



Sloan Security Technologies

Delivering Safety and Security Solutions.

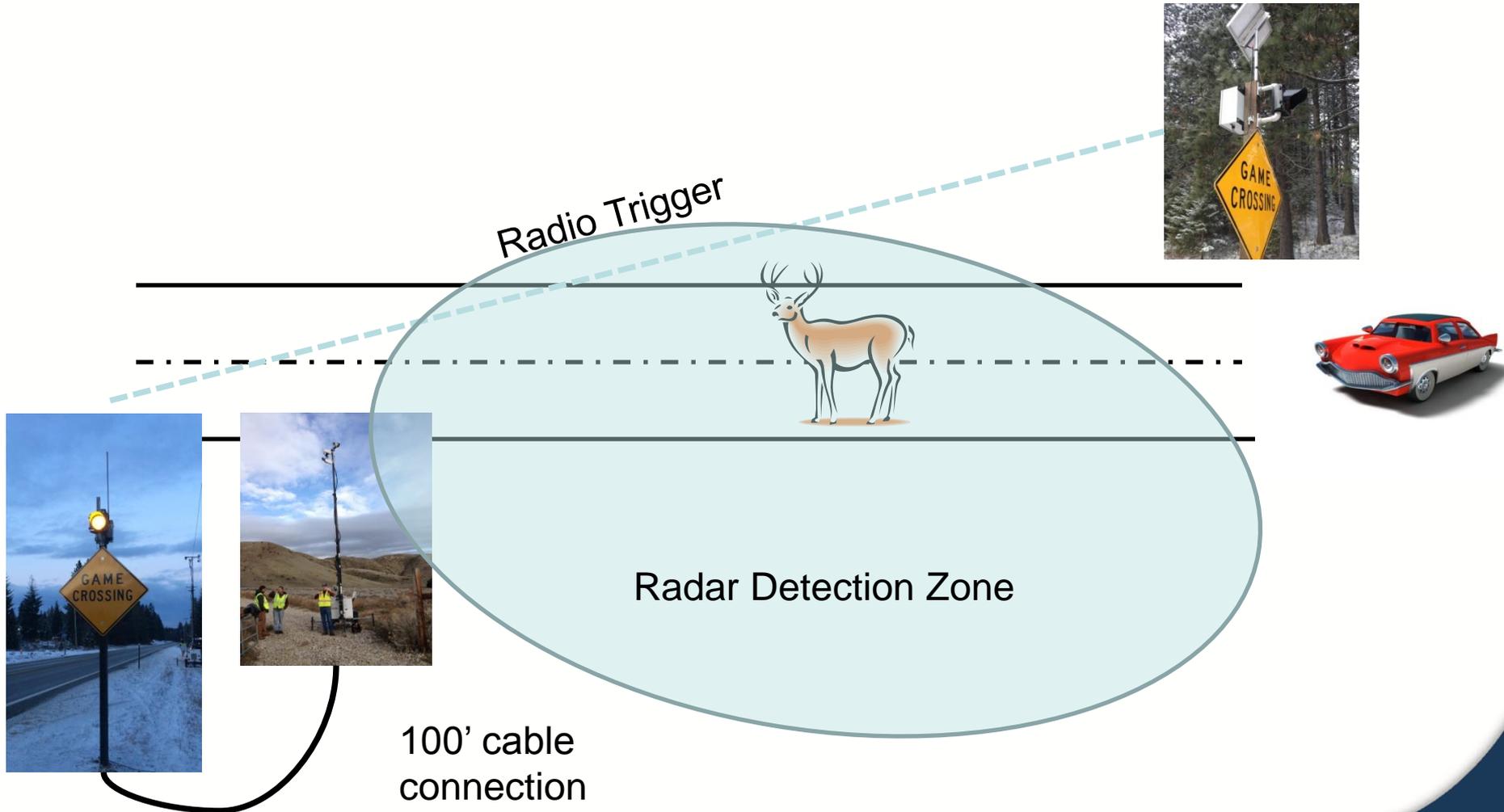
*Presentation to the Kootenai Valley Resource Initiative
Wildlife-Auto Collision (WAC) Project
Project Update*



Made with Pride in Idaho



System Deployment - *System Overview*





Regular Light Mast Trailer

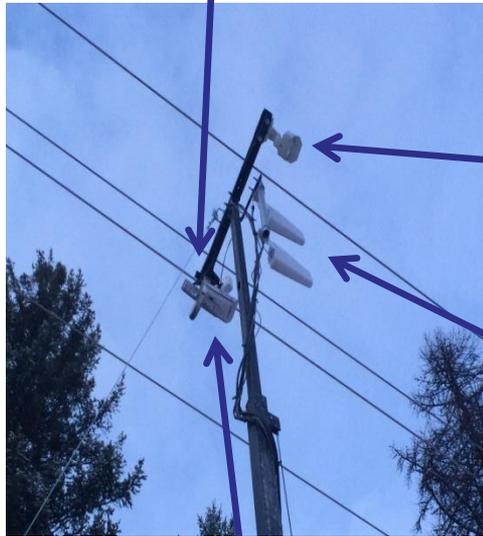




Instead of Lights...



