

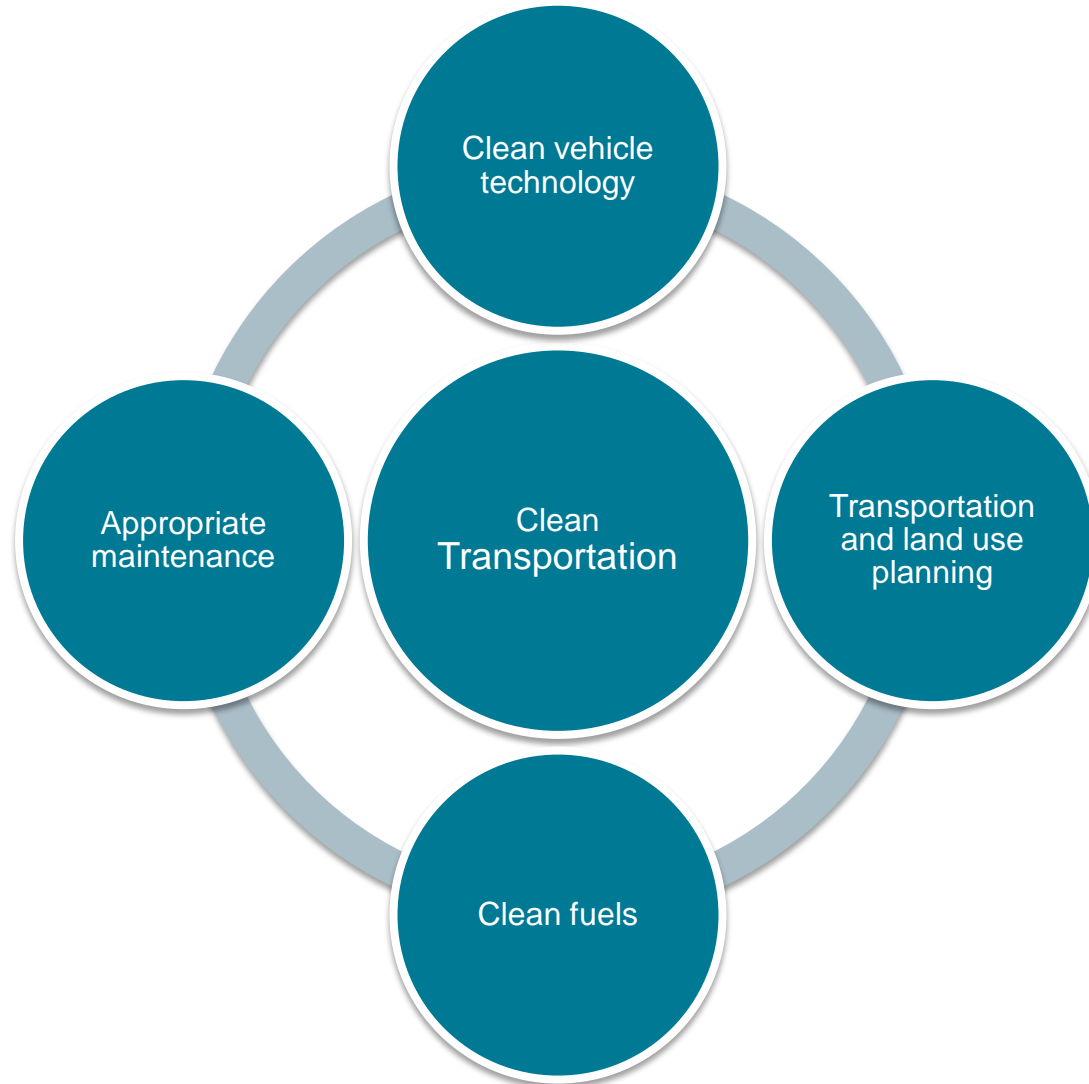
Best Practices for Diesel BC Control

Ray Minjares

