the outliers

- Codify best practice into decision support
- Accelerate into mainstream



What is **#maiagrazing**?



• A grazing management tool that helps farmers achieve optimal production and minimise the impact of drought



What is MaiaGrazing?





Leveraging data for decisions







Approaches to Interoperability



1. Ad-hoc point to point interfaces



Approaches to Interoperability

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- 2. Single Vendor platform



X



Approaches to Interoperability



Ad-hoc point to point interfaces
Single Vendor platform

3. Agreed standard models and architecture

Example: Information in a Hospital









Twitter Trends + Google Maps = Trendsmap



Real-time map of Twitter trends across the globe

Towards an Interoperability Architecture for Livestock Ag





An Interoperability Architecture for Livestock Ag



Requires:

- 1. Common information models and vocabulary
- 2. Ag-based Metadata standards and APIs
- 3. Standardised infrastructure building blocks
- 4. Consistent authorisation/access control

Overseas examples:

- AgGateway eBusiness (mainly cropping)
- Open Ag Data Alliance (OADA) REST APIs for farm data
- American Farm Bureau Federation privacy principles for ag data (USA)
- Farm data code of practice (NZ)
- Farm data standards (NZ)

Can we set up an Australian alliance of ag software/data companies?



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- Is MLA the logical convenor of such a forum?
- Recent eNVD workshops a good example





Thank You

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