

Teys - Lumachain

Smart Vision Project

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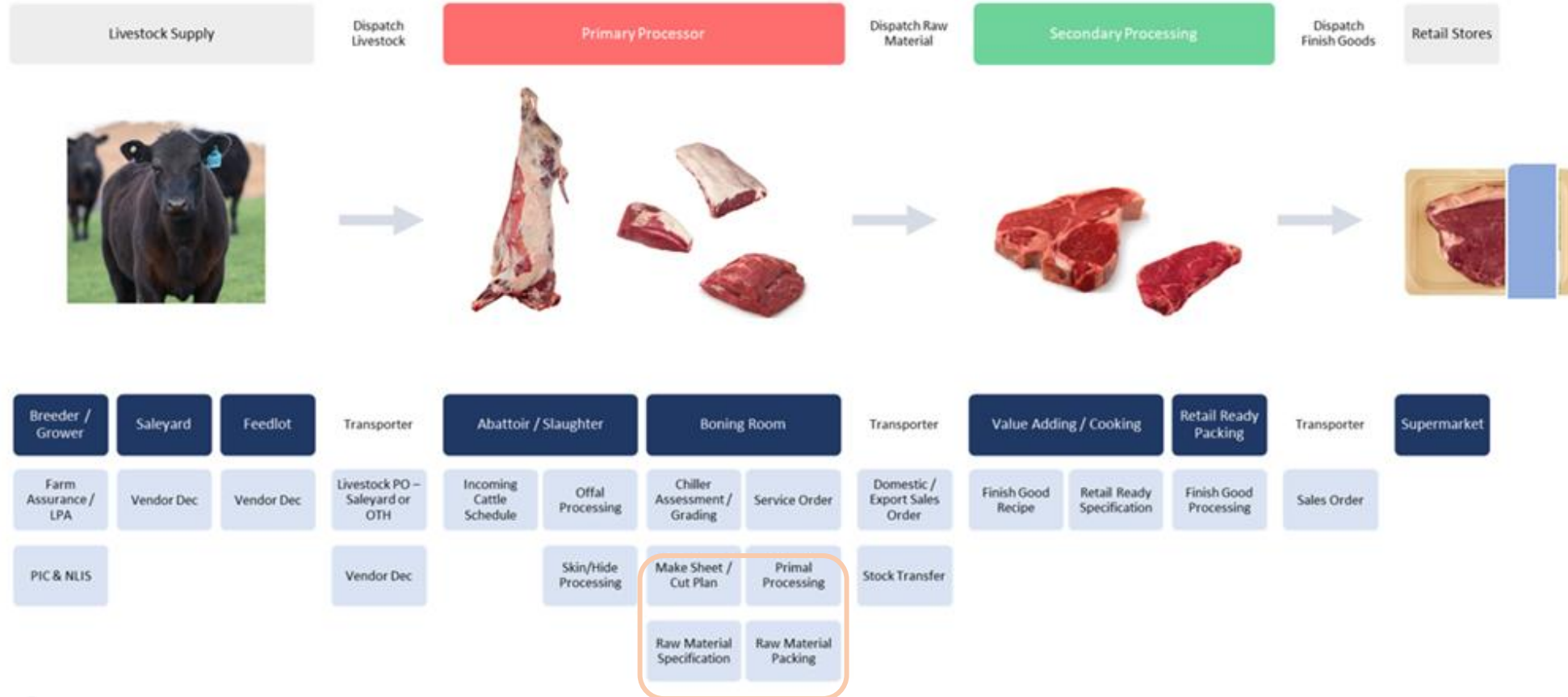
Smart Vision Project

Teys Objectives

- R & D
- Traceability
- Individual Piece Yield
 - Operational efficiencies
- Individual Carcase Value
- Product costings (BOM)
- Integration with pack off systems
 - Operational efficiencies (robotic integration)
 - No overproduction

Smart Vision Project

Lumachain Solution



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Smart Vision Project

Project Objectives

- Tracking each unique cut harvested through to a bagging station and correctly associating it back to a single carcass.
- Tracking each unique cut from bagging station through to box and correctly associating it back to a single carcass.
- Measuring processing time to the second for each of the following areas
 - Boning contact time
 - Drop tray idle time
 - Slicing contact time
 - Slicing idle time
 - Further trimming contact time
 - Further trimming idle time

