

## FHWA Project Update:

### Multimodal System Performance Measures Research and Application Study

**Purpose:** The work in this study focuses on identifying existing and potential multimodal data sources necessary to develop a true multimodal system performance measure(s) and then test/pilot the proposed measure(s).

**Sponsor:** FHWA's Office of Operations (with multi-agency Technical Advisory Group)

**Research Team:** Leidos and Renaissance Planning

**Process:**

- ✓ Research state of practice in measuring multimodal performance, existing and emerging data sources
- ✓ Propose "ideal" measure(s) that best capture multimodal system performance (even if the data or means to calculate a measure is not available today)
- ✓ Identify data gaps in achieving the "ideal" measure(s) and identify surrogate measures for testing
- ✓ Pilot test approach at 3 to 6 sites (metro areas) – 2017 to 2018
- ✓ Develop Research/Innovation Plan –necessary steps to acquire data in order to calculate the "ideal" measure(s)

**Highlights:**

- "Ideal" Measure = *Multimodal System Productivity* = number of person trips system can accommodate per time slice (similar to person throughput, but all modes and omnidirectional)
- Reliance on emerging Big Data – especially cell phone data on complete door to door trips and GPS on travel paths – but data for all modes currently incomplete

**Assistance Welcome:**

- Agencies with data on pedestrian, biking and transit use that provides counts, travel times, and/or trips
- Identification of sites (locations) that have unusually good data reserves for modes beyond highways and an interest in being part of pilot test

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