

# Canadian Livestock Identification Program



**Protecting the Health  
of our Livestock  
Industry**

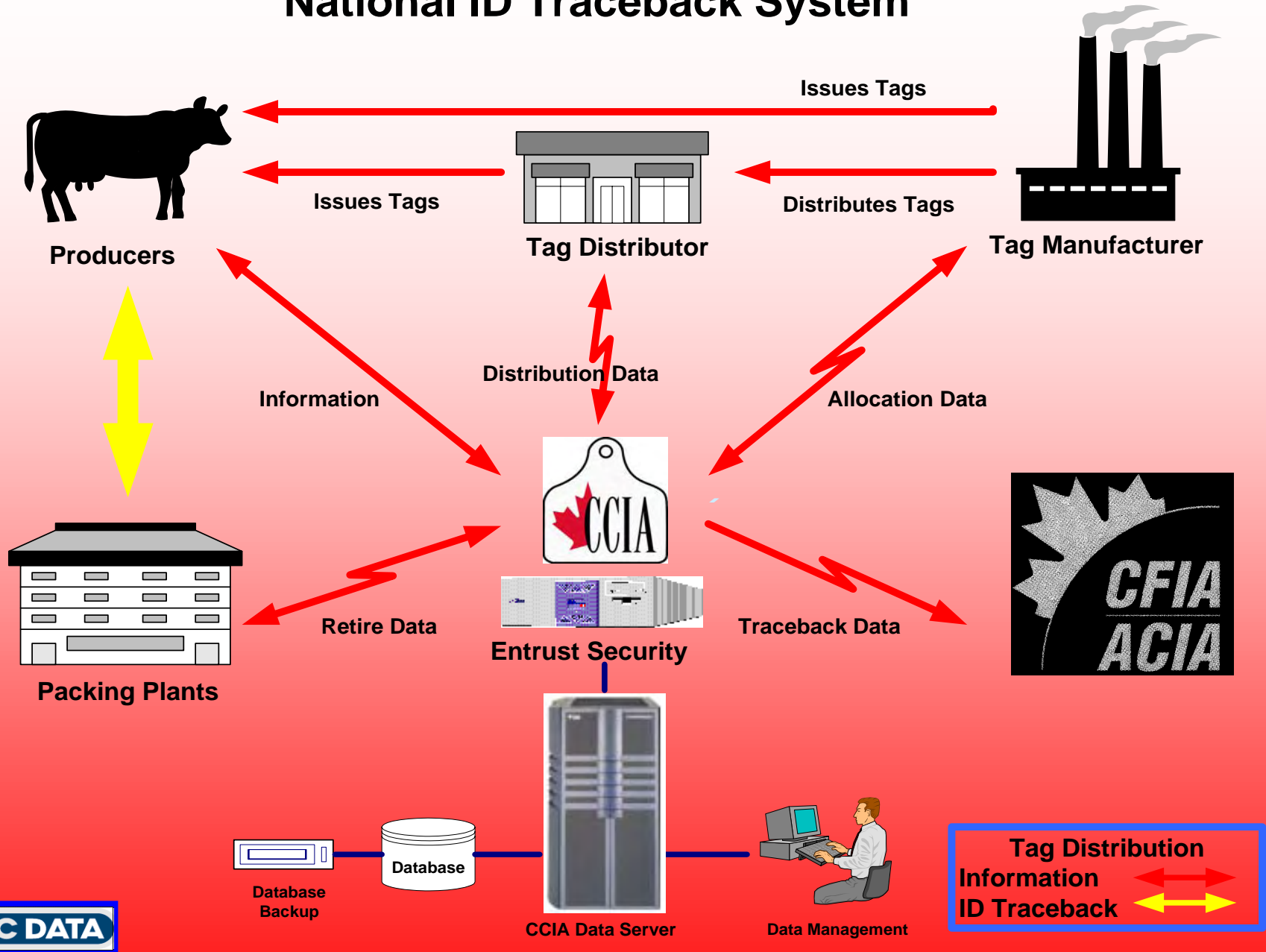


# Canadian Livestock ID Strategy

- ✓ **Increase consumer confidence**
- ✓ **Ensure market access**
- ✓ **Remain competitive**