Smart Vision Project

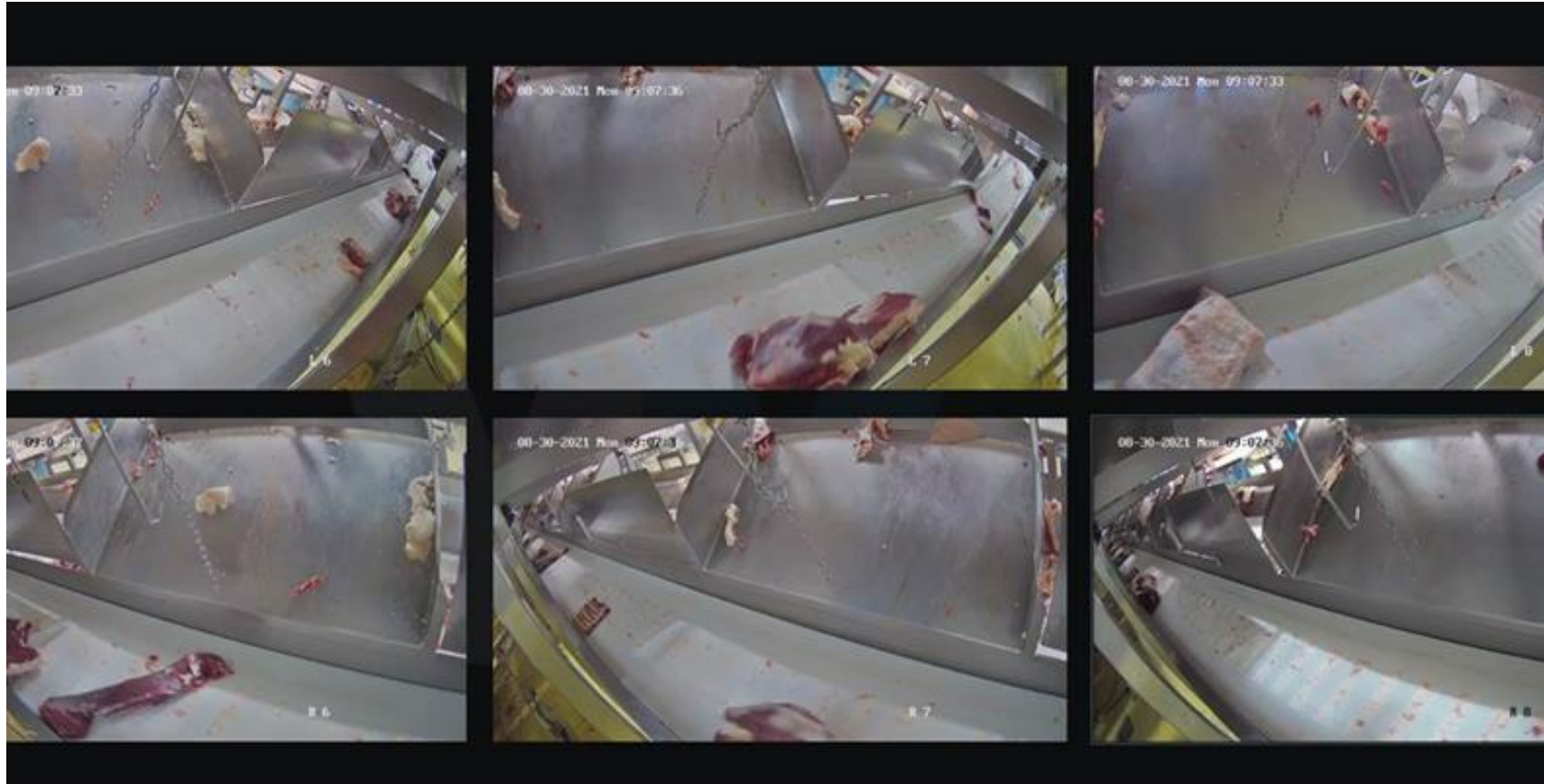
Camera Installation



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Smart Vision Project

Camera Installation



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Risks, Issues

- Ability of AI to determine primal from trim
 - Parent Primal and Cut link
- Product stacking
- Cleaning and maintenance
- Level of accuracy required to continue installation (90%)
- Back end solution
 - QR code on bag

Smart Vision Project

Not in Current Scope

- Red Meat on bones
- Detecting meat on the floor
- Defect Trimmers trimming out of habit or missing defects
- Foreign object detection
- Carcase cleanliness
- Packaging defects – Box bulging, popped tops, broken bags
- Animal welfare processes
- Vet certificate, vendor declaration scanning
- Shipping information