

RMPPP Sustainability Panel



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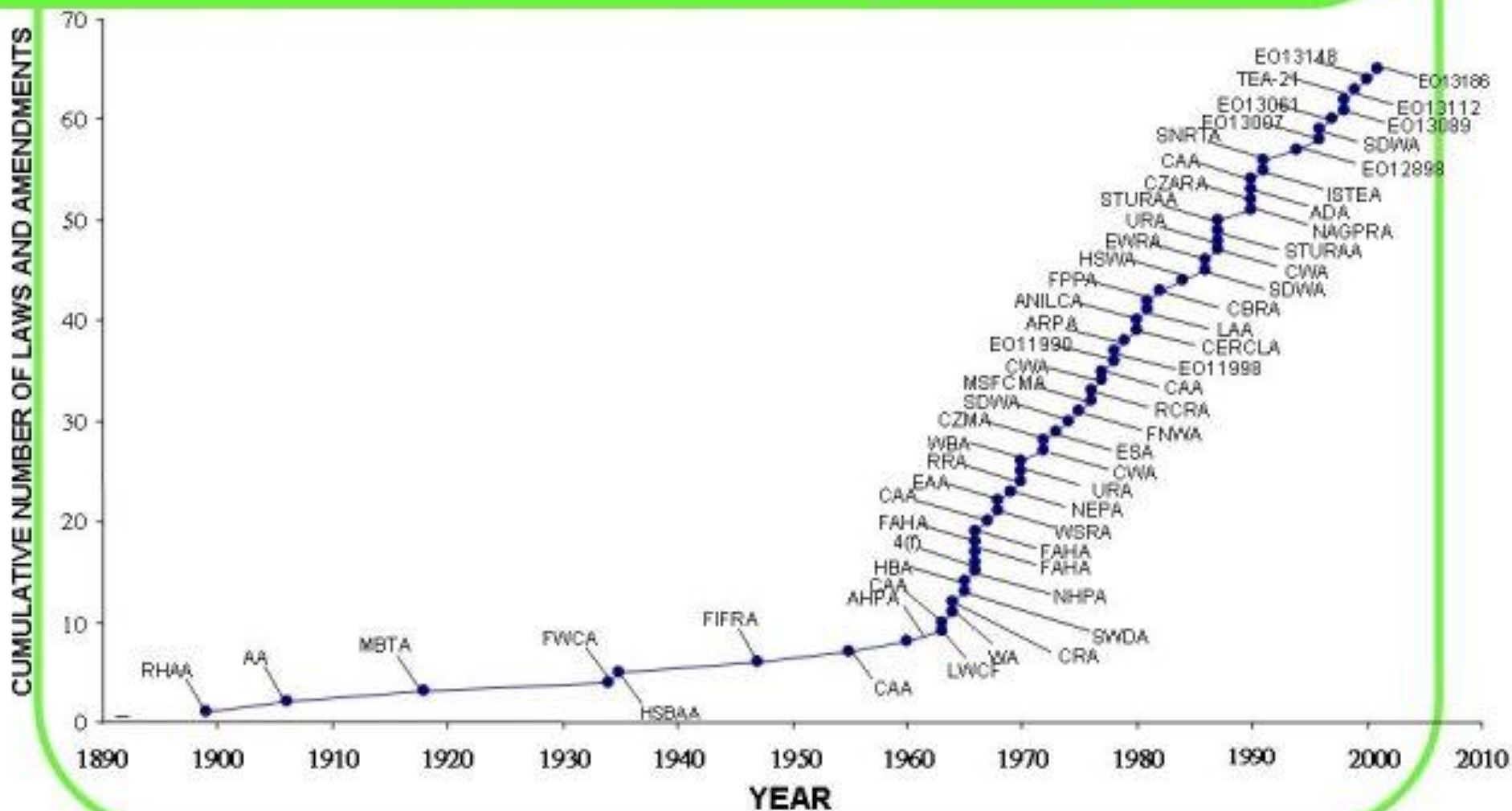
RMPPP Meeting – Salt Lake City, UT

FHWA Supports Pavement Preservation!



Left to right: Associate Administrator for Infrastructure King Gee; Administrator Tom Madison; James B. Sorenson, Highway Engineer; and Executive Director Jeff Paniati.

Federal Environmental Legislation and Executive Orders Affecting Transportation



Prepared by FHWA Office of Natural Environment, May 2001

402 US Regional Kyoto Commitments

2-14-07

Pass your cursor over each state to view a list of participating cities.