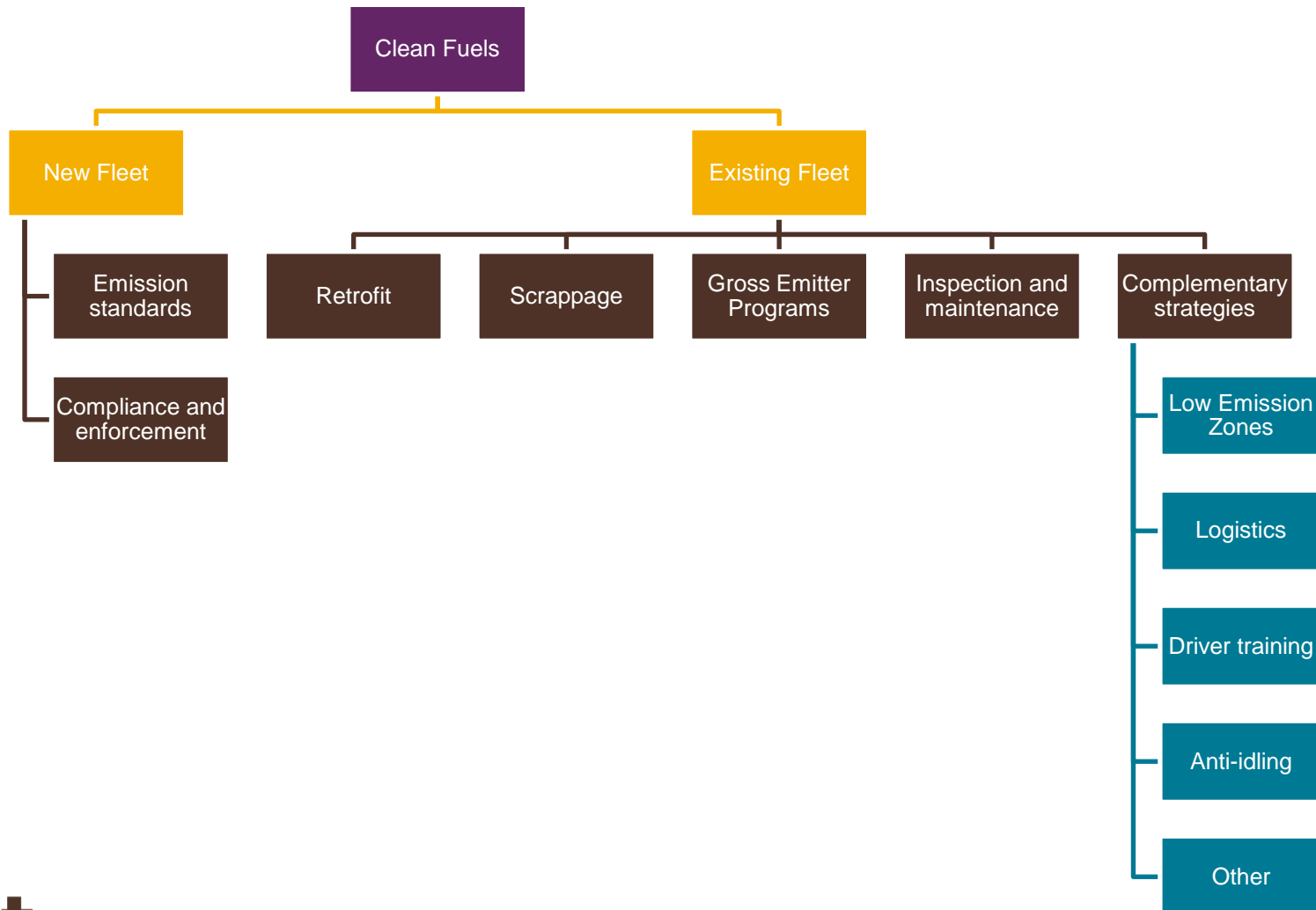
US EPA Region 9
San Francisco, CA
14 Nov 2012



