

# ***NATIONAL CLEAN DIESEL CAMPAIGN DERA AND FREIGHT***

**Alison Riley , U.S. EPA, Region 3**

**Northern Transportation & Air  
Quality Summit**

**August 30, 2016**

# ***DIESEL EMISSIONS REDUCTION ACT (DERA)***

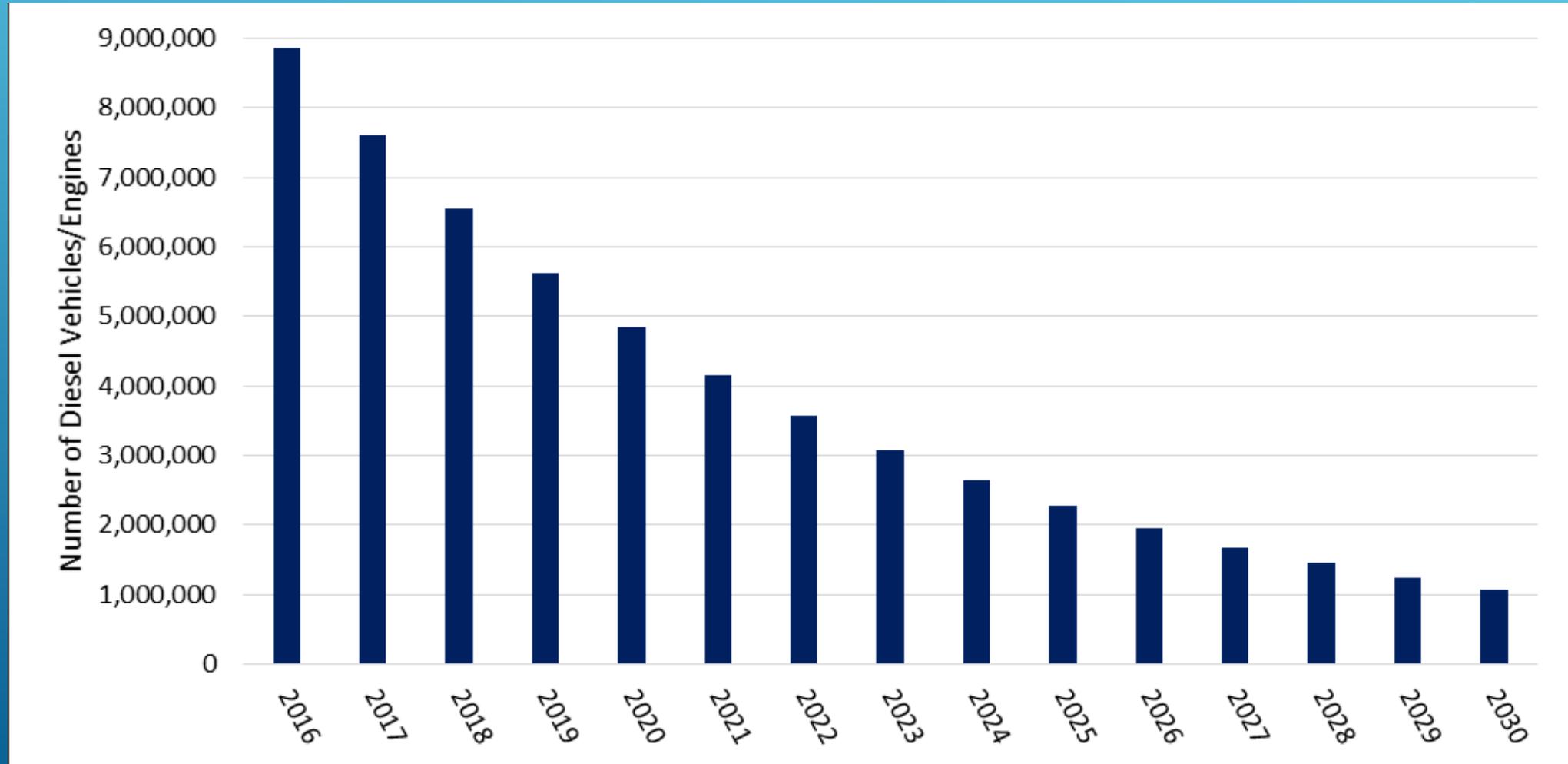
- Included in the Energy Policy Act of 2005
- Funds appropriated every year since 2008
- Reauthorized in 2011
- Authorizes up to \$100 million per year to replace and upgrade heavy duty diesel equipment, e.g.:
  - Vehicle Replacements
  - Repowers (replacements of engine only)
  - Retrofits (after-treatment devices to reduce tailpipe emissions)
  - Anti-idling technology
  - Engine Upgrades
  - Clean Fuels (NO stand alone)
    - Aerodynamic/Low Rolling Resistance technology
- On-road, non-road, marine, locomotive

