



Applied Animal Disease Traceability and Secure Food Supply Preparedness within the Kansas Department of Agriculture

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Agency: Kansas Department of Agriculture Division of Animal Health

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About Me

- From south-central Kansas
- BS in Animal Science with a minor in Leadership Studies
- MPH Candidate
- Public Health Interest: Infectious Disease and Zoonoses
- Will be attending Kansas State College of Veterinary Medicine; Class of 2030



Foreign Animal Diseases and Public Health

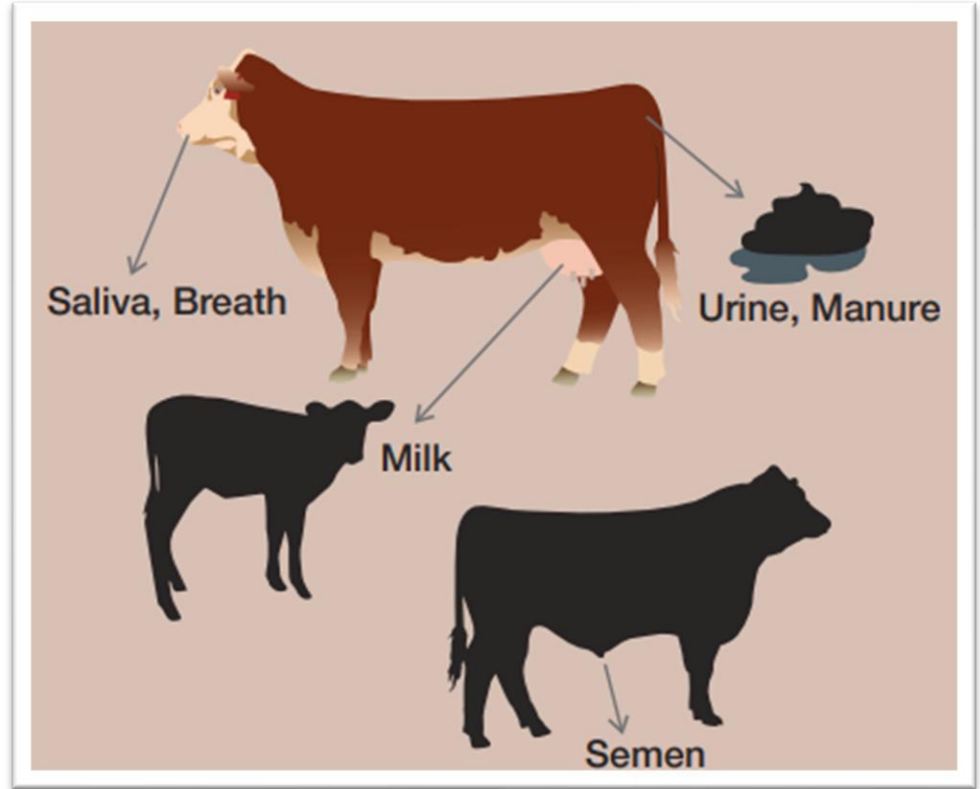
Why Do FADs Matter?

- Animal Health
- Food Security
- Agricultural Trade
- Emergency Preparedness



Foot-and-Mouth Disease (FMD)

