

2016 UDOT RESEARCH PROBLEM STATEMENT

*** Problem statement deadline is March 14, 2016. Submit statements to Tom Hales at tahales@utah.gov. ***

Title: Smart Work Zones using End of Queue Detection Warning Systems

No. (office use): 16.03.01

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UDOT Champion (suggested):

Select One Subject Area

Materials/Pavements

Maintenance

Traffic Mgmt/Safety

Preconstruction

Planning

1. Describe the problem to be addressed.

For years we, as a Department have struggled with using technology to make our Work Zones Smarter. One of the systems that other states are using is an End of Queue Warning System. This is something that could reduce or prevent rear end crashes while reducing the injuries resulting from them.

2. Explain why this research is important.

Had two fatalities over the last two years because motorists were not aware of the end of queue.

3. List the research objective(s):

1. Determine existing systems that currently are being used.
2. Evaluate and come up with specifications and standards for the implementation of End of Queue Systems on UDOT Construction Zones.

4. List the major tasks:

1. Research of existing systems
2. Development of specifications and standards
3. Working with either procurement or other means to make them available for use on projects

5. List the expected results:

1. Standards and Specifications
2. Ability to select the option of using the system on projects

6. Describe how this research will be implemented.

Hopefully we can implement EOQ systems on our projects in the near future

7. Requested from UDOT: \$

Other/Matching Funds: \$

Total Cost: \$

8. Outline the proposed schedule, including start and major event dates.

Start asap and get something in place for implementation next construction season.