

# The Midwest Clean Diesel Initiative, SmartWay Transport Partnership, EPA Ports Initiative, And More

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*November 19, 2019*



# Overview

- **The Midwest Clean Diesel Initiative (MCDI) History**
- **What kinds of projects have we completed**
- **What We Will Do Together in 2020**
  - **EPA Ports Initiative (and Goods Movement)**
  - **SmartWay Transport Partnership**
  - **Fitting In With Regional, State, and Local Priorities**

Midwest Clean Diesel Initiative



[www.epa.gov/midwestcleandiesel](http://www.epa.gov/midwestcleandiesel)

# How EPA Addresses Diesel Pollution

## Regulatory Approaches

- **Criteria Pollutant Regulations (PM and Ozone)**
- **Fuel Regulations**
- **Engine Standards**

## Voluntary Approaches:

- **Midwest Clean Diesel Initiative (MCDI) National Clean Diesel Campaign (NCDC): administer Diesel Emission Reduction Act (DERA) funds**

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# Diesel Emissions Reduction Act (DERA)

- Provides funding, on a competitive basis, to eligible entities, to achieve significant reductions in diesel emissions in terms of pollution produced and diesel emissions exposure, particularly from fleets operating in areas designated by the Administrator as poor air quality areas
- Funds projects using an EPA or CARB-certified engine configuration or a verified technology (aka retrofit)
- Much more about DERA and how you can find funding in the next session!



# **The Midwest Clean Diesel Initiative: History**

**EPA Region 5's clean diesel coalition, a part of EPA's National Clean Diesel Campaign**

**A public-private partnership formed in 2004 with a goal to address 1 million 'legacy' diesel engines by 2010 (we did!)**

**MCDI Steering Committee: State Coalition-based structure, meet yearly**



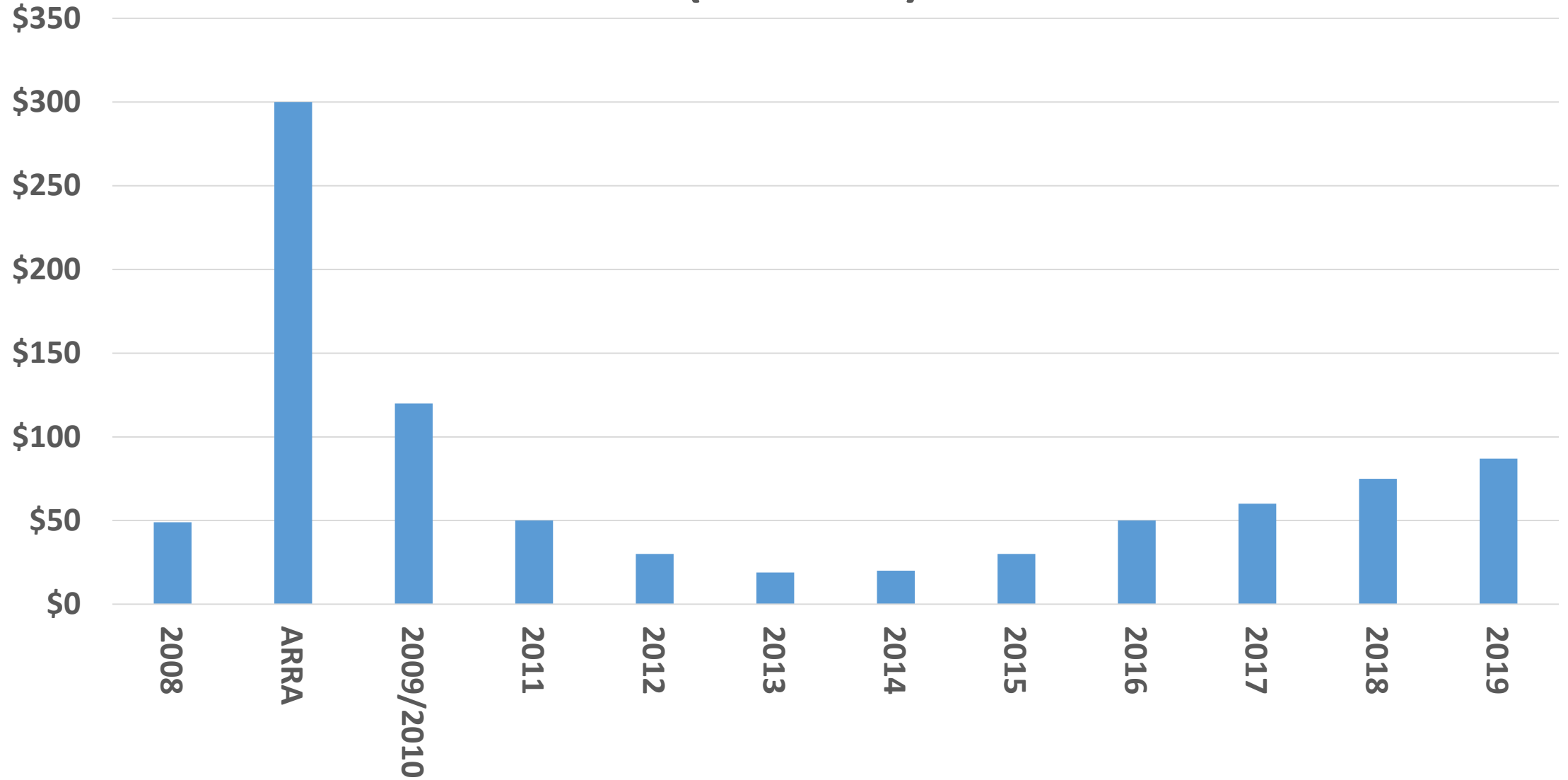
# The Midwest Clean Diesel Initiative: History (continued)

