







## eHighway

- Three different architectures
  - Diesel hybrid



– CNG hybrid







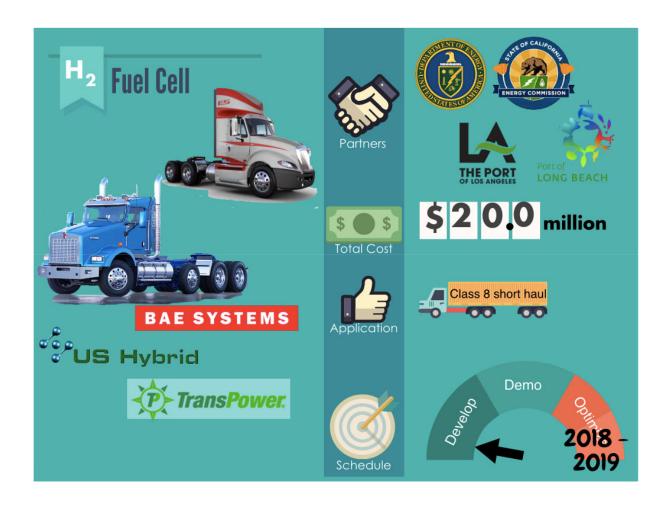
- Trucks can be used on or off catenary
- Investigate local and regional applicability











## DOE ZECT 2

- Zero Emission Cargo Transport
- SCAQMD applied and won \$10M DOE grant
- Criterion for technology providers
  - Must have fuel cell bus experience
  - ➤ Must partner with major truck manufacturer
  - Three technology providers

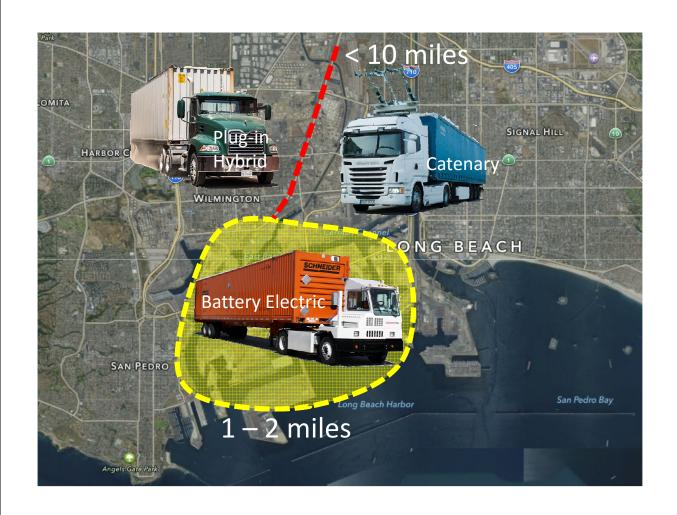






## Technologies

	Transpower	US Hybrid	BAE
FC Bus Experience	ISE BC Transit	UTC assets	American FCB Sunline
Fuel cell (kW)	Hydrogenics 2 x 33	PureMotion 80	Ballard 100
H2 (kg)	25 - 30	20	30
Batteries (kWh)	125	26	100
Truck Manufacturer	International	Kenworth	Kenworth





## Takeaways

- Criteria pollutant/toxics reductions needed now
- Portfolio of architectures/infrastructure must be examined
- The same trucks can be used in a variety of dutycycles (e.g., yard, short-haul)
- Need national markets to accelerate turnover





