

California's Transportation Challenges ... and Some Freight Solutions

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Faster Freight-Cleaner Air

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Long Beach, CA

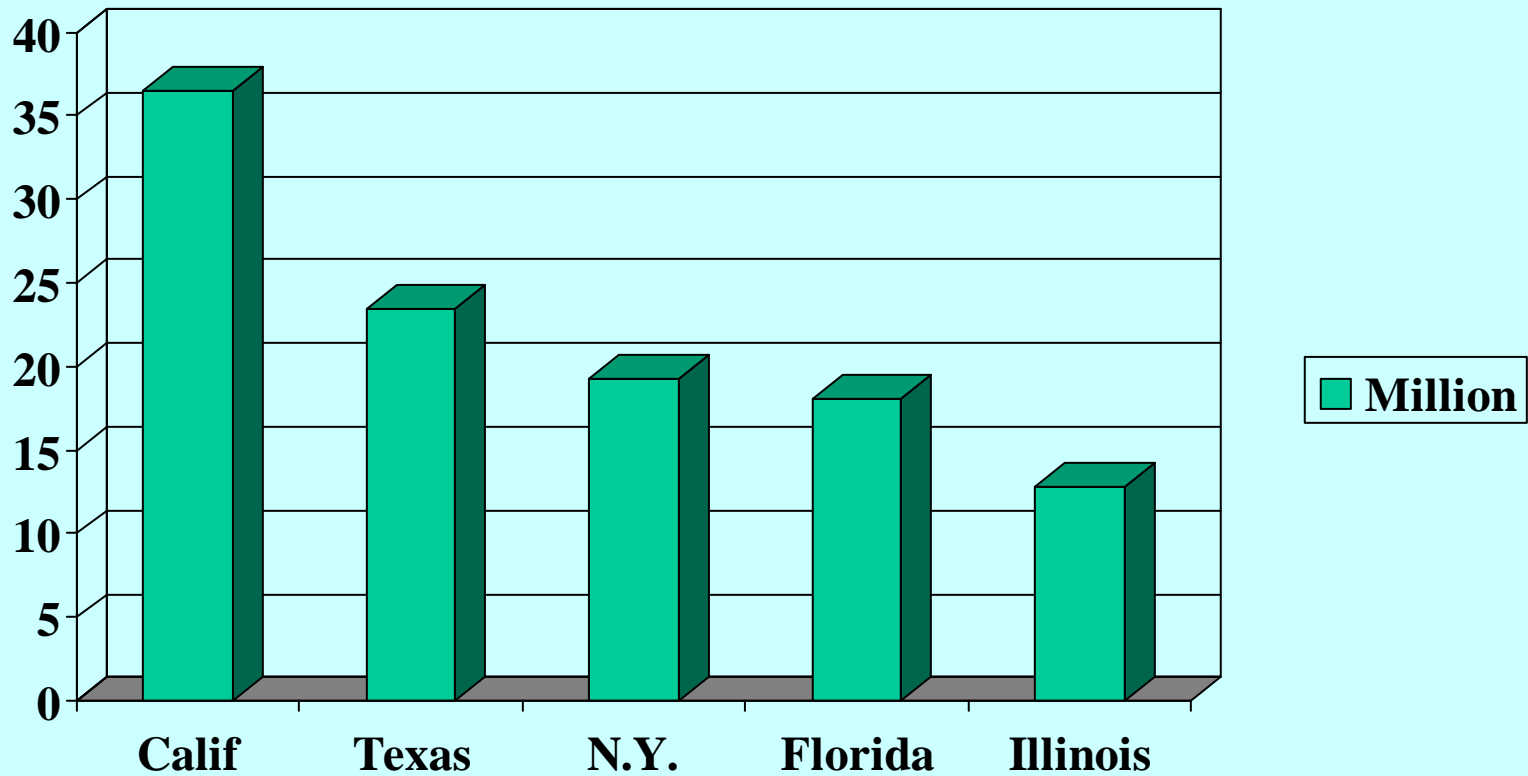