## Communication tools:

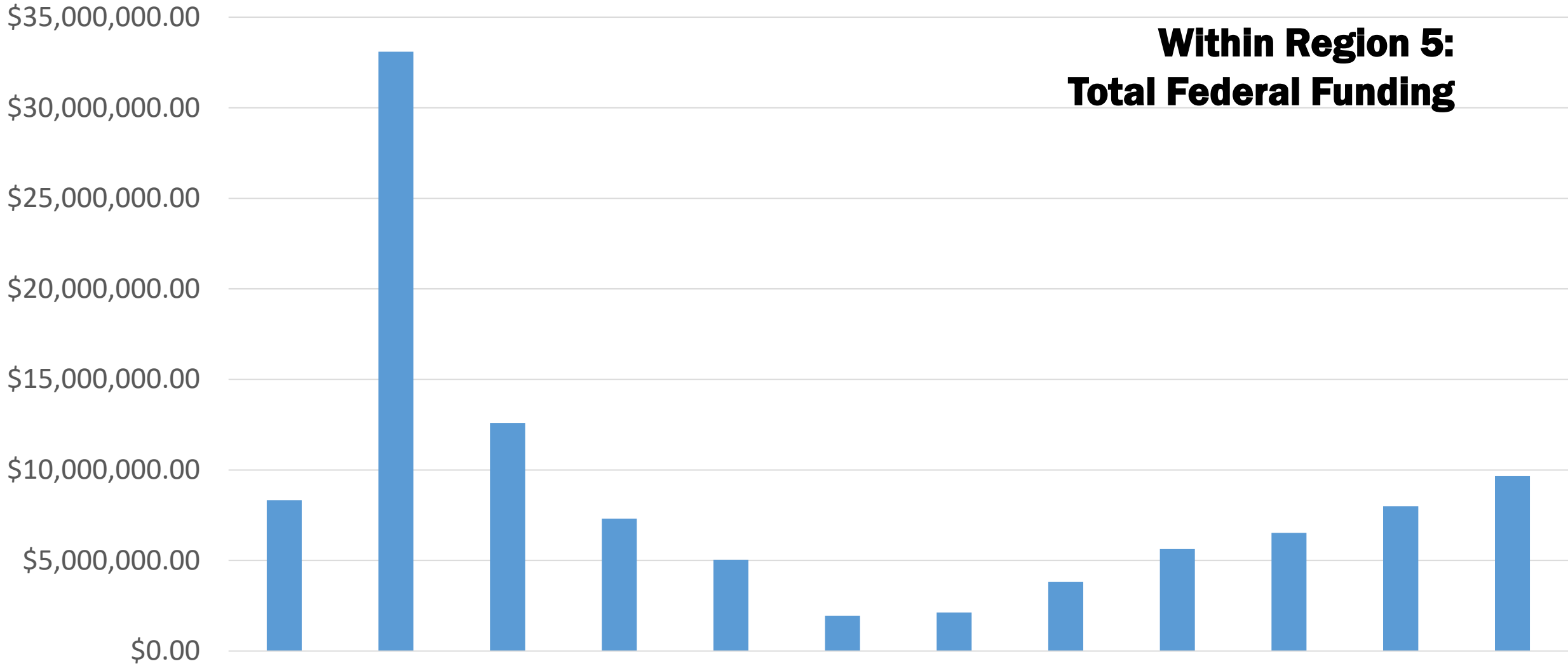
- [www.epa.gov/midwestcleandiesel](http://www.epa.gov/midwestcleandiesel)
- **Monthly Steering Committee Calls**
  - Members then provide info to their partners/networks
- **Webinars**
  - Invites come from Tony via Steering Committee members
- **Frank and I present information and help promote programs at partners' meetings/conferences**



