

# Key Successes and Opportunities *EPA Perspective*

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Northeast Diesel Collaborative 2015 Partners Meeting



# Overview

- Successes – Regulatory and Partnership Programs
- EPA's Ports Initiative
- Non-regulatory efforts including the National Clean Diesel Campaign
  - DERA
  - SmartWay
- Challenge to NEDC Partners

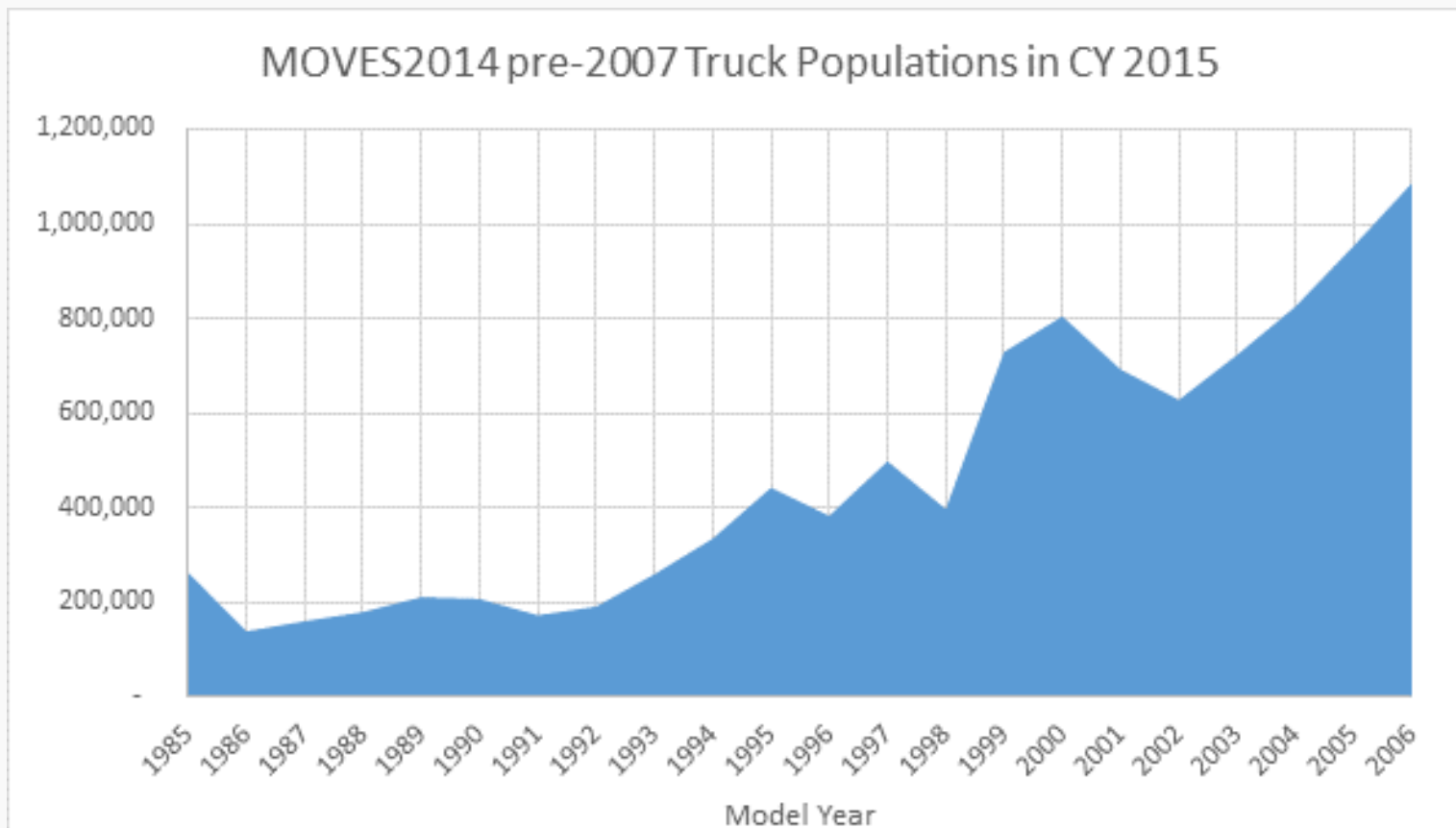
# **New standards – 2010 and later**

- Mobile source rules – broad list of actions
  - 2010 HD Diesel program
  - 2012-2015 LD GHG national programs
  - Phase 1 HD GHG and proposed phase 2 program
  - Phase-ins of nonroad, locomotive, marine rules
  - Tier 3 program



