



Pooled Fund Project TPF-5(283): The Influence of Vehicular Live Loads on Bridge Performance

Thomas Saad, P.E.

Federal Highway Administration

Hamid Ghasemi, Ph.D.

Team Leader & Program Manager
Federal Highway Administration

Robert Zobel, Ph.D., P.E.

Federal Highway Administration

Sue Lane, P.E.

Federal Highway Administration



Project Initiation

- TPF Solicitation posted in June, 2012 seeking participating States and industry
- TPF Project established in July, 2013
 - 7 States, FHWA have made commitments
 - Over \$2M committed
 - Anticipated to be a 5 year project
 - Awarded a contract to Pennoni Associates Inc.
- Establishment of the Technical Advisory Committee underway



Project Participants

- Minnesota DOT
- Wisconsin DOT
- Georgia DOT
- North Carolina DOT
- Iowa DOT
- Pennsylvania DOT
- Oregon DOT
- FHWA, LTBP Program





Key Project Goals

- **Develop a National Bridge Traffic Database**
- **Determine and quantify influence of trucks on bridge component performance**
- **Develop protocols for collecting research quality bridge traffic data**
- **Develop tools and products that bridge owners can use to manage and operate loading conditions on existing network of highway bridges**



Project Contract Awarded

- **FHWA LTBP IDIQ Contractors submitted proposals for 'proof of concept' task order**
- **Pennoni Associates awarded 2-year contract in November 2013**



Project Details

- **Conduct literature review of WIM data collection systems**
- **Identify best technologies for collecting necessary data**
- **Identify best locations for data collection and # of sites**
- **Develop protocols for collecting research quality bridge traffic data**
- **Synthesize all findings and conduct workshop**
- **Collect data for 2 years at select sites**
- **Maintain systems, analyze data**
- **Store data in format appropriate for Bridge Portal**



Interested in participating in Pooled Fund Project TPF-5(283)?

Contact:

Thomas Saad, FHWA Resource Center

Phone: 708-283-3521

E-mail: thomas.saad@dot.gov





***Thank You!
Questions?***