

# 2016 UDOT RESEARCH PROBLEM STATEMENT

\*\*\* Problem statement deadline is March 14, 2016. Submit statements to Tom Hales at [tahales@utah.gov](mailto:tahales@utah.gov). \*\*\*

**Title:** Traffic Ticker

**No. (office use):** 16.03.15

**Submitted By:** Darcy Bullock

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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.**

Development dashboard to characterize the performance of freeways and signalized arterials.

**2. Explain why this research is important.**

With over a thousand miles of freeway and hundreds of signalized intersections, it is important to have high level dashboards to assess the relative impact of special events, winter weather, and recurring congestion.

**3. List the research objective(s):**

1. Develop consensus on appropriate performance measure to be track with a signal system ticker (perhaps split failure)
2. Develop consensus on appropriate performance measures to track with a freeway system ticker (perhaps miles<45mph, or speed profiles)

**4. List the major tasks:**

1. Engage with stakeholders on a recurring basis.
2. Refine performance measures
3. Refine visualization graphics

**5. List the expected results:**

1. Traffic Signal Ticker
2. Freeway Ticker

**6. Describe how this research will be implemented.**

Collaborate with UDOT TMC Team to incorporate into there dashboards

**7. Requested from UDOT:** \$50,000-\$100,000

**Other/Matching Funds:** \$

**Total Cost:** \$

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

