

Autonomous Ground Transportation

ACI-NA Information Technology Committee
September 29, 2018

Steve Maybee, Vice President, Operations & Infrastructure
Edmonton International Airport





- Completed
- Completion by 2018
- Approved (Starting 2018)
- Future Plans

Current Security Profile

- \$250k plus per year to patrol fences
- Still have risks associated with the fence line
- Safety an issue with animals accessing the airfield
- Roving patrols, cameras and sensors
- Installation of ground intrusion radar currently underway



Fence Line

- Inspections done manually
- Visual inspections for openings occur due to intrusion or holes underneath created by animals





Reasons for Finding Alternatives

- Use of technology to see things we aren't able to easily detect with our eyes
- Using analytics to show changes from the norm
- Using technology to free up people to do the important tasks vs routine inspections
- Cost – airports are expensive and need to find efficiencies

Why did we invest and explore this opportunity

- We are interested in autonomous technology for a variety of uses
- Edmonton has a large technology sector and a local company is invested in this technology
- Wanted to explore a partnership to test and develop
- Exploring opportunities beyond the fence inspections



Autonomous vehicle at EIA



Technology on the autonomous vehicle – Vision Based Systems

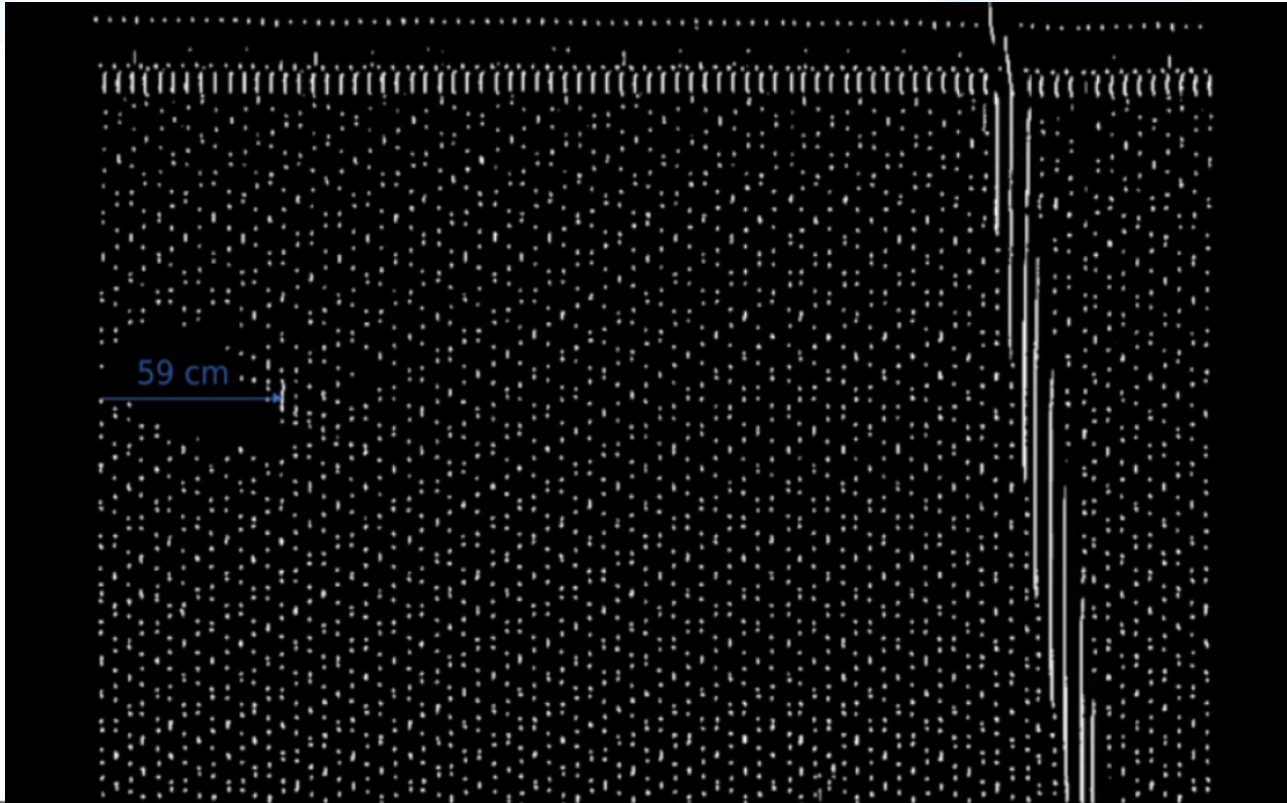


Technology on the autonomous vehicle – Vision Based Systems

LiDAR for obstacle detection
and path planning



Fence Integrity Checks – fence hole detected





Questions