Presentation for Eco-Rapid Transit Board

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What is the Gateway Cities Strategic Transportation Plan?

The purpose of the Gateway Cities Strategic Transportation Plan is to develop a unified, subregional multimodal transportation improvement strategy by Spring 2014.

The Strategic Transportation Plan will foster regional coordination and collaboration among stakeholders, leading to reduced roadway congestion, improved air quality, a stronger economy and better, healthier quality of life within the Gateway Cities.

All transportation modes will be studied together with a focus on demographic analysis, air quality and public health, storm water treatment, goods movement impacts, new technologies, and funding and financing strategies.
What is the benefit of developing the Strategic Transportation Plan?

All transportation modes will be studied together with a focus on:
- demographic analysis
- air quality and public health
- storm water treatment
- goods movement impacts
- new technologies
- funding and financing strategies

The plan will help frame decisions about future transportation infrastructure investments that will be important to the area’s economic development. It will ensure that Gateway Cities achieves local goals and gets useful mobility options and congestion relief benefits in a manner that is cost-effective and environmentally safe.

ACHIEVE LOCAL GOALS

- Reduce Roadway Congestion
- Improve Air Quality & Health
- Strengthen Economy
- Improve Quality of Life
The plan will integrate existing projects, and identify new projects.

Understanding the connections will help to achieve Gateway Cities Transportation Goals.

**PLAN FOR PROGRESS**

- Integrate existing transportation plans & studies
- Refine project ideas & identify new projects
- Develop tools to analyze systemwide interactions

**NEW PROJECTS** in the works:
- MASTER PLAN for ARTERIAL HIGHWAYS
- NEW ARTERIAL HIGHWAYS & SAFETY PROJECTS
- ACTIVE TRANSPORTATION MASTER PLAN
- NEW TRANSIT & PARK-AND-RISE ANALYSIS
- ASSESSMENT of GOODS MOVEMENT & RELATED TECHNOLOGY PROJECTS
- TRUCK ENFORCEMENT

**CORRIDOR STUDIES**

- **I-405 Corridor**
  - Cherry Ave. Interchange
  - MTA Express Lanes
  - Truck Enforcement Site
  - Coordination with OC & SBC COG

- **I-405/SR-91/I-605**
  - Congestion Hot Spots Feasibility Study
  - Project Study Reports

- **I-710 Corridor**
  - DEIR Coordination and Update
  - Freight Corridor
  - I-5 Interchange
  - SR-91 Interchange
  - Truck Enforcement Site

- **I-5 Corridor Improvements**
  - I-105 Alameda St. Interchange
  - SR-710 North Study
  - Arterial Network (Master Plan)

**RAIL, TRANSIT, BIKE & PEDESTRIAN PLANS**

- Rail, Transit, Bike & Pedestrian
  - LOSSAN Rail Corridor & HSR
  - Metrolink Plans
  - Metro Blue & Green Line Plans
  - Park & Ride Lot Expansions
  - ECO/Pacific Electric Transit Corridor
  - Gold Line Extension Alternatives
  - Regional & Local Bus Service
  - Active Transportation

- Goods Movement
  - East West Freight Corridor
  - Technology Plan for Goods Movement
  - Logistics Facilities
  - Gerald Desmond Bridge Replacement

**OTHER SUBREGIONAL EFFORTS**

- **Transportation Technology Deployment**
  - Arterial & Freeway Smart Corridors
  - Freight Data Warehouse
  - Traveler Information
  - Automated Truck Research
  - Truck Enforcement
  - Zero-Emission Truck Corridor

- **Air Quality and Health**
  - Air Quality Action Plan
  - I-710 Air Quality/Health Risk Assessment
  - SB 375 Sustainable Communities Strategy
  - Updated Air Quality Analysis
  - Stormwater Treatment
Rail, Transit & Goods Movement Studies

**RAIL and TRANSIT**
- LOSSAN Rail Corridor & HSR
- Metrolink Plans
- Metro Blue & Green Line Plans
- Park & Ride Lot Expansions
- ECO/Pacific Electric Transit Corridor
- Gold Line Extension Alternatives

**GOODS MOVEMENT**
- East-West Freight Corridor
- Technology Plan for Goods Movement
- SCIG, ICF and other Logistics Facilities
- Gerald Desmond Bridge Replacement
Technology Development Program

Freight Transportation Information System
- Container Moves Productivity Improvement
- Freight Traveler Info Dissemination
- Arterial Smart Corridors
- Truck Enforcement Network System

