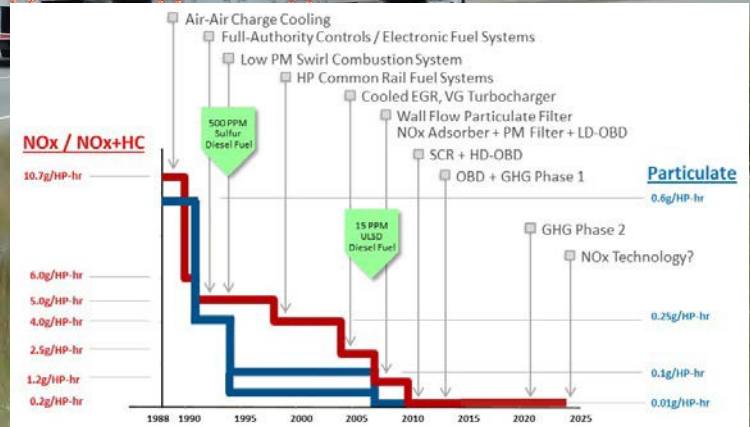
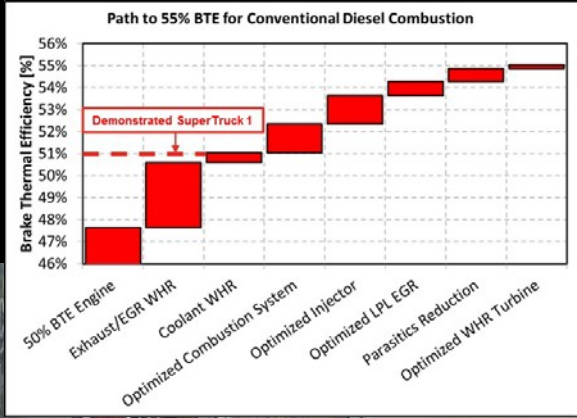
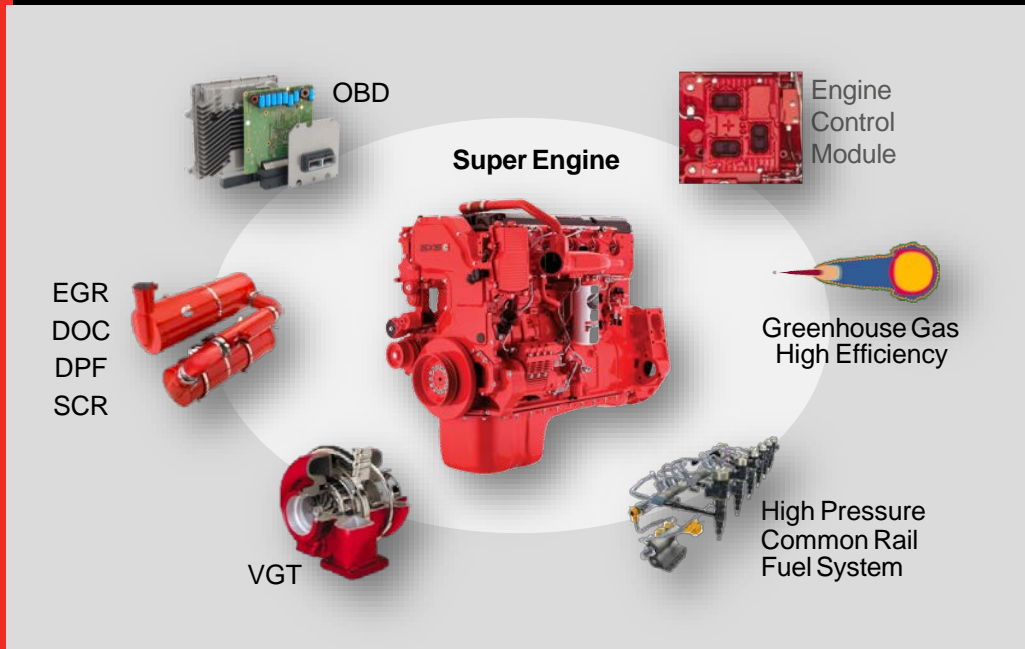




