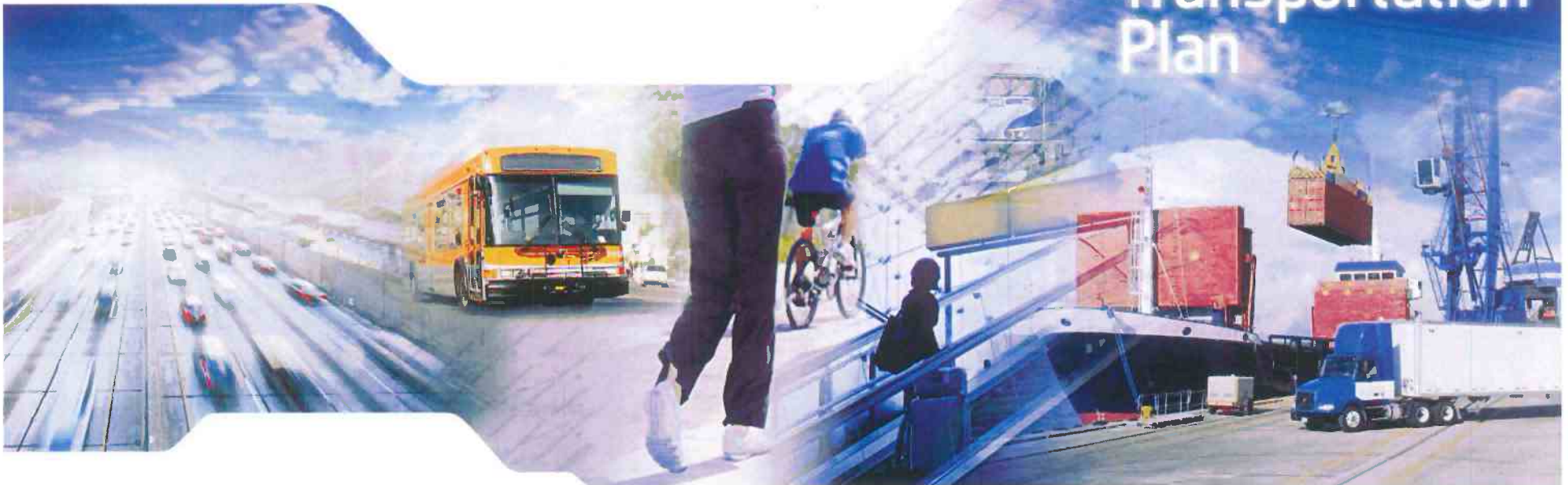




GATEWAY CITIES

# Strategic Transportation Plan



## Zero-Emission Truck Commercialization Study

**Presented to:** I-710 Corridor Advisory Committee

**Presented by:** CALSTART

May 16, 2013

*Creating a world-class multimodal transportation system*



## ZE Truck Commercialization Study Goal

- Describing the types of trucks and infrastructure necessary for an operational Zero Emission Freight Corridor in 2025
  - Truck Technologies
  - Fuels & Infrastructure
  - Business Case(s)





## ZE Truck Commercialization Study Tasks

- Conduct Background Research and Vehicle/Corridor Parameter Definition
  - Truck Technology Readiness
  - Infrastructure Dependencies
- Collect Key Stakeholder Input
  - Users, OEMs/Suppliers, Stakeholders
  - Define Key Performance Parameters for the trucks
- Develop Business Case Analyses
  - Combinations of viable technologies and fuels
  - Some approaches to addressing the hurdles (costs, development)



## ZE Truck Commercialization Study Deliverables

1. Updated Technologies, Challenges & Opportunities Report (from 6/2012)
  - Current status and readiness
2. Key Performance Parameters Document
  - For OEM development and system planning
3. Development and Demonstration Plan
  - Pathway from prototypes to production vehicles
4. Business Case Analysis Report
  - Basic ranges of costs and options





## ZE Truck Demonstration Programs Underway

- CEC Funded – Starting now through 2016 with in-use demonstrations
- Plug-in Diesel-Electric Hybrid Vehicle (PHEV)
  - Volvo Drayage
- Range Extended Electric Vehicle (REEV)
  - Artisan Turbine, Vision Fuel Cell
- Full Battery Electric Vehicle (BEV)
  - Transpower, Artisan
- AQMD Catenary Demonstration, Houston REEV Demonstration



## Approximate Schedule

Task	4/13	5/13	6/13	7/13	8/13	9/13
1 Background Research			Deliverable #1			
2 Stakeholder Input			Deliverable #2		Deliverable #3	
3 Business Case Analysis						Deliverable #4