# DERA Funding Amounts by Fiscal Year, Nationally (Millions)



## Within Region 5: Total Federal Funding



**Competitive  
Grants Awarded: 17**

**12**

**11**

**7**

**4**

**2**

**2**

**6**

**4**

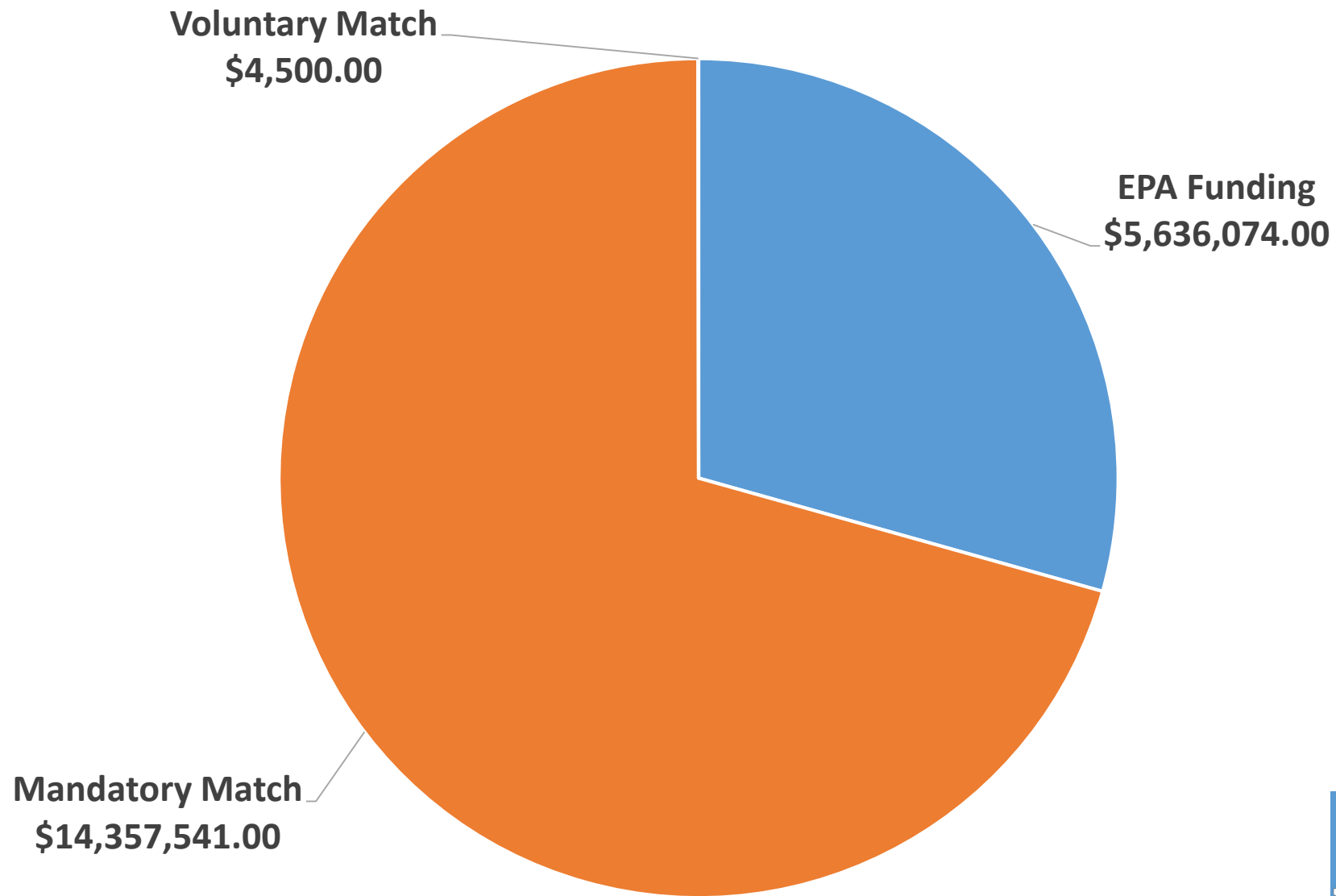
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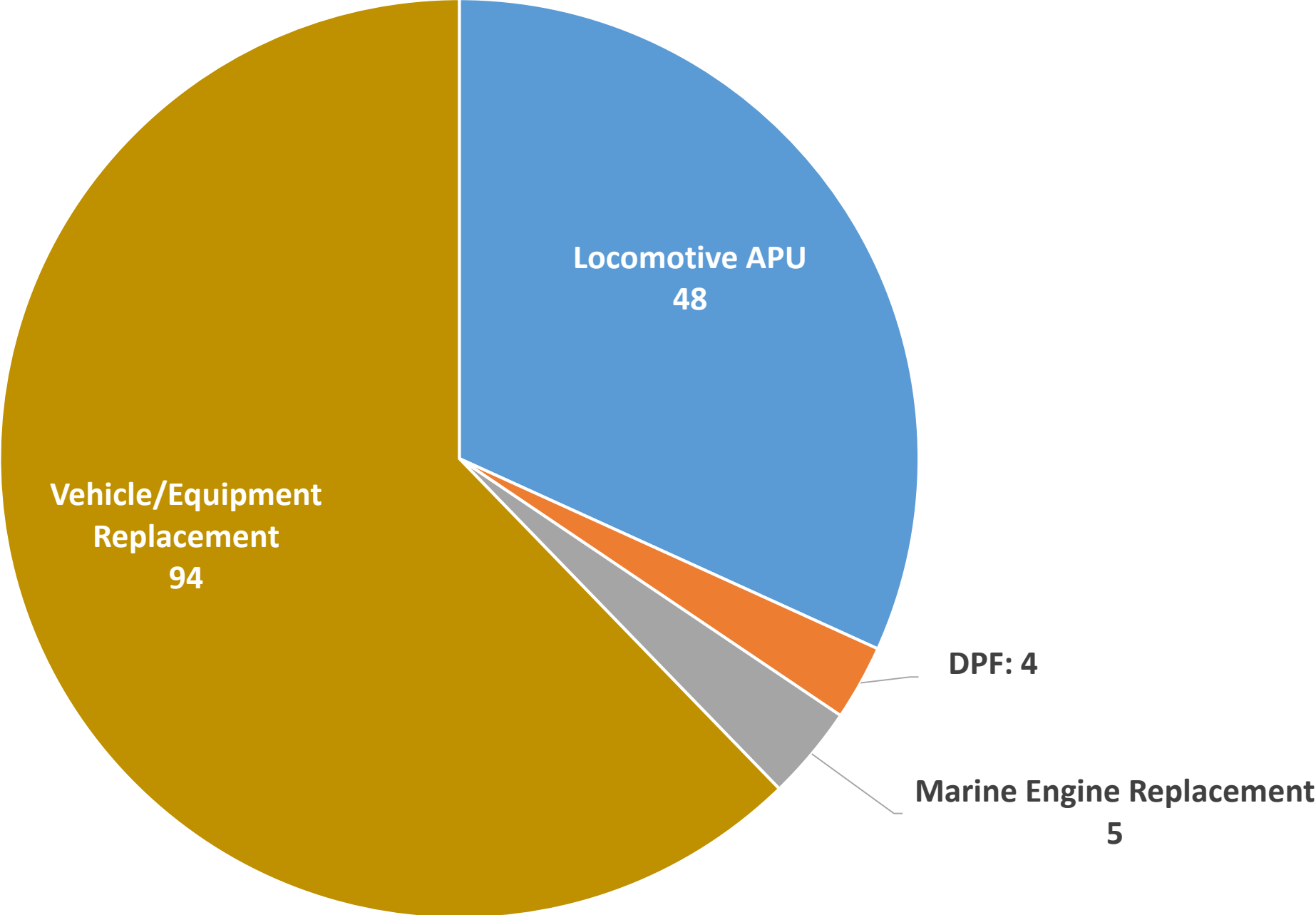
**5**