# ***3<sup>RD</sup> DIESEL REPORT TO CONGRESS (FEB 2016)***

- 2009-2013, including ARRA
- Highlights from the Diesel Emission Reduction Program
  - Reduced 335,200 tons of NOx
  - Reduced 14,700 tons of PM
  - Saved 450 million gallons of fuel
  - Prevented 4.8 million tons of CO2 emissions – equivalent to the annual CO2 emissions from more than 900,000 cars
  - Clean diesel funding generates up to \$13 of public health benefit for every \$1 spent on diesel projects

▶ <https://www.epa.gov/cleandiesel/reports-congress>

# *HEAVY POLLUTING DIESEL ENGINE TURNOVER BY YEAR IN THE U.S.*



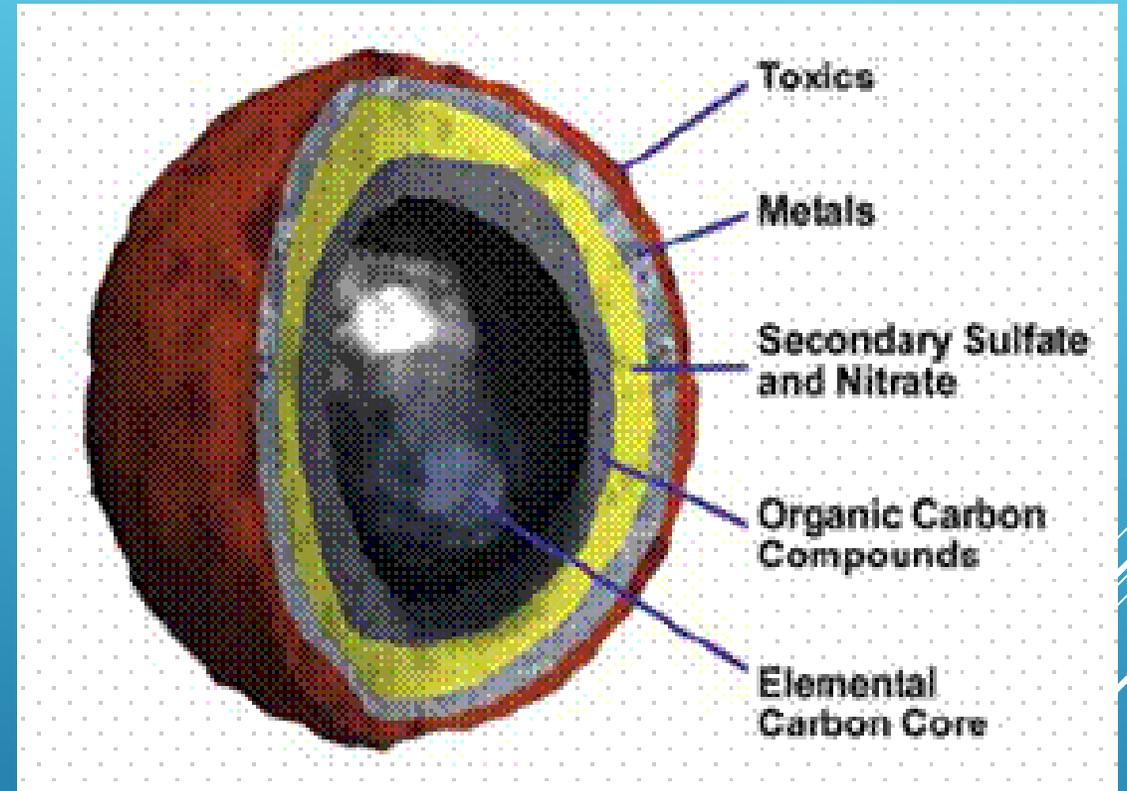
# *DIESEL AND HEALTH*

## Pollutants:

- Particulate Matter
- Ozone Precursors
- Carbon Monoxide

## Health Impacts Include:

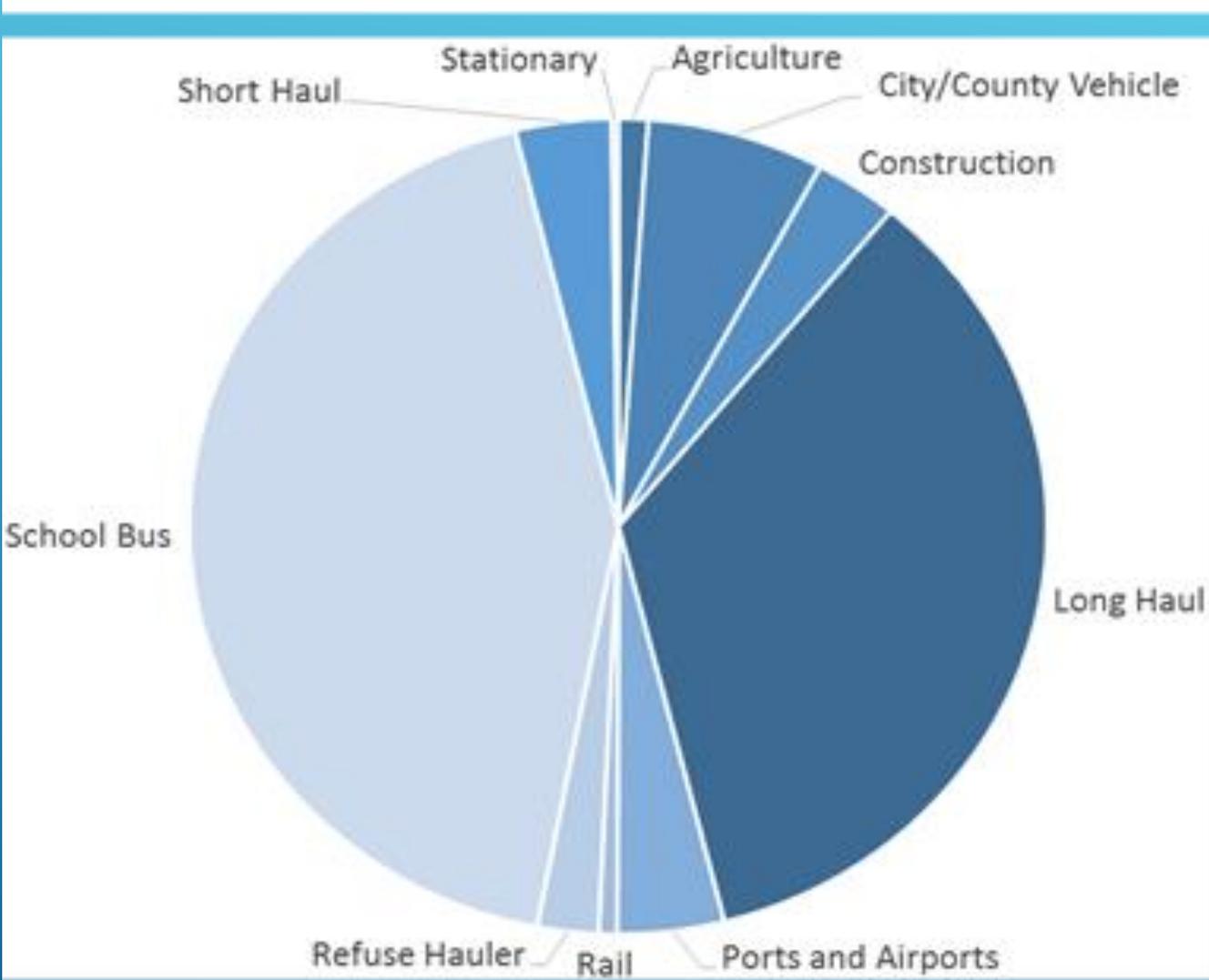
- Heart Disease
- Lung Disease (e.g. Asthma)
- Probable Carcinogen



