



Camera Technology - Use Case & Value Proposition

35th Annual Swine
Conference

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Megan Kelly

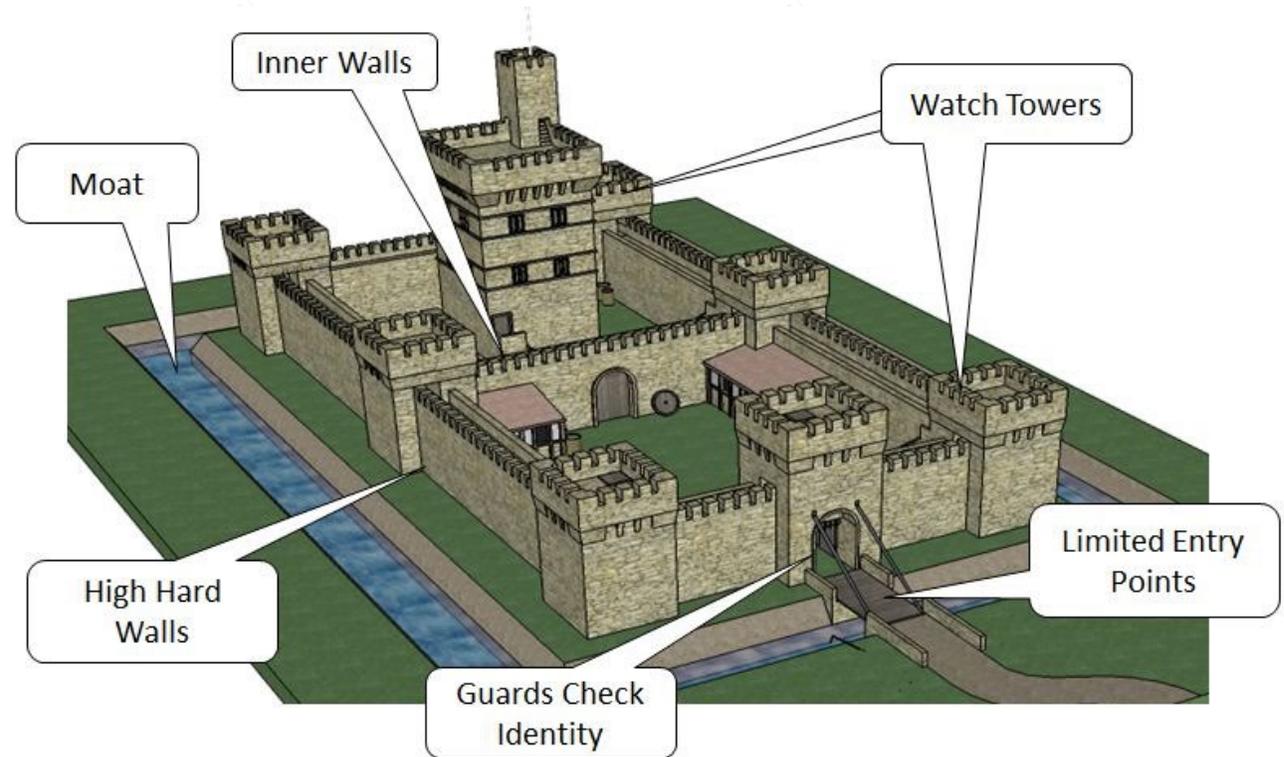
Biosecurity Definition



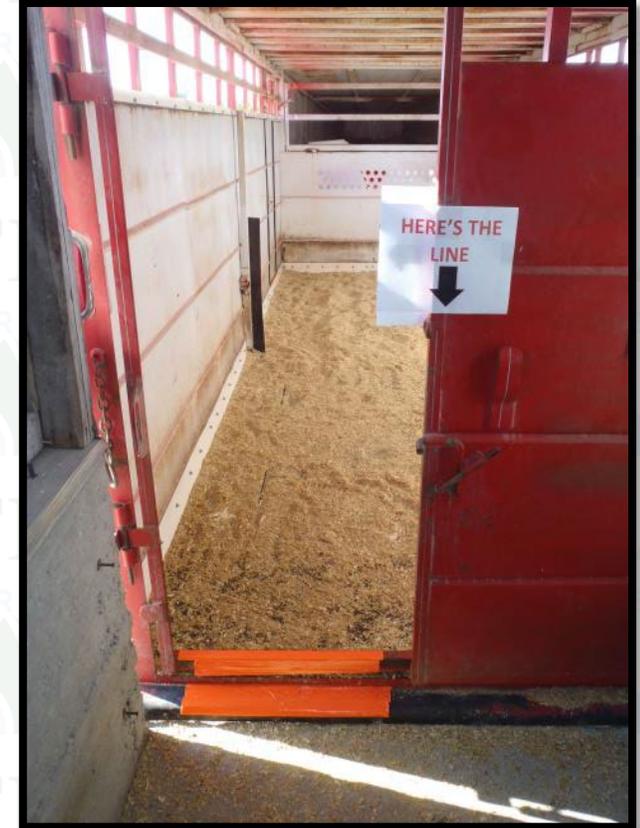
- A system of **barriers** that **reduce** the **probability** (risk) of the introduction of a **novel** pathogen