CA is #1 in Freight Traffic

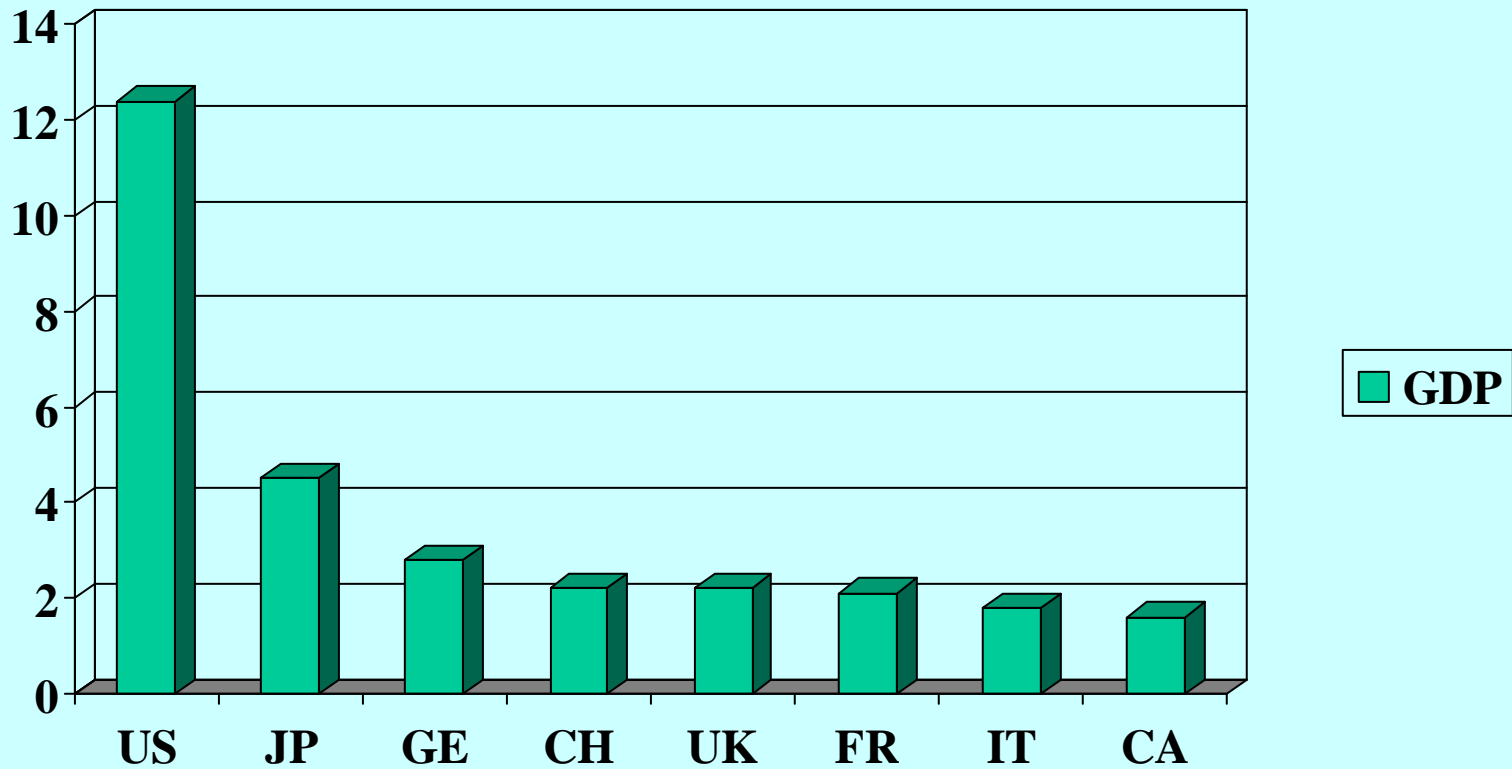


Calif. Has Largest Population

(37 Million = 12% of U.S.)



Calif. Economy is 8th Largest in World



Calif. is #1 in Congestion!

Total Delay (M-hrs.)