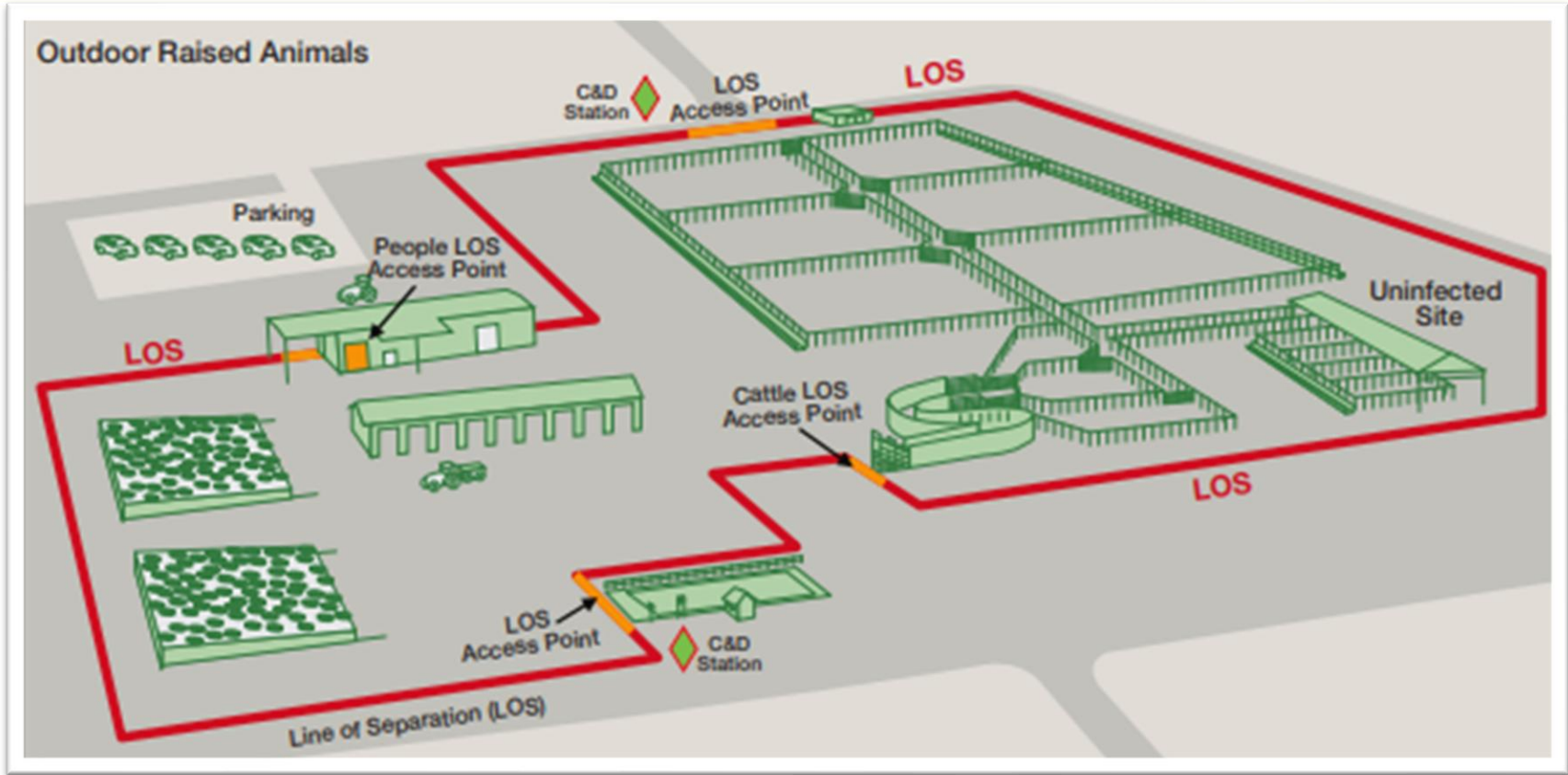
- Highly contagious FAD
- Affects cloven-hoofed livestock
- Major economic consequences