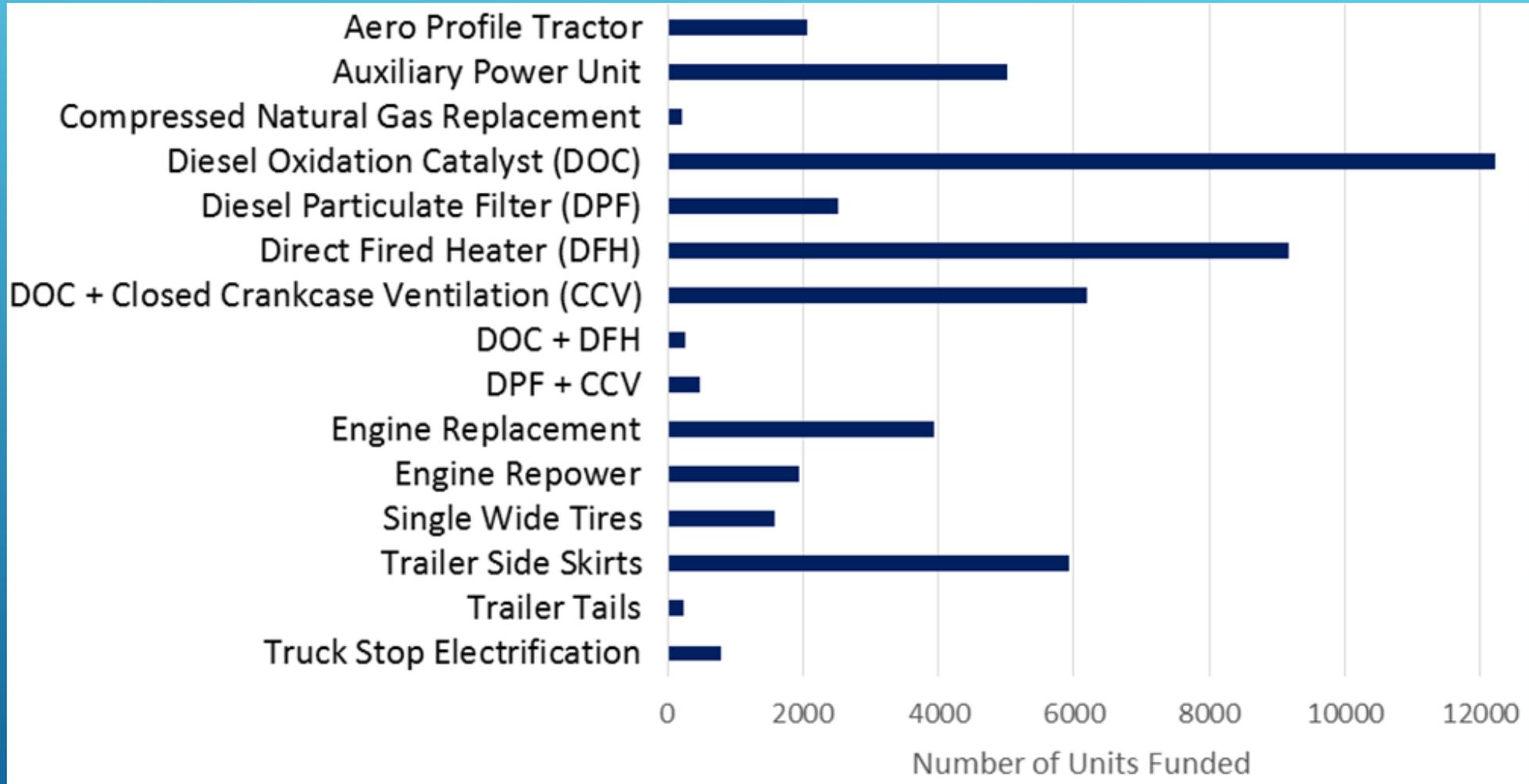
# NATIONAL DERA PROGRAM BENEFITS AND ACCOMPLISHMENTS FY 2009-2013