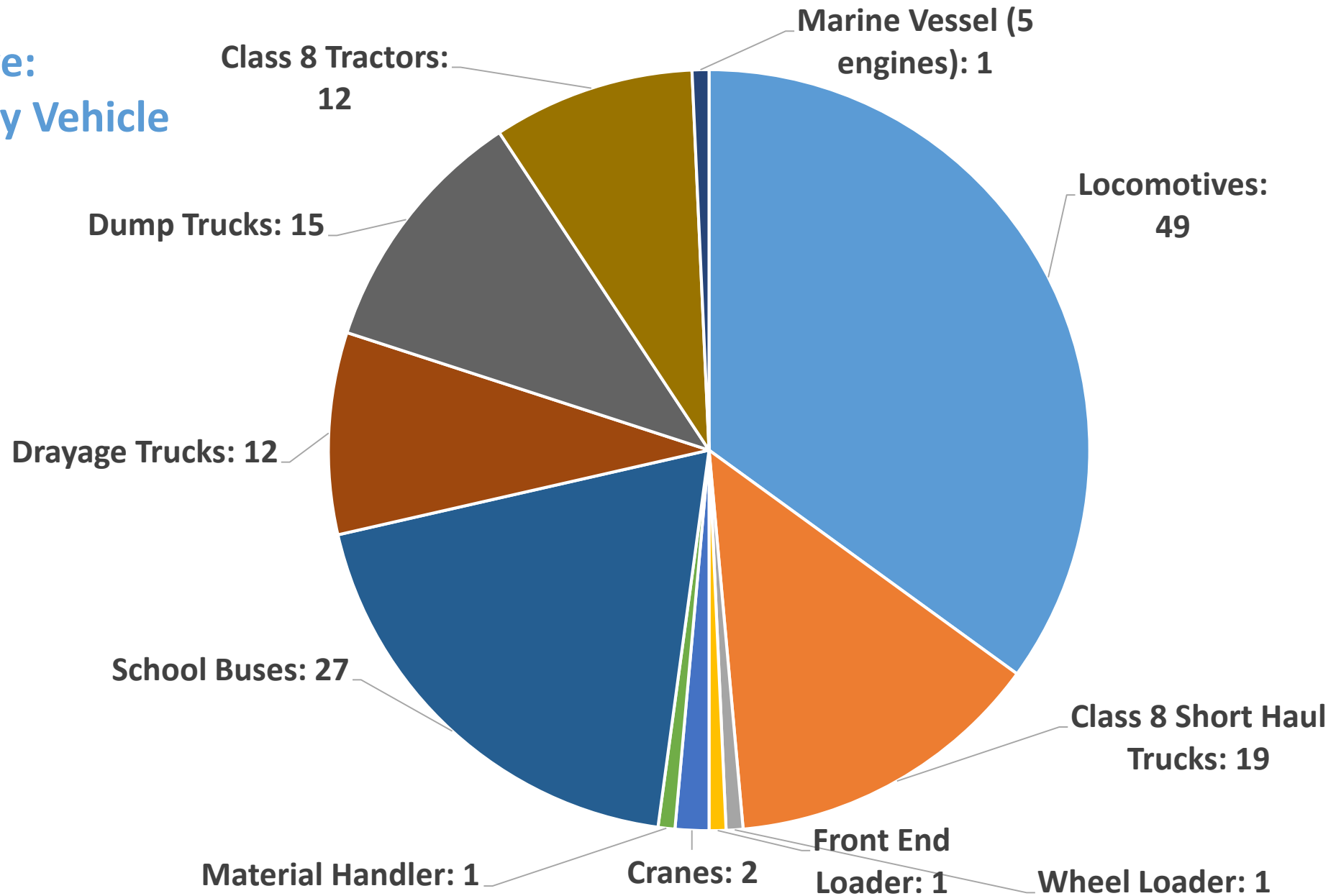
# Total DERA 2018 Competitive Funding: \$19,998,115



