

# Reducing health and environmental impacts of urban transportation

*Kate Blumberg*

Commission for  
Environmental Cooperation  
Los Cabos, Mexico

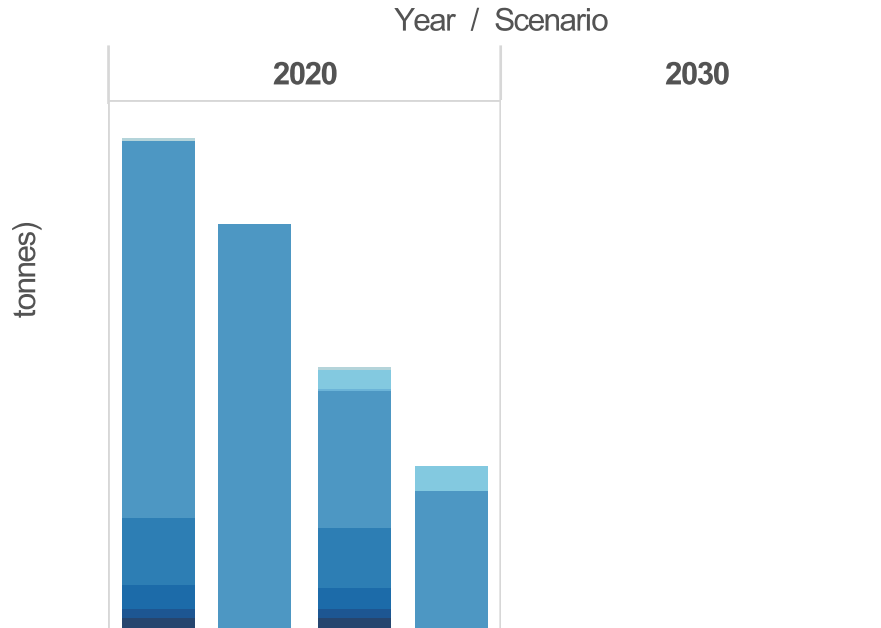


# Options to reduce urban transport emissions

Objective	Program	Form	PM	BC	CO <sub>2</sub>
Prevent gross emitters	I/M, remote sensing, spotter programs	Mandatory; generally local	✓	✓	✓
Accelerate fleet renovation	Scrappage	Voluntary or mandatory; local or federal; fiscal incentives	✓	✓	
Reduce emissions from existing vehicles	Lower sulfur fuels	Government implemented; generally federal	✓		
	Retrofits for PM and NOx control	Generally voluntary; local; fiscal incentives	✓	✓	
	Transporte Limpio/ SmartWay	Generally voluntary; federal and local collaboration; fiscal incentives	✓	✓	✓
Complementary measures	Low Emission Zones	Mandatory; local	✓	✓	
	Anti-idling restrictions	Mandatory; local	✓	✓	✓
	Driver training program	Voluntary; local			✓
Demand and mode shifting	Congestion relief measures	Range from mandatory to voluntary to government-implemented; local	✓	✓	✓
	Improve non-motorized & public transit options	Government-implemented; local	✓	✓	✓
	Parking programs	Mandatory or fee-based; local			✓