Investment of DERA Program	Emission and Fuel Reductions
\$520 million funds awarded	312,500 tons of NO <sub>x</sub>
58,800 engines retrofitted or replaced	12,000 tons of PM
Up to \$11 billion in monetized health benefits	18,900 tons of hydrocarbon
Up to 1,700 fewer premature deaths	58,700 tons of carbon monoxide
81% of projects targeted to areas with air quality challenges	4,836,100 tons of carbon dioxide
3:1 leveraging of funds from non-federal sources	431 million gallons of fuel

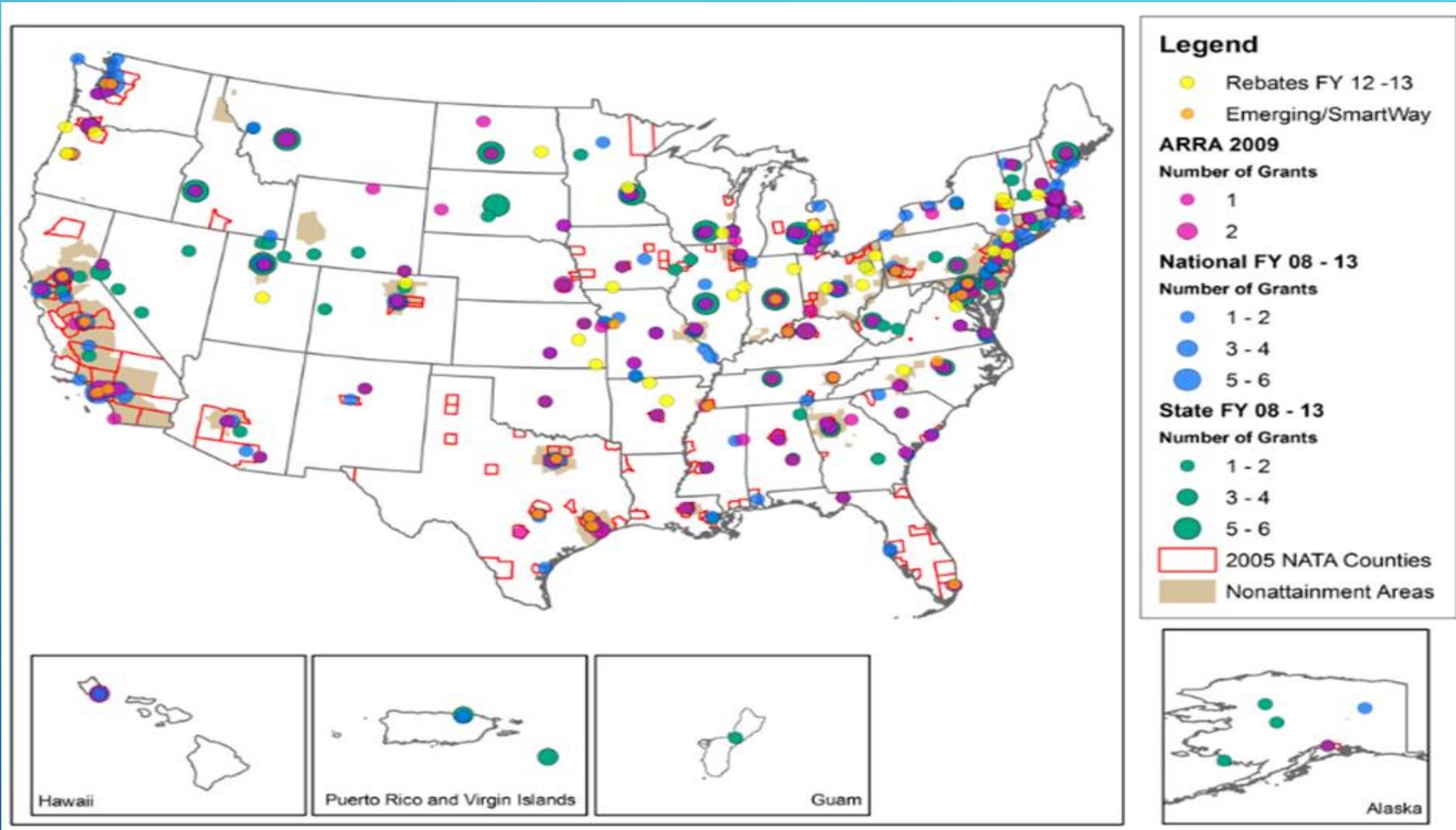
# NATIONAL DERA FUNDED SECTORS 2009-2013 (INCLUDES ARRA)