**DERA 2018  
Competitive:  
Projects By Type**

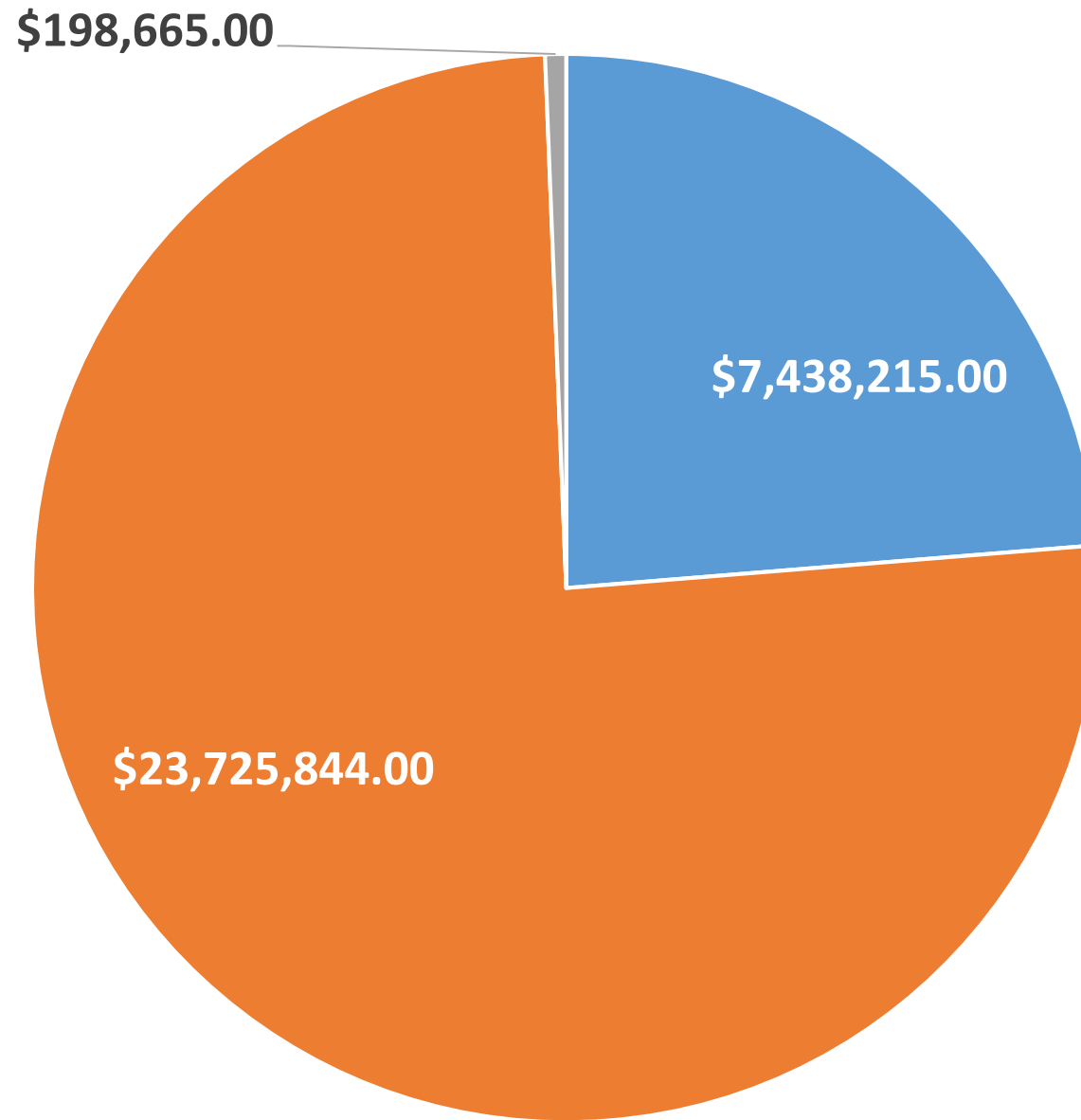


# DERA 2018 Competitive: Breakout By Vehicle Type



# Total 2019 DERA competitive funding:

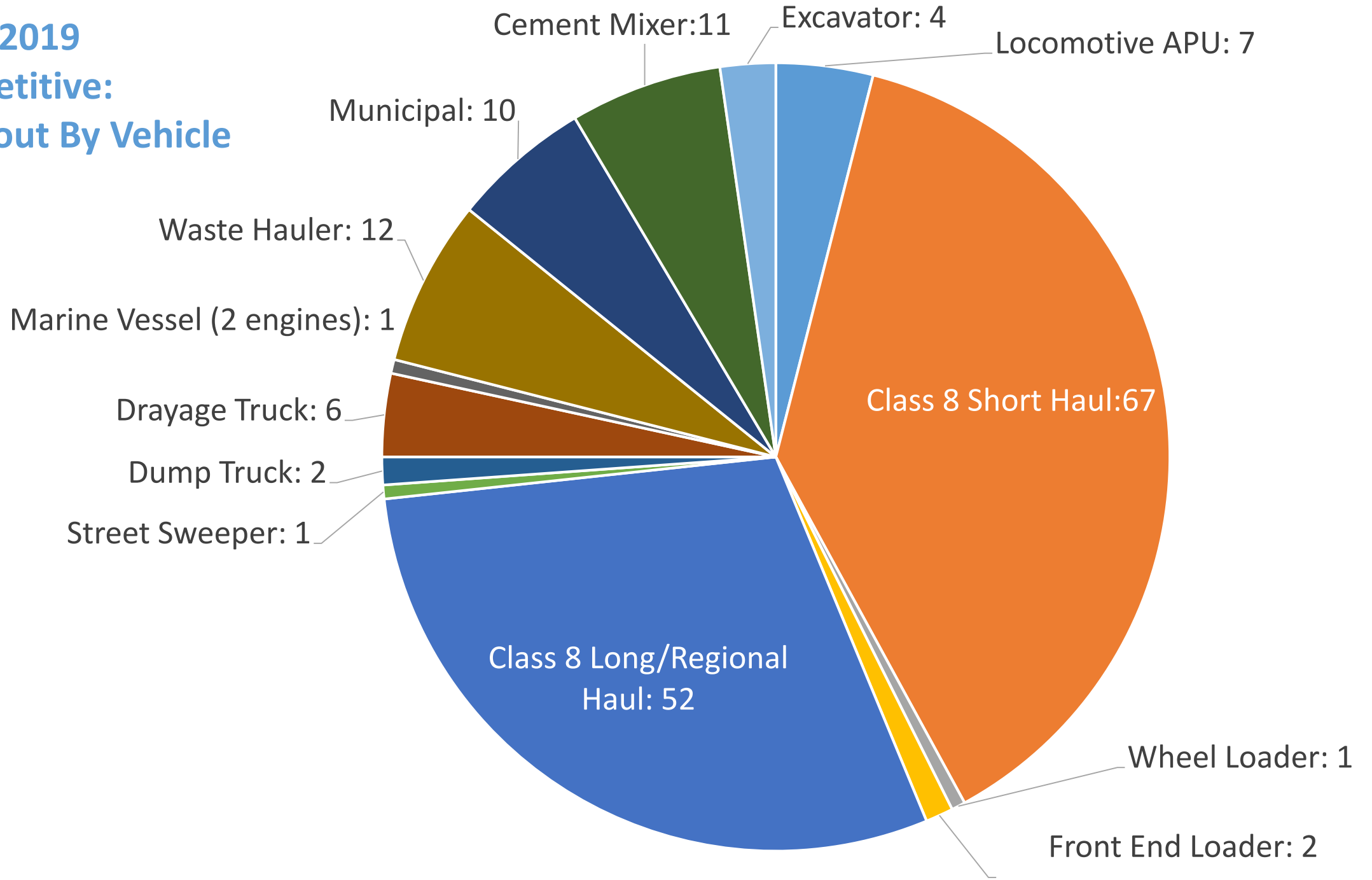
## \$31,362,724



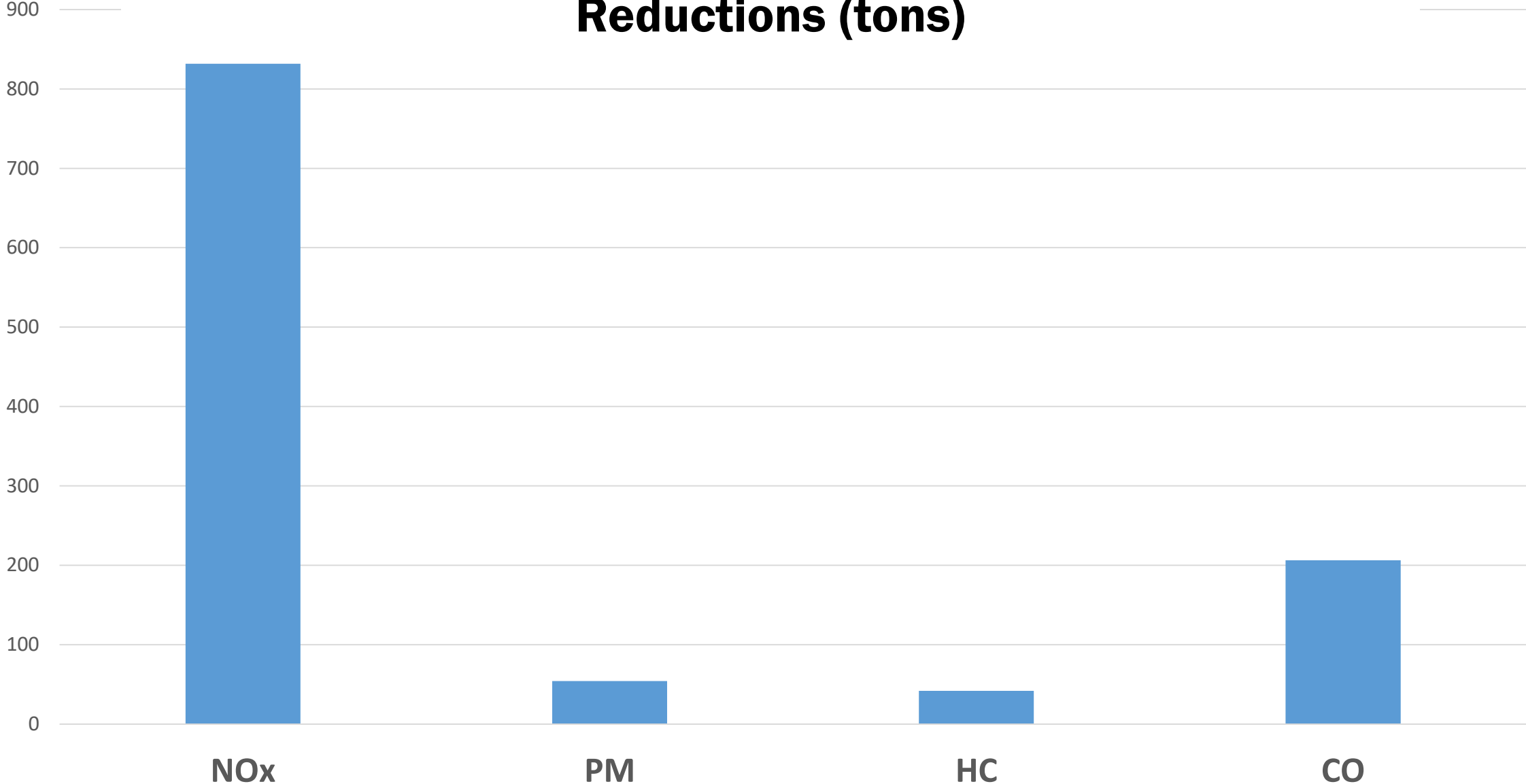
■ EPA Funding ■ Mandatory Match ■ Voluntary Match



**DERA 2019  
Competitive:  
Breakout By Vehicle  
Type**



# 2019 DERA Competitive – Proposed Lifetime Emissions Reductions (tons)



# 2019 DERA Competitive – Additional Environmental Benefits

- **Proposed CO<sub>2</sub> Reductions (lifetime): 27,239.75 tons**
- **Proposed Diesel Saved (lifetime gallons): 2,759,109**
- **Proposed Health Benefits of PM reductions: over \$2M**

quantified with EPA's Diesel Emissions Quantifier



# **What We Will Do Together In 2020**

## **Continue our Focus on Ports and Goods Movement**

- **Vehicles, equipment, and vessels that operate at and service Great Lakes and inland ports, and the nodes that are connected to them**
- **Goods movement centers of activity in priority areas**
  - **Rail yards**
  - **Distribution centers**
  - **Intermodal**

## **Continue to Reduce Diesel Emissions In Urban Areas and Areas of High Diesel Activity**

- **Transit, local/public services and utilities, construction, school buses, etc**

## **Continue to Utilize All Available Funding for Clean Diesel Projects**

- **EPA, CMAQ, VW, DOE, SEP, other alphabetical and non-alphabetical sources**



# EPA Ports Initiative

- **Water-based shipping creates areas of high diesel activity that tend to also exist near communities and urbanized areas**
- **Vessels tend to use old, less efficient engines**
  - Larger
  - Freshwater: longer lasting = older still
- **Port and yard equipment plus the road and rail diesels servicing the port – sometimes more than we thought (in number but especially in work hours/miles)**



# EPA Ports Initiative Web Site

[www.epa.gov/ports-initiative](http://www.epa.gov/ports-initiative)