# National ID Traceback System



# Canadian National Identification Overview



- ✓ CCIA Achievements
- ✓ BSE Investigation
- ✓ CCIA Enhancements
- ✓ National Standards
- ✓ RFID Trial
- ✓ New Technology
- ✓ Information System
- ✓ Legislation/Enforcement
- ✓ Communications
- ✓ CLIA
- ✓ Remaining Issues





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THE CANADIAN CATTLE  
IDENTIFICATION AGENCY



# CCIA Achievements

- Full implementation  
- July 01, 2002
- Successful industry/government partnership
- All sectors and other species  
working together
- 34 million unique numbers allocated  
105M transactions
- Industry sustainable
- Entire traceback system < \$4M
- 97-100% program compliance
- Value-added services available
- CIPA award
- CLIA implementation
- Increased international  
recognition



# **CCIA Assistance to the BSE Investigation (May & December)**

- **Provided the Canadian Food Inspection Agency tag inventory of all quarantined herds involved in traceout.**
- **Provided tag history/activity on all tag numbers.**
- **Provided retirement data from the packing plants and deadstock operators involved in the investigation.**
- **Supplied information on all US plants receiving Canadian cattle and on all available export data.**
- **Provided the use of CCIA scanners loaded with the appropriate tag inventories and experienced personnel, in an effort to identify and send for testing specific animals within a feedlot or herd that had moved off the index herd.**  
**All cattle moving off of the index herd had been CCIA tagged**
- **Combined with DNA a CCIA tag number was key to confirming the herd of origin**
- **International review committee very complimentary of the BSE investigations.**

# Short Term Enhancements

- **September 01, 2003;**  
**Fully enforced regulations**  
**“No person shall receive or transport an animal that does not bear an approved tag”**
- **Removal of the 5% slippage rate**
- **Removal of all regulatory exemptions**
- **Species specific tags**



# **Medium/Long term Program Enhancements**

- **Move the industry to RFID tag technology by Jan 2005**
- **Enhance enforcement i.e. on the spot fines**
- **Enhance record keeping capabilities i.e. age verification**
- **Ensure complete automation and electronic transfer of records i.e. retirement and export**
- **Streamline tag distribution**
- **Incorporate full animal movement tracking**
- **Zoning/GIS capabilities**
- **Multi-Species integrated national system – CLIA**
- **Facilitate Full food chain response – Can-Trace**
- **Harmonization of existing systems i.e. branding, purebred, value-added etc.**
- **Development of North American and international standards**

# National Standards

- Premise ID
- Individual Animal Identification
- Identification Devices
- Tag distribution
- Data recording and reporting
- Audit procedures



# ***OBJECTIVES OF RFID TRIAL***

- Evaluate the performance of Various Manufacturers' RFID Tags
- Evaluate Data Collection Devices
- Define Multiple Uses and demonstrate benefits of RFID i.e. Value Added /Zoning



# RFID TRIAL PROGRESS



## National Field Trial

- 55,000 EID tags distributed to cow/calf producers
- Useful information regarding practical application, retention and readability obtained i.e Retention ranging from 85 to 100% with only two manufacturers displaying less than 98% retention and Readability rates range from 76 to 100%



## Feedlot Trial

- 21,000 RFID tags issued to feedlots
- retention and readability data collected



## Experimental Trial

- controlled readability/retention trials designed to test RFID tags within feedlots i.e. 18 types/pen
- performance trial designed in conjunction to test ISO 11785 compliant RFID panel readers
- objective to benchmark the performance of candidate RFID transponders and panel readers under standard operating conditions and “worst case” scenarios.



## 3<sup>rd</sup> Party Testing

- CCIA has developed the RFID Transponder Type Approval Requirements Protocol as a detailed guideline for the approval of candidate transponders for the National ID program
- Trial investigates the required components for RFID transponders as identified in the CCIA Standards Procedures, and Testing Document



# 3<sup>rd</sup> Party CCIA Transponder and Reader Evaluation

## Objective:

Quantify the important characteristics of the transponders and the readers

Use the results to create suitable standards

- Ensure products meet CCIA & cattle industry needs
- Allow reasonable selection for users
- Provide clear guidelines to manufacturers