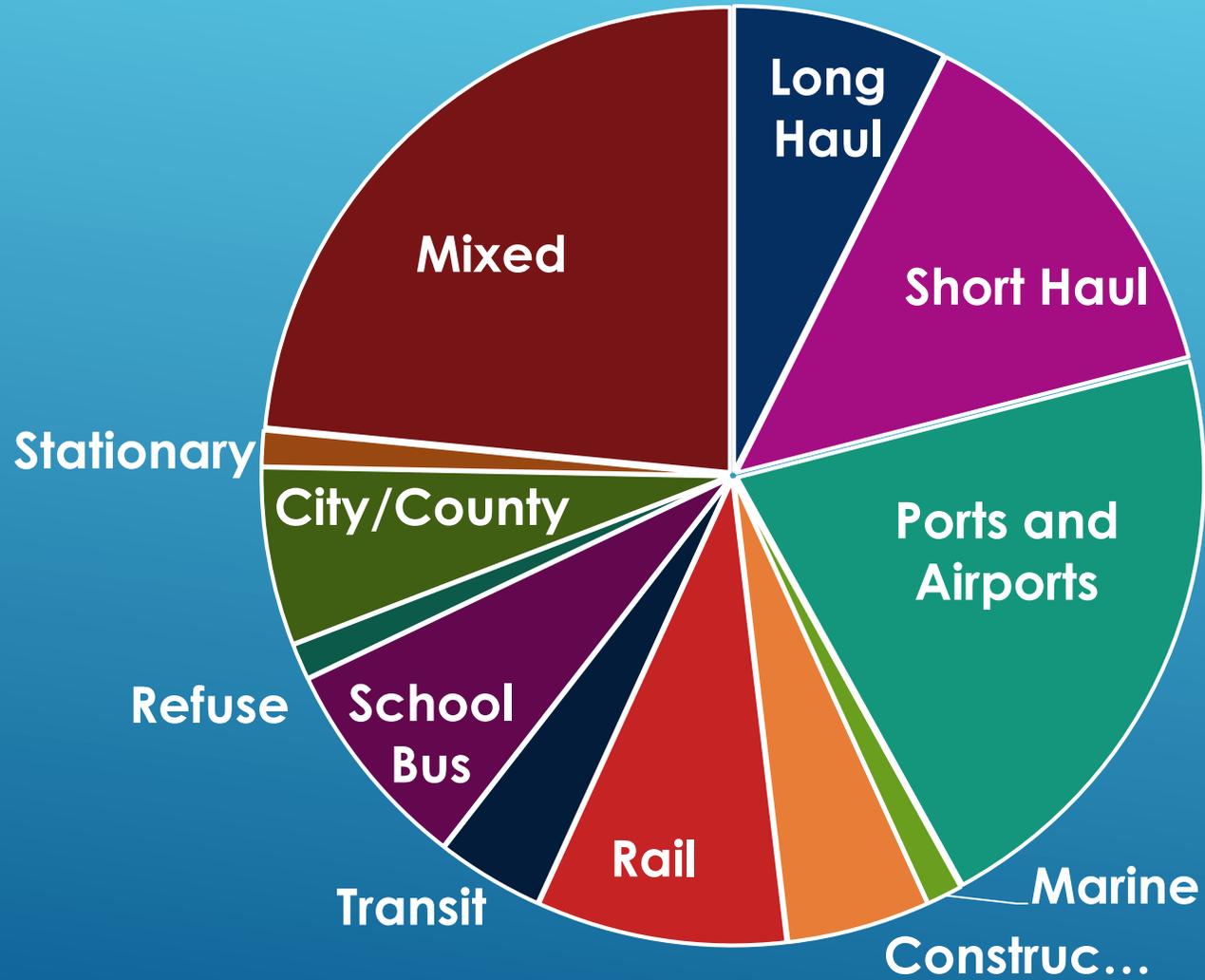
# NATIONAL DERA FUNDING BY TECHNOLOGY TYPE 2009-2013



