

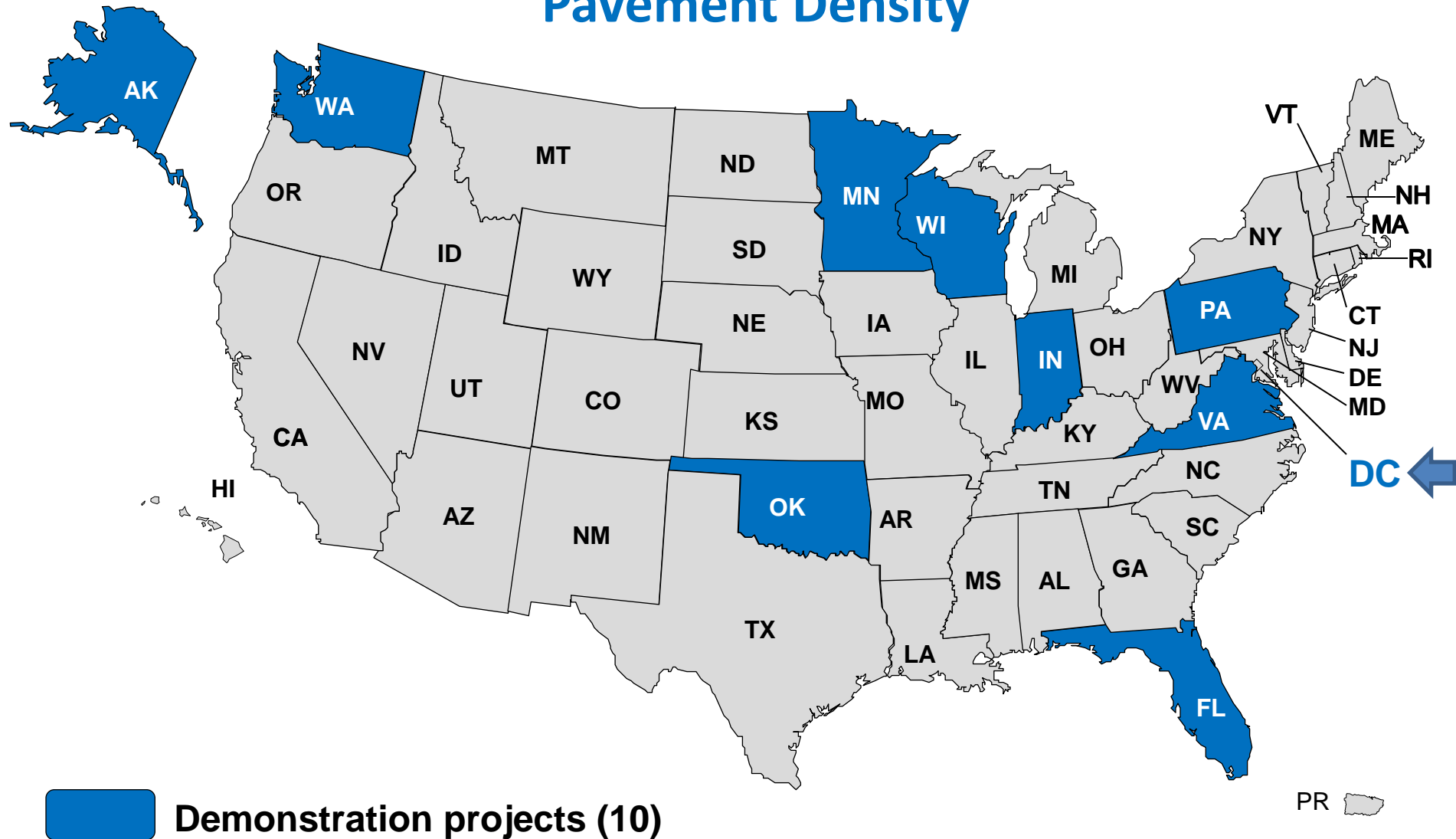


Enhanced Durability Through Increased In-Place Pavement Density

FHWA Asphalt Mixture
Expert Task Group (ETG)
September 15, 2016

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FEDERAL HIGHWAY
ADMINISTRATION

Enhanced Durability of Asphalt Pavements through Increased In-Place Pavement Density



Compaction Workshops

- All 10 workshops now completed
 - From May 12 to July 21, 2016
 - 452 attendees
- Feedback positive:
 - Back to the basics approach
 - Thorough coverage of topics
- May will have a few more workshops in January-March 2017
 - Budget dependent

ENHANCED DURABILITY THROUGH INCREASED IN-PLACE PAVEMENT DENSITY WORKSHOP



Available Dates
Jan – March 2017

LENGTH
1- Day

CEU
Potentially Offered

FEE
FREE

CLASS SIZE: Minimum: 20; Maximum: Room Dependent

DESCRIPTION

The Federal Highway Administration (FHWA) and Asphalt Institute present an *Enhanced Durability through Increased In-Place Pavement Density Workshop*. This one-day workshop offers owners and contractors the opportunity to learn about the dramatic durability increases that can be realized from relatively small increases in in-place densities. This workshop provides the most current information on how to achieve consistently high densities and the resulting economic benefits.



OUTCOMES

At the conclusion of the workshop, participants will be able to:

- Understand the benefits from increasing in-place density.
- Recognize strategies that could be employed by contractors to improve their achievement of density.
- Understand the economic benefits of higher in-place density.

Who Can Benefit?

- *Specification writers*
- *Project inspectors*
- *Contractors*
- *The driving public*

The successful adoption of these improvements will need to be a team effort; therefore both agencies and contractors are the target audience.

TOPICS INCLUDE:

- The Importance of Density
- Influencers on Durability
- Construction Best Practices
- Newer Technologies
 - Intelligent Compaction
 - Pave IR
 - Warm Mix Asphalt
- Tack Coat Best Practices
- Longitudinal Joint Best Practices

For more information about the workshop in your area, please contact:

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Construction Projects Completed

State	Date
Minnesota #1	May 25, 2016
Florida	June 1, 2016
Pennsylvania	June 8, 2016
Wisconsin	July 25, 2016
Washington State	July 25, 2016

Construction Projects Scheduled

State	Date
Alaska	Mid September
District of Columbia	Mid September
Virginia	Mid September
Indiana	Mid October
Oklahoma	End of October

Lessons to Date 5 Projects

- 4 of 5 projects had significant increases
 - 1.0 to .3.0% increase over control
- 1 of 5 projects had slight increase
 - 0.5% increase over control
- Successful approaches
 - 3 projects – additional roller and/or increased passes
 - 1 project - mix design change

Next Steps

- Summary report on 10 projects' construction
 - Potential follow-up on field performance
- Best practices communication
 - Summary document
 - Additional training workshops (funding dependent)
 - Tech Brief
- Potential to extend experiment with more states
 - Dependent of funding (future Coop Agreement)
 - Dependent on state interest

Overall Objective

Ultimately achieving the in-place asphalt pavement density that results in the highest asphalt pavement performance.

Thank You