DATA WAREHOUSE
- Automated Truck Research

TECHNOLOGY PROJECTS
- Freight TIS and Data Warehouse
- Freight Traveler Information Dissemination
- Arterial Smart Corridors
- Freeway Smart Corridors
- Automated Truck Research
- Container Moves Productivity Improvement
- Truck Enforcement Network System

- Dispatch managers will have access to freight and traveler information.
- Freight drivers will know of traffic conditions at the port before they start their journey.
- Risk to traffic planners will have access to more accurate information than ever before.
- Third-party vendors can use the data from the data warehouse to create apps for their customers.
- Navigation and traffic data vendors will have access to more accurate and timely information.
- An enhanced arterial network creates a safer environment.
- Planning and traffic data vendors will have access to more accurate and timely information.
Further Development of Other Technical Projects

The STRATEGIC TRANSPORTATION PLAN for Gateway Cities is proceeding in 2013/14 with the following goods movement elements:

- Zero Emission Truck Commercialization Study – 2013
- Begin design of Gateway Cities Goods Movement Technology Projects – 2013
- Coordinate with MTA Zero Emission Truck Collaborative – 2013/2017
- Coordinate possible Zero Emission Freight Demonstration Project – 2013/2014
- MAP-21 Coordination – ongoing
- Complete I-710 EIR/EIS – 2014/15

CATENARY DESIGN

Truck-catenary navigation systems that are now deployed internationally can be scaled for the I-710 concept. Battery-operated trucks will be able to charge while they are on the Freight Corridor, thus extending their range to cover pick-ups and deliveries in the L.A. region.

COMMERCIALIZATION STUDY FOR ZERO EMISSION TRUCKS

A 2012 study, currently being updated, indicated that development of a zero emission heavy duty vehicle or vehicle system for the I-710 freight corridor is feasible by 2035 with no major technological barriers if the project goes through a series of critical stages recognized as a "commercialization process." Competing technologies must be evaluated, tested, proven and commercialized with stakeholders transitioning to a new structure with zero emissions as a critical component. A new set of market mechanisms must be developed and adopted in order to achieve a zero emission corridor. The updated commercialization study will be completed in 2013.
Gateway Cities Technology Plan for Goods Movement

Truck Enforcement Network System (TENS) Map Concept Plan

**Benefits of TENS:**
- Ease of Use
- Safer Drivers
- On Time Delivery
- Less Air Pollution
- Minimized Exiting/Entering
- Improved Homeland Security
- Improved Safety
- Less Wasted Time
- Longer Pavement Life
- Less Wasted Fuel
- Longer Bridge Life
- Less Wasted Breaks
- Less Accidents
- Less Congestion from Accidents

**Legend:**
- Commercial Vehicle Enforcement Facilities
- Virtual Mainline Screening/Enforcement
- Virtual Ramp Screening/Enforcement
- Pull Off for Enforcement

**Truck Origin/Destination Types:**
- Long Haul Trucks
- Local Trucks
- Port Trucks
New Tools for the Project

NEW TOOLS for the project:

- 3-TIER TRAVEL DEMAND & SIMULATION MODEL
- AIR QUALITY PROJECTION MODEL
- TRANSPORTATION TECHNOLOGY DEVELOPMENT
- I-710 ZERO EMISSION FREIGHT CORRIDOR DEVELOPMENT STUDY
- FUNDING/FINANCING MODEL & STRATEGIES

3-TIER MODEL Scenario Analysis

- Develop performance measures
- Develop system improvement scenarios
- Run models to evaluate improvement scenarios
- Refine & prioritize investments
- Can be used by cities to plan for the future
How will the Strategic Transportation Plan be funded?

**FUNDING/FINANCING STRATEGIES** to be used:
- IDENTIFY FUNDING SOURCES
- DEVELOP CASH FLOW & FINANCING MODEL
- TARGET FUNDING AND FINANCING OPTIONS

A detailed Finance Plan will be developed for projects in the Gateway Cities area, including a viable strategy to position GCCOG high-priority projects for successful implementation.

What is the schedule?

**SCHEDULE:**
COMPLETE STRATEGIC TRANSPORTATION PLAN by SPRING 2014
What's in it for the Gateway Cities?

- Regional Collaboration & Coordination
- Establish Project Interrelationships & Finalize Improvements
- Continue to Develop Subregional Air Quality Model
- New Traffic Model for use by Gateway Cities Jurisdictions
- Updated Demographic Analysis & Assessment
- Goods Movement & Industry Coordination & Collaboration
- Cutting Edge Technology Designs & Plans, Including Zero-Emission Trucks
- New Active Transportation & Highway Master Plans
- Storm Water Treatment Options
- New Funding & Financing Strategies
THANK YOU.

QUESTIONS?

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