Animal Disease Traceability



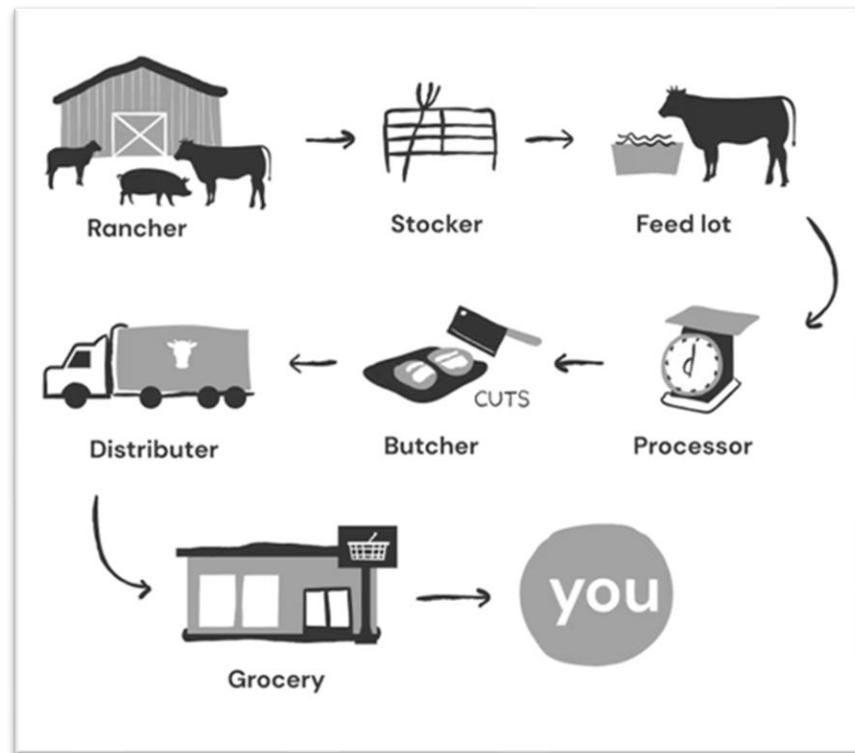
Secure Food Supply



Complementary Preparedness Systems

When used together, they help:

- Detect disease quickly
- Limit disease spread
- Maintain business continuity
- Protect animal agriculture



Agency



Kansas Department of Agriculture Division of Animal Health

Scope of the APE



Strengthen Animal Disease Traceability



Support Secure Food Supply preparedness



Develop practical resources for stakeholders



Enhance disease surveillance and response



Advance FAD preparedness

APE Objectives

Objective 1 – Strengthen understanding of ADT and its role in FAD preparedness

Objective 2 – Apply systems-thinking to animal health preparedness

Objective 3 – Develop practical preparedness tools to support outbreak response and communication

Objective 4 – Increase understanding of federal and state coordination in animal health preparedness

Objective 5 – Strengthen skills in epidemiologic surveillance, preparedness, planning, and public health communication

Objective 6 – Evaluate challenges and opportunities related to ADT and SFS implementation

Activities

- Secure Food Supply Plans
- ADT Initiatives and Surveillance
- Data entry and analysis
- Data Management
- Resource Development

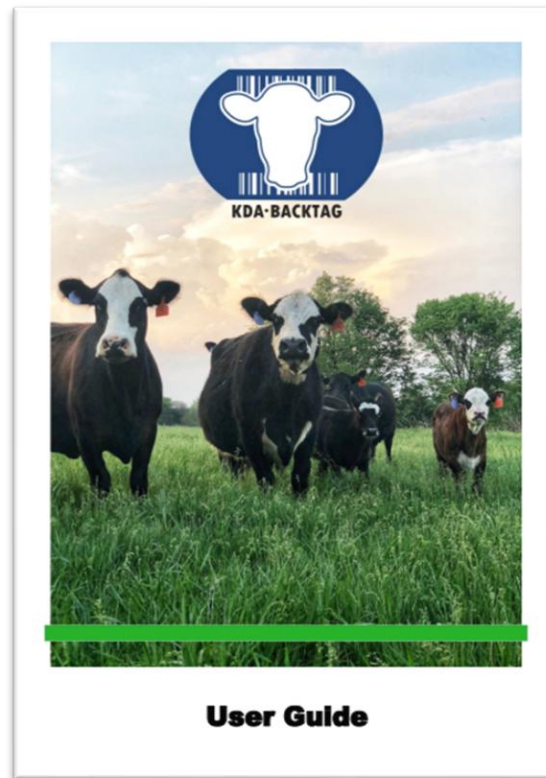
Strengthening ADT



- Concept
 - Rapid traceback and trace forward
 - Official Identification
 - Movement records
 - Disease preparedness
- Featured Product
 - Product 1: Kansas Priority Tracing Project Overview
 - Foundational Competencies 1 & 9
 - IDZ Competency 4

Improving Livestock Movement Reporting

- Concept
 - Livestock Market Backtags
 - Accurate movement records
 - Promote consistent reporting
 - Improve data quality
- Featured Product
 - Product 2: KDA BackTag User Guide
 - Foundational Competency 9
 - IDZ Competency 4



Supporting Secure Food Supply Preparedness

- Concept
 - Strengthen emergency planning
 - Improve plan accessibility
 - Enhance outbreak preparedness
 - Support continuity of business
- Featured Product
 - Product 3a: Kansas SFS Master Spreadsheet
 - Product 3b: Secure Food Supply Assessment Trend Analysis
 - Foundational Competency 9
 - IDZ Competencies 3 & 4

Evaluating Preparedness Through Data

- Concept
 - Identify preparedness gaps
 - Monitor Statewide trends
 - Support continuous improvement
 - Guide future planning
- Featured Product
 - Product 1: Kansas Priority Tracing Project Overview
 - Product 3b: Secure Food Supply Assessment Trend Analysis
 - Foundational Competencies 1, 9 and 4
 - IDZ Competencies 3 and 4

Products to Practice



Preparedness planning cannot simply exist as written guidance alone.

