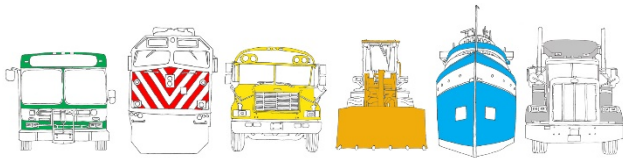


MCDI 2018 Program Highlights and 2019 Direction

Frank Acevedo and Tony Maietta

April 25, 2019

Midwest Clean Diesel Initiative



2019 Steering Committee Meeting



Overview

- **MCDI Quick History**
- **2016-2018 DERA Competitive Grants Breakdown**
- **What We Do in 2019**
 - **Ports, Goods Movement, SmartWay, Continued Volkswagen Coordination and Expertise Sharing**



The Midwest Clean Diesel Initiative: A Quick History

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

Originally MCDI Leadership Group: 33 public-sector and private-industry organizations. Met yearly to discuss progress, raise issues

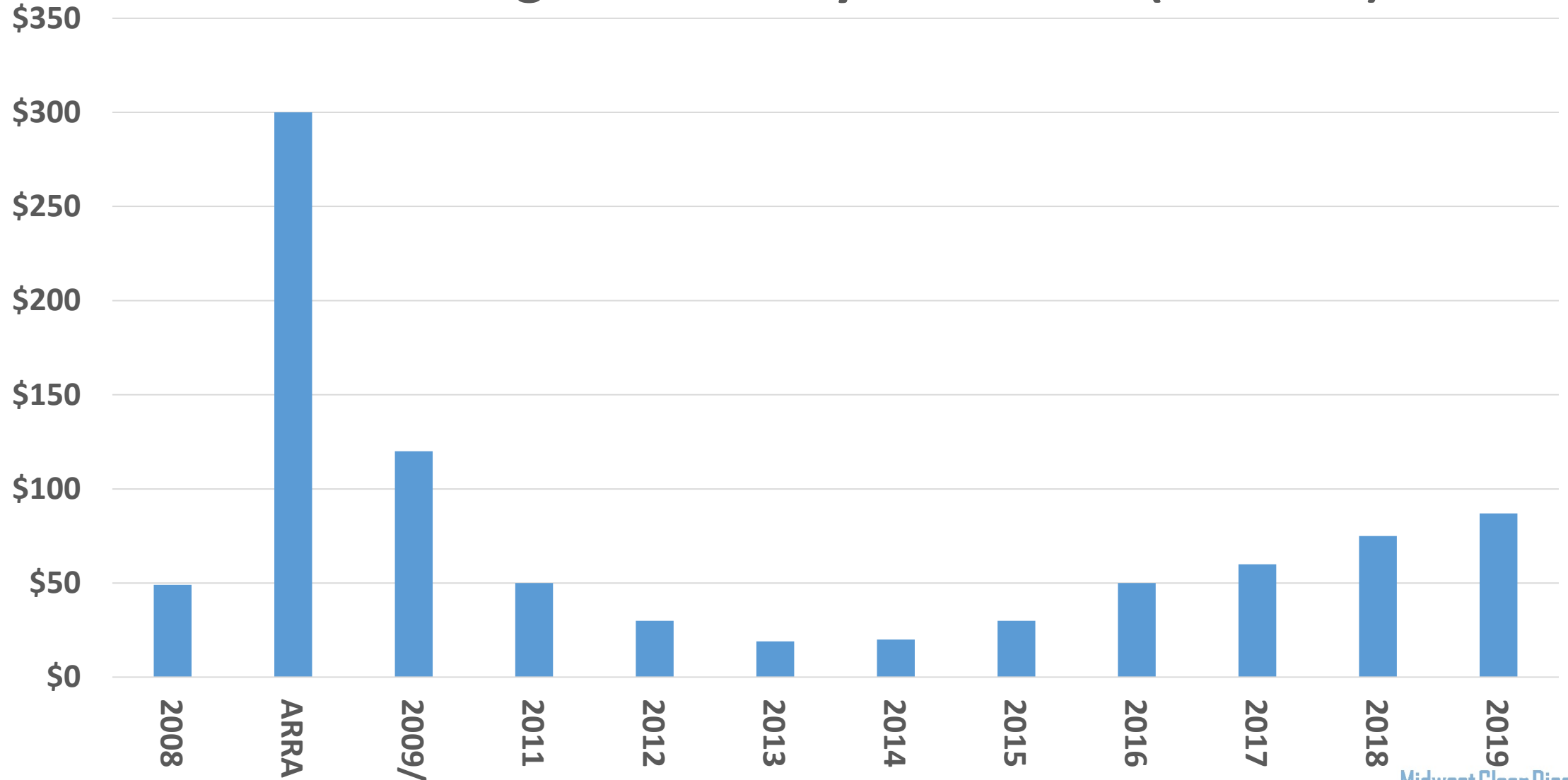
MCDI Steering Committee: Current format, State Coalition-based structure, still meet yearly (thank you for being here!)

The Midwest Clean Diesel Initiative: A Quick History (continued)

Communication tools:

- www.epa.gov/midwestcleandiesel
- **Monthly Calls**
- **Webinars**
- **Can present, help promote programs at partners' meetings/conferences**

DERA Funding Amounts by Fiscal Year (Millions)

