Work Zone ITS
The Next Step
Data
Why collect data?

• Federal Work Zone Safety & Mobility Rule.
• Make better use of systems we are already using.
• Get better at choosing the best system in future.
What do we need first?

• The right kinds of data.
• Collect it, store it, and categorize it.
• Get up close and personal with your data!
What data should we use?
Some things to consider...

- Real time data versus collected data.
- Project level data versus system performance data.
- Probe data versus spot data.
- The importance of “raw” data.
- The importance of multiple data points.
Additional considerations...

- Choose sensors that meet your needs.
- Simple is best for staged or moving work zones.
- One more sensor for your worst case scenario.
- Frequency of polling.
The best metrics will vary by:
The best metrics will vary by:

Agency
The best metrics will vary by:

Agency

Road Classification
The best metrics will vary by:

- Agency
- Location
- Road Classification

Work Zone ITS – The Next Step
August 10, 2015
The best metrics will vary by:

- Agency
- Construction Activity
- Location
- Road Classification

Work Zone ITS – The Next Step
August 10, 2015
The best metrics will vary by:

- Agency
- Construction Activity
- Location
- Road Classification
- Duration

Work Zone ITS – The Next Step
August 10, 2015

Snowbird 2015
Try to remain flexible.
Categorize (Tag) your data.

- Construction activity type.
- Type of facility.
- Project goals.
- Urban or rural.
- Traffic control.
Begin comparing right away!
What if I don’t have ANY data?
Queue warning systems

TTI/FHWA Study of Queue Warning Systems
45% reduction in end of queue crashes.
$1.4 to $1.8 million reduction in societal costs.
$6600 to $10,000 savings EVERY NIGHT!
Joe Jeffrey
Road-Tech Safety Services Inc.
(530)672-0222
joe@road-tech.com

Work Zone ITS Blog
www.workzoneitsblog.com

Work Zone ITS – The Next Step
August 10, 2015