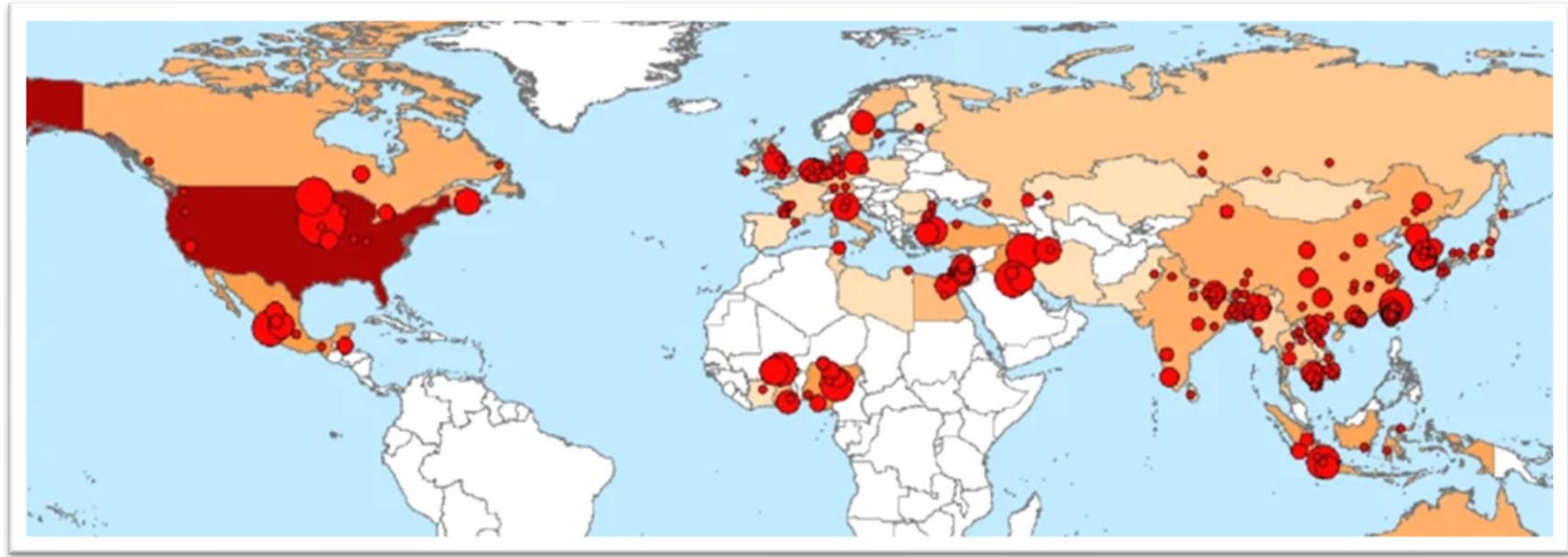
Discussion: Competencies Achieved

- My array of products required multiple competencies (Foundational 1, 4 and 9; IDZ 3 and 4)
- Synthesis and Integration of three competencies (Foundational 1, Foundational 4, and IDZ 4)
- See appendices for details

Discussion: Growth as a Scholar-Practitioner

- Strengthened understanding of disease preparedness
- Applied public health principles to veterinary medicine
- Recognized the value of collaboration across agencies
- Developed practical resources to support Kansas producers

Discussion: Key Takeaways



Disease Outbreaks = Rapid Spread Risk

└ Preparedness Efforts ┐

Faster Traceability = Faster Control



Limitations

- Kansas-specific
- Preparedness-based
- Limited field evaluation

Future Directions

- Expand ADT adoption
- Improve interoperability
- Continued resource evaluation
- Strengthen partnerships

Preparedness is Like Training



Acknowledgements

- Site Preceptor, Dr. Sara McReynolds
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 - Kelly Halbleib
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 - Dr. Michael Sanderson

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Questions and Discussion