Camera Augmented Inspection in Utah

Josh Van Jura
Overview of UDOT

- 4 Regions
- 17 Construction Crews
- 30 Full Time Inspectors
- 500 Cross Trained Transportation Technician Inspectors

- Approx 170 projects / yr
Primary Needs

- Inspection Augmentation

- Ability to get second pair of eyes quickly

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  - Easily document contractor activities
Secondary Benefits

- Documentation
  - Equipment
  - Labor
  - Activities / Sequencing
  - Weather

- Safety / Security

- Visual verification of field logs
Capabilities

- Wireless
- Solar powered
- Archive Photos
- Remote Live Stream
- High Resolution
- Easy to relocate
- No software required
- SAAS
Construction Cameras Procurement

- Research what’s available

- Write a spec
  - Combined from manufacturers
  - Beware of unicorns
  - Include service (if needed)
Construction Camera

- Purchased in June 2015
- Total of 5 Cameras
- Available for project duration by request
- No cost to project or contractor
Bids

- **Bids:**
  - $14,500, $20,000, $38,995, $50,613 (per camera)
  - No opportunity to buy trailer and install another manufacturer's camera and solar panel

- **Data Service**
  - 1 year included then month to month
  - $125 per month per camera
Deployed Trailer has 7' X 8'-6" Footprint
Camera Extends to 28' from ground level
1760 lbs

Boom

Jacks

LIDOT
Keeping Utah Moving
Time Lapse – 6 minute capture
Users Management

- Administrator
  - Log In / Passwords

- Appropriate Use Agreements

- Project Staff Access Only
  - AGC Concerns – Can show too much
Summary

- Inspection *Augmentation*
- Easy to set up & relocate
- Big Brother Concerns
  - Stay in front of rumors
- Health Insurance
- Other Uses - Maintenance
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