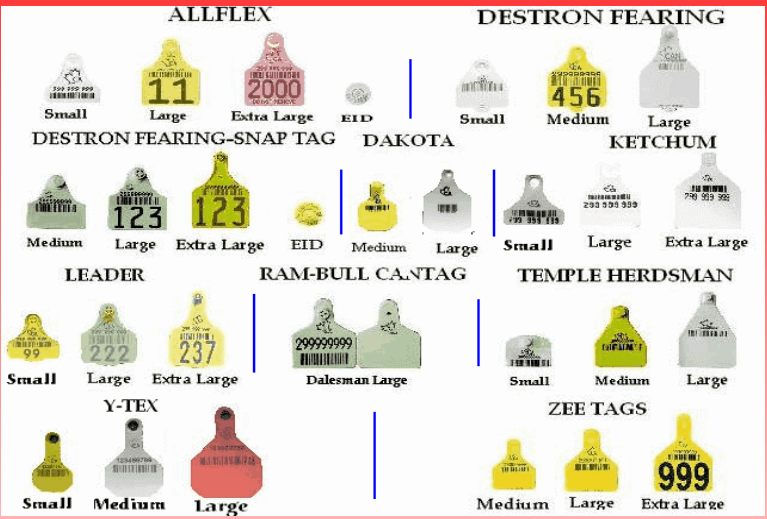
## Considerations:

- ICAR/ISO focuses on conformance (not performance)
- Canada has unique requirements
- Manufacturers are not always on the same page



# CCIA Initiative Scope – Animal ID Technology

## In the Field Technology



Mechanical Bar Coded Tags



Sample RFID Tags



RFID Panel Reader



Handheld RFID and Barcode ID Scanners

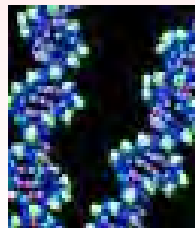
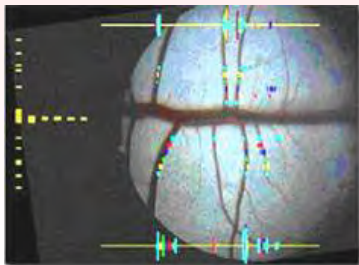


In-Plant ID transfer systems

# NEW TECHNOLOGIES

CCIA continues to monitor the progress and potential application of New Technologies Such As:

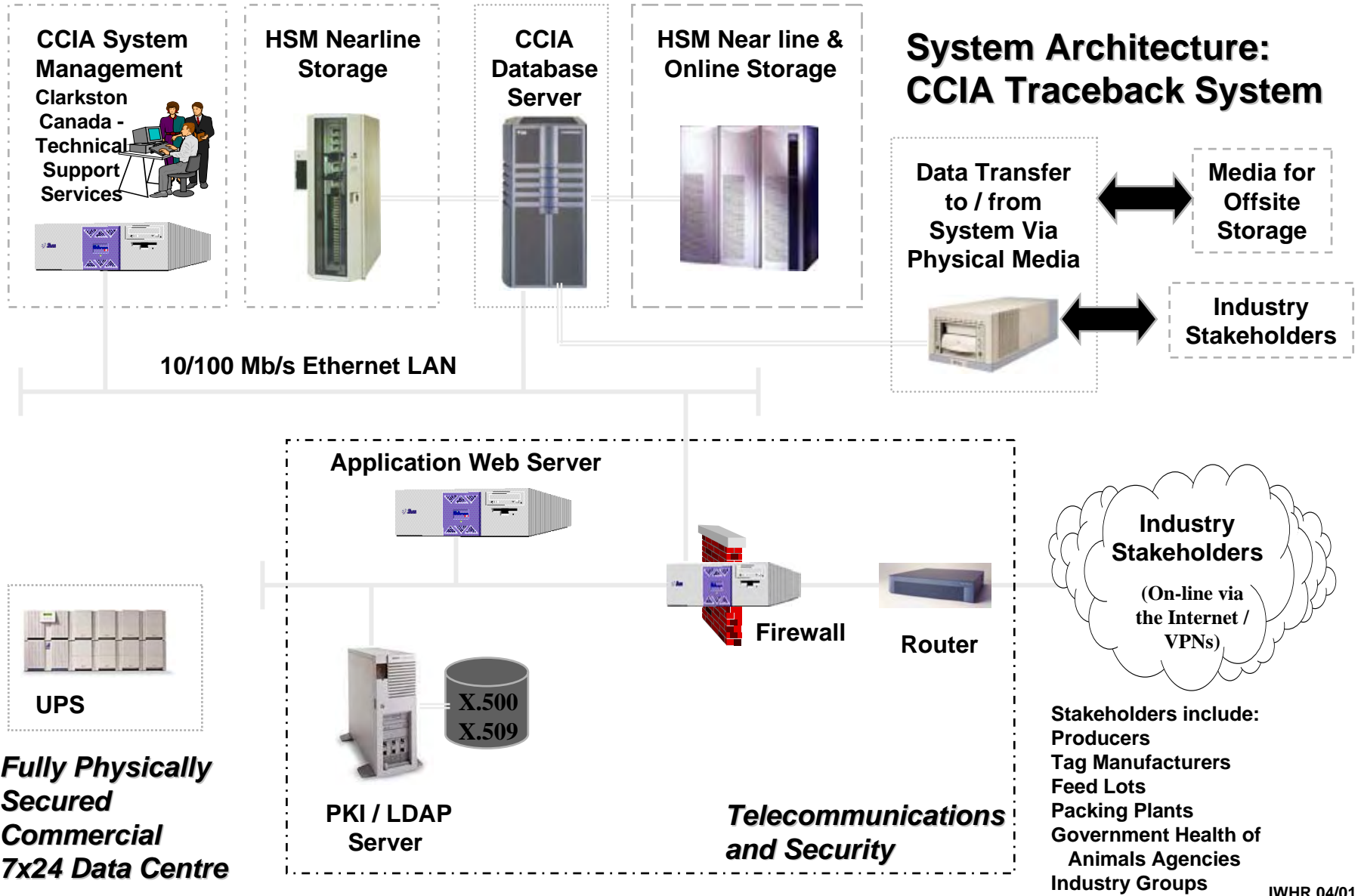
- High/UHF Frequency RFID
- Biometric (Retinal) Imaging
- DNA Testing



