PERFORMANCE ENGINEERED MIXTURES (PEM) FOR CONCRETE PAVEMENTS

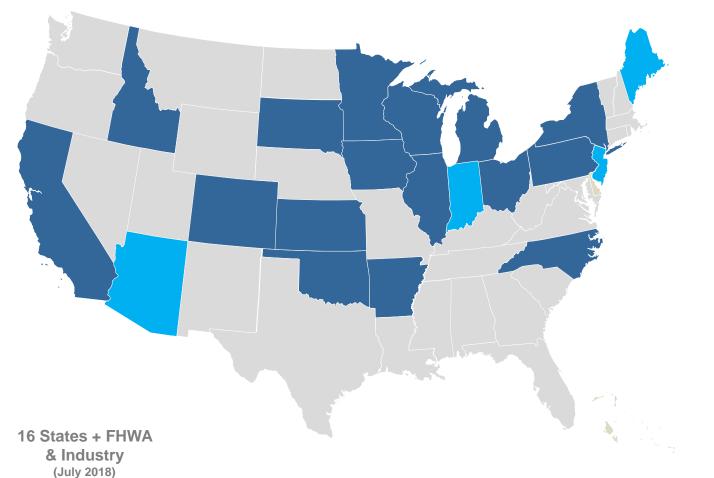
DELIVERING CONCRETE TO SURVIVE THE ENVIRONMENT

National Concrete Pavement Technology Center





PEM Pooled Fund Initiative TPF-5(368)



Delivering concrete to survive the environment

A MODERNIZED SPECIFICATION

- \checkmark Require the things that matter
- \checkmark Measure them at the right time
- ✓ Develop test methods
- ✓ Develop "Guide Specification" (AASHTO's PP-84)
- ✓ Develop tools to proportion mixtures
- Conduct shadow evaluations
- ✓ Later
 - Guide/monitor pilot projects
 - Develop PWL models
 - ➤ Guide in Q/C programs



PROTOCOL FOR PEM SHADOW PROJECTS

- DOT executive briefing
- Specification review
- Workshop for DOT office staff
- Construction, demonstrate tests, collect data, train field staff
- Review data and report findings/recommendations
- Ongoing data collection/shadow testing
- Data processing and storage
- Ongoing specification support
- Quality control plan guidance (w/FHWA)
- See PEM on the cptech.org website



PEM ACTIVITY 2018

- MCL/PEM Open House/Demo in CO (May), MN (July) and IA (August)
- Comparative Testing SD/CP Tech September 2018
- Demo/Open House(s) in PA TBD
- FHWA Incentive Program Participation MN, IA, IL, NC, PA, NY
- PP-84 Guide Specification Update 2019
- Test Refinement/Development
- Equipment Loan Program from FHWA
- Shadow testing and data collection
- Industry Collaboration(ACPA-PCA-NRMCA-SCC)