935 US Regional Kyoto Commitments

4-3-09 Source: <http://usmayors.org/climateprotection/map.asp>

935 as of 4/3/2009



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FHWA's "3 E's"

● **ENGINEERING**

- Use Good Engineering Design to Assure Long-Life Pavements.

● **ECONOMICS**

- Use Life-Cycle Cost Analysis for Project Selection.

● **ENVIRONMENT**

- Consider Recycling First
- Be Good Stewards of the Environment

Key Points of FHWA Recycling Policy

2-7-2002

- Recycled materials should get first consideration in overall materials selection.
- Recycling (*and Reuse*) can offer engineering, economic and environmental benefits.

Key Points of FHWA Recycling Policy

2-7-2002

- **FHWA recognize the need to increase our highway industry's overall use of recycled materials**
- **Forge partnerships among government, industry, and academia**
- **Continue to strengthen the relationship between FHWA, US EPA, and State DOT/DEQ**
- www.fhwa.dot.gov/legsregs/directives/policy/recmatmemo.htm

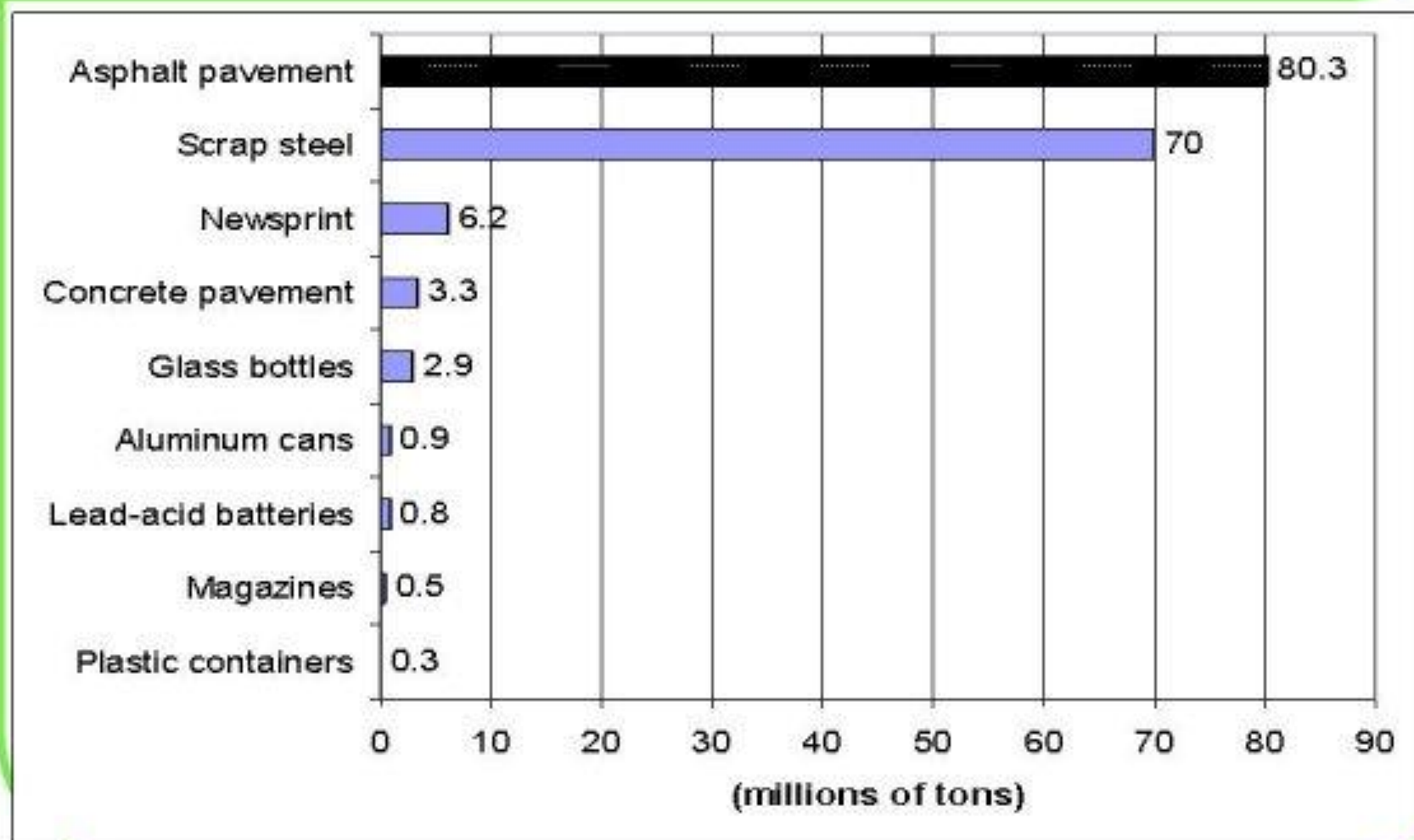
Recycling Applications

- **Reclaimed Asphalt Pavement**
- **Recycled Concrete Aggregate**
- **In-Place Recycling**

Why Recycle?

- **Reduce project costs**
- **Conserve materials**
- **High quality aggregates unavailable**
- **Dwindling landfill space**
- **Increased disposal cost**

Materials Recycling – Tons/Year



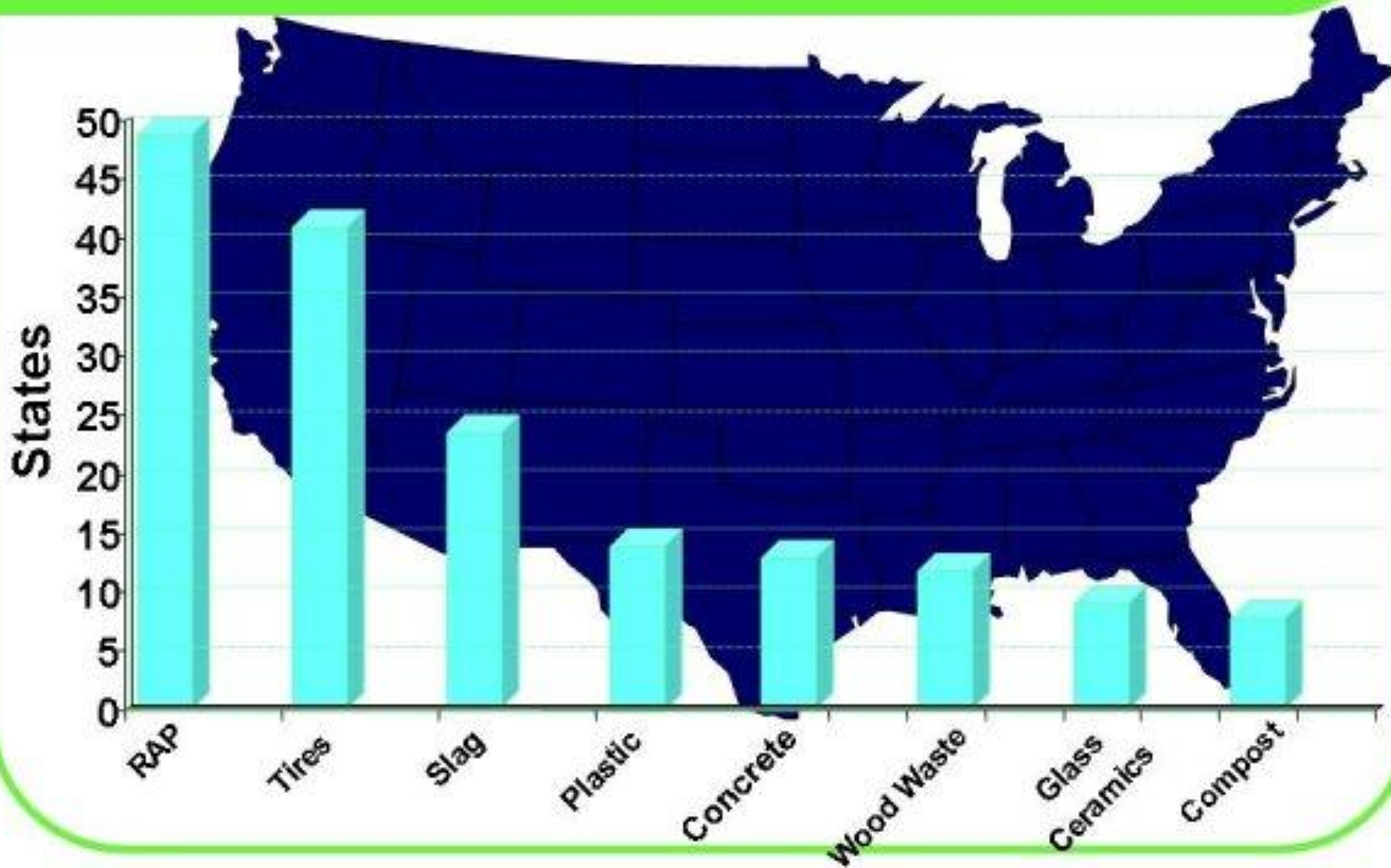
Source: APA

Asphalt Pavement Recycling

The volume of recycled asphalt pavement is....