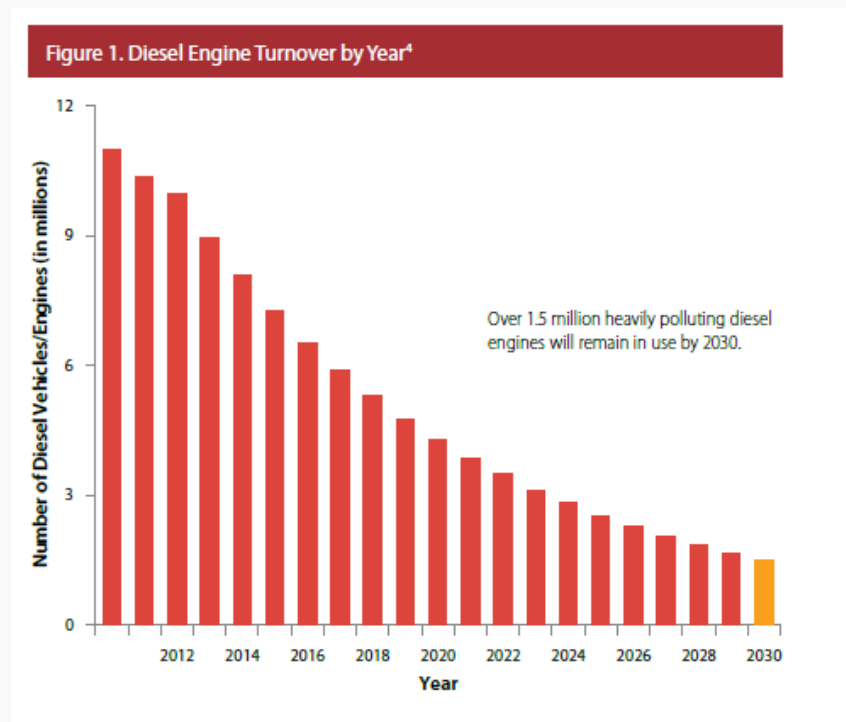
## But Large Legacy Fleet Remains

Nearly 11 million legacy diesel vehicles still in use



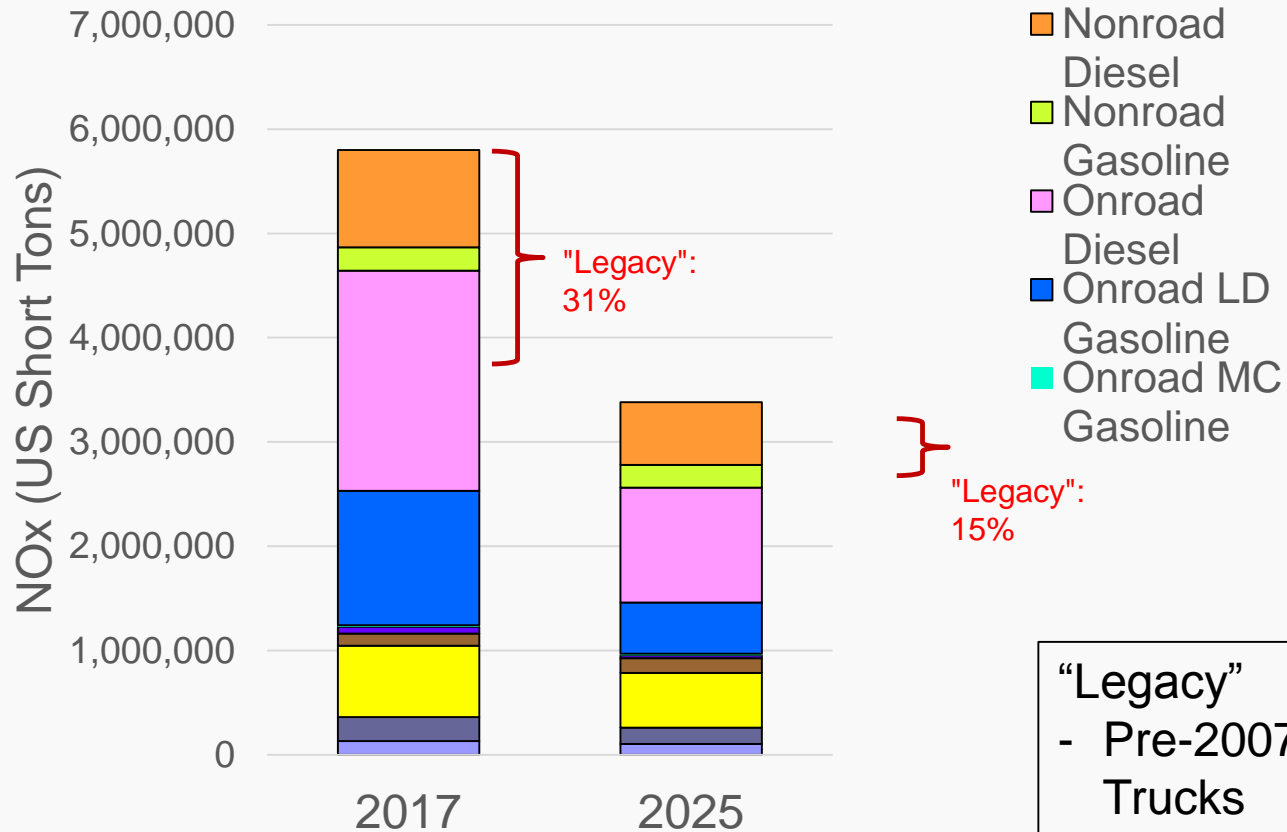


