



U.S. Department of Transportation  
Federal Highway Administration

**IRC**  
Industrial Resources Council


**Federal Highway  
Administration and Industrial  
Resource Council (IRC)  
Sustainable Roadway Materials  
Workshop**



John Sullivan  
FHWA Division Administrator  
North Carolina  
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### Today's Outline

- FHWA & NCDOT Partnership in getting things done
- Purpose of the FHWA/IRC Materials Workshop
- FHWA Sustainability Efforts
- IRC Product Matrix
- IRC Webpage
- Today's IRC Presentations



### Purpose of the Workshop



- To advance the availability and use of multiple recyclable materials
  - Recycled Shingles
  - Scrap Tires
  - Fly Ash for Pavements
  - Recycled Concrete Aggregates
  - Foundry Sands
  - Steel Slags for Bases and Surface Applications

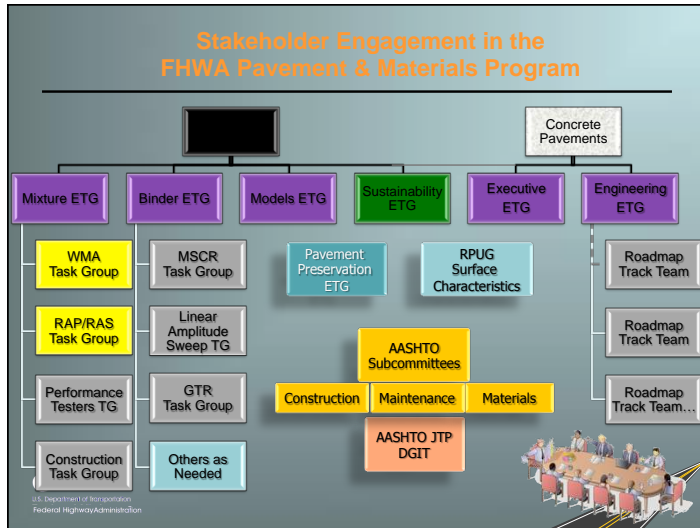


### FHWA Stakeholder Engagement

- Asphalt Mixture and Binder ETGs
  - Warm Mix Asphalt TWG
  - Reclaimed Asphalt Pavement ETG
- Pavement Sustainability TWG
- Concrete Executive & Technical ETGs

**NOTE:** WMA and RAP ETG's folded under the Asphalt Mixture ETG (Sep 2012)





### FHWA Sustainable Pavements Program Goals

- Increase the use of “sustainable” technologies and practices in pavement design, construction, and maintenance
  - 2002 Policy memo “first consideration”
- Increase the body of knowledge regarding “sustainability” aspects of asphalt and concrete materials in pavement design, construction, and maintenance.
- Support the US DOT goals for live ability and sustainable transportation




### Current Program Framework

- Establishment and Coordination of a Sustainable Pavements Technical Working Group (TWG)
- Evaluation and Assessment of Existing Tools
- Development of Reference Documents on Sustainable Pavements and Materials
- Evaluation and Assessment of Sustainable Techniques
- Technology Transfer and Deployment






### ETG Pavement Discussions

- Concrete Strategies for Sustainability
  - Mixture optimization
  - Long-Life Designs
  - RCA, Industrial By-Products, Two-Lift Paving
- Asphalt Strategies for Sustainability
  - WMA
  - RAP, RAS
  - Perpetual Pavement Thickness
  - In-Place Recycling