# NATIONAL DERA PROJECTS 2008-2013



# REGION 3 DERA GRANTS BY VEHICLE TYPE (2008-2015)



## *MID ATLANTIC DERA PROJECTS 2008-2015*

<b>Total pieces</b>	<b># Grants</b>	<b>NOx Lifetime (tons)</b>	<b>PM lifetime (tons)</b>	<b>CO lifetime (tons)</b>
2,090	85	30,334	1,530	5,813

Between 2008 and 2015, Region 3 awarded approximately \$64 million in DERA grants

# *MWCOG AMTRAK SWITCHER LOCOMOTIVE- CIRCA 1970*



# MWCOG AMTRAK SWITCHER LOCOMOTIVE- REPOWERED



# *FUTURE OF DERA*

## Reauthorization pending

- ▶ Virtually identical language
- ▶ \$100 million support level
- ▶ Hope for a vote after recess

## Bipartisan support

Don't anticipate major changes to future RFPs or programs in near future

# PORTS INITIATIVE

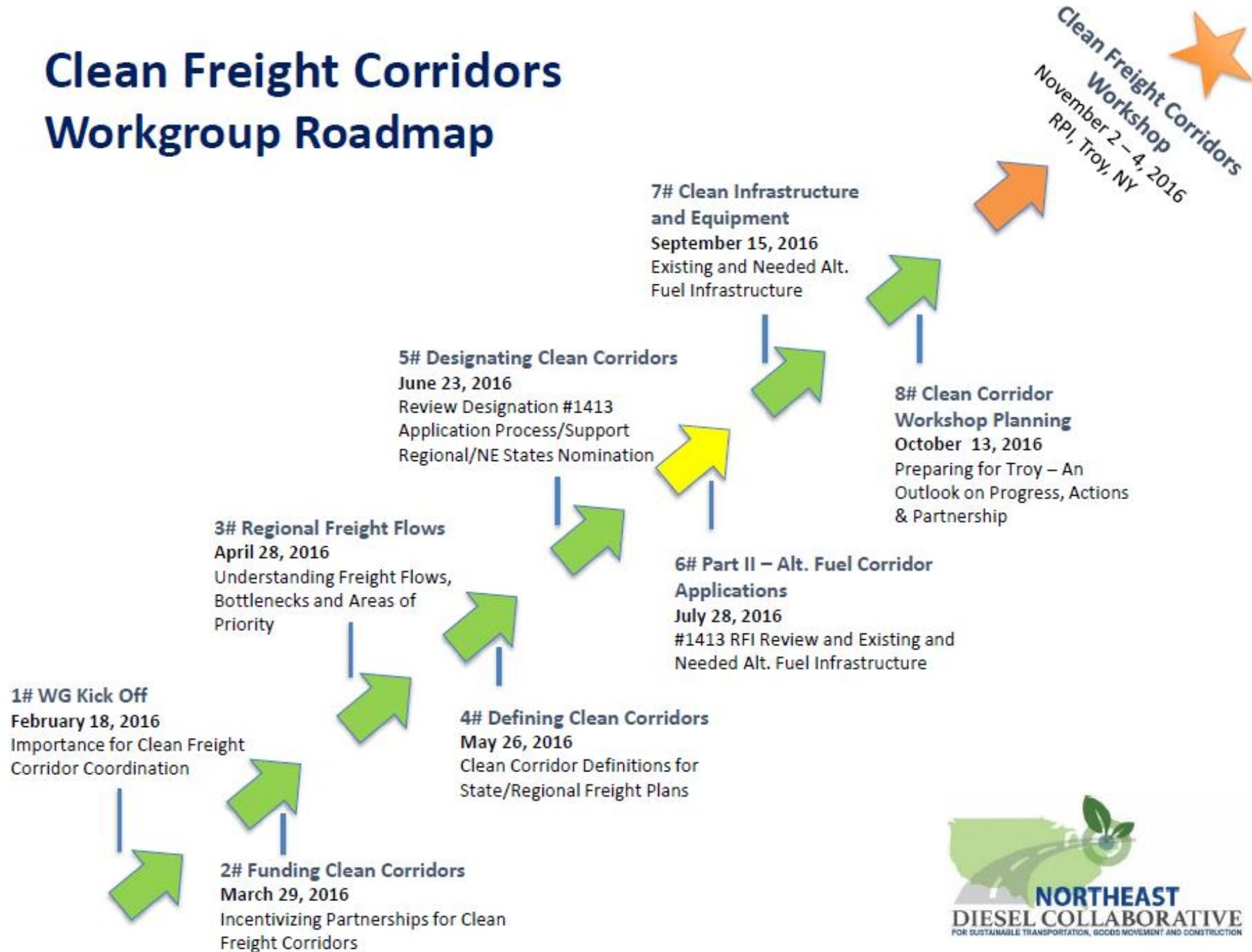
- ▶ EPA's Ports Initiative website is at:
  - ▶ <http://www.epa.gov/ports-initiative>
- ▶ Includes more information about:
  - ▶ Background on Ports Initiative
