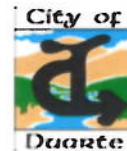


Connected Corridors I-210 Pilot

Project Charter

The purpose of this Project Charter ("Charter") is to establish a mutual understanding concerning the Connected Corridors I-210 Pilot in the San Gabriel Valley ("Project") and define the roles and responsibilities of the Core Stakeholders for planning and implementing the initial phase of the Project. The Core Stakeholders include the California Department of Transportation (Caltrans); the Los Angeles Metropolitan Transportation Authority (LA Metro); the LA County Department of Public Works; the cities of Pasadena, Arcadia, Monrovia, and Duarte; UC Berkeley/PATH; the Southern California Association of Governments; the San Gabriel Valley Council of Governments; and Foothill Transit. Additional stakeholders may be included later in the Project, and additional agreements will cover future Project phases.



Overview

Background

California is a dynamic state that continues to be a leader in many important areas, including agricultural production, innovative technology, miles of highways—and traffic congestion. According to the California Department of Transportation's Mobility Performance Report for 2013, Californians lost over 100 million hours because of congestion. Los Angeles County has six of the top ten most congested freeways in the State, with I-210 ranking ninth overall. The State exemplifies many of the problems of transportation systems around the world: It is a highly successful economy with a transportation infrastructure less and less able to deliver the mobility and accessibility our constituents and businesses need.

The Connected Corridors program is a new initiative for Caltrans and a focus for both Headquarters and the local Caltrans Districts. Connected Corridors is an Integrated Corridor Management (ICM) strategy that looks at an entire transportation network and all opportunities to move people and goods in the most efficient manner possible—including freeways, arterials, transit, parking, travel demand strategies, agency collaboration, and more—to ensure the greatest potential gains in operational performance will be achieved. Coordinating with other agencies and improving network-wide performance through collaboration with local stakeholders is critical to the success of Connected Corridors.

Project Purpose

Connected Corridors is a collaborative effort led by Caltrans to research, develop, test, and deploy a framework for corridor transportation challenges that are managed by the State and its partners. The program's aim is to fundamentally change the way the State manages its transportation challenges for years to come. Starting with a pilot on I-210 in the San Gabriel Valley, Connected Corridors will expand to additional corridors throughout

California over the next ten years. Each Connected Corridors project will be developed in collaboration with local transportation agencies, the county, the cities in the pilot area, and other stakeholders. The I-210 Pilot will connect the individual stakeholders and work to