Utilizing Low Frequency

Tags for Flock Management
and
Official ID

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Benefits of Utilizing EID as a Management Tool

* Provides a 2nd ID

* Provides a faster way to collect ID of animals being worked

* Provides an electronic version vs notebook paper

* Saves labor and time

Next Level is RFID

- RFID eliminates the need of " line of sight" reading

- Able to read through tissue

- Able to read though animal is moving and "unrestrained"

- Data collection can be fully automated

Allflex Livestock Intelligence™ **MERCK** Animal Health Intelligence

RFID – Passive vs. Active

- Passive RFID does not have an internal battery
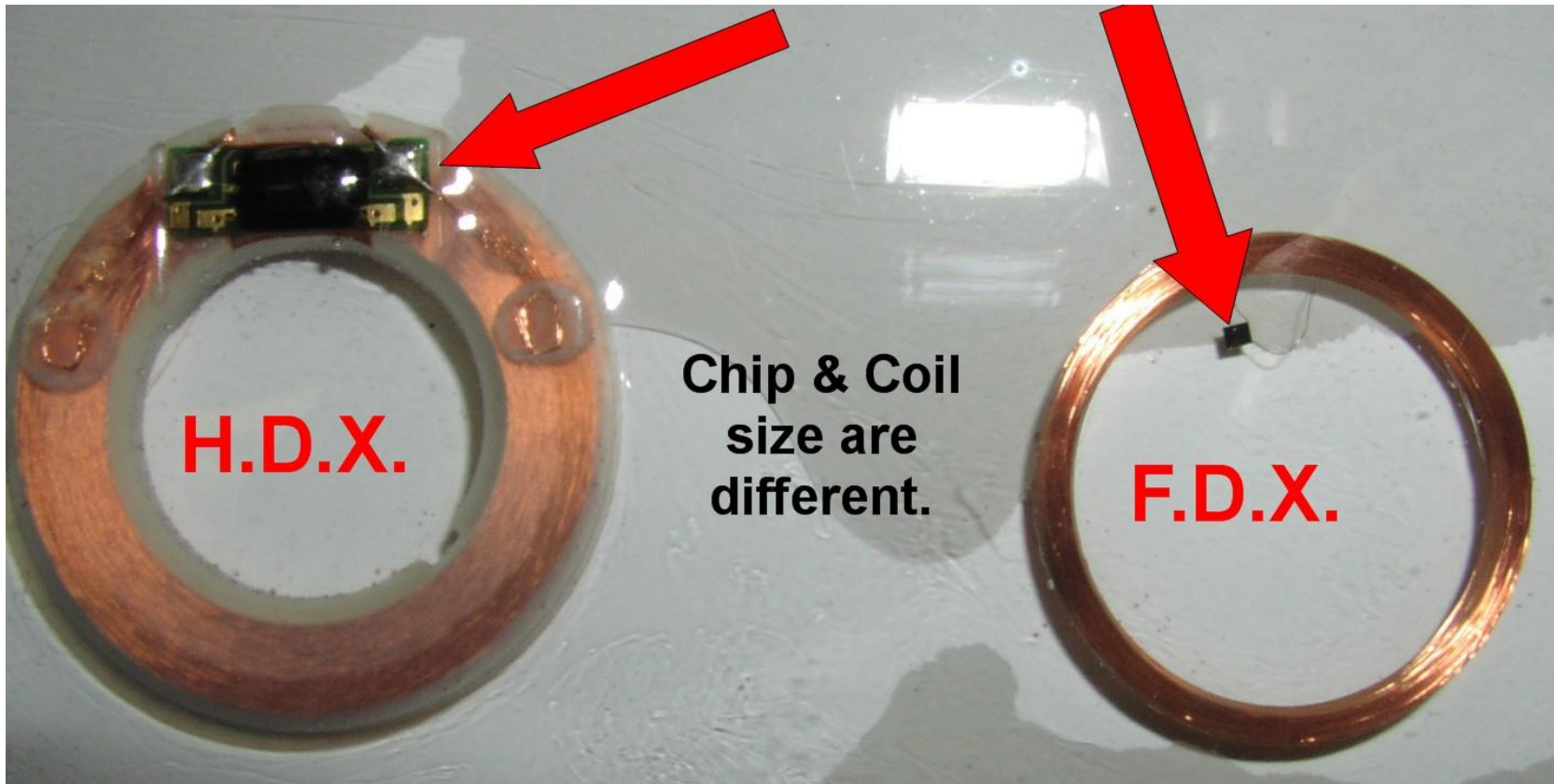- Active RFID are powered by a battery

Passive

Active

Animal RFID – Low Frequency Form Factors
AIR COIL

• Air coil antennas are over molded for primarily two piece tags.

Animal RFID – Low Frequency Form Factors
AIR COIL

- Examples of Air Coil tags for small ruminants

Animal RFID – Low Frequency Form Factors
IMPLANTS

• Small Ruminant Livestock Tags –

Implants are over molded or inserted in the

male stem

Utilizing EID at the Producer level

- For producers that manage their animals individually
  - EID provides more accurate data on per ewe/lamb basis
  - Cuts labor time
  - Ties in with software /scales and other management tools to increase speed and accuracy
  - Allows ease of individual data collection for growth, wool and other traits.

Utilizing RFID for Official Tags

- In addition to all the benefits that RFID can provide as a management tool, the tags can also meet the requirements of the Scrapie Program.

How to start using RFID tags as your Scrapie Tag

- First, you must obtain a Flock ID and a National Premise Number (PIN) or Location Identification Number (LID). Get PIN/LID from your State Animal Health office, then call call 866-USDA-Tag (866-873-2824) to get your Flock ID and to have PIN/LID linked to your Flock ID.

