Measuring and minimizing delays in Urban Areas

- Along 9 freeways (segments only) throughout Michigan
- Two freeways at each of 15 of 22 Transportation Service Centers in 5 of 7 Regions
- Summer: Traffic incident and work zone travel
- Winter: Traffic incident and winter weather travel
Measuring and minimizing delays in Rural Areas

- Along all non-freeways segments in 2 of 7 regions
- Measuring work zone and winter weather travel
- Freeway data is not consistent enough to be useful
3 TSCs are weekly accounting for:
- 4 counties of I-94
- 2 counties of I-69
- 2 counties of I-196
Traffic Operations
Moving People and Goods

www.michigan.gov/drive

10/06/13
11:30 AM
Probe data from HERE
(aka Navteq)
Traffic Operations
Moving People and Goods

Regional Integrated Transportation Information System
by Atkins/CATT
Focus on the Wildly Important
Act on the Lead Measures
Keep a Compelling Scoreboard
Create a Cadence of Accountability
WIG: Limit user delay costs to the 3-year average

- **Moving traffic in winter – improve winter ops**
  - 2012/2013: Regain normal speeds 80% of time at less than 2-hours after the end of event
  - 2013/2014: Maintain speeds within 10 mph of average 80% of time during morning peak travel times during winter storm events

- **Moving traffic in summer – optimize work zones**
  - Limit the non-recurring congestion delay costs to 5% less than the three-year average
WIG: Limit user delay costs to the 3-year average

- Moving traffic year-round during traffic incidents – quick clearance
  - Reduce the amount of lane blockages caused by crashes lasting longer than 2-hours to 5% less than the three-year average
Regain Time: I-94 - Kalamazoo Garage

Normal Speeds Achieved: 10:20AM
Regain Time: 1.83 hrs

Regain Time is achieved when measured speeds return to within 5mph of historical speeds.
SW Region Construction Season Non-Recurring UDC

- Non-Recurring User Delay Cost
- 2013
- 3-year AVG

- 4/7/2013
- 5/5/2013
- 6/2/2013
- 6/30/2013
- 7/28/2013
- 8/25/2013
- 9/22/2013
- 10/20/2013
- 11/17/2013

- $10
- $8
- $6
- $4
- $2
- $0

- Millions
MAP-21 Performance Metrics

- **Annual Hours of Delay (AHD)**—Travel time above a congestion threshold (defined by State DOTs and MPOs) in units of vehicle-hours of delay on Interstate and NHS corridors.
  - RITIS is currently capable to report this. MDOT will need to define the congestion threshold.

- **Reliability Index (RI80)**—The Reliability Index is defined as the ratio of the 80th percentile travel time to the agency-determined threshold travel time.
  - RITIS currently uses 95th percentile instead of 80th percentile and currently doesn’t allow us to put in a determined threshold travel time (it is automatically calculated).
Questions