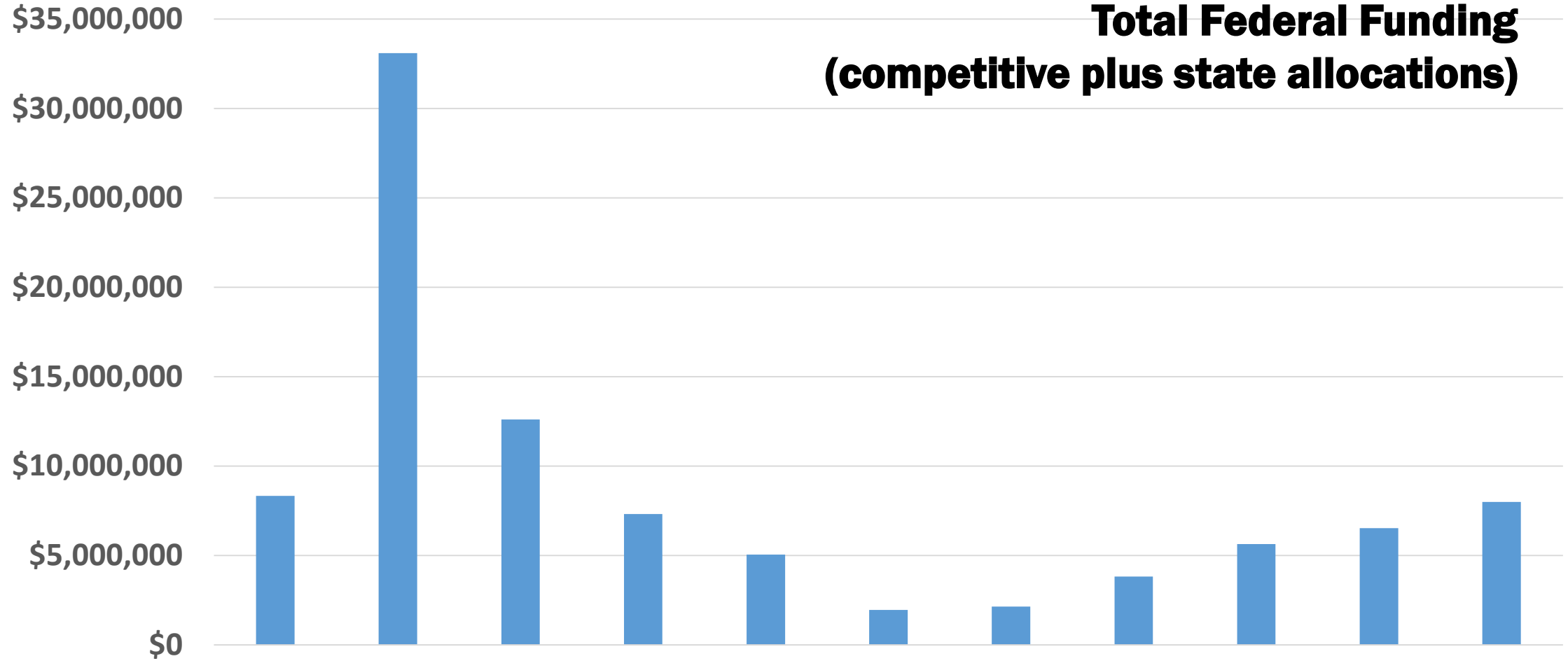


Midwest Clean Diesel Initiative



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Within Region 5: Total Federal Funding (competitive plus state allocations)



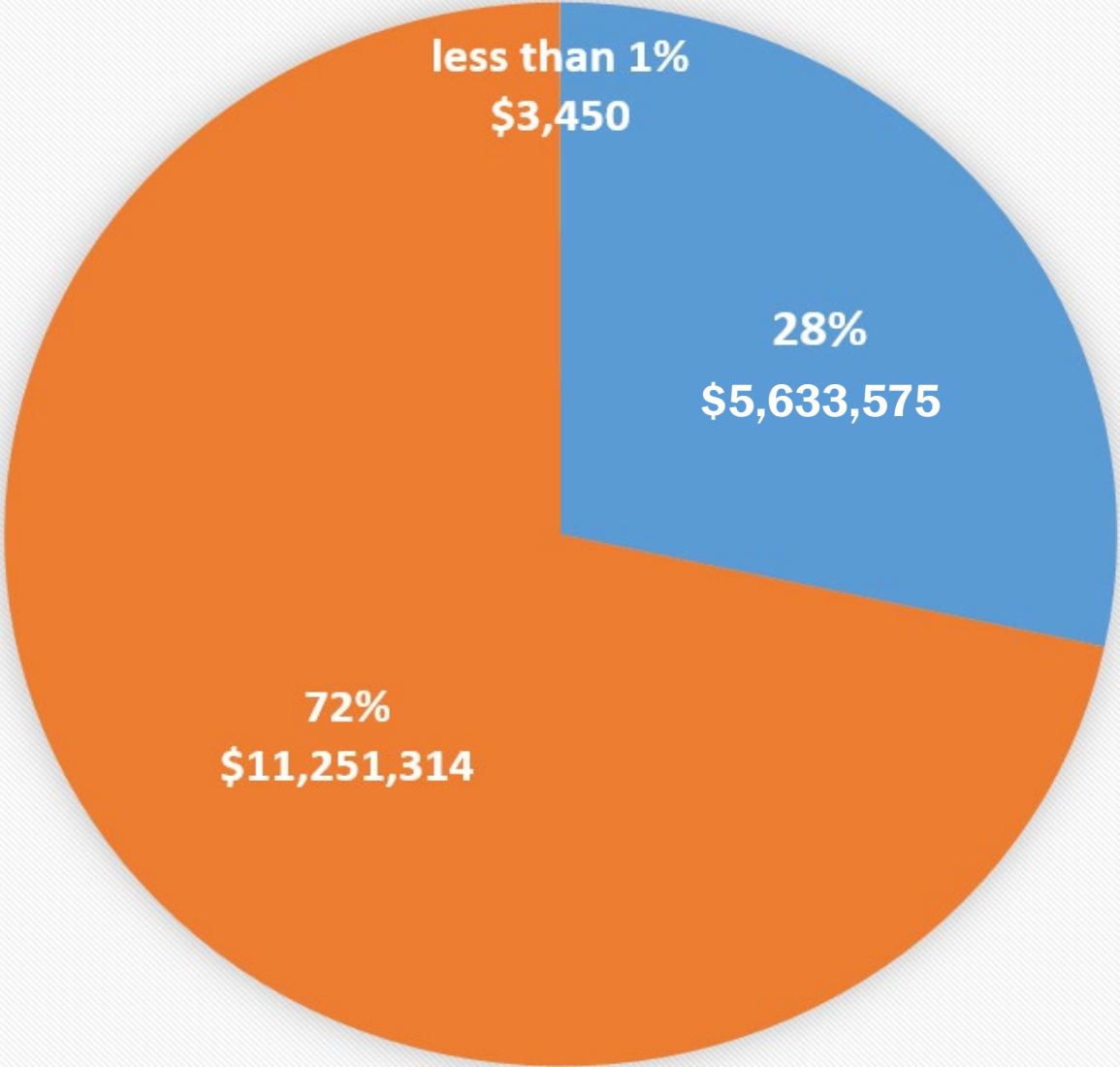
2008 ARRA 2009/2010 2011 2012 2013 2014 2015 2016 2017 2018

