Work Zone ITS

The Next Step

Elevate ITS
Traversing the Terrain to Rural ITS

Snowbird 2015

Data

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August 10, 2015

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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

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The best metrics will vary by:

Agency

Road Classification

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The best metrics will vary by:

Agency

Location

Road Classification

The best metrics will vary by:

Agency

Construction Activity

Location

Road Classification

The best metrics will vary by:

Agency

Construction Activity

Location

Road Classification

Duration

Try to remain flexible.

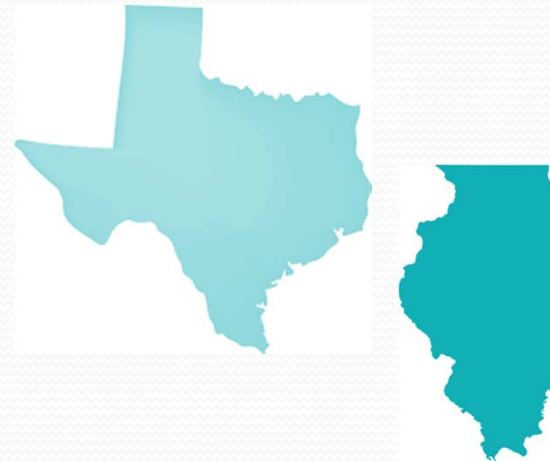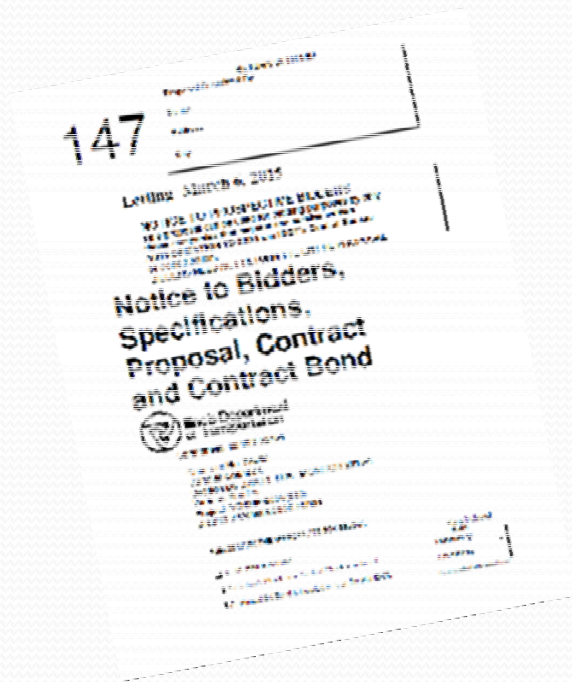# Categorize (Tag) your data.

- 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!

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Work Zone ITS Blog
www.workzoneitsblog.com

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