Examples of Good Barriers

- Clearly Defined CDL or LOS
- Limited Transfer Points
 - People Entry
 - Animal Entry
 - Supply Entry
 - Animal Exit
 - Mortality Exit
- Sanitation Expectations
 - Showers
 - Supplies
 - UV Chambers
 - Downtime



Critical Clean Dirty Lines to Train & Audit



Previous Biosecurity Evaluations

- Periodic on-site inspections
 - Announced vs. unannounced
- Ask team members protocols and how they do certain things
- Look for evidence that protocols are being followed

Common Biosecurity Failures Seen During On-Site Visits

1. Towels on dirty side of showers
2. Shoe distance from bench
3. Wearing incorrect clothing/boots in load out chute
4. Supplies/lunches not being sprayed with disinfectant on all sides
5. Wean pig/cull sow load CDL contamination

Common CDL Evaluation: Outbreak Investigations

- “It was the cull truck driver...”
- “It was the feed delivery guy...”
- “It was the maintenance crew..”
- “We do it this way every time...”

Value Proposition of Cameras

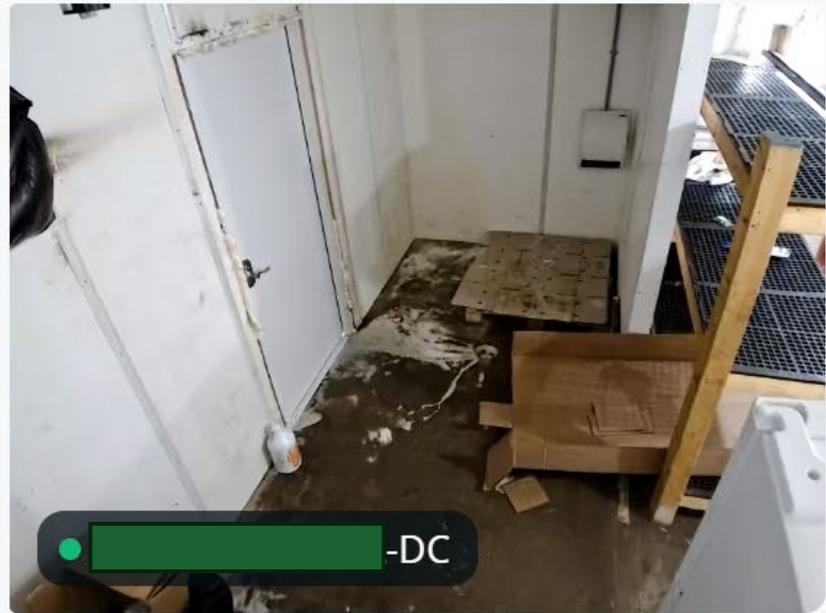
- Monitor in Real Time
 - “On the Spot Coaching”
 - Opportunities for re-training
- See Everything
 - Audit 100% of common and uncommon CDL Activities
 - Don't need to be there for the Cull Load
 - Security
- Dramatically improved ability to do Outbreak Investigations
 - With appropriate diagnostics, we often narrow down the date of pathogen introduction to a 3-7 day window
 - 30 Days of Storage at ALL TIMES
 - “It was the cull truck driver”
 - “We always do it this way”