**Competitive
Grants Awarded:**

17 12 11 7 4 2 2 6 4 7 8

2016 DERA Competitive Funding: \$16,888,339

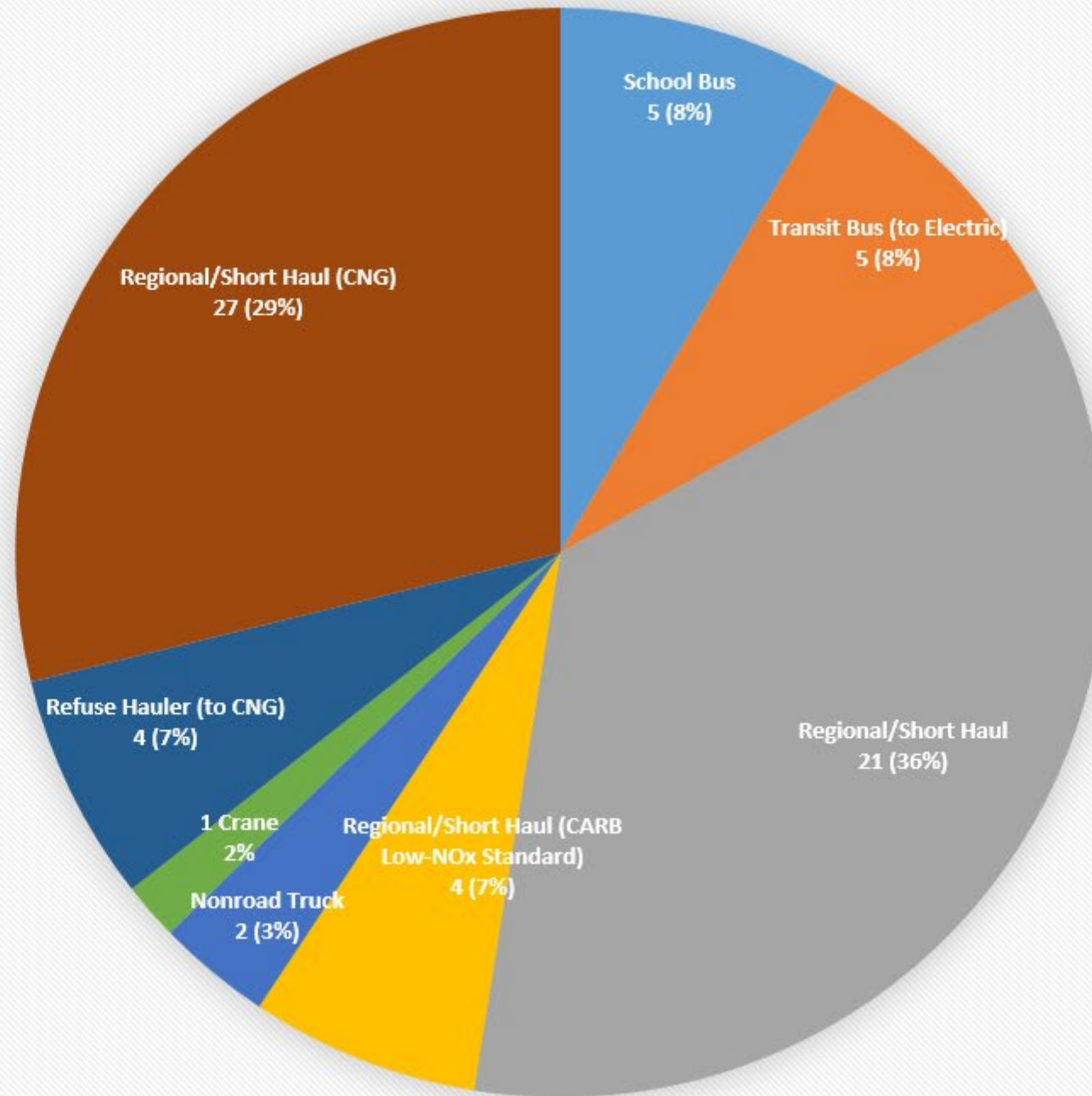
■ EPA Funding ■ Mandatory Applicant Match ■ Voluntary Applicant Match



- State Allocation \$1.7M
- Competitive \$3.8M



DERA 2016 Competition: Replacement Actions by Vehicle Type/Replacement Type (59 total)

