



DESTINATION SUSTAINABILITY

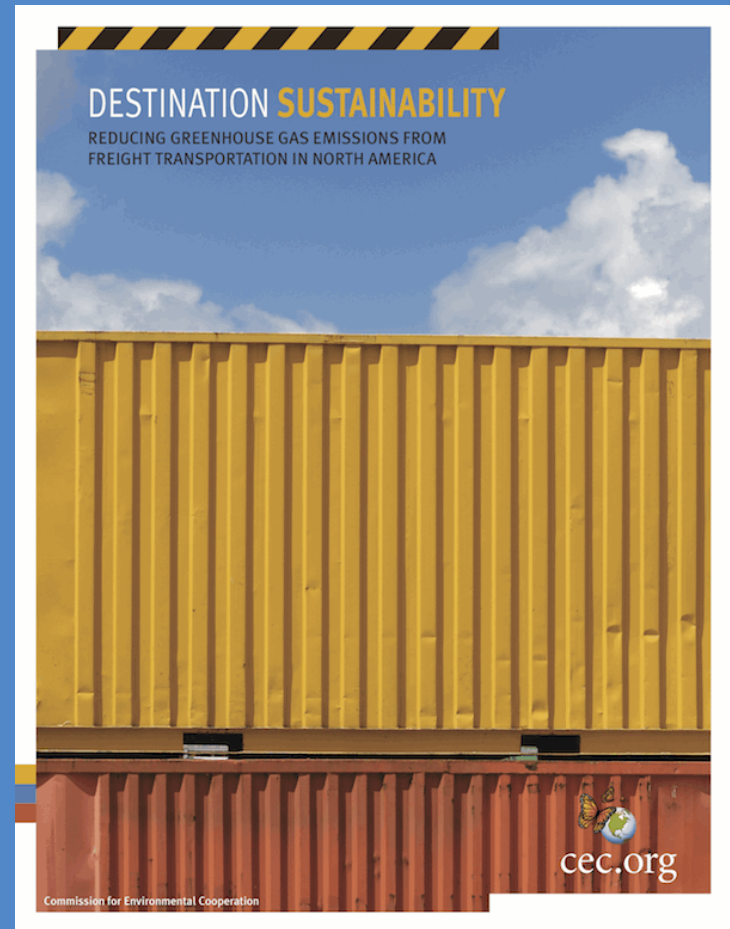
■ SUSTAINABLE FREIGHT TRANSPORTATION IN NORTH AMERICA

**Benjamin Teitelbaum, Program Manager
Commission for Environmental Cooperation
TRB Committee on Transportation and
Sustainability January 23, 2012**

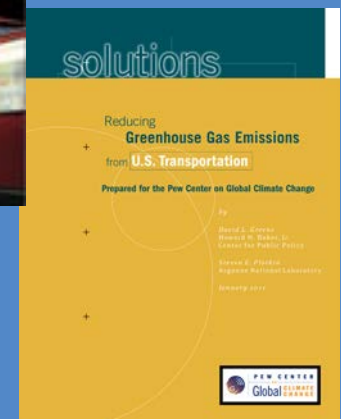
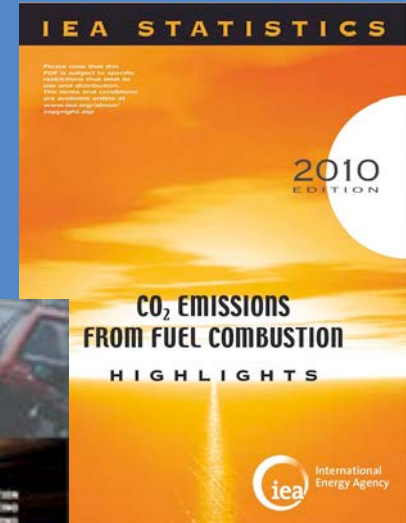
The **Commission for Environmental Cooperation** supports cooperation among the NAFTA partners – Canada, Mexico and the United States – to address environmental issues of continental concern, including the environmental challenges and opportunities presented by continent-wide free trade.

Destination Sustainability is the latest independent report of the CEC Secretariat.

It examines the environmental impact of freight transportation, specifically from road and rail modes



The report draws on research and consultations with a wide-range of organizations, including state and federal agencies.



Advisory Group

Destination Sustainability was developed with the assistance of an advisory group of representatives from transportation industries, nongovernmental organizations, and government agencies.