# Local programs need federal support

---



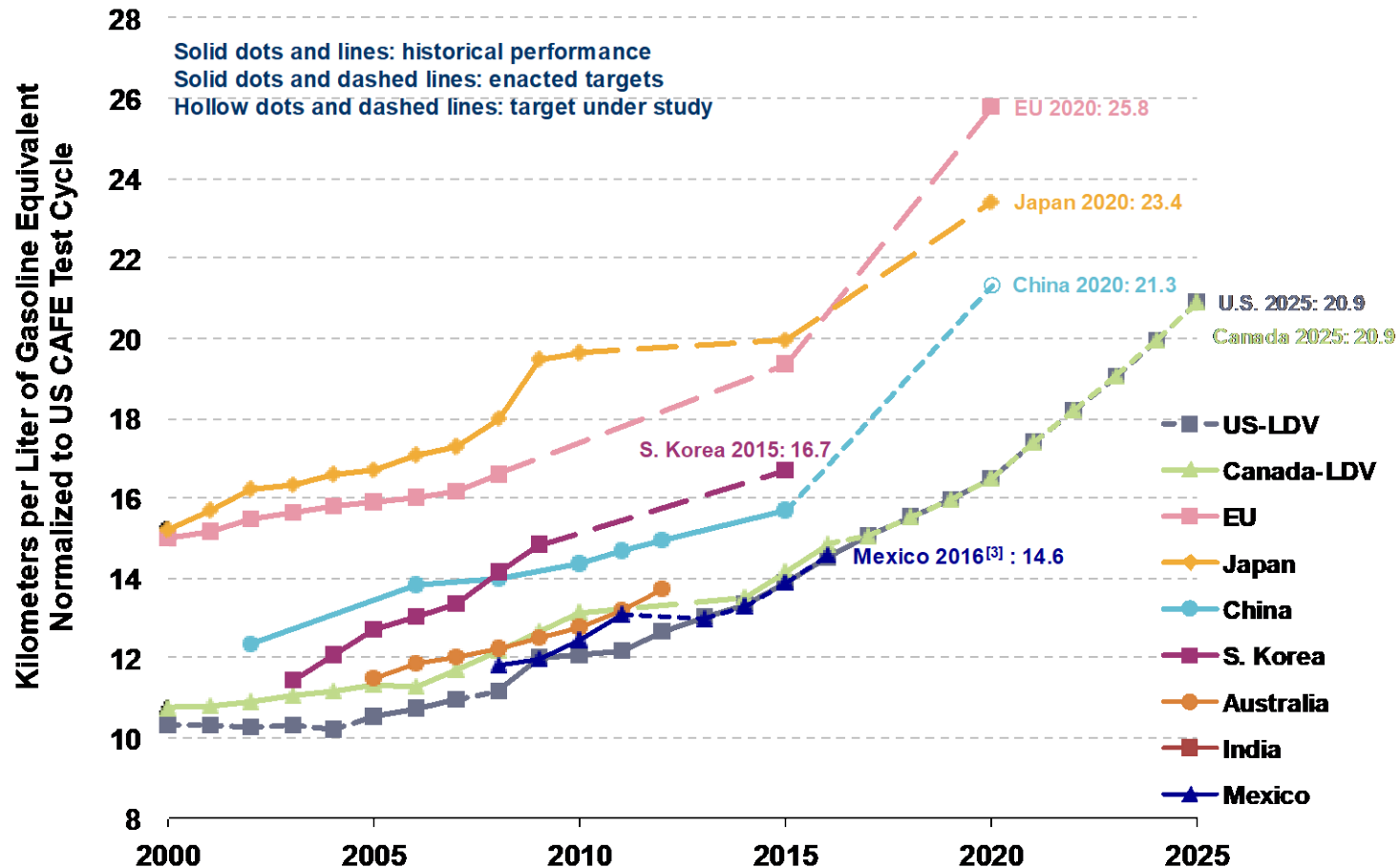
# Reducing health and environmental impacts

---



- Clean fuels
- Clean new vehicle standards
- Programs to clean up existing fleet
  - Inspection and maintenance
  - Fleet renovation/scrappage
  - Retrofit (fuel economy and pollutants)
  - Low emission zones
- Programs to reduce vehicle use or shift to cleaner modes
  - Anti-idling laws
  - Improved non-motorized and public transit infrastructure
  - Parking or congestion pricing
  - Freight optimization

# Opportunities for further harmonization in North America



[1] China's target reflects gasoline vehicles only. The target may be higher after new energy vehicles are considered.  
 [2] US, Canada, and Mexico light-duty vehicles include light-commercial vehicles.  
 [3] Mexico standard considers all credits taken into account with exception of the early action credits for MYs 2012 and 2013.