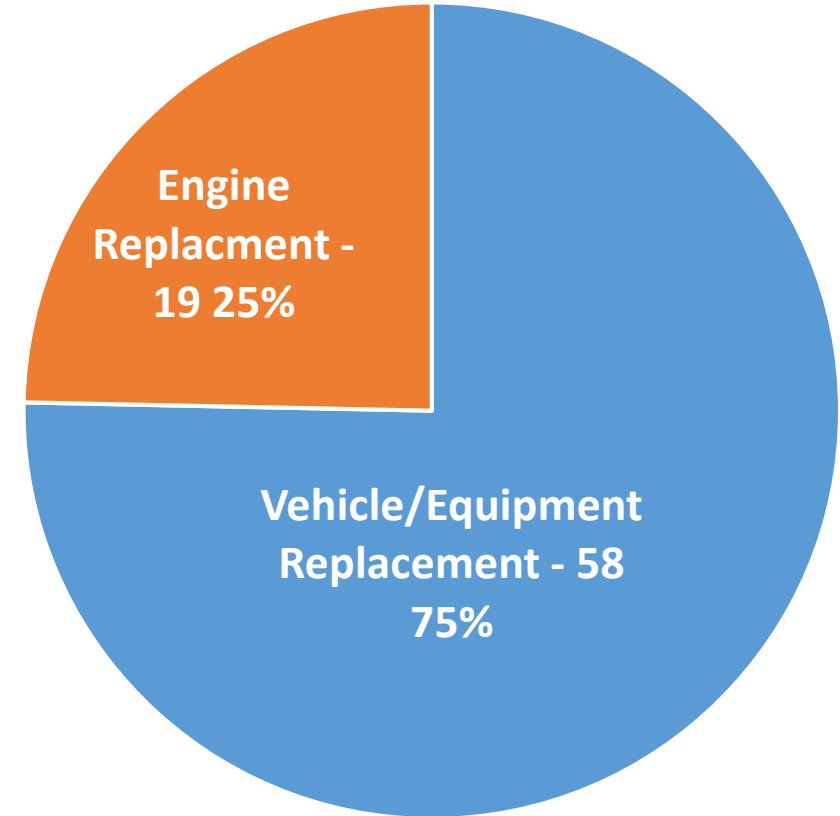
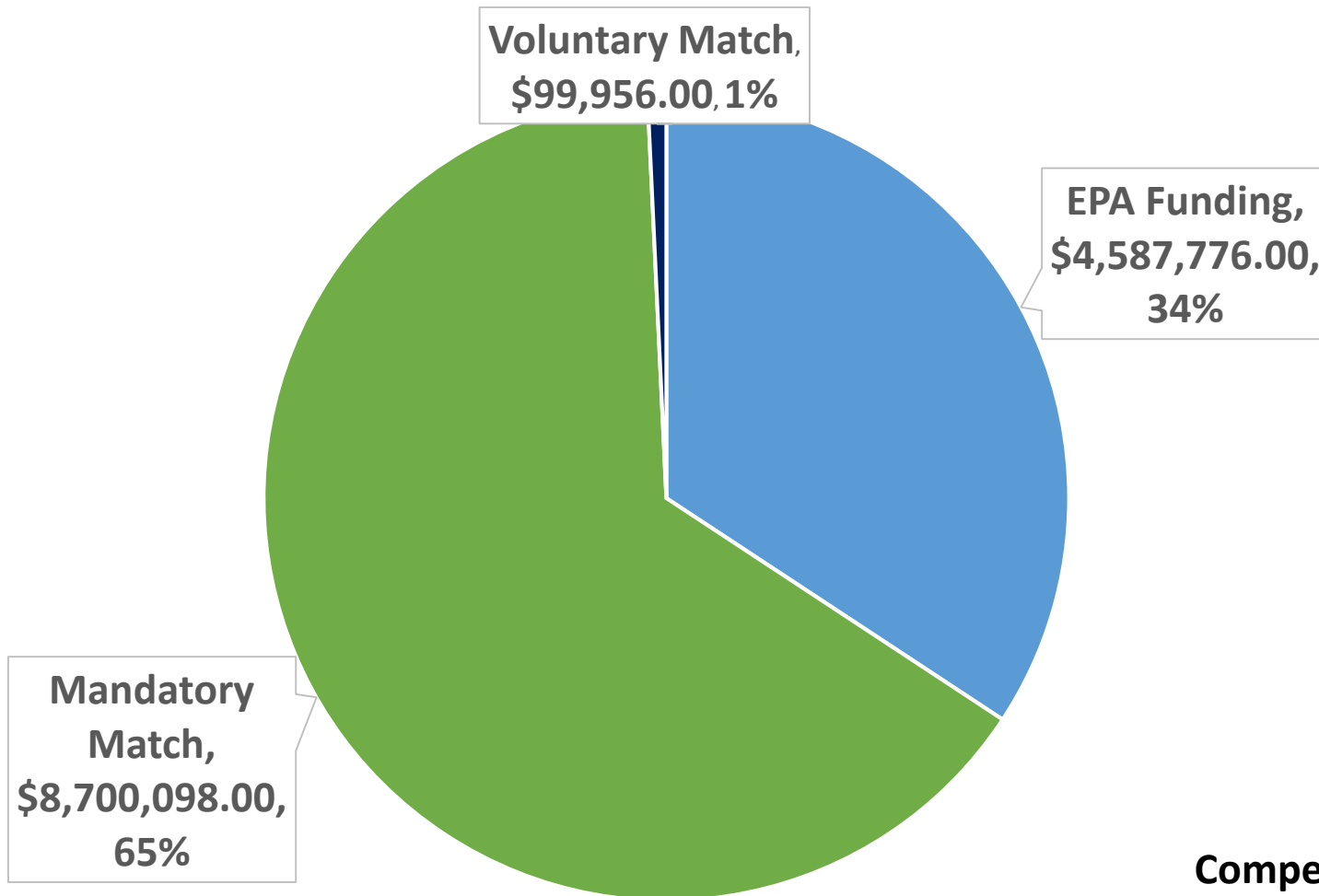


Midwest Clean Diesel Initiative



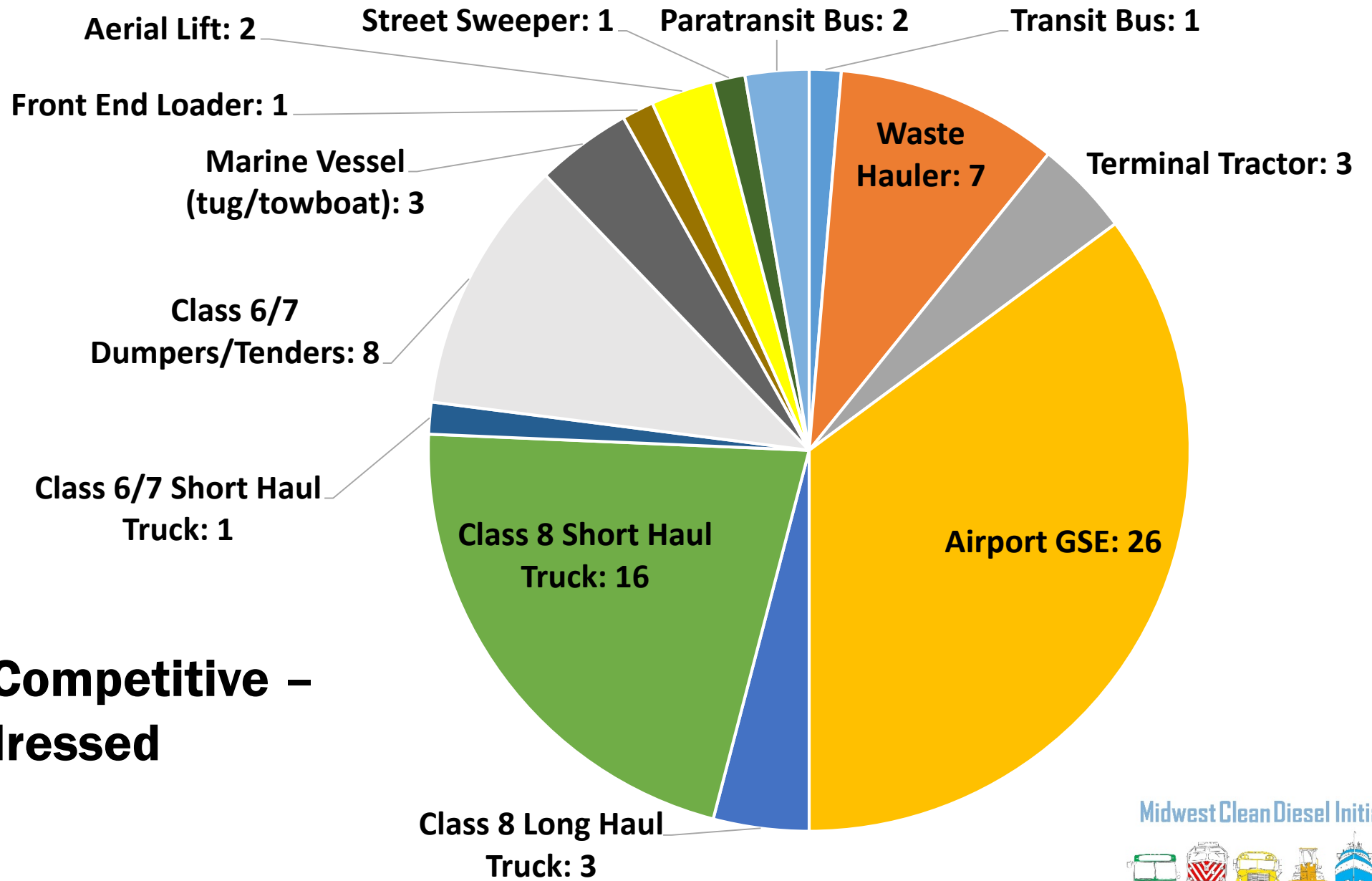
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DERA 2017 Competitive Funding: \$13,387,830.00