And in 2030 1.5 million legacy engines will still be in use





# NOx - Mobile Sources

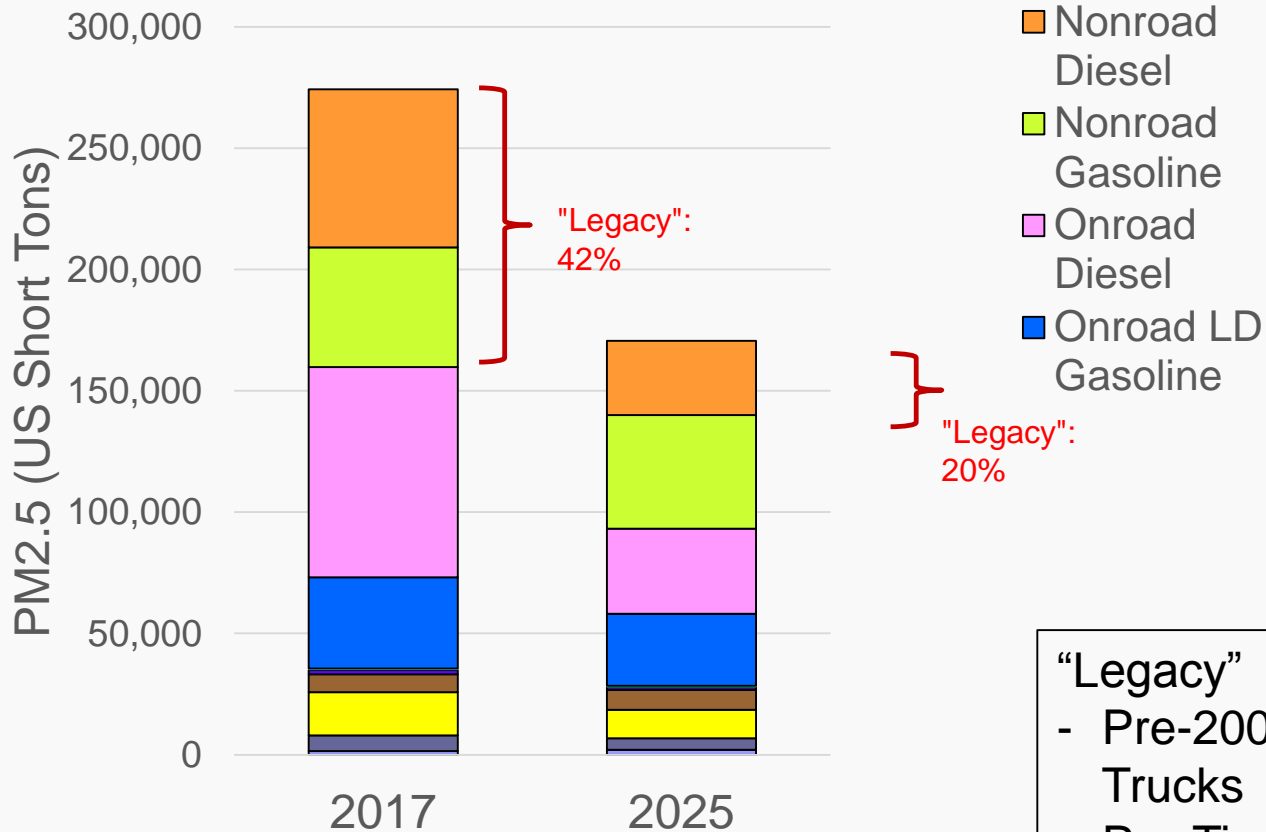


“Legacy”