- The USDA 840 official numbers will be linked to your Flock and Premise number for traceability.

- Then you purchase the 840 Scrapie tags from an approved provider.

How to Purchase 840 Scrapie Tags/Implants

Contact an approved provider listed on the APHIS Sheep and Goat Identification web page and give the provider your Flock ID and PIN/LID.

Disclaimer

- The systems, tags and pictures being shown are examples and are not endorsed by USDA.

EID and Readers are accessories to Software

- EID and readers rely solely on the software that drives the animal management system.

- Simple spreadsheets like Windows Excel to commercially available herd software are needed to manage the animals at the ranch level

- If EID is used as an official ID, readers are not needed at the ranch level for a producer to participate

Hand Held Accessories
Data Collection

Low Frequency RFID can be used with different automation products
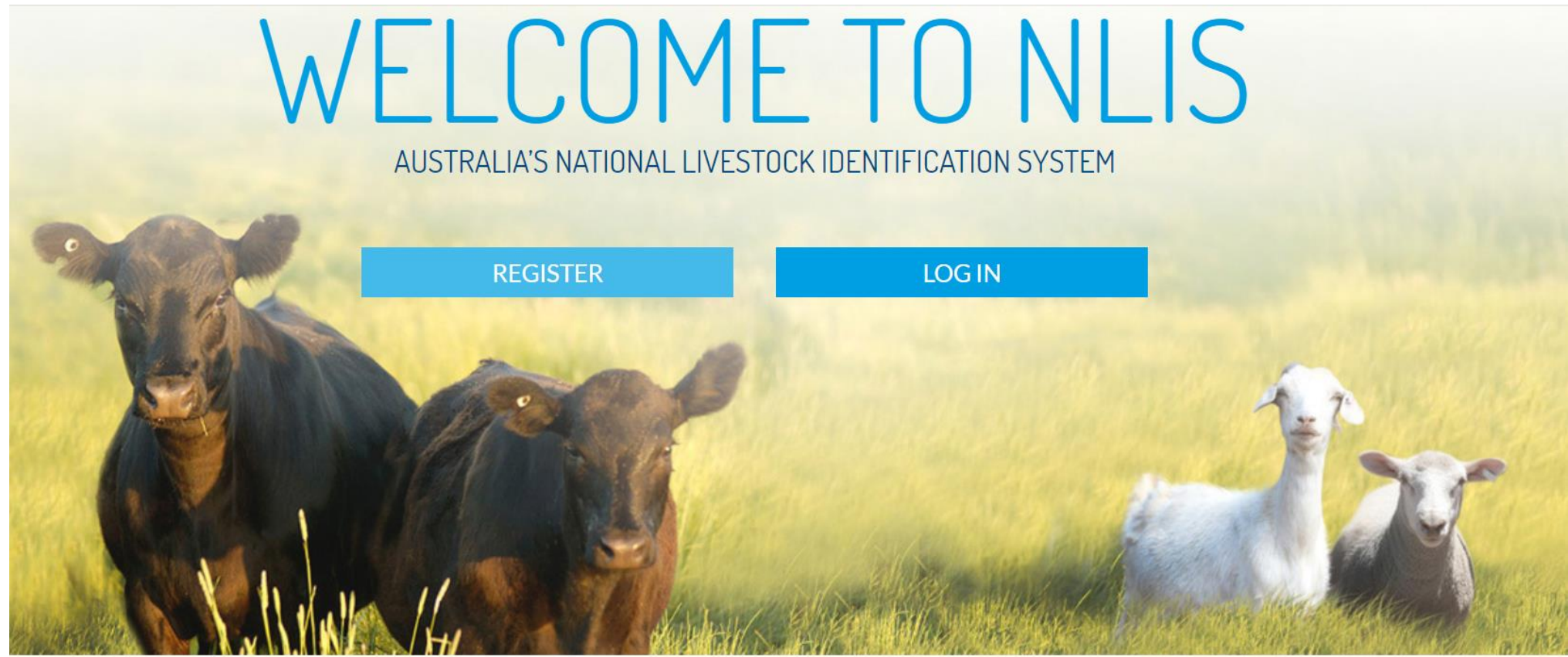
EID can be incorporated into Handling Systems

High Flow Systems

Proprietary

Global Official ID / Traceability

- What Countries have Official ID Programs?

- Australia /NZ Auction Markets

- Database (the key to traceability)

- Videos

Proprietary

Official ID Programs Globally for Ovine

Country or Group	Official ID?	VID	EID	Full Traceability	Breeding and Export	Notes
China	YES	YES	Option	NO	Yes	183 Million, required at birth
Australia	YES	YES	YES	Option	YES	HDX only
Victoria	YES		YES	YES	YES	HDX only
New Zealand	YES	YES	YES		YES	in process
European Union	YES	YES	YES	NO	YES	FDX
United Kingdom	YES	YES	YES	YES	YES	FDX
Turkey	YES	YES		NO	YES	FDX
United Arab Emirates	YES	YES	Option	NO	YES	FDX
India	YES	YES	Option	NO	YES	FDX
Russia	YES	YES	Option	NO	YES	FDX
Quebec	YES		YES	YES	YES	FDX

NLIS and Ag Victoria

Software is the key to traceability

- Multiple software companies can be used but need to be accessible to all parties

- Producers and packers are the book ends, markets and other places are "sightings"

Collaboration Drives Ag Vic   https://www.youtube.com/watch?v=3GHCNcBlKdY

USA Traceability

- WLIC – https://wiid.org/

- TraceFirst -https://www.tracefirst.com/

  IMI Global – https://www.imiglobal.com/

Thank You