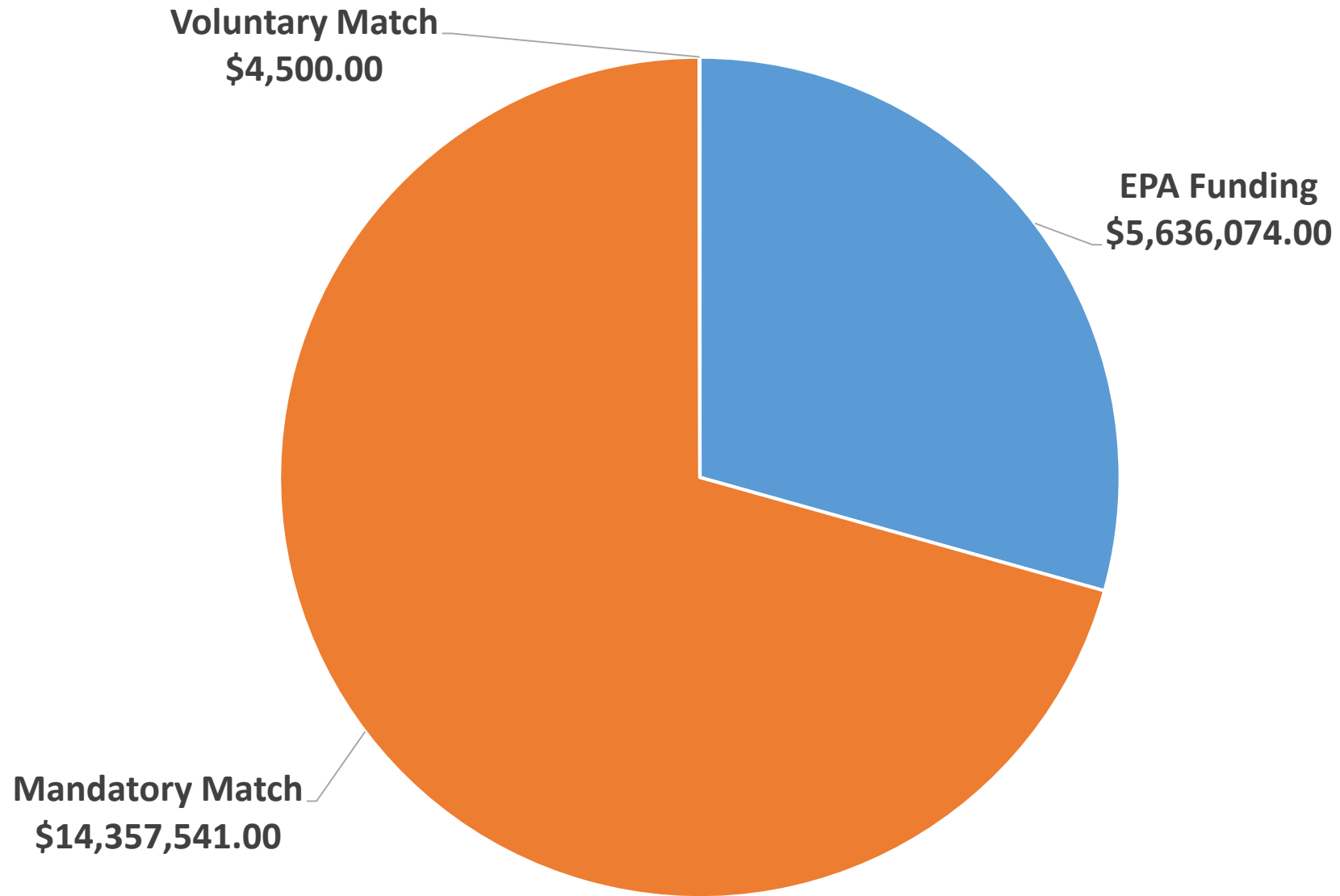


Competitive: \$4.5M
State: \$1.9M

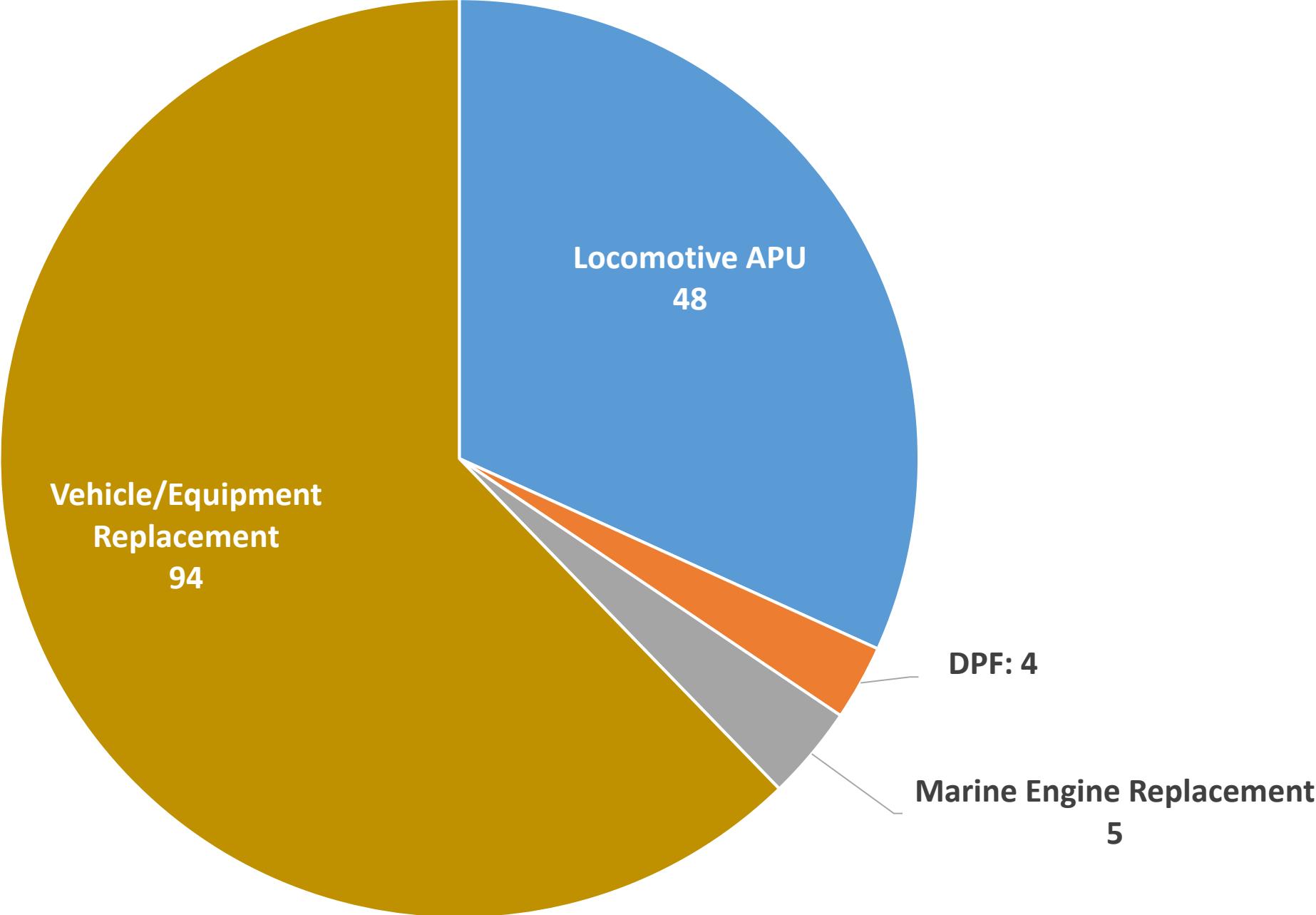