- **13 TIMES** greater than recycling of newsprint
- **27 TIMES** greater than recycling of glass bottles
- **89 TIMES** greater than recycling of aluminum cans
- **267 TIMES** greater than recycling of plastic containers

States Using Recycled Materials



FHWA Supports Pavement Recycling!



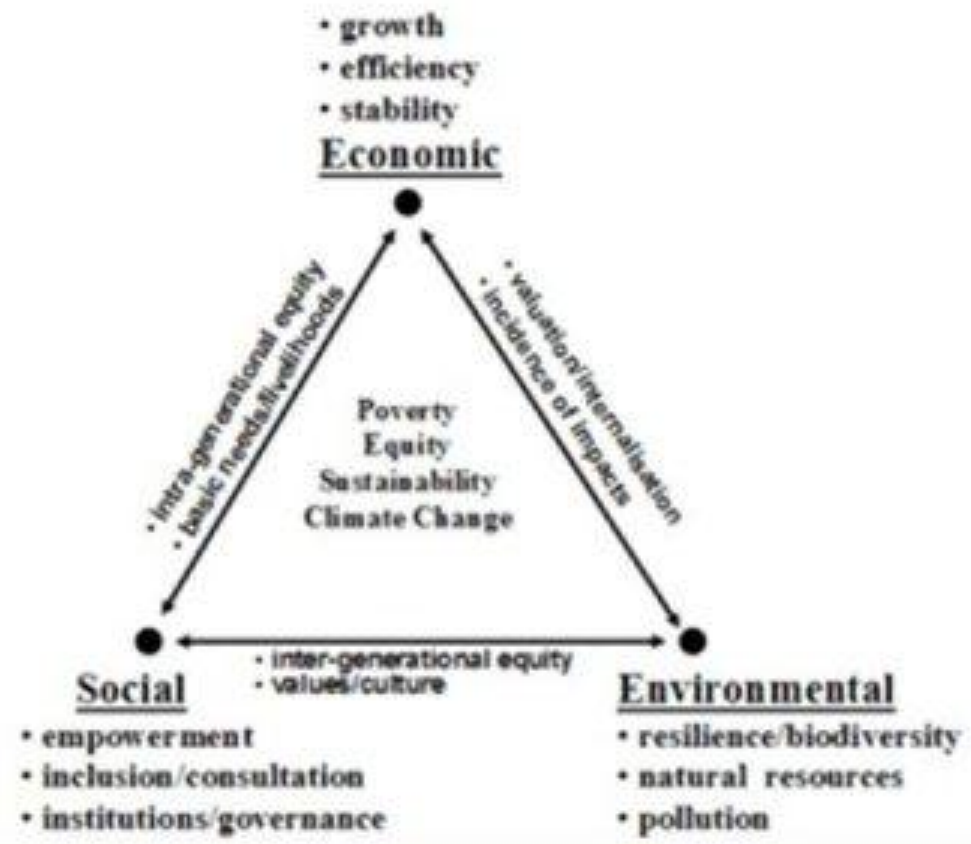
EPA's Sustainability Definition

Sustainability means
“meeting the needs of the
present without compromising
the ability of future generations
to meet their own needs.”

“Sustainable Development Triangle”

http://www.eoearth.org/article/Basic_concepts_and_principles_of_sustainomics

Social, Environmental, Economic



SUSTAINABLE TECHNOLOGIES

- ✓ Reclaimed Asphalt Pavement
- ✓ Recycled Concrete Aggregate
- ✓ In-Place Recycling
- REUSE APPLICATIONS
 - FLY ASH / COAL ASH
 - TIRE RUBBER
 - SHINGLES
 - SLAG
 - FOUNDRY SAND
- Use of Emulsions / Warm-Mix Asphalt

It's Good to be GREEN!