# **The Information System:**

- ✓ national data repository at Clarkston Canada
  - international data management company
- ✓ supports and is compliant with standards, legislation, regulation
- ✓ is industry driven/market neutral
- ✓ is cost-effective and fit-for-purpose
- ✓ is secure
- ✓ supports effective and timely traceback capability
- ✓ promotes national acceptance / industry buy-in
- ✓ allows for shared industry / government responsibilities
- ✓ has achieved international recognition
- ✓ enforces Mandatory Requirements

**Administrative Policy Management - the Canadian Cattle Identification Agency (CCIA) sets policy relative to system use. Clarkston Canada administers this policy with respect to the data access, security, confidentiality and good industry practices for (business) data management.**



# CCIA Information System

➤ Oracle 9i upgrade

➤ Technical Review

➤ WLIC

➤ Pork Pilot Project – Lot ID (premise)

➤ Record keeping i.e. birthdates/electronic affidavit

➤ Electronic data transfer

➤ Audits

➤ CFIA reports/stray animals/RCMP

➤ Additional Livestock Species







# National ID and Zoning



- **CCIA database enhancements to allow for establishment of an animal health TB Eradication control zone around Riding Mountain National Park in Manitoba.**
- **Allow for monitoring of animal movement in and out of a disease control zone**
- **Testing of technology, software and tag reading equipment for reading individual animal ID – 55,000 EID tags to approx 500 producers**
- **Upgrade CCIA database to incorporate GIS locators to facilitate more timely location of producer operations and defining control zones**

# Enforcement Legislation



Canadian Food  
Inspection Agency

Agence canadienne  
d'inspection des aliments



- **The Canadian Federal Health of Animals Act**
    - **Section 64. (1) (y) is Canadian Federal Government Legislation**
- providing for:**

**“A National Identification System for animals for the purpose of determining the presence of and controlling or eradicating animal disease”**

- **National ID Regulations**
- **Compliance and Enforcement Strategy Document**
  - ✓ **National Working Group Mandate**
    - ✓ **enforcement delivery**
    - ✓ **monitor compliance**
  - ✓ **Prior to July 1, 2002**
  - ✓ **education and information**
  - ✓ **notice of non-compliance (warnings)**
  - ✓ **After July 1, 2002**
  - ✓ **fines issued for non-compliance**
  - ✓ **Administrative Monetary Penalty program (AMPS)**