  - ▶ 2014 Port Stakeholder Summit
  - ▶ Diesel Emissions Reduction Act (DERA) port-related grants awarded to date
  - ▶ Macro Ports Assessment
- ▶ Draft Documents (Capacity Building Tools) – Deadline for Pilot Projects extended to 9/14
  - ▶ Environmental Justice (EJ) Primer for Ports
  - ▶ Ports Primer for Communities
  - ▶ Community Action Roadmap



# Northeast Clean Freight Corridors Workgroup



# Clean Freight Corridors Workgroup Roadmap



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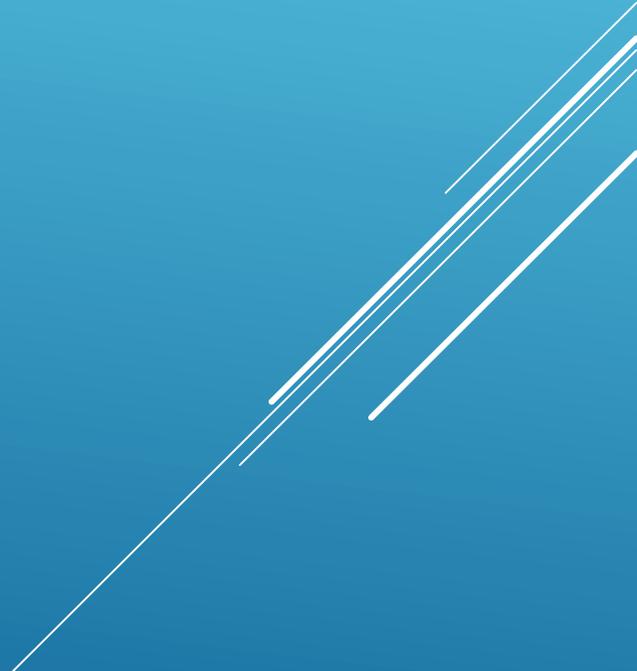
<https://www.northeastdiesel.org/> (under Sectors, choose Freight)

Thank you!

Alison Riley

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<https://www.epa.gov/cleandiesel>

A decorative graphic consisting of several parallel white lines of varying lengths, slanted diagonally from the bottom right towards the top right, set against a blue background.