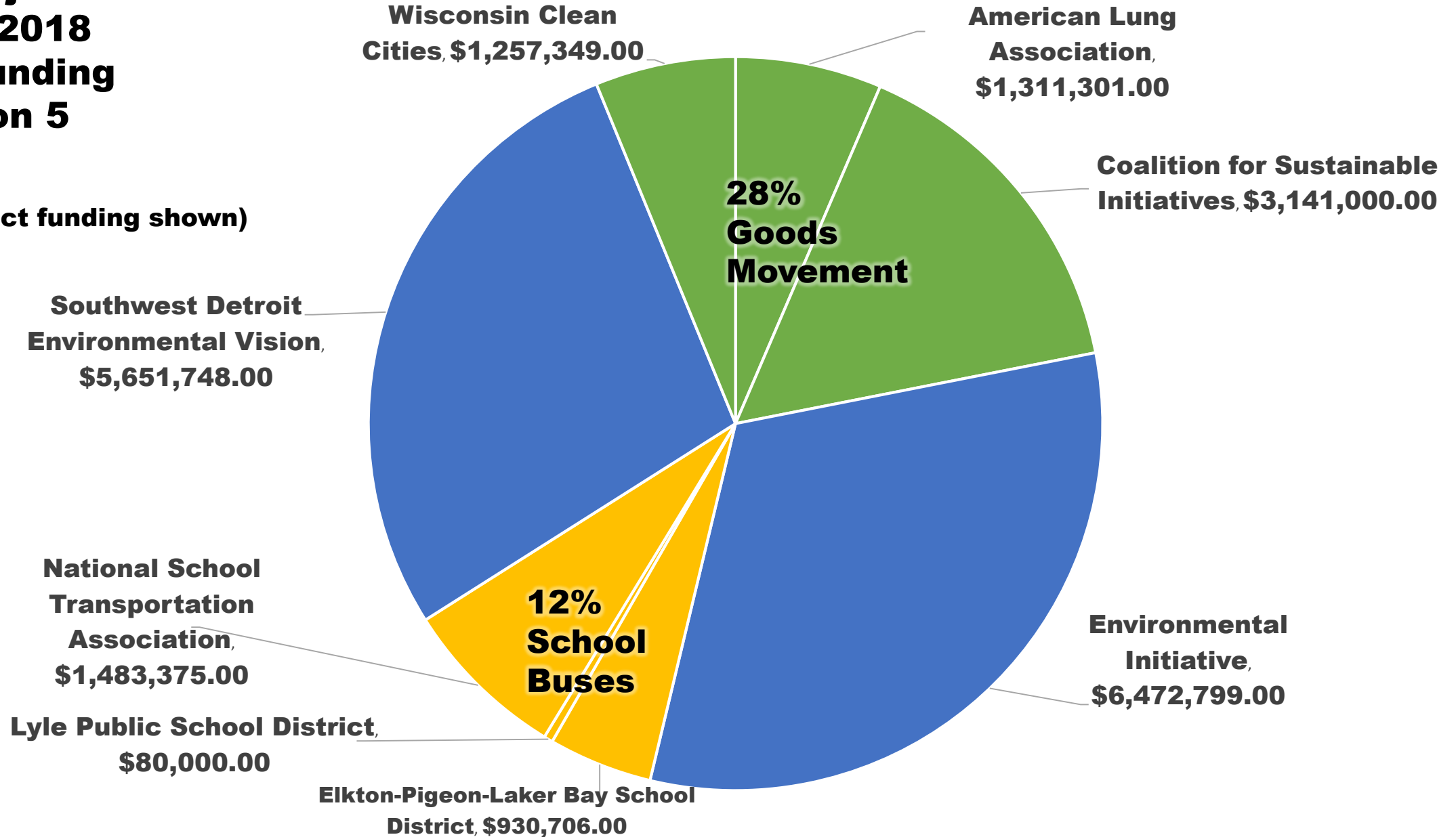
## Resources available:

- **Identification and quantification tools (CPORT, DEQ, other EPA tools and models)**
- **Collaborative tools and opportunities**
  - **Materials, multi-program opportunities (for example, R5 communities/schools programs), MCDI support**
- **Funding (DERA, also promote and learn about SEPs, CMAQ, VW)**
- **Partnerships with EPA and other government/nonprofit/industry groups**
- **Shared Expertise**



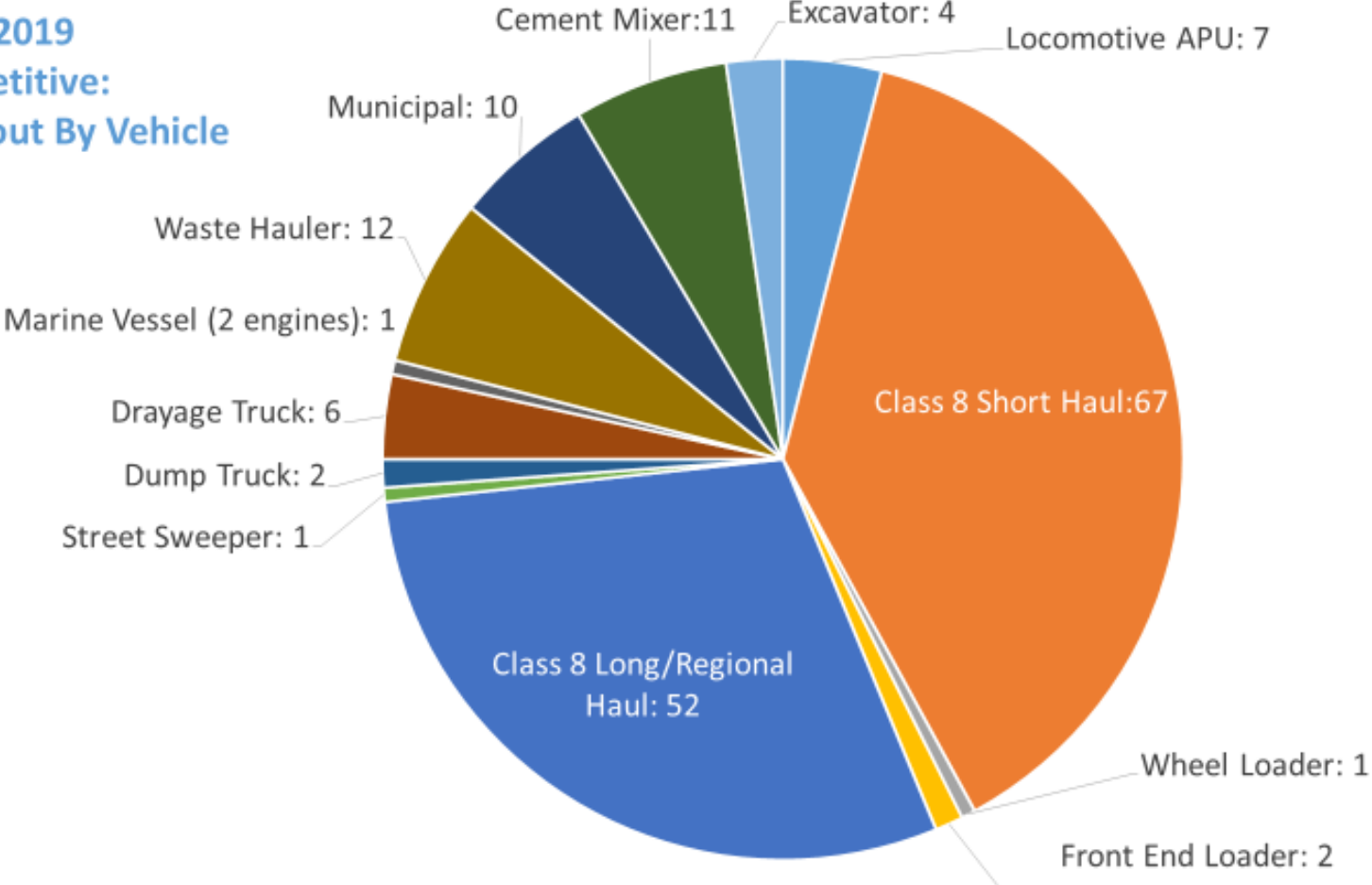
# Port projects were 60% of 2018 DERA funding In Region 5

