

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

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Sustainability

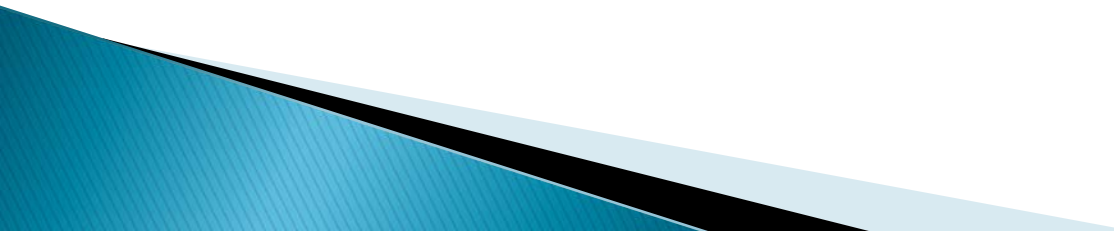
- ▶ Definition:

- 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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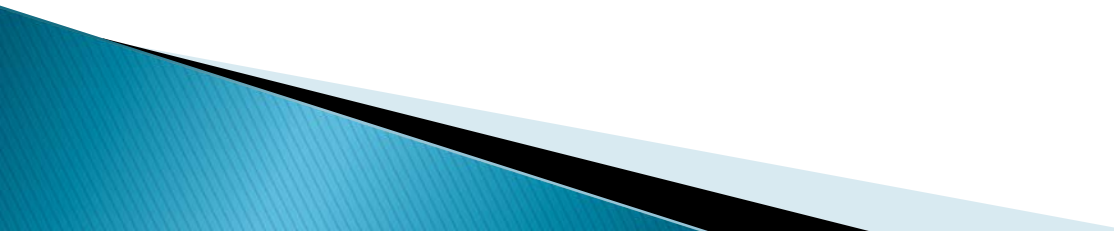
Sustainability – How It Will Shape the Future Highway Program

- ▶ 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
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FHWA Sustainability Research and Activities

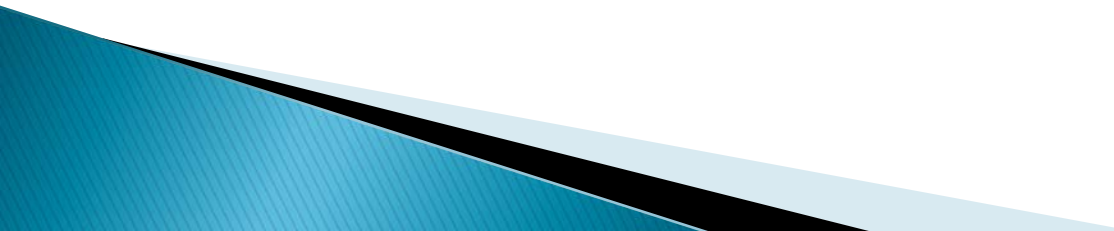
- ▶ Criteria and Tools for Sustainable Highways Research
 - Establish criteria of sustainable highway
 - Develop tool to assist State DOTs in applying criteria
 - Establish method for evaluating progress in applying criteria
 - Measure benefits from a sustainable project

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?