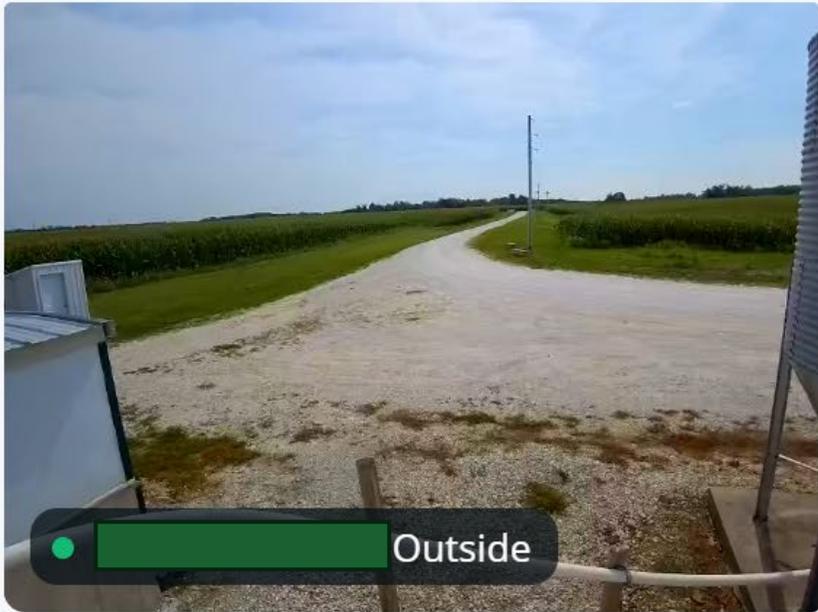
DeadDrop



-LoadOut



-DC



Outside



-BootRoom



LoadOut



×



6:27 AM

6:37 AM



Fri 08/01/2025 06:32:52 AM ^



BootRoom



6:17 AM

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Sun 08/03/2025 06:22:42 AM ^



Loadout - One Way Movement

- Where is the Clean/Dirty Line?
 - The door/truck interface
- Items to Watch for:
 - Pig Management at Clean/Dirty Line
 - Pigs should not go back and forth across the CDL
 - People Management at the Clean/Dirty Line
 - People should never cross the CDL
 - People on both sides of the CDL should be wearing Tyvex and rubber gloves
 - Washing Chute
 - The chute should be washed and disinfected immediately after the loading of all pigs
 - Tyvex and rubber gloves should be worn during this activity



People Entry

- Where is the Clean/Dirty Line?
 - The bench
- Items to Watch for:
 - Shoe Management at Clean/Dirty Line
 - Shoes should be removed on the “dirty” side of the bench and feet should come over the bench onto the “clean” side without ever touching the ground/floor on the dirty side
 - The presumption is our shoes are much more likely to be contaminated than our socks or bare feet – as such we want to remove the shoes and only progress to the shower rooms with our socks or bare feet
 - It is critical that bare feet and/or socks are not contaminated by walking on the dirty side
 - Phone and Coat Management
 - Phones and Coats are not allowed past the bench



Outside/Parking - Security & Sanitation Step

- Where is the Clean/Dirty Line?
 - The door of the vehicle
- Items to Watch for:
 - Booties should be put on while exiting the vehicle
 - Booties should be removed before entering the vehicle



Supply Entry - Sanitation Step

- Where is the Clean/Dirty Line?
 - It changes - This room is either Clean or Dirty at any given time, but never both
 - When the room is being “loaded” with new supplies, it’s Dirty and the CDL is the door that enters the Farm
 - When the room is being “unloaded” and new supplies are entering the farm, it’s Clean and the CDL is the door that exits the Farm
- Items to Watch for:
 - Room should be Filled with Supplies, then not accessed for 7 days
 - Lack of Storage in the Supply



Mortality Removal – One Way Movement

- Where is the Clean/Dirty Line?
 - The exit door of the mortality room
- Items to Watch for:
 - Mortality Management at Clean/Dirty Line
 - Mortalities should be removed from the farm without any “outside” supplies or personnel touching the mortalities on the “clean” side of the CDL
 - Rubber gloves should be worn for this activity
 - Washing Mortality Room
 - The room should be washed and disinfected immediately after the removing all mortalities
 - Rubber gloves should be worn during this activity
 - Mortality Room used at End of the Day
 - The mortalities should enter the room and be removed only in the afternoon, the last task of the day for the farm
 - Lack of Storage in the Mortality Room
 - This area should not be used for storage of routine supplies and equipment, in general this room should be empty at all times unless

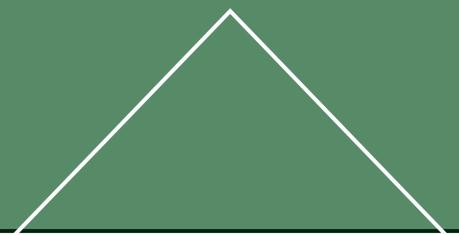


Imagine Doing Your Visit with The Value of Camera Data

- Routine Visit:
 - Metrics - % Pass/Fail at each CDL
 - Specific Coaching Opportunities
 - Benchmarking - vs Other Farms & Your Farm
- Outbreak Investigations:
 - No Need for Open Ended Questions
 - No Need for Speculation about Answer Accuracy
 - Complete Audits of all CDL Activity within Hours of Outbreak, without having to Travel to the Farm
 - Better Evaluation of Theft/Intentional Exposure Potential
 - Better Evaluation of Aerosol Potential



Thank You!!



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