2017 DERA Competitive – Vehicles Addressed



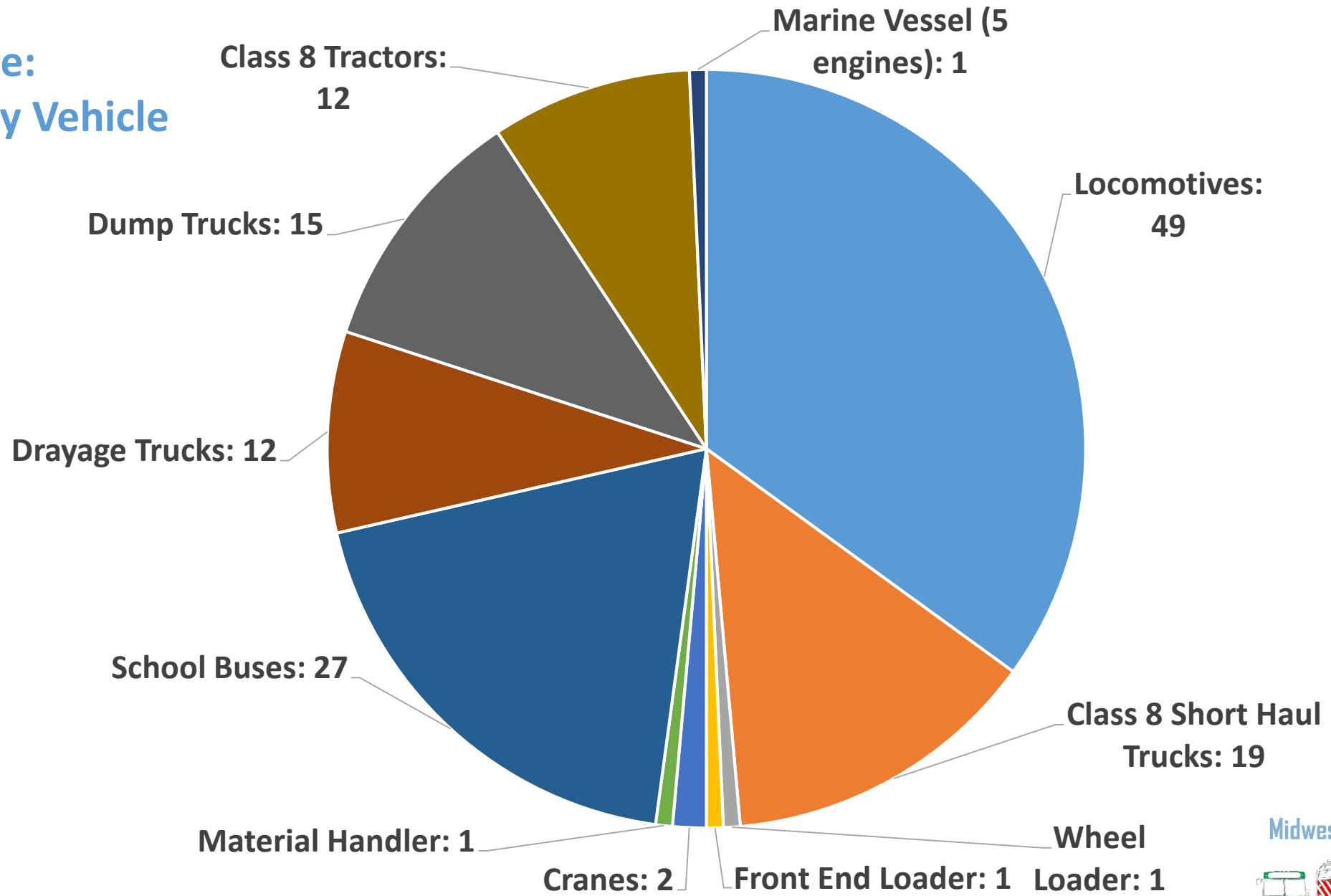
Total DERA 2018 Competitive Funding: \$19,998,115