- Pre-2007 HDD Trucks
- Pre-Tier 4 Nonroad CI

Draft and Deliberative – Do Not Cite or Quote

# Direct PM2.5 - Mobile Sources

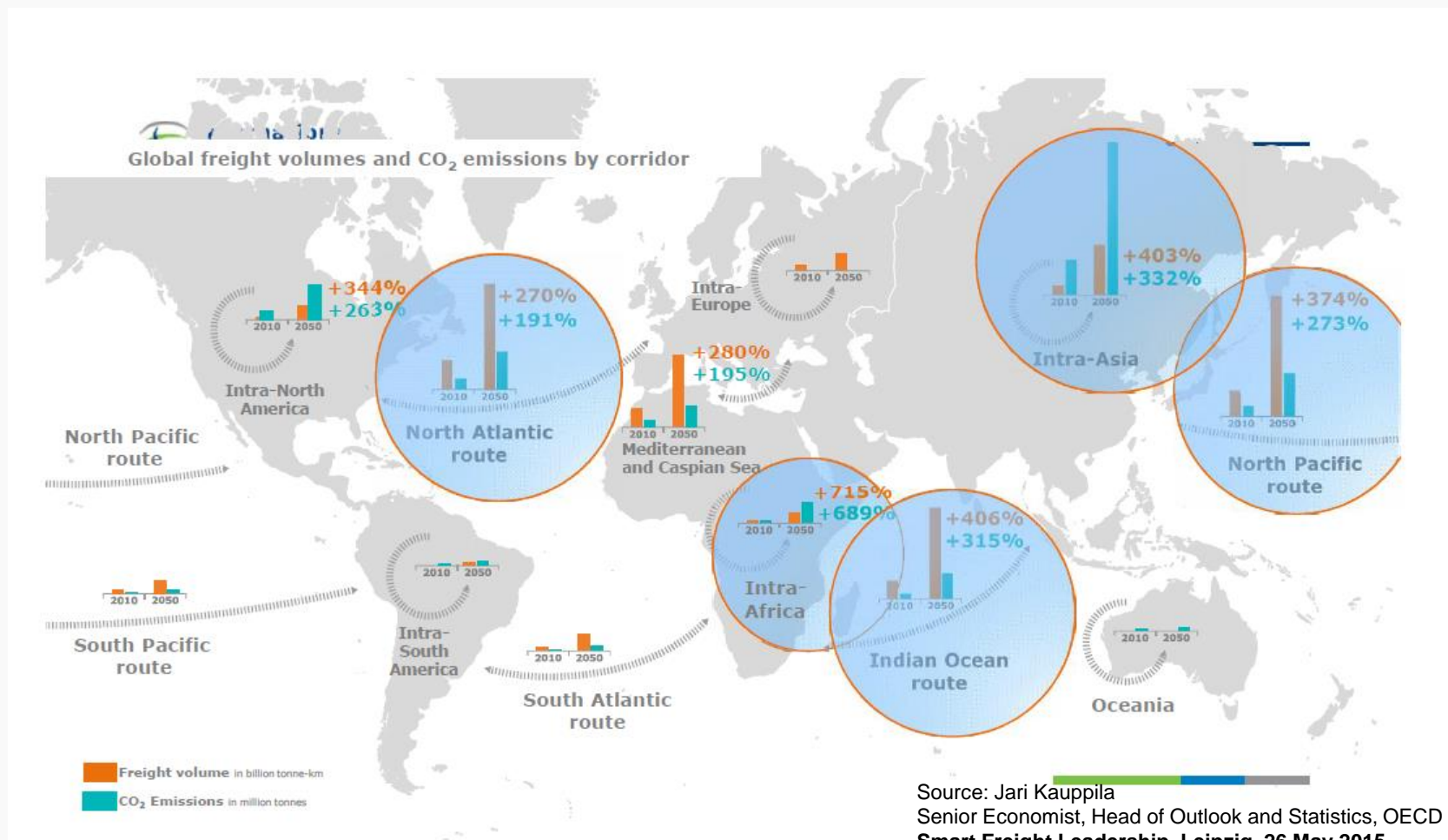


“Legacy”

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# Global freight will more than quadruple by 2050







# Great Progress through Partnership Programs like Clean School Bus Program



Stretch Goal: *Every child in the country attending public school gets there on a clean school bus*



## **We've Made Significant Progress - *Our Actions Make a Difference!***

- Studies show improved Air Quality = improved child lung function
  - More dramatic improvements seen in kids with more severe asthma
- School bus retrofits estimated to have decreased school absenteeism in the U.S. by **more than 14 million/year**