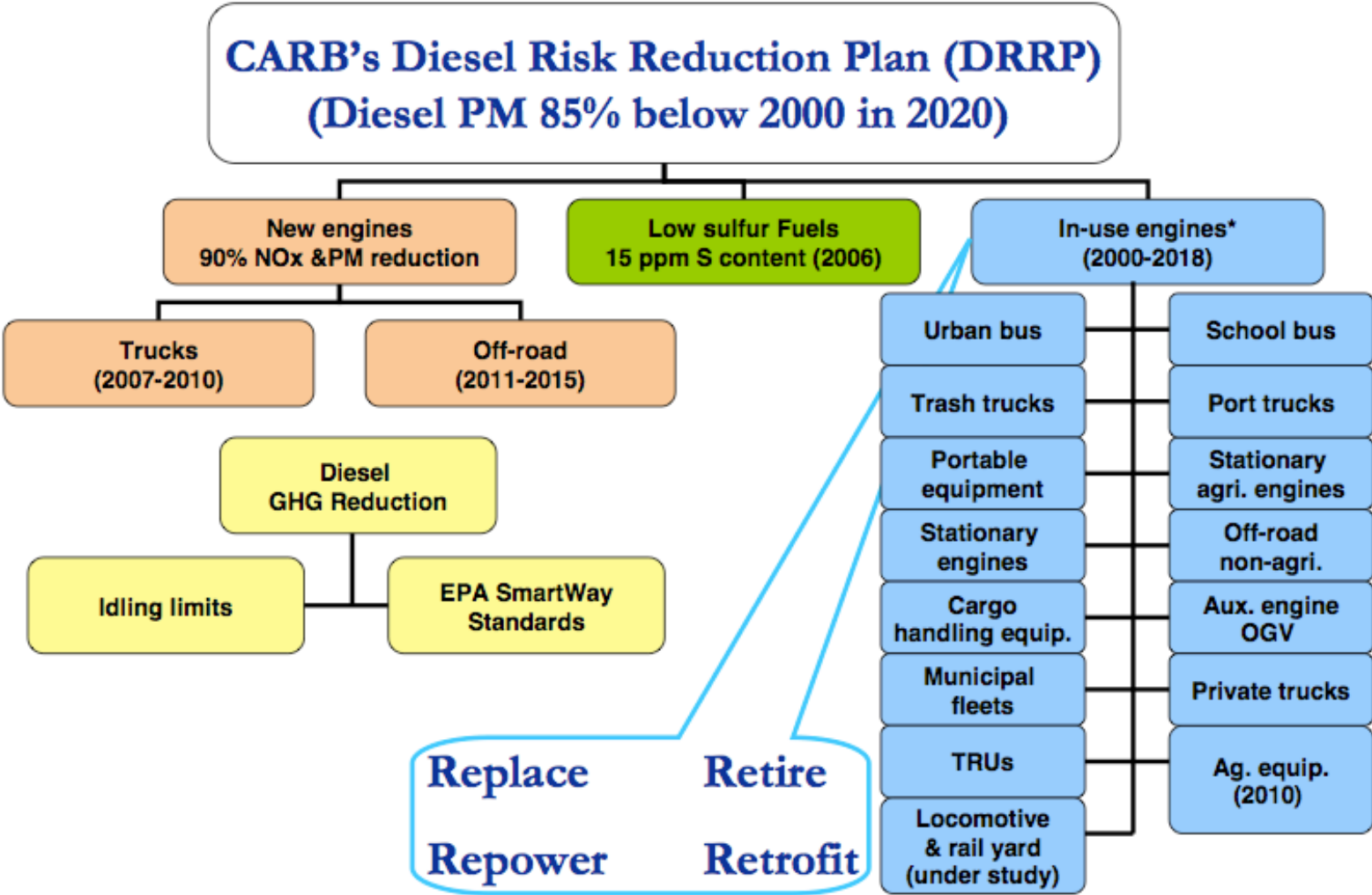
Elements of a comprehensive vehicle pollution control strategy