<u>Los Angeles/OC</u>	491
New York	384
Chicago	203
Dallas-Ft. Worth	152
Miami	150
Atlanta	132
<u>San Francisco</u>	130
<i>... etc.</i>	

Delay per Traveler

<u>Los Angeles/OC</u>	72
<u>San Francisco</u>	60
Wash. DC	60
Atlanta	60
Dallas-Ft. Worth	58
<u>San Diego</u>	57
Houston	56
Detroit	54
Orlando	54
<u>San Jose</u>	54
Denver	50
Miami	50
<u>Riv./San Ber.</u>	49

Source: TTI-2007

CA is #1 in Air Pollution

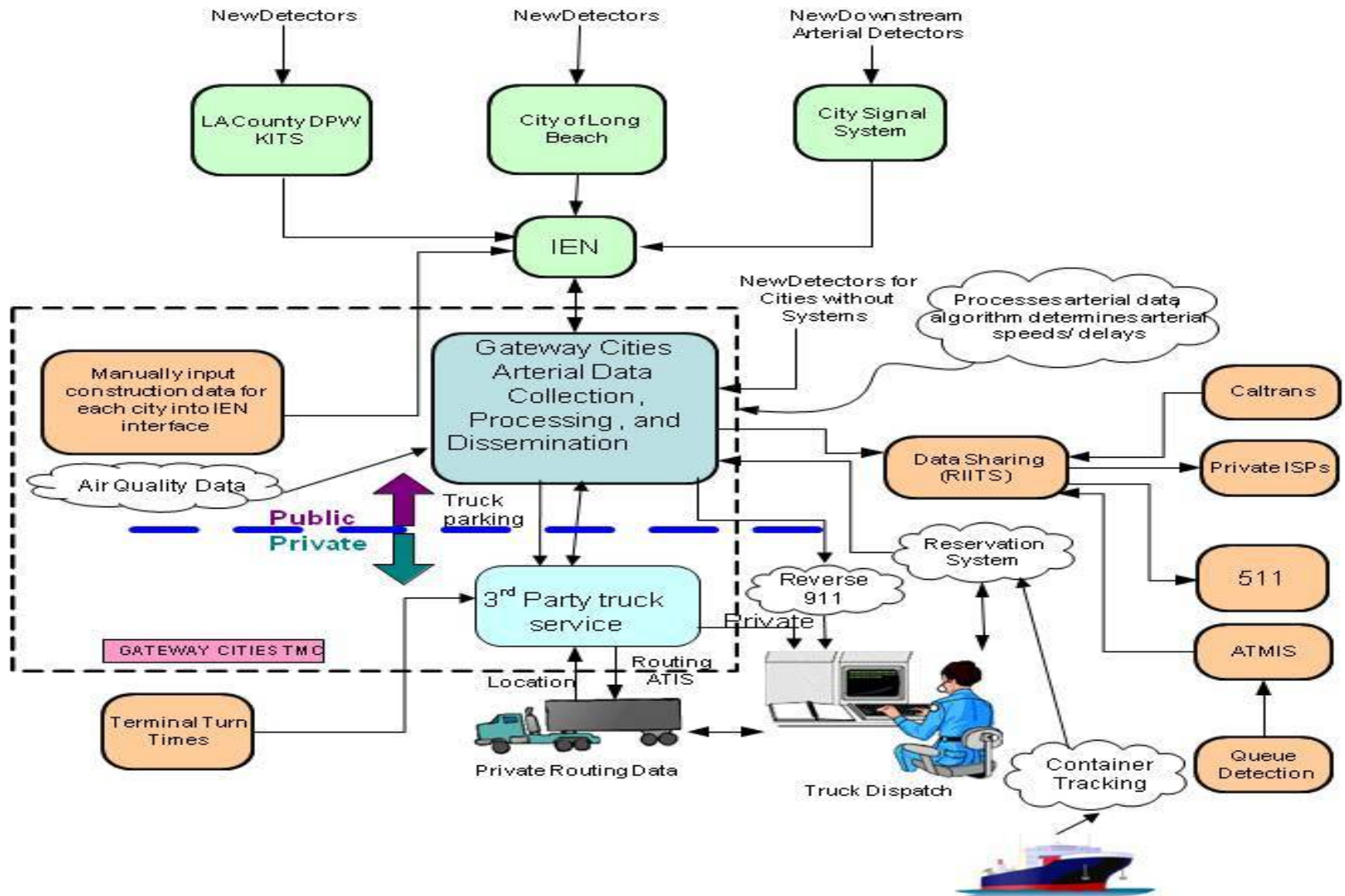


So what have we done about it?