## National Ports Initiative Areas of Focus

Remove Barriers  
to Technology  
Development  
and Application

Data: Emissions  
Inventories,  
Tools & Metrics

Create a Bridge  
to EPA/Federal  
Partners

Develop  
Strategies for  
Community–Port  
Engagement

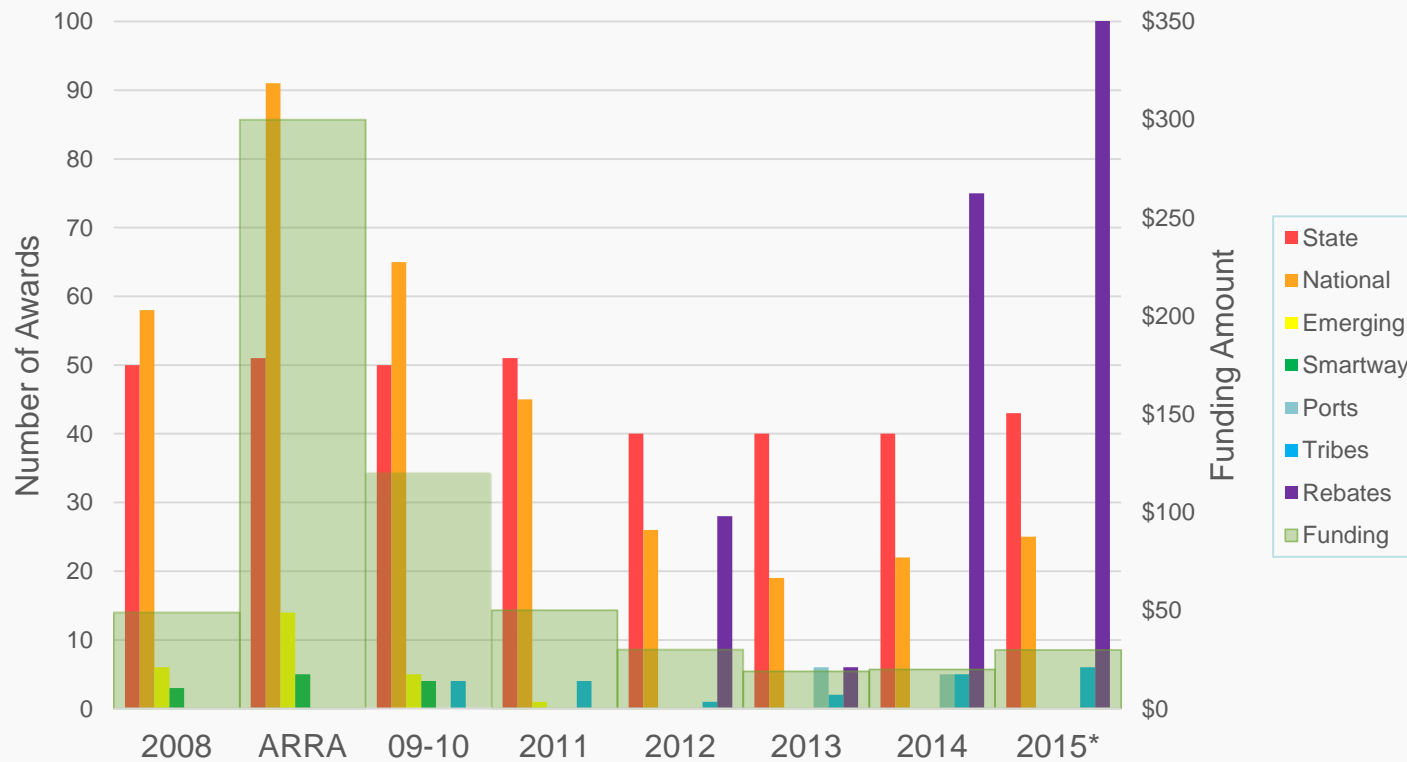


## Progress through MSTRS Ports Workgroup Continues

- Program Framework & Elements subgroup formed at May 2015 Workgroup Meeting
- Community Capacity Building component advances with key products
  - Ports 101 Primer and Community Action Roadmap
- On track for productive workgroup meeting at the end of the month, recommendations to full MSTRS in early December



DERA Funding Amount and Number/Types of Awards by Fiscal Year



\*estimates



# 2015 DERA

## State Program Grants

- \$7.4 M
- Awards final Oct, 2015
- 43 States and Territories participating

## National Grants

- ~\$17M to be awarded
- Awards final Sept-Dec, 2015
- 25 awards to be made
- Emphasis on ports and communities

## Tribal Grants

- ~ \$1M to be awarded
- Awards final Oct-Dec, 2015

## School Bus Rebates

- ~ \$7M total
- Program Rollout Announced Sept 2015
- Will close Oct 30<sup>th</sup>
- Encourage fleets to apply