American Trucking Associations

Cascadia Corridor (Bruce Agnew, Chair)

CEC Joint Public Advisory Committee

Coalition for America's Gateways
and Trade Corridors

Con-way Inc.

Environmental Defense Fund

Federal Highway Administration (US)

FedEx Corp

The Home Depot, Inc.

The Intelligent Transportation Society
of America

Mario Molina Center for Strategic Studies
on Energy and Environment

Mexican Transport Institute

Organisation for Economic Co-operation
and Development

Pollution Probe

Railway Association of Canada

Sierra Club

Transportation Sustainability Research Center
(UC Berkeley)

Transport Canada

University of Winnipeg

US Environmental Protection Agency/
SmartWay

Wal-Mart Mexico



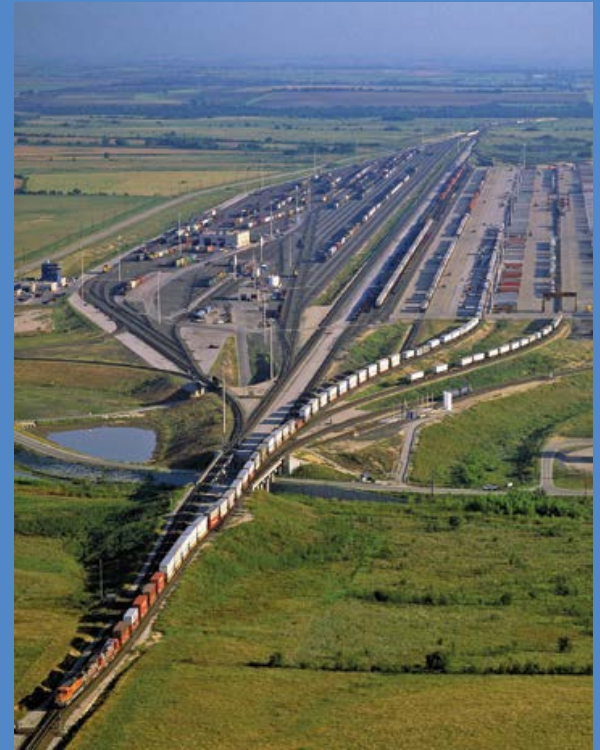
Summary – Conclusion

- **Vision**—of an integrated, intelligent, freight transportation *system* for North America—is #1 requirement.
- The policies, regulations, incentives, investments and technologies necessary to accomplish sustainable freight transportation—across North America—will also make our economies more efficient, competitive, and energy-secure.



Findings: NAFTA Transport - Growth

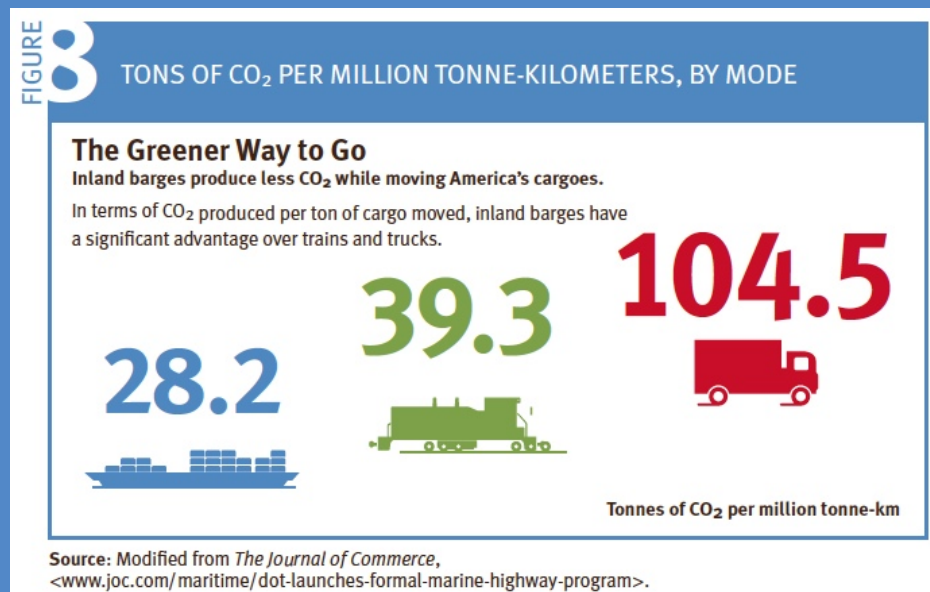
- NAFTA **population** will grow from 460 m to 540 m by 2030 (600 m by 2050).
- North American **economy** will grow by 70-130% between 2005 and 2030.
- US interstate highway **travel demand**, measured in VMT is forecast to increase from 690 billion (2002) to 1.3 trillion by 2026.
- **Additional 1.8 million trucks** on the road by 2020
- **Total freight tonnage is expected to double** from 2002 levels 15,500 MT to 34,000 MT by 2035.