Nation's Largest Investment in Infrastructure Technology:

- **Freeway Traffic Management**
- **Arterial Traffic Management**
- **Traveler Information**

Can Technology Make Freight Faster?



Gateway Cities Council of Govts. ITS Plan for Freight

Physical Infrastructure

- 1. Freeway Detection Infrastructure**
- 2. Arterial Infrastructure.**

Information Collection & Dissemination

- 3. Arterial Travel Times**
- 4. Queue Detection / Terminal Turn Times**
- 5. Truck Fleet Communications Program**
- 6. Truck Fleet Data Collection/Agreements**
- 7. Truck Parking Coordination**
- 8. Port Reverse 911 Emergency Call System**

Gateway Cities Council of Govts. ITS Plan for Freight

Real-Time System Management

- 9. Goods Movement Scheduling System**
- 10. Vehicle Enforcement Strategies**
- 11. Congestion Pricing Initiatives**
- 12. Goods Movement Transportation Management**
- 13. Performance Monitoring System**

Public-Private Coordination & Governance

- 14. Integration and Policy Task Force**

We invite comments on ITS Plan. (See handout.)



TECHNICAL MEMO

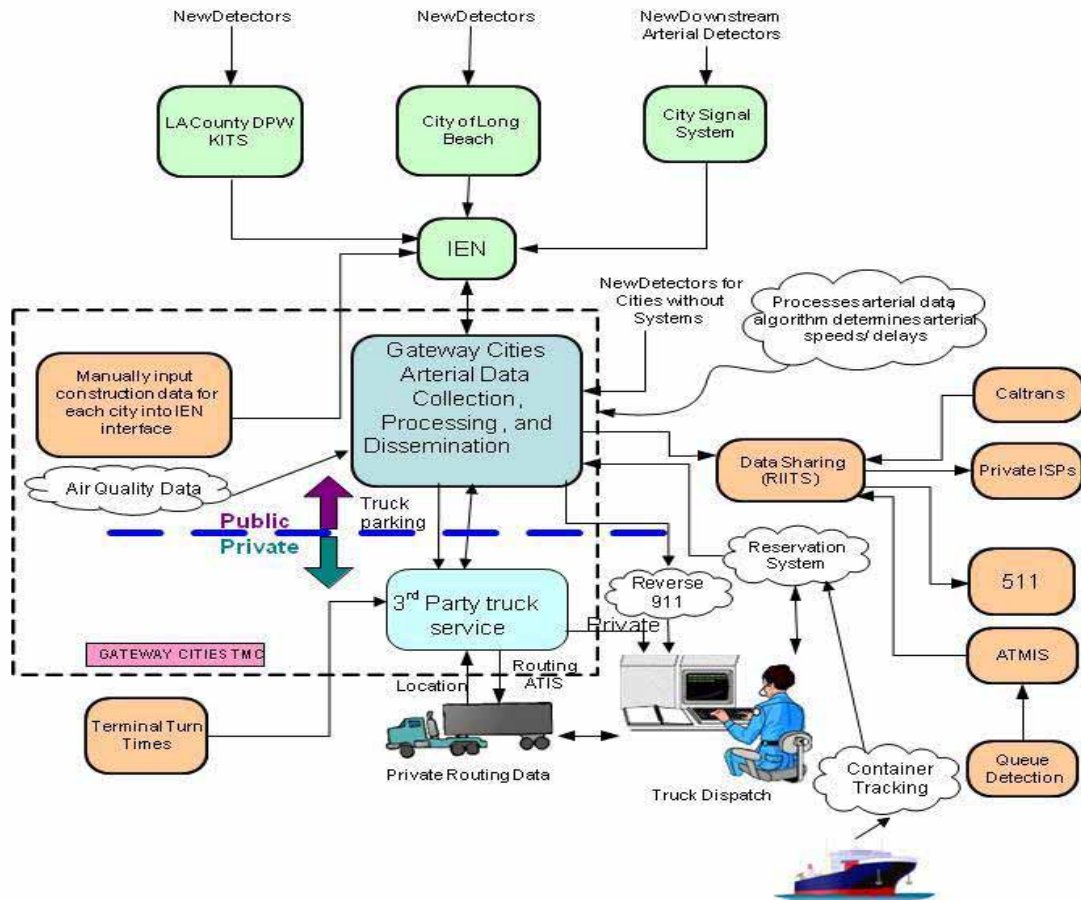
To: USDOT Colleagues, and ITS & Freight Professionals in Southern California