# DERA 2016 and Beyond

## FY 2016...

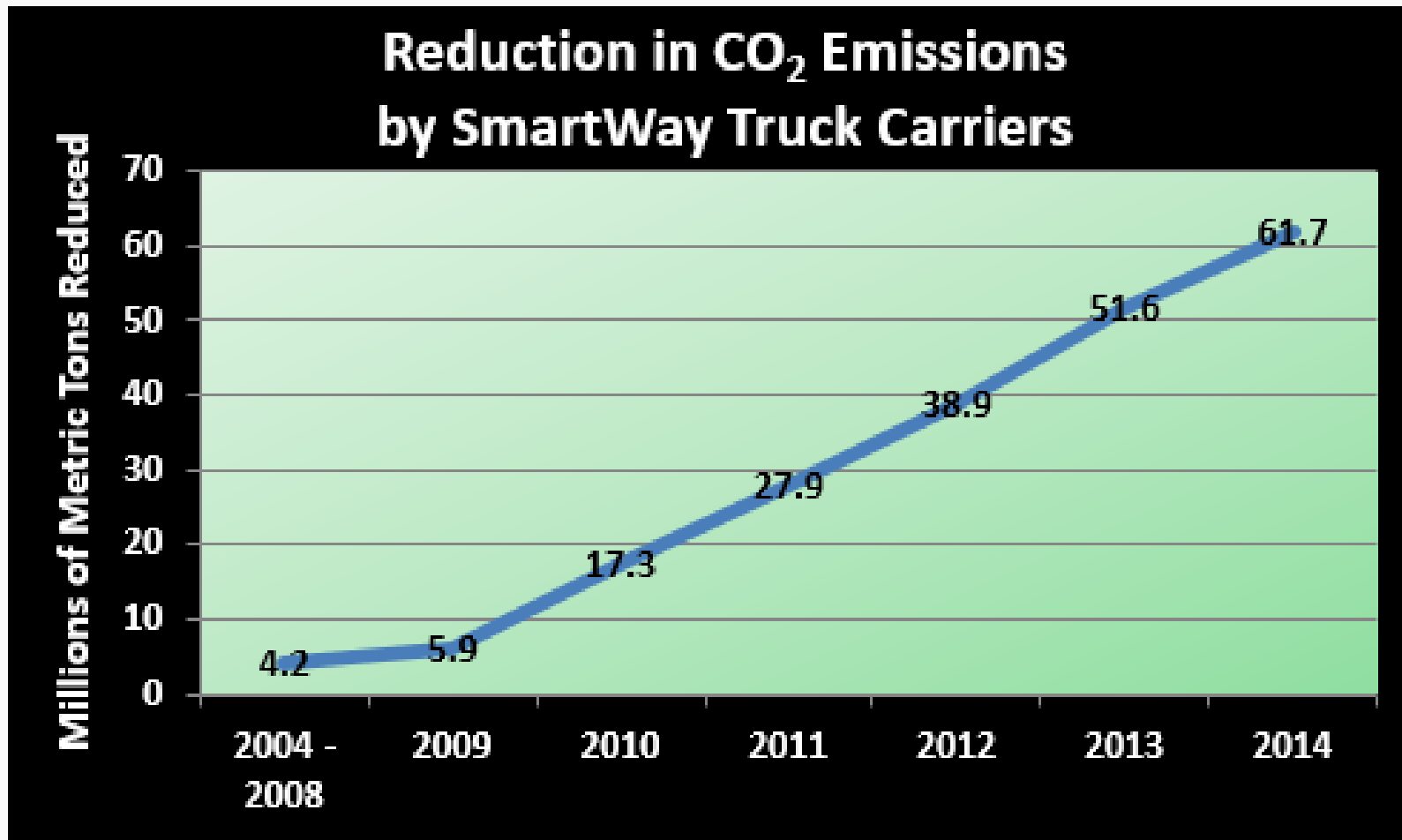
- OMB Passback to EPA: \$10 million
- House/Senate: \$30-\$50 million
- Year-long Continuing Resolution: \$30 million

## DERA Authorization

- Current Authorization is for FYs 2012 - 2016
- Appears to be lots of support for program to continue



