

# Clean, Green and Moving: Borders, Corridors and Gateways

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JOINT PUBLIC ADVISORY COMMITTEE (JAPC) MEETINGS  
XX SESSION OF THE COMMISSION FOR ENVIRONMENTAL  
COOPERATION OF NORTHAMERICA  
Los Cabos, BCS, July 10, 2013



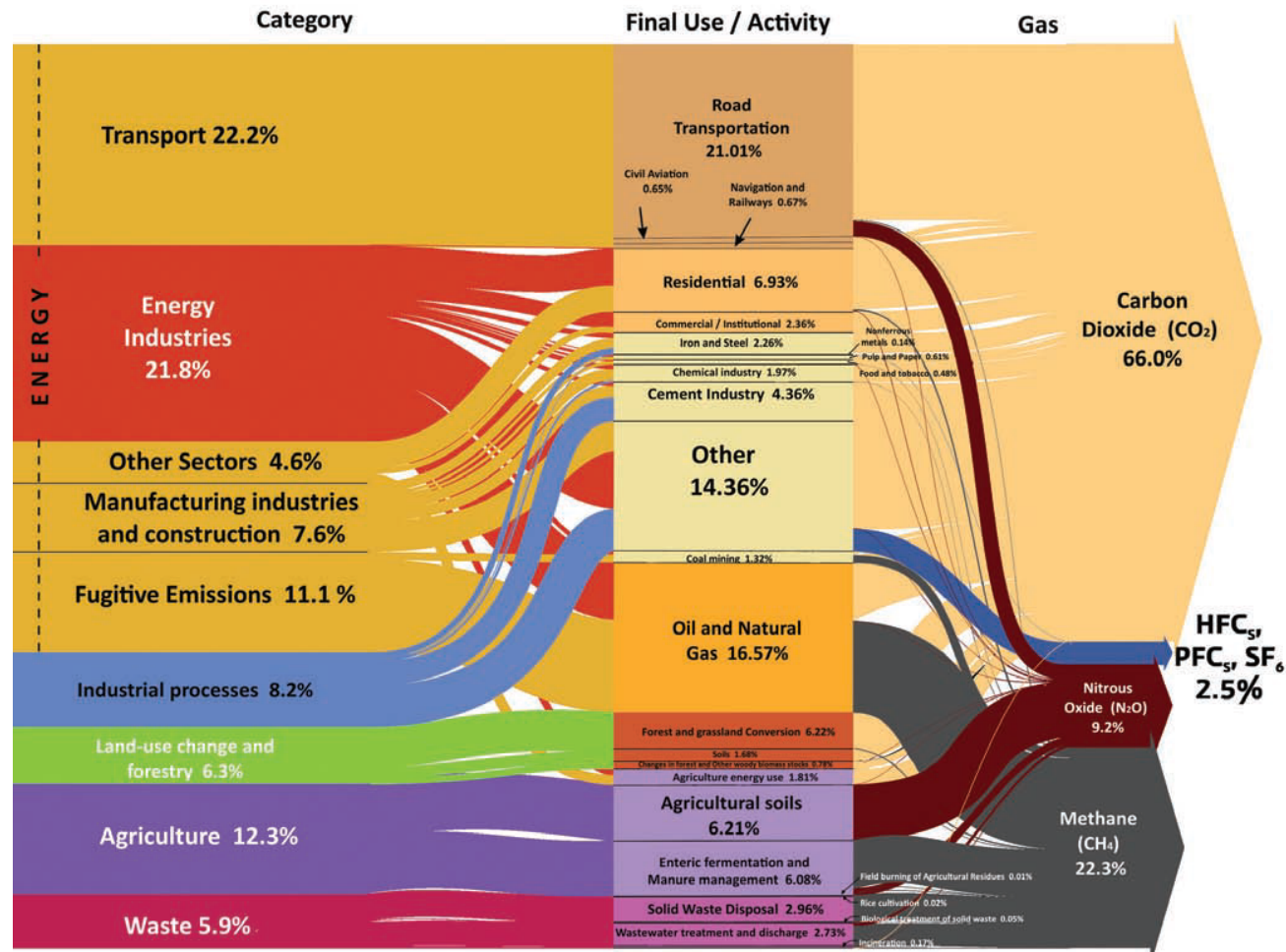
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# National inventory of GEI



Based in methodologies of IPCC, 2006.

# Freight modal split & modal characteristics

Autotransporte	74 %	}	89%	}	83%
Ferrocarril	15%		Land		17%
Marítimo	11%				
Aéreo	<0.4%				



# Modal emissions

las barcasas fluviales llevan mucha ventaja a trenes y camiones.



Toneladas de CO<sub>2</sub> por millón de toneladas-kilómetro





# Transport emissions mitigation in Mexico

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- Energy efficiency standards
- Commercial vehicles Eco-driving
- New infrastructure (*turnpikes*)
- Vehicle renewal/substitution
- Intermodal transport & shortsea shipping
- Urban public transport & bicycling



# Some transborder freight transportation issues

- Only Mexico-Tx Border: 13 bridges
- 3.330 million northbound vehicle crossings in 2011 => congestion
- Challenges
  - Reducing inspection points: - 5% emissions/queue
  - Reducing queue length: - emissions
  - Inspection point unification: - emissions
  - Scheduling system: - emissions
  - Preauthorization of vehicles, operators & cargo: - emissions



# Changes in trade due to near sourcing supply: risks & opportunities

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- Increasing labor costs in China
- Cheaper energy in USA (Shell oil & gas)
- Relocalization in the Americas, including NA
- Opportunity: increase productive investment in Mexico
- Risk: times and costs of border crossings outsetting labour costs advantages





# Main Road Network & Transport Corridors



## **Mexican corridors:**

México-Nuevo Laredo-Ldo

México-Cd. Juárez-El Paso

México-Nogales-Nogales

## Mexican intermodal corridors

Manzanillo-Guadalajara-

Laredo/Cd. Juárez

Lázaro Cárdenas-Nvo. Laredo

Veracruz-México

## Other main commercial ports

Tampico-Altamira, Tams.

Progreso, Yucatán

Ensenada, BC

Guaymas, Son.

Mapa elaborado por la CCA con datos de: TTI, *Greening North American Transportation Corridors: Challenges and Opportunities*, Instituto de Transporte de Texas Transportation Institute, TTI) y Texas A&M University, mayo de 2010.

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Gracias por su amable atención

Thanks for your kind attention

Merci de votre aimable attention

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