Findings: NAFTA Transport – Modal Share

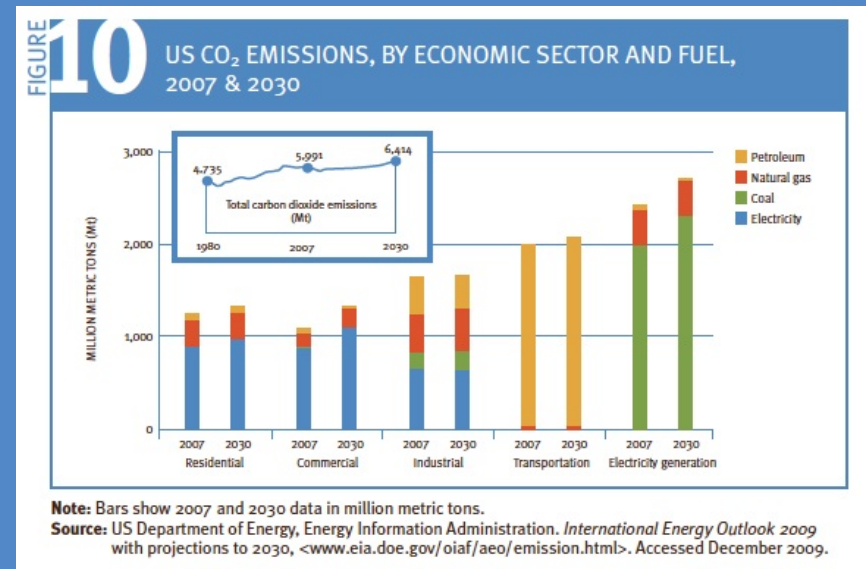
- By value, **88%** of US trade with Canada and Mexico moves on land
- Freight trucks are the **dominant** mode of land transportation among the three countries
- By tonnage (2008):

Pipelines	35%
trucks	33%
Rail	32%



Findings: Trade - Transportation - Climate Change

- The transportation sector in North America is second only to electricity generation in terms of CO₂ emissions produced.
- CO₂ emissions account for 95% or more of all freight-related GHG emissions.
- Freight is the fastest growing source of emissions in the transport sector.
- US freight-related emissions increased by 74% from 1990 to 2008.



Findings: Fuel standards aren't enough

Fuel standards alone cannot solve the problem of growing freight emissions

Projections for the US show little growth for transportation sector emissions: 0.7% to 2030

Modes show *very different rates of growth*

Despite a 42% increase in VMT 2007–2030, light-duty vehicle GHG emissions are projected to *decline* nearly 12% over the period

Freight truck emissions are projected to *increase 20%* over same period



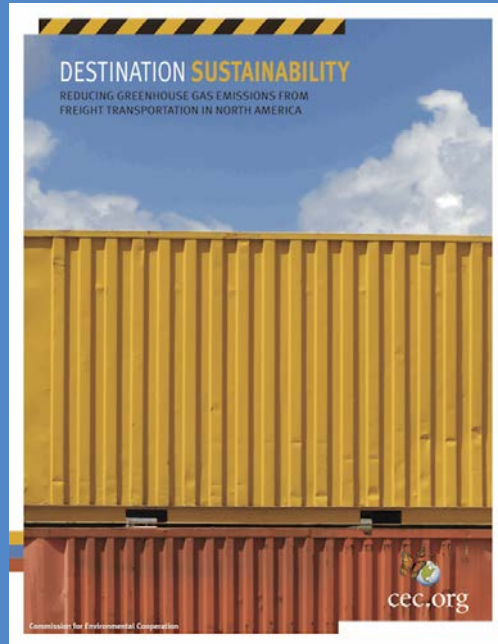
Source US DOT



KEY RECOMMENDATIONS

- 1 Coordination and Networking
- 2 Carbon Pricing and System Efficiency Strategies
- 3 Investments to Improve the Efficiency of the Freight Transportation System
- 4 Supply Chain Management
- 5 Training Eco-drivers
- 6 Gathering and Sharing Data





www.cec.org/freight