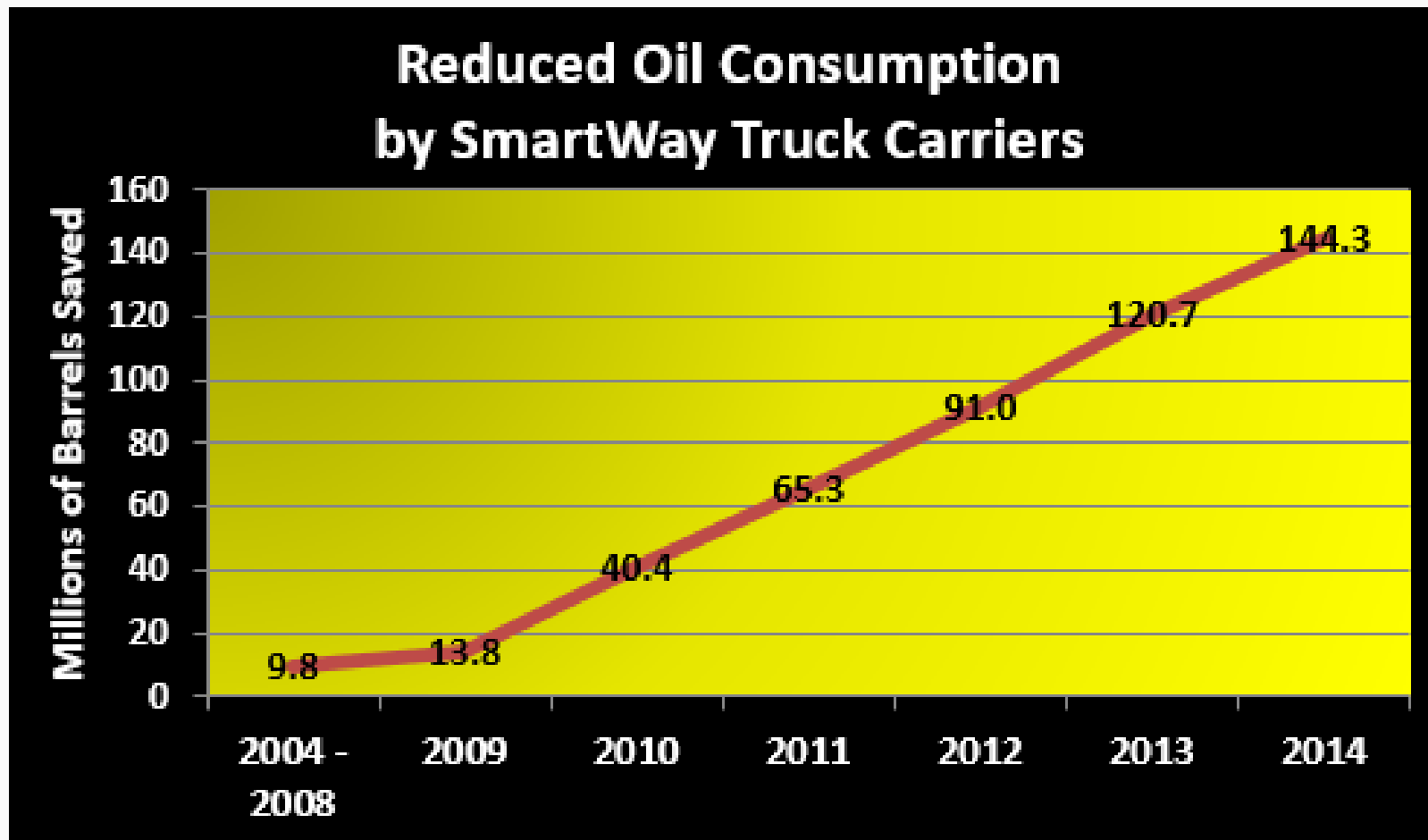
# A Decade of Results from 3,000 Partners