# Communications

- ✓ Work in Partnership with stakeholders
- ✓ Involve all sectors
- ✓ Define specific industry/government roles and responsibilities
- ✓ Develop a national communications strategy
- ✓ Work with other programs, species, countries

**CCIA NEWS**

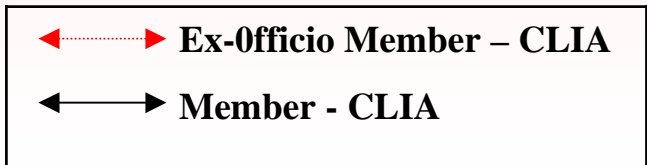
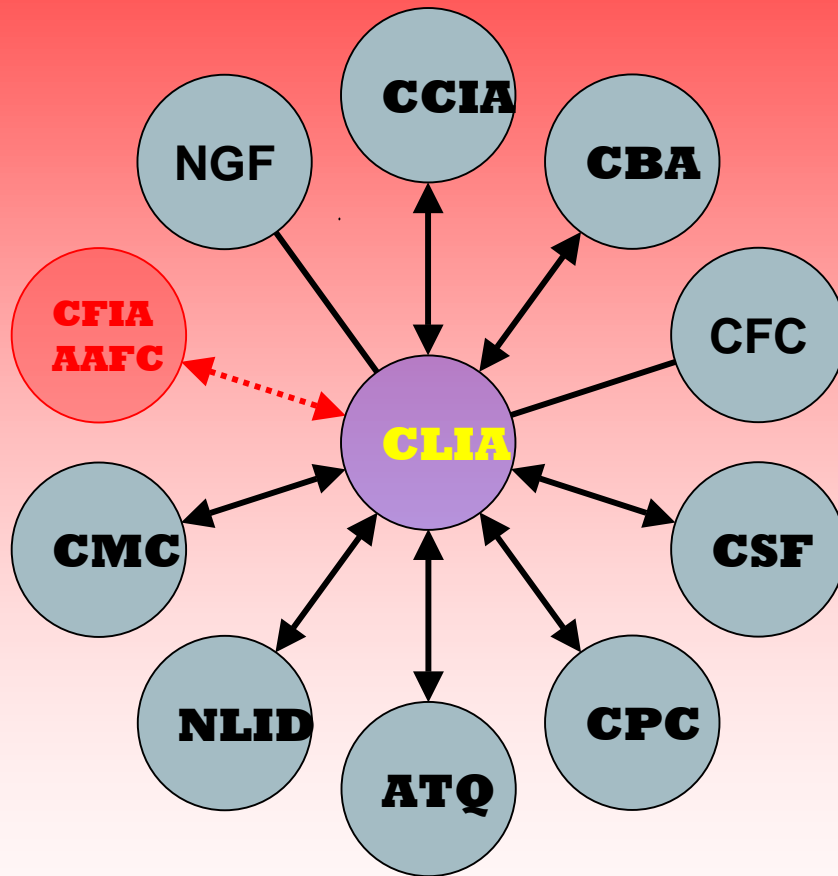
CANADIAN CATTLE IDENTIFICATION AGENCY





# Canadian Livestock Identification Agency

## Proposed Structure



**CLIA – Canadian Livestock ID Agency**

**CFIA – Canadian Food Inspection Agency**

**AAFC – Agriculture and Agri-Food Canada**

**CCIA – Canadian Cattle ID Agency**

**CMC – Canadian Meat Council**

**CBA – Canadian Bison Association**

**EC – Equine Canada**

**CTMA – Canadian Turkey Marketing Association**

**CSF – Canadian Sheep Federation**

**CPC – Canadian Pork Council**

**NGF – National Goat Federation**

**ATQ – Quebec**

**NLID – National Livestock Identification**

# Remaining Challenges

- ▶ **Tag Retention**
- ▶ **Transition to RFID – cost, distribution, etc.**
- ▶ **Effective implementation of animal movement tracking (sighting)**
- ▶ **Effectiveness of NOV's**
- ▶ **Adherence to the complete ID Regulations**
- ▶ **Priorities for Funding – RFID, Age verification, GIS, Zoning, automated data reporting, New ID technology**
- ▶ **CLIA – Premise ID/GIS**
- ▶ **Interface with other programs i.e. Can-Trace, breed associations**
- ▶ **Zoning**





# Producing Food for the World



For more information  
please contact:



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