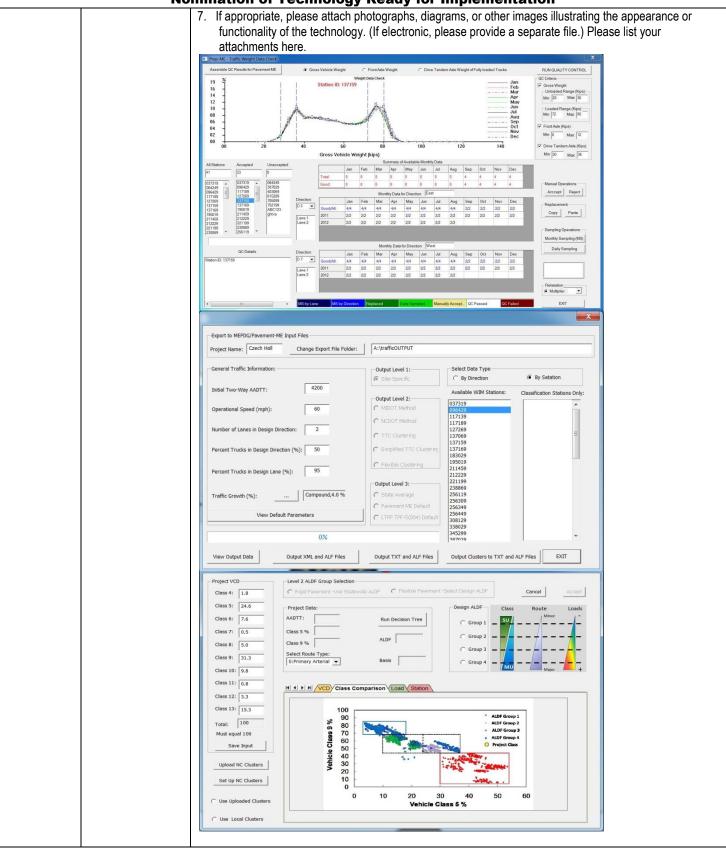
Sponsor	Nominations must be submitted by an	Sponsoring DOT (State): Pooled fund study TPF-5(242), Traffic and Data Preparation for AASHTO MEPDG Analysis and Design				
	AASHTO member	Name and Title: Harold Paul, Sponsor contact, Director     Organization: LTRC/LADOTD     Street Address: 4101 Gourrier Ave.				
	DOT willing to help					
	promote the					
	technology	City: Baton Rouge	1101 7 170.	State: LA	Zipcode: 70808	
		E-mail: doc.zhang@la.gov		Phone: 225-767-9162	Fax: 225-767-9108	
		3. Date Submitted: 27 Dec 2013				
		4. Is the sponsoring State DOT willing to promote this technology to other states by participating on a Lead States Team supported by the AASHTO Technology Implementation Group? Yes or No: yes				
Technology Description (10 points)	The term "technology" may include processes,	Name of Technology:  Prep-ME Software for the Implementation of Pavement ME Design				
(10 points)	products, techniques, procedures, and practices.					



State of
Development
(30 points)

Technologies must be successfully deployed in at least one State DOT. The TIG selection process will favor technologies that have advanced beyond the research stage, at least to the pilot deployment stage, and preferably into routine use.

- 8. Briefly describe the history of its development.
  - Lead state: LADOTD
  - Sign up states: HI, KY, LA, MD, NC, NH, WI, MI, and FHWA
  - Contract period: Sep. 1, 2011 Aug. 31, 2014
  - Commitment: \$50,000/State total for three years
  - Sponsor contact: Harold Paul / Doc Zhang harold.paul@la.gov
  - FHWA contact: Gary Crawford, Gary.Crawford@dot.gov
- 9. For how long and in approximately how many applications has your State DOT used this technology?

Eight state highway agencies, including HI, KY, LA, MD, NC, NH, WI, and MI, are in the process of implementing this software in their daily production activities.

10. What additional development is necessary to enable routine deployment of the technology?

Future developments and enhancement of Prep-ME will be based on the needs of individual states with more specific features requested by individual states. Technical support and training are needed for other states to enable routine deployment of the software.

11. Have other organizations used this technology? Yes or No: yes If so, please list organization names and contacts.

Organization	Name	Phone	E-mail
NC DOT	Kent L Taylor	(919) 212-4550	kltaylor@ncdot.gov
MI DOT	Michael Eacker	(517) 322-3474	eackerm@michigan.gov
KY Transportation Cabinet	Paul Looney	(502) 782-4897	paul.looney@ky.gov
Wi DOT	Laura Fenley	(608) 246-5455	laura.fenley@dot.wi.gov

#### Potential Payoff (30 points)

Payoff is defined as the combination of broad applicability and significant benefit or advantage over other currently available technologies.

- 12. How does the technology meet customer or stakeholder needs in your State DOT or other organizations that have used it?
  - Help state traffic data collection engineers to conduct an effective QA/QC check on traffic data collected for all kinds of applications, such as pavement design, HPMS, traffic planning, bridge design etc.
  - Help state pavement design engineers to analyze the traffic loading data collected through the Weight-in-Motion (WIM) technology and select the best load spectra for pavement design purpose among WIMs, national, and local defaults.
  - Improve the productivities of above tasks operation tremendously.
- 13. What type and scale of benefits has your DOT realized from using this technology? Include cost savings, safety improvements, transportation efficiency or effectiveness, environmental benefits, or any other advantages over other existing technologies.

Provide quality traffic data for all types of applications and help the implementation of AASHTO Pavement ME design guide.

14. Please describe the potential extent of implementation in terms of geography, organization type (including other branches of government and private industry) and size, or other relevant factors. How broadly might the technology be deployed?

Prep-ME software and technology can be used by all state highway agencies for the QA/QC of traffic data collected, analysis of truck loading data, and preparation of input for AASHTO Pavement ME software.

		Imination of Technology Ready for Implementation
Market	The TIG selection	15. What actions would another organization need to take to adopt this technology?
Readiness	process will favor	
(30 points)	technologies that can be adopted with a reasonable amount of effort and cost, commensurate with the payoff potential.	Install the software, get the training on how to use it, provide feedback to software developer, and make necessary changes to meet the state's specific needs.  16. What is the estimated cost, effort, and length of time required to deploy the technology in another organization?  \$15,000 per state for implementation for one year that include training and technical support.
		available to assist deployment?  Prep-Me software, user manual, training documents, etc.
		18. What organizations currently supply and provide technical support for the technology?
		Oklahoma State University
		Please describe any legal, environmental, social, intellectual property, or other barriers that might affect ease of implementation.  None
Submit Completed form to		http://transportation1.org/tig_solicitation/Submit.aspx