Overview

- Pathways to Zero and Near-Zero Emissions
- California Sustainable Freight Action Plan
Freight is important to California’s economy

Freight-dependent industries account for:
• Over $700 billion, 32% of the California economy (2013)
• Over 5 million jobs, 33% of California jobs (2013)

California freight projections for 2025:
• 25% increase in volume
• 60% increase in commodity value

• Projections Source: Freight Analysis Framework Data by U.S. Department of Transportation, 2012
2/3 of Freight Transport Within California

- 10% From
- 5% Through
- 67% Within
- 18% To

Source: Freight Analysis Framework Data by U.S. Department of Transportation, 2012
Air Quality Objective

Zero emission equipment everywhere feasible, and near-zero emission equipment powered by clean low-carbon renewable fuels everywhere else.
Pathways to Zero and Near-Zero Emissions

- Immediate actions
- Near-term measures
- Vision for the future
- Broad-based approaches
Immediate Action: Incentives

Cleaner equipment funded in 2015

• 1,470 Total vehicles and equipment
• 10 Tons per year of PM emissions reduced
• 980 Tons per year of NOx emissions reduced
Immediate Action: Enforcement

• Expanding Presence
  - U.S. EPA Region 9 enforcement participation
  - Outreach to disadvantaged communities

• Building Partnerships
  - Statewide enforcement staff EJ Liaisons and EJ task forces

• Goals
  - Understand/address community concerns
  - Report back to community on actions
Broad Based: Data Collection for Freight Hubs

• Need to continue reducing health risk near freight hubs
• Freight sector vs. freight facility
• Will inform which additional strategies are pursued, including efficiency improvements, amendments to source-specific rules, freight strategy
• Expected industry outreach and survey release in Summer 2016
Potential Components

• Identify best practices for the siting, design, and operation of freight facilities that results in minimizing exposure to air toxics

• Identify and recommend best/cleanest engine and equipment technologies for construction and maintenance of freight facilities

• Assist in determining recommended air quality mitigation measures for new freight facilities/projects
California Environmental Quality Act (CEQA)

- ARB’s ongoing efforts to continue reducing health risk near freight hubs through the CEQA process

- Issued comments on two large freight projects:
  - World Logistics Center
  - Tenth Avenue Marine Terminal
Governor’s Executive Order B-32-15: California Sustainable Freight Action Plan

State agencies, in consultation with stakeholders, to develop plan by July 2016:
• Targets for efficiency, zero emission technology, and economics
• Potential actions to advance State objectives
• Corridor-level freight pilot projects
Freight Action Plan Stakeholder Engagement

- Kicked off public process at the California Freight Advisory Committee (CFAC) meeting in July, 2015, followed by a meeting and Webinar in October 2015 and a CFAC meeting in February 2016
- Workshops held statewide in January/February 2016
- The multi-agency State partners will continue to seek input from stakeholders, including the California Cleaner Freight Coalition, through meetings, conference calls and public events
Framework of Action Plan

• A long-term **vision** for California’s future freight transport system
• **Guiding principles** to achieve the vision and prioritize projects for funding
• **2030 targets** to guide State progress
• **Agency actions** to help meet the 2030 targets
• Corridor-level **pilot projects** to demonstrate an integrated approach across agencies
Relation to Other Plans
Possible Actions to Support 2030 Freight Targets

Action concepts the agencies are considering over the next five years:

- Advanced Technologies
- Freight and Fuel Infrastructure
- Alternative and Renewable Fuels
- System Efficiency
- Freight Facilities and Hubs
Freight Efficiency “Think Tank”

- Convened by Caltrans
- Chaired by Dr. Sperling
- Participants: freight industry, academics, advocates, government
- Task: Examine and identify broad-based efficiency strategies to incorporate into the California Sustainable Freight Action Plan
Freight Pilot Project Objectives

- Measureable progress towards freight targets within a 2030 timeframe
- System transformation potential
- Opportunity for integrated State agency support
- Scalability
Potential Freight Pilot Projects

• Food Consolidation and Distribution Hub (N. CA)
• Urban Delivery (Bay Area)
• Dairy Biogas for Freight Vehicles (SJ Valley)
• Advanced Technology Truck Only Lane (S. CA)
• Advanced Technology Truck Fast Lane (Border)
Draft Targets for 2030

- **System Efficiency**: Improve freight system efficiency by 25% by 2030
- **Technology**: Deploy over 100,000 freight vehicles and equipment capable of zero emission operation and maximize near-zero emission freight vehicles and equipment powered by renewable energy by 2030
- **Economy**: Foster future economic growth within the freight and goods movement industry by promoting flexibility, efficiency, investment, and best business practices through State policies and programs that create a positive environment for growing freight volumes, while working with industry to lessen immediate potential negative economic impacts
Draft 2050 Vision

Freight in California is moved on a modern, integrated, and resilient system that continues to support California’s economy and livability. It is transported safely and efficiently by zero emission equipment everywhere feasible, and near-zero emission equipment powered by clean low-carbon renewable fuels everywhere else.
Economic Impacts

• Evaluate potential impacts of freight actions on the California economy, industry sectors, and residents
  o Estimate direct costs and savings
  o Model the macroeconomic impact of the Action Plan on the California economy, California industry, and residents
**Action Plan Timeline**

- **July 2015**: Launch
- **Ongoing**: Freight Advisory Committee Meetings
- **Ongoing**: Efficiency Group Meetings
- **Oct. 2015**: Public Webinar
- **January 25, 2016**: Assembly Transportation Hearing
- **Jan./Feb. 2016**: Public Workshops (9 locations)
- **Spring 2016**: Draft Plan Release
- **May 2016**: Informational Update to Board / Public
- **July 2016**: Final Plan Release