From: **Jesse Glazer** – FHWA; ITS Engineer for Southern California

Date: December 2008

Subject: **Gateway Cities ITS Integration Plan for Goods Movement**

In response to the economic benefits and transportation challenges generated by the Ports of Long Beach and Los Angeles, an “*ITS Integration Plan*” was recently developed by the Gateway Cities Council of Governments (Gateway COG). The ITS Plan identifies *near-term* solutions based on “Intelligent Transportation Systems” technology. The result is a dozen ITS projects that have the potential to improve freight operations, reduce traffic congestion, improve air quality, and save energy. These projects can be implemented in 1-5 years, and can deliver benefits while long-term capital solutions are planned and developed separately. A diagram depicting how the projects would work together is shown below, followed by a description on the next page.



(over)

The ITS projects were defined in response to public and private-sector needs for goods movement, according to the following functional areas:

Physical Infrastructure

1. **Freeway Detection Infrastructure** – Install speed and volume sensors near the ports.
2. **Arterial Infrastructure** – Install speed/volume sensors on surface streets near the ports.

Information Collection & Dissemination

3. **Arterial Travel Times** – Process street sensor data to calculate travel times.
4. **Queue Detection / Terminal Turn Times** – Measure delay inside the ports.
5. **Truck Fleet Communications Program** – Traffic & other information to/from trucks.
6. **Truck Fleet Data Collection/Agreements** – Use data from existing trucking systems.
7. **Truck Parking Coordination** – Reduce unsafe/illegal truck parking.
8. **Port Reverse 911 Emergency Notification Call System** – Response coordination.

Real-Time System Management

9. **Goods Movement Scheduling System** – Container tracking & pickup coordination.
10. **Vehicle Enforcement Strategies** – Systems and Sites Study for safety, weight, security.
11. **Congestion Pricing Initiatives** – Financial measures to reduce congestion.
12. **Goods Movement Transportation Management** – Coordination of the above functions.
13. **Performance Monitoring System** – Monitoring results & benefits from these actions.

Public-Private Coordination & Governance

14. **Integration and Policy Task Force** – Stakeholder guidance on deployment & operations

Some of these projects are ready for immediate implementation, while others require further analysis to determine costs, benefits, and feasibility. Some federal funding is available now, and additional funds are being sought. Gateway COG will lead the next steps, with technical assistance from FHWA and Caltrans. **I invite your comments or suggestions on this Plan.**

The *ITS Integration Plan for Goods Movement* is available for electronic download at: ftp://fhwaftp.fhwa.dot.gov/CA/Jesse-Glazer/Gateway_Cities/ (User Name=caguest and Password=caguest). Paper copy is available from Gateway COG at (562) 663-6850 or info@gatewaycog.org.

The project team was led by Caltrans and the Gateway COG, and included participation by a wide range of stakeholders from the public sector as well as the private sector (trucking companies, railroads, etc.). FHWA and Caltrans provided financial and technical support. The consultant was Kimley-Horn & Associates.

Please send your comments or suggestions to: Jesse.Glazer@fhwa.dot.gov . I would especially like to hear from you if you know of any similar projects elsewhere.