- Tim Frazier
- Advanced Engineering
- Cummins Research & Technology

Technical Approach to Engine High Efficiency and Low Real World NOx

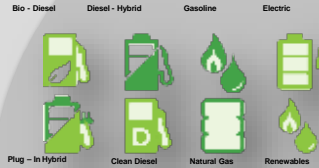


Future Powertrain Systems

Powertrain Integration



Connected Systems



Energy Diversity

electrification,
natural gas, gasoline



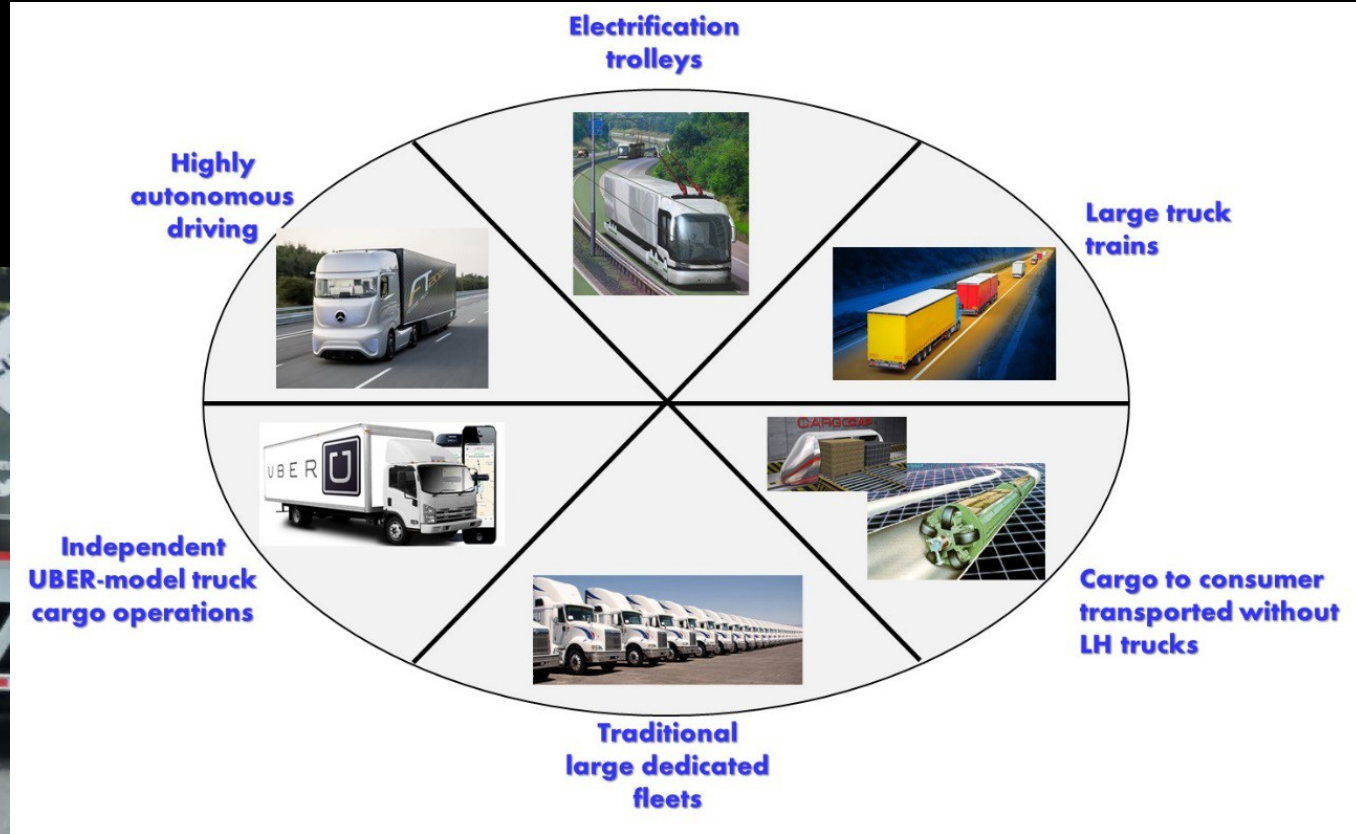
Intelligent Transportation System



Safety



Possible Future Variants to Commercial Freight Transportation



Tailwinds and Headwinds

Opportunities



Barriers

