

# Sustainability and In-place Recycling – Highways for a Better Future

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# Sustainability

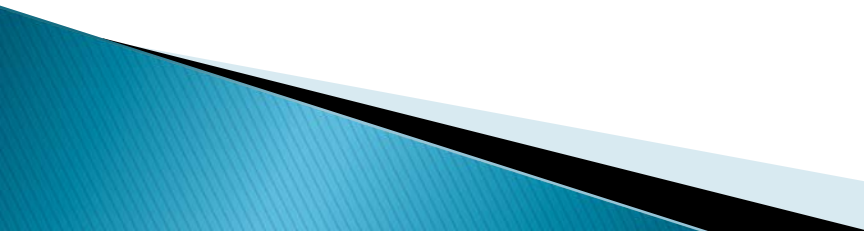
- ▶ Definition:

- Sustainable Transportation means providing exceptional mobility and access in a manner that meets development needs without compromising the quality of life of future generations. A sustainable transportation system is safe, healthy, affordable, renewable, operates fairly and limits emissions and the use of new and nonrenewable resources.

# Sustainability Activities

- ▶ National Initiatives
  - Context Sensitive Solutions
  - Ecological
  - Low Impact Development
  - Green Streets
  - Green Infrastructure
  - Brownfields

# Sustainability and Recycling

- Increasing the use of recycled materials in construction, reconstruction and rehabilitation makes transportation projects more sustainable.
  - Through in-place asphalt recycling, 100% of existing roadway can be reused for the reconstruction or rehabilitation of a highway.
  - This clearly supports the concept of a sustainable highway.
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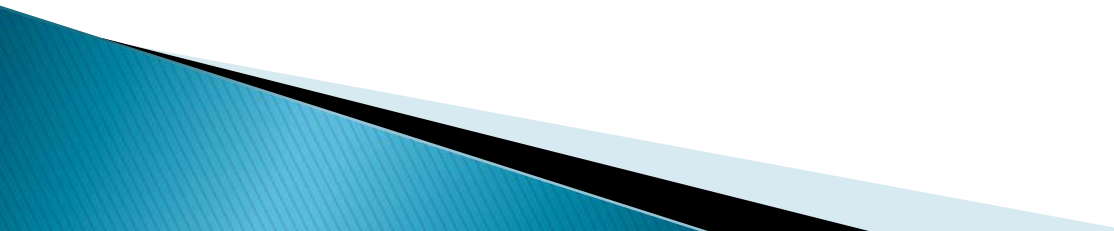
# Sustainability – How It Will Shape the Future Highway Program

- ▶ Increase use of recycled materials
- ▶ Stormwater runoff techniques that mimic natural hydrology
- ▶ Construction equipment that reduces pollution and ion practices that minimize ecosystems impacts
- ▶ Designs to minimize environmental impacts
- ▶ Operational equipment that uses renewable fuels
- ▶ Maintenance that minimizes environmental impacts
- ▶ Conversion of brownfields
- ▶ Designs that accommodate multiple modes and promote connectivity
- ▶ Facilitation of affordable choices for jobs and schools

# FHWA Sustainability Research and Activities

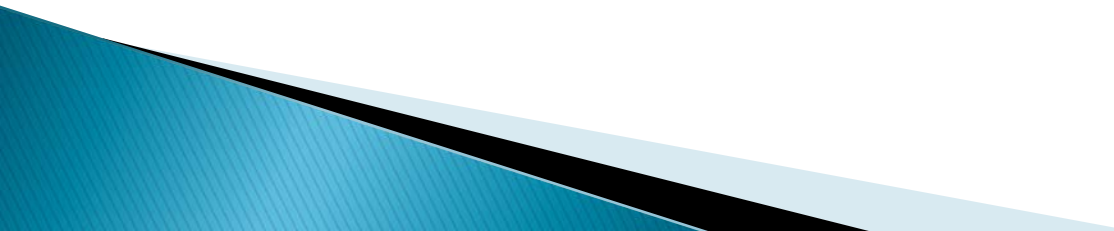
- ▶ Criteria and Tools for Sustainable Highways Research
  - Establish criteria of sustainable highway
  - Develop tool to assist State DOTs in applying criteria
  - Establish method for evaluating progress in applying criteria
  - Measure benefits from a sustainable project

# FHWA Sustainability Research and Activities

- ▶ Sustainability Working Group
    - lead, coordinate, promote, and communicate sustainability activities of the FHWA in a centralized and integrated manner.
    - define sustainability goals and plans for FHWA.
    - recommend and assist with outreach efforts
    - provide input on current and future research activities.
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# Sustainability Research

## ▶ NCHRP Studies

- Providing Effective Transportation in a Sustainable Society
  - Sustainability Performance Measures for State Departments of Transportation and Other Transportation Agencies
  - Sustainable Pavement Maintenance Practices
  - Transportation Corridor Environmental Management Framework
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**Questions?**