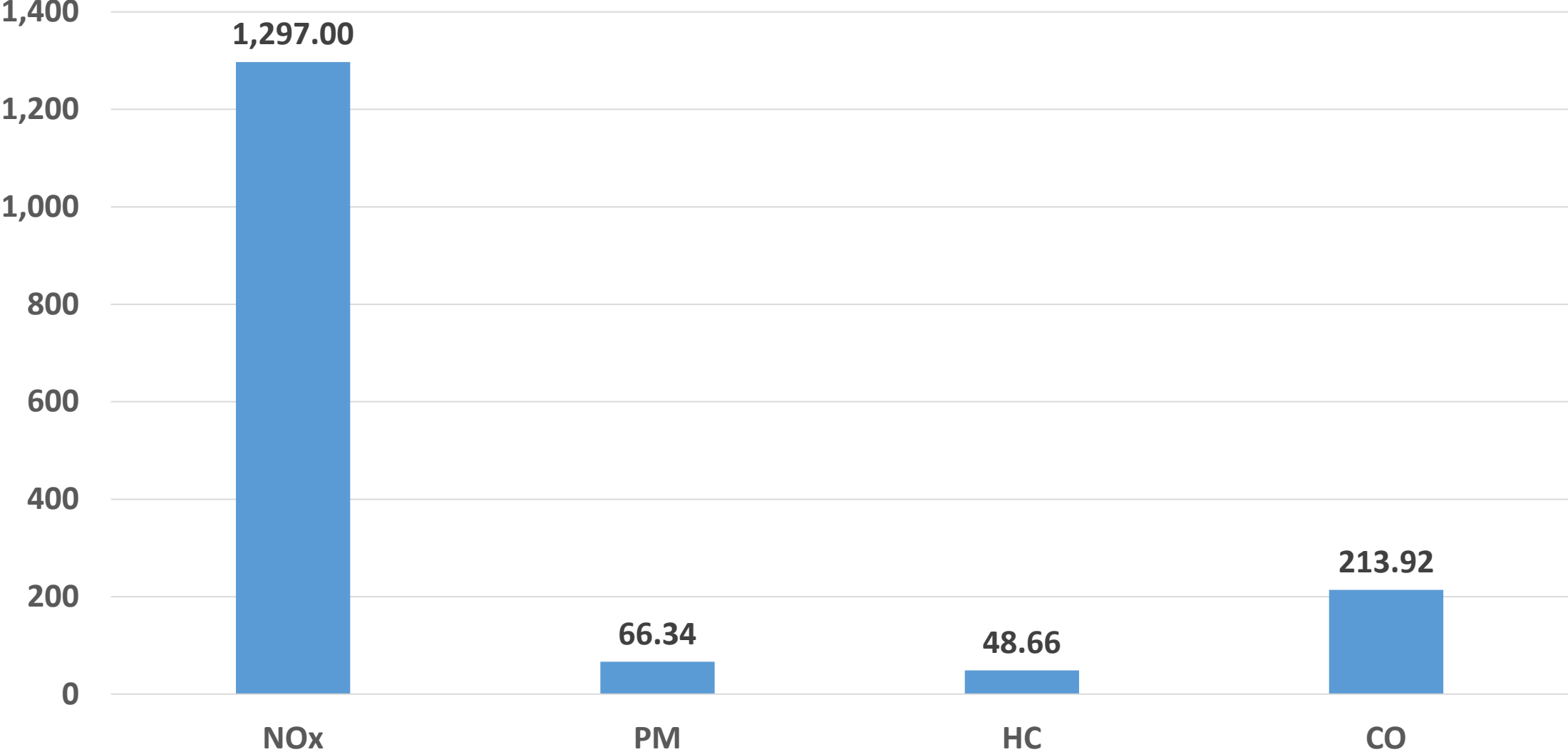
**DERA 2018
Competitive:
Projects By Type**



DERA 2018 Competitive: Breakout By Vehicle Type



2018 DERA Competitive – Proposed Lifetime Emissions Reductions (tons)



2018 DERA Competitive – Additional Environmental Benefits

- **Proposed CO₂ Reductions (lifetime): 59,617.62 tons**
- **Proposed Diesel Saved (lifetime): 4,652,480.75**
- **Proposed Hours of Annual Idling Reduced: 44,664**
- **Proposed Health Benefits of PM reductions: \$2,311,000**

quantified with EPA's Diesel Emissions Quantifier

What We Do In 2019

Continue our Focus on Ports and Goods Movement

- Vehicles, vessels, and equipment 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
- (you'll hear more in next sessions)

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

Midwest Clean Diesel Initiative



2019 Steering Committee Meeting

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

Resources available:

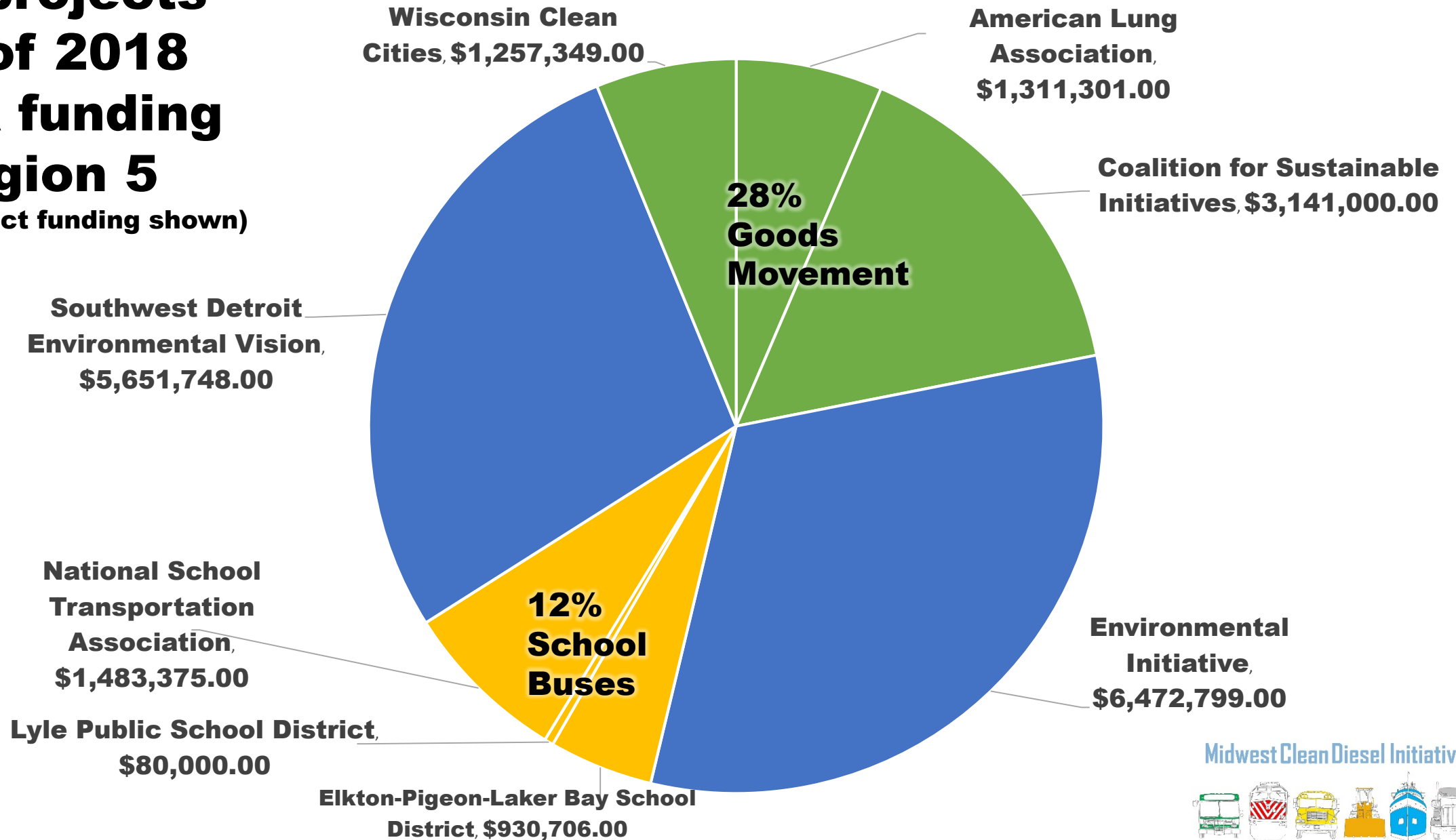
- **Identification and quantification tools (CPORT, DEQ, other EPA tools and models)**
- **Collaborative tools and opportunities**
 - **Materials, multi-program opportunities (for example, R5 communities/schools programs), MCDI support**
- **Funding (DERA, also promote and learn about SEPs, CMAQ, VW)**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

Midwest Clean Diesel Initiative



2019 Steering Committee Meeting

Port projects - 60% of 2018 DERA funding In Region 5 (total project funding shown)



Port projects - SEP Funding in 2018

Saint Paul Park Refining will undertake/have undertaken the following projects in the Minneapolis-St. Paul metropolitan area for at least \$271,200 (~\$800,000 total project cost):

- **Twin Cities and Western Railroad - project will install APUs on 2 locomotives**
- **LS Marine Inc. - project replaces 2 diesel engines on the Grand Marie Towboat.**
- **Spectro Alloys Corporation - project replaces 2 loaders**
- **Alter River Logistics - project will replace 1 loader**

Midwest Clean Diesel Initiative



2019 Steering Committee Meeting

Ports Lessons Learned in 2018

Coalition partners and state air agencies share EPA priorities

- Similar participation expected in 2019, seen in applications

Funding not always guaranteed to occur when expected

- But continuing to push for projects pays off when the time comes

Continued engagement with coalition partners helps the entire coalition

<https://youtu.be/b1AKUu8oNio>

Midwest Clean Diesel Initiative



2019 Steering Committee Meeting

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**
- Marine, crane, yard equipment, short-haul and regional haul truck projects already completed**

That website again: www.epa.gov/ports-initiative

Midwest Clean Diesel Initiative



2019 Steering Committee Meeting

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 (you should sign up! ...talk to me)**

- **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**

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2019 Steering Committee Meeting

SmartWay Transport Partnership

- **Region 5 can help you promote the program (and other EPA clean diesel info) at your 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**
 - **Ask Tony if you want me there**

SmartWay web site: www.epa.gov/smartway

Regional, State, and Local Priorities

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

MCDI especially an amalgam of local to national prioritization

- **Support state programs and directions (school buses, marine engines, sector/area initiatives, etc)**
- **MCDI (and other EPA programs) can support our partners' initiatives**

Midwest Clean Diesel Initiative



2019 Steering Committee Meeting

Regional, State, and Local Priorities

Strong communication and partnership pays off

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

Midwest Clean Diesel Initiative



2019 Steering Committee Meeting

Looking to the Future of DERA

- Continue to implement competitive grants, rebate programs, state allocations through at least 2021, potentially through 2024
- MCDI experience: can and does help guide national approach
 - Strong state coalitions foster better communication and information sharing
 - Steering Committee member input helps focus our direction
- Ports and goods movement focus: Region 5 leads the nation
- Evaluate and refine MCDI approach from 2018 experiences into the future

Midwest Clean Diesel Initiative



2019 Steering Committee Meeting

State Volkswagen Mitigation Programs

- Will continue to offer format for discussion, sharing expertise
- Will continue to offer our knowledge if asked
- Encourage states to explore DERA option to expand program capabilities



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>

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2019 Steering Committee Meeting