Radar



Day and Night Camera

High Speed Cellular Antenna

Thermal Camera





Detections

Creating Highway Safety Zones via
Radar to Driver Alerts

Presented by

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Sloan Security Technologies

6.16.2014



Success Criteria





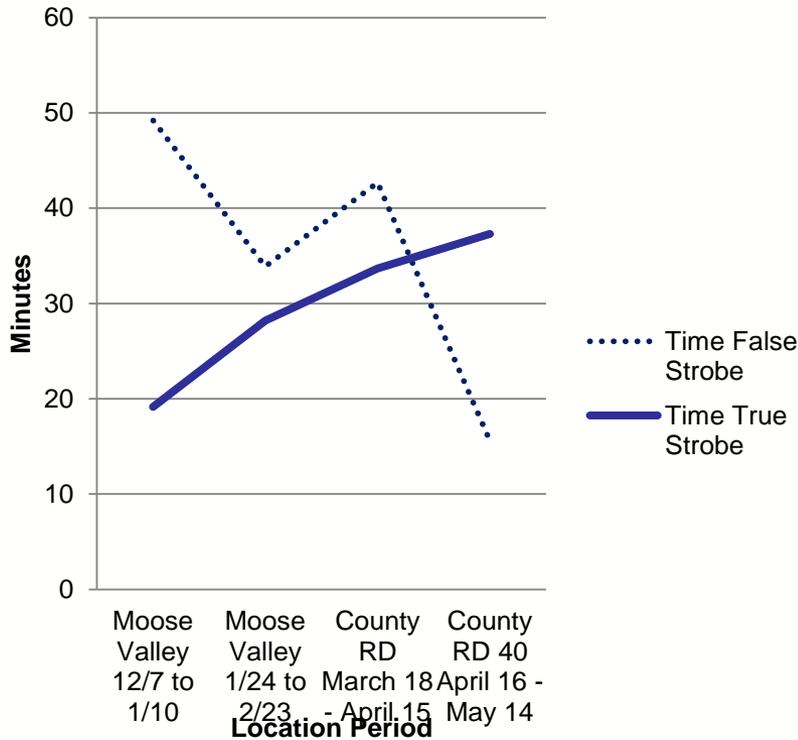
Statistics

Data Type	Moose Valley 12/7 to 1/10	Moose Valley 1/24 to 2/23	Fawn Lane 3/18 – 4/15	Fawn Lane April 4/15 – 5/14
TRUE	230	282	247	348
FALSE	593	339	313	146
Total Alarms (True + False)	823	621	560	494
% True	28%	45%	44%	70%
% False	72%	55%	56%	30%
Ave Alarms Per Day True	6.38	9.4	11.2	12.4
Ave Alarms Per Day False	16.4	11.3	14.2	5.2
Time False Strobe	49.2	33.9	42.7	15.6
Time True Strobe	19.14	28.2	33.7	37.29
Average Estimated Traffic Volume (vehicles per day) - ITD Counter 16 Bonners Ferry [click for updated info]	6734	6,796	3,500	3,500
False Alarms as a function of traffic volume	0.24%	0.17%	0.32%	0.07%
Accuracy Filtering out Vehicles	99.76%	99.83%	99.68%	99.85%

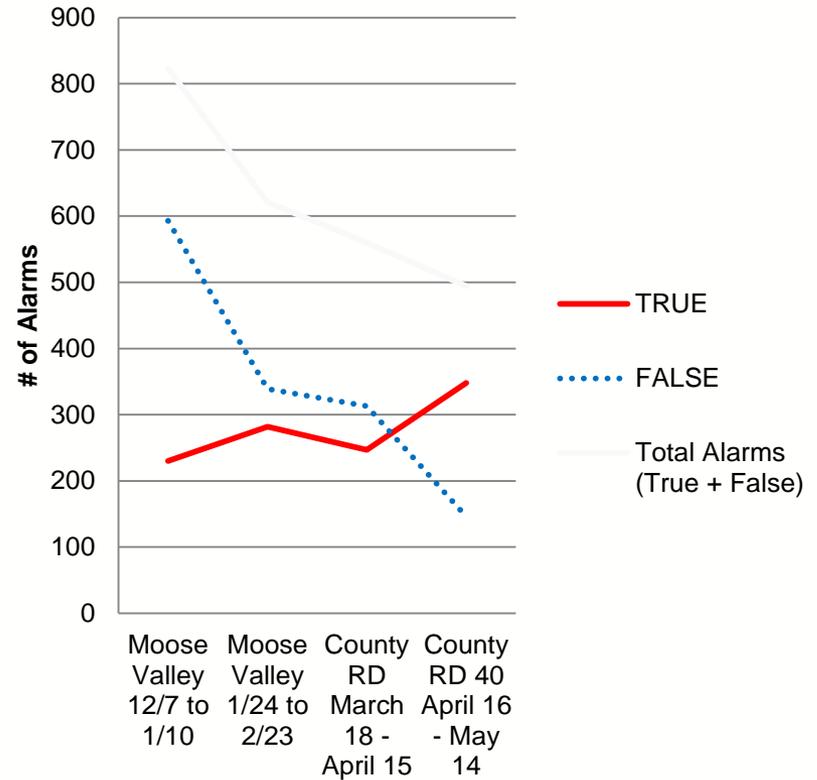


Graphs

Warning Strobe Duration at Test Site in Minutes per Day



Validated True vs False Alarms





Accident Data

- No Animal-Vehicle Accidents During 3 Months of Testing at Moose Valley Rd
 - Accident on site following moving system
- Several Animal-Vehicle accidents at the Fawn Lane site (clarifying further)
 - Unclear signage?
 - Work with ITD to ID locations
 - Volume of animal traffic



Lessons Learned

- Design recommendations
- Improved filtering
 - Less sensitive to trucks
 - More sensitive to animals
 - Handle Driveways
- Confidence in system uptime



Next Steps

- Is there funding to continue system
- Funding to expand system
- Can community use the data?
 - Traffic count
 - Speed sampling?
- Use for education
 - Sign placement
 - Drivers Ed



Questions?