Framework for a BC Control Program

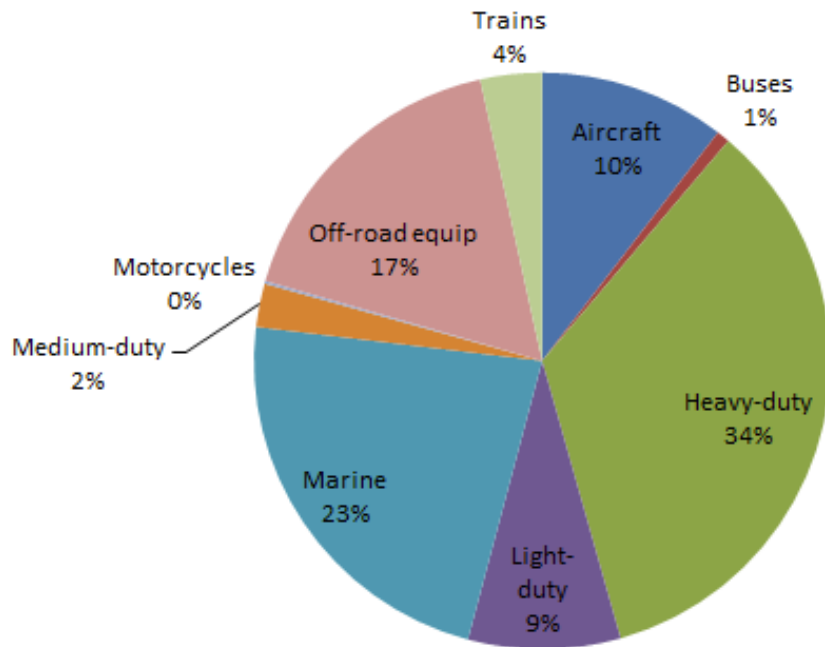


The California Model

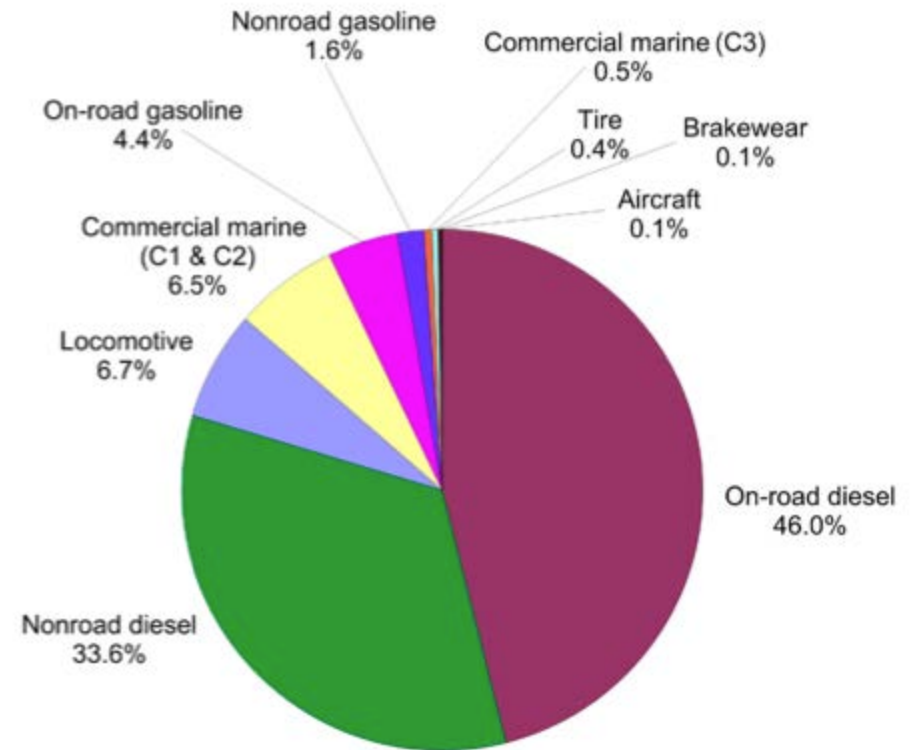


Major mobile BC emission sources in California and United States

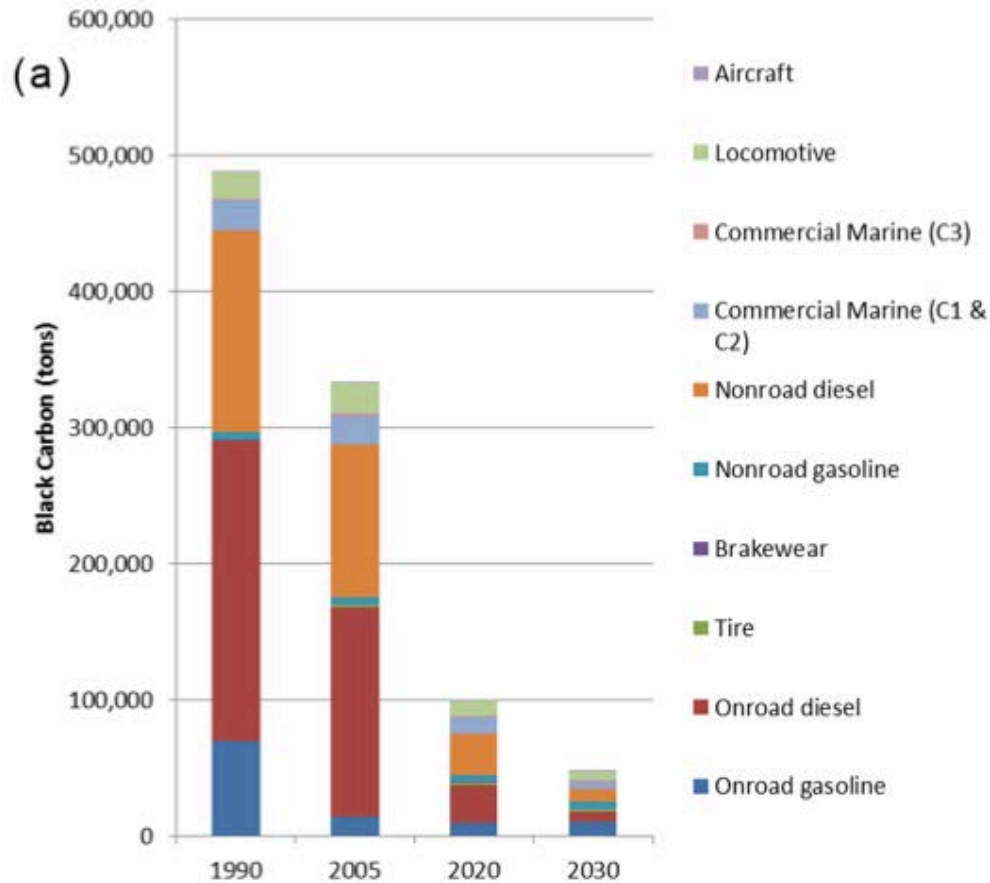
California, 2006



United States, 2005



US Mobile Source BC Control



- 15ppm ULSD
- US 2007 & 2010 on-road diesel rule
- US 2004 Nonroad diesel rule
- 2008 locomotive/marine rule
- National Clean Diesel Campaign
- SmartWay Partnership

Final Thoughts

- Best practices are here in CA and US
- Explore synergies between CA and US approaches to in-use fleet
- Focus attention on marine BC, especially large vessels
- Consider more regular reporting of BC emissions

Thank you

- Ray Minjares
- ray@theicct.org
- +1 415.202.5748