# Contributing to Clean Energy Future





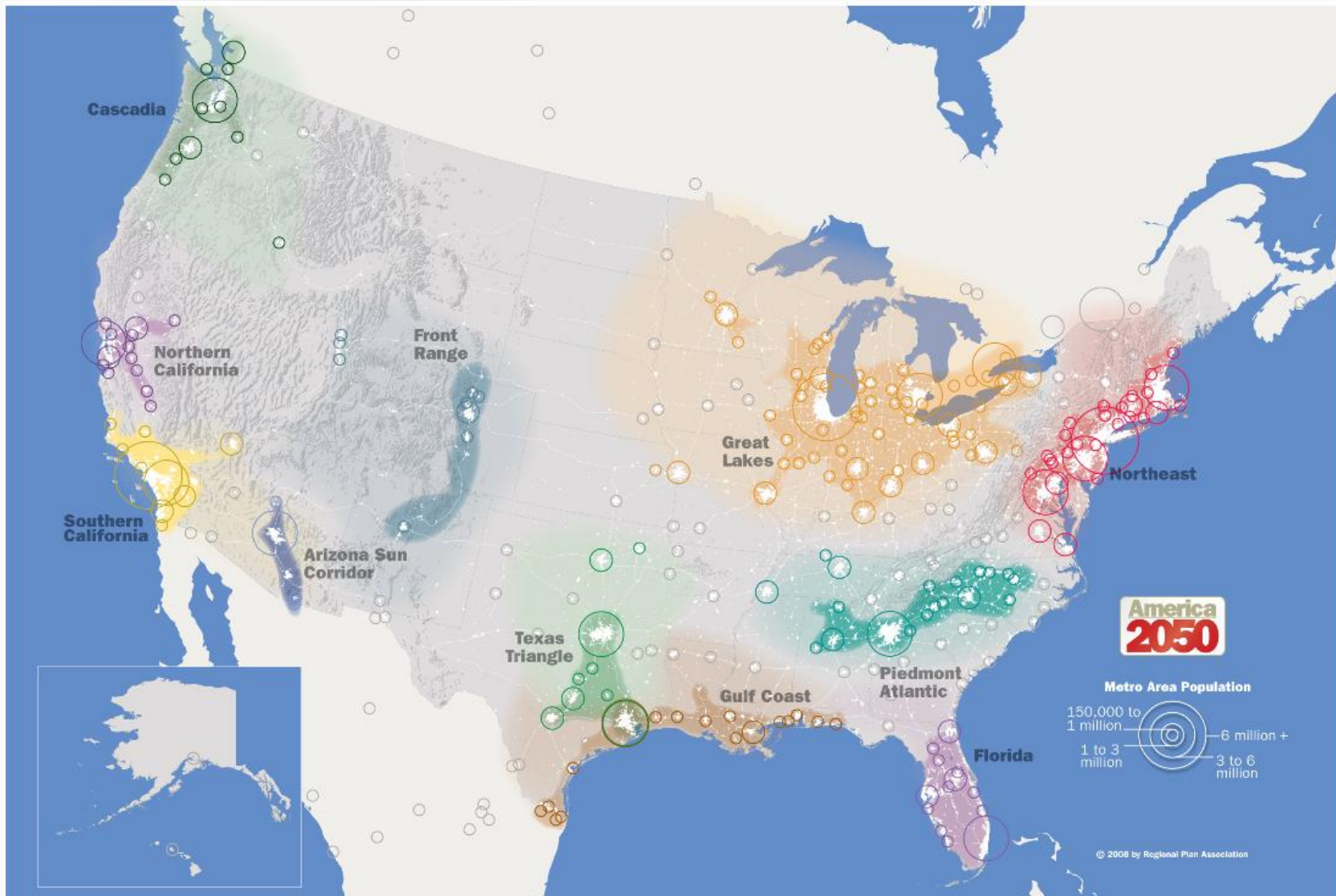
# SmartWay's Place-based Focus

- SmartWay Affiliate program invites NGOs, communities and states to participate
- Working to strengthen ties with EPA regional offices
  - Implementing more regional-specific workshops, projects
- Innovative pilot underway for Ozone Transport Region
  - Goal: identify opportunities for additional NO<sub>x</sub> reductions
  - Precedent in collaborations with other regions that use SmartWay to achieve both climate and criteria benefits
- Interesting factoid: Most SmartWay carrier partners are smaller fleets (<100 trucks)
  - Impacts & improvements largely felt within the communities they serve



# EPA Global Leadership *via* SmartWay

- US leadership in GHG regulation drew upon our SmartWay experience
- President's recent EO on sustainability cites SmartWay
- Expanded into Canada 2012 - one seamless program
- Serves as model for UN green freight program to reduce short-lived climate forcers (e.g., BC)
  - Supporting and informing efforts in China and other Asian nations, Mexico, South America, and EU
  - SmartWay training workbooks translated into 5 languages
- Informing collaborations like Global Emissions Logistics Council (GLEC) and global freight analyses



# Transportation Trends

- Ford Mega trends
  - Urbanization, growing populations in urban environments, and congestion
  - Rapid growth of global middle class
  - Issues of air quality and related health risks from congestion
  - Changing consumer attitudes and priorities
  - Climate change and resource constraints
    - Source: Ford 2014/15 Sustainability Report
- Honda
  - Toward the future of mobility
    - Making H2-based society a reality
    - Automated driving opens up a new future
      - Source: 2015 Sustainability report
- Goldman Sachs: Auto Industry Mega trends
  - Electric revolution
  - Weight reduction
  - Autonomous cars
  - Mega suppliers
  - New entrants (tech-based)
  - Connectivity
  - Emerging markets
    - Source: 2015 Goldman Sachs analysis

# Why is it important to continue the work of NEDC?

- Collaborative partners have the know-how to get things done!
- Don't be afraid to think in new ways and try new ideas – they're essential to progress!



INNOVATION  
SUCCESS  
EVALUATION  
DEVELOPMENT  
GROWTH  
SOLUTION  
PROGRESS  
MARKETING