(total project funding shown)



# 2019 DERA Funding: A Clear Goods Movement Focus

DERA 2019  
Competitive:  
Breakout By Vehicle  
Type



# **EPA Ports Initiative thoughts**

**MCDI-area ports do not look like the Ports Initiative web page**

- **And that's ok! There's more than enough opportunity to affect ports and goods movement—we have already been doing so for years**

**That website again: [www.epa.gov/ports-initiative](http://www.epa.gov/ports-initiative)**



# SmartWay Transport Partnership

- **What is SmartWay?**

- **Successful government/industry collaboration**
- **Voluntarily achieves improved fuel efficiency**
- **Reduces environmental impacts from freight transport**

- **Partnership Categories**

- **Carriers**
- **Shippers**
- **Logistics**
- **Rail**
- **Affiliates**

- **Partners use models:**

- **Benchmark freight operations**
- **Measure transportation footprint**
- **Identify technologies & strategies to reduce emissions**
- **Track emissions reductions and project improvement**

- **Equipment Manufacturers**

- **SmartWay certified cars & trucks**
  - **Auto manufacturers**
  - **Tractor manufacturers**
  - **Trailer manufacturers**

Midwest Clean Diesel Initiative



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# The Ideal “SmartWay Truck”

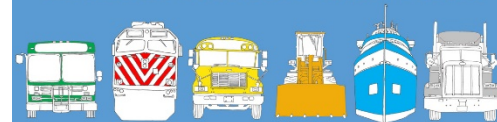
**Idling Reduction Technology**  
*(for trucks and school buses)*

**Aerodynamic Devices**  
*(for trucks)*



**Low Rolling Resistance Tires**  
*(for trucks)*

Midwest Clean Diesel Initiative






[www.epa.gov/midwestcleandiesel](http://www.epa.gov/midwestcleandiesel)

# With SmartWay you save fuel, cut emissions, reduce costs

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## Since 2004:

-  **Cut \$33.3 billion in fuel costs**
  - Saved 248.8 million barrels of oil
  - Equivalent to eliminating annual electricity use in over 16 million homes
-  **Prevented 119 million tons of air pollutants**
  - Carbon dioxide
  - Nitrogen oxides
  - Particulate matter
-  **Launched in 2004**
  - Started with fewer than 50 companies
  - Nearly 4000 organizations participate today

Midwest Clean Diesel Initiative



[www.epa.gov/midwestcleandiesel](http://www.epa.gov/midwestcleandiesel)



# Partnership Results

## 3000+ Carriers

Truck, rail, barge, intermodal, air  
Contract & Private  
1.7 billion ton miles



## 250 Shippers

F-500, medium and small businesses  
Retailers, food & beverage,  
electronics, home goods & more



## 600 Logistics Service Providers

Full service logistics providers  
Brokers  
Forwarders



Midwest Clean Diesel Initiative



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# SmartWay Transport Partnership

- **Region 5 helps promote the program (and other EPA clean diesel info) at partner meetings. Haven't been as regular in the past few years, but events do occur:**
  - **Fair Oaks Farms, IN – 2016**
  - **IL Trucking Association Annual Meeting – May 8, 2019**
  - **Ask Tony if you want me there**

**SmartWay web site: [www.epa.gov/smartway](http://www.epa.gov/smartway)**



# **Regional, State, and Local Priorities. Or, How Does All This Apply to You?**

**National priorities ultimately born out of listening to and identifying regional/state/local priorities**

**MCDI and other Regional Collaboratives: Combine local to national priorities**

- **Support city and state programs and directions (school buses, marine engines, sector/area initiatives, etc)**
- **Support our partners' initiatives**



# **Regional, State, and Local Priorities (continued)**

**Strong communication and partnership pays off at MCDI**

- **Monthly Steering Committee calls**
- **Webinars**
- **State coalition meetings (Frank and/or I can attend if requested)**
- **Coordination and outreach events (DERA, Ports Initiative, and/or SmartWay)**
- **Potential to daisy-chain grant/state allocation site visits**
- **Let EPA know how we can be of help to you**



# Resources

## SmartWay Transport Partnership

<http://www.epa.gov/smartway>

## National Clean Diesel Campaign

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

## EPA Ports Initiative

<http://www.epa.gov/ports-initiative>

## Midwest Clean Diesel Initiative

<http://www.epa.gov/midwestcleandiesel>

## Contact

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