National Institute of Animal Agriculture

2013 NIAA Annual Conference
April, 2013 – Louisville, KY
ITS’ vision is to deliver, service, and continually innovate an integrated portfolio of livestock products (software & hardware) and consulting services that enable livestock producers to capture additional value through commerce-based traceability and improve profitability through sustainable production practices.
Who is ITS Global?

ITS Global is 50% owned by Landmark Operations AU...who is 100% owned by Agrium Inc.
ITS is the largest data provider to the Canadian Livestock Tracking System (CLTS)

- 1.6 million head of fed cattle are managed on ITS software annually (50% of the fed production in Western Canada)

ITS provides Process Verified Program (PVP) services for Source and Age Verification
Agenda

- Animal Disease Information Management System(s)
- ITS Product Suite Overview
- Discussion
Shout out to Adam Scott, 2013 Masters Champion!!
Animal Disease Information Management System (ADIMS) — licensed for distribution by ITS Global
Animal Disease Information Management System(s)

Key Elements:

- **PITR** – Property Identification and Tag Registry (Premises)
- **LTAT** – Livestock Tag and Traceability (Animal ID & Movement)
- **YES** – Surveillance and Epidemiology (Disease Surveillance)
- **MAX** – Emergency Response Management (Disease Response)
- **Apps** - Apple and Android Applications (Mobility)
Technical Architecture

All components use common technologies:

- Databases: Microsoft SQL Server, versions 2005 to 2008
- Applications: Microsoft .NET Framework, version 3.5 SP1
- GeoServer: Java Development Kit (JDK) 1.5
- Microsoft SharePoint 2010 (MAX + YES)
PITR - Property Identification

• PITR is the premise registry system, recording details of registered premises, the persons responsible for and species housed on those premises.

• PITR also manages the process of ordering RFID tags from manufacturers and their allocation to premises.
Premises Overview – Australia

Victoria State
Traceability Database

Tags, Premises, Sightings, Movement Events, & Tag Retirement
Livestock Tag and Trace (LTAT)

- LTAT is the multi-species tag registration and tracing system.
- LTAT supports both group and individual movement tracing and recording of key traceability events.
- Statuses can be recorded against animals and premises.
- Premise statuses can be recorded against animals based upon their movements between premises.
LTAT UK Implementation

Built on LTAT technology with UK/EU business rules.
Government agencies can report and audit data from web site or existing systems can connect directly to System.

Data can be extracted remotely into specialized analysis systems such as spatial tools.

Producers can connect via web site or on farm software can interact directly.

Industries such as markets and abattoirs can connect via existing back end systems.
LTAT Features

Death by PowerPoint!! 😊

- **Movement document details can be recorded, including the ability for documents to be partially-completed by different parties.**
- **Support for group identification, whereby a group of animals can be identified with a group number.**
- **The ability for communication with external systems through “external queues”.**
- “Positive” statuses for use in scenarios such as marketing programs or other value-adding data attributes. Both positive and negative statuses can be automatically removed after a period of time, to support scenarios such as recording withdrawals or residue statuses.
- Support for “partial undo” of transactions, allowing not only entire transactions to be rolled back but also parts of a transaction.
- Support for recording movements of carcasses, such as on-farm slaughter, rendering, or on-site disposal.
- Handling of duplicate movements, such as when both sender and receiver record the same movement.
- Ability to record drug purchases, disposals and animal treatments. Withdrawal statuses are automatically set against animals that are treated as appropriate for the drug(s) administered.
LTAT – Mobile

Producer-based movement, and event recording – smart phone application
Yes! - Surveillance and Epidemiology

Facilitates Disease Surveillance and Event Recording
Yes! - Surveillance and Epidemiology

• Yes! is an epidemiological tool to facilitate surveillance and recording of disease events.
• It is designed for use in the field to record actual events and assist the field staff in the appropriate response and collection of data.
• The data is then analyzed by epidemiologists in the context of population and ecological data.
Yes! – Sample Management

Samples, request forms, and pathology results can all be scanned and attached to an disease event.
Yes! – Mapping Premises Overlays

Mapping representation of premises can be achieved using Google™ Maps, or overlaid with detailed aerial photography if available.
MAX – Disease Response

Built in Microsoft’s SharePoint environment, MAX covers the following key functional areas:

- Case Management
- Logistics
- Operations
- Planning
- Reporting
- Communications
- Industry Liaison
- Mapping
MAX – Disease Response

• MAX is a flexible platform for quickly responding to disease outbreaks.
• It provides both case management and response management functionality, accepting both structured and unstructured data to ensure as much information is captured as possible.
• Integrated document scanning capabilities to YES! allowing users to quickly upload relevant documents to assist in responsiveness and post-event analysis.
MAX – Case Management

Single Access Point

- Surveillance recording
- Sample capture and tracking
- Document management
- Tracing
- Destruction and decontamination
- SMS integration (instant response)
- Staff resourcing
- Accommodation
- Resource Management
- Document Management
- Inventory Management

MAX – Logistics

[Image of a logistics management interface]

[Image of a group of individuals in high-visibility vests]
- Document Management
- Infected Premises operations
- Restricted area movement monitoring
- Veterinary Investigations
MAX – Spatial

Zoom to previous extent
Zoom to next
Query tool
Street view / birds eye view
Measure length
Measure area
Print
Select parcel into vector layer
Edit vector (modify, move, delete)
Draw new polygon
Draw new line
Draw new point
Pan map
Permalink – save current view
Toggle layer query status
Address search
Map coordinates
MAX – Mobile

Use of Field Devices for direct data capture

Spatial capacity included:
- Inbuilt GPS used to populate Long and Lat fields
- Listed reports within a 20 km radius of the current position

Does not require full time 3G cover!
MAX – Mobile
ITS Product Suite Overview
ITS Product Suite Overview

more efficiency, more power, more profit

Integrated Solutions
Individual animal management

Group/Pen management

Data submission

Daily feedyard management tools

Large multi-site operations
ITS Global Software

- *Easy* to Use/Learn
- Data *Accuracy*
- *Powerful* Data Analysis
- Productivity *Improvement*
- *Solutions* Designed for the future
Cattle Handling & RFID Reader Equipment

- Customised templates
- Up to 100,000 RFID storage or up to 40,000 RFID numbers with full data records

Aleis Livestock RFID Technology

Thompson Longhorn Handling Equipment

Integrated Solutions
We’re Open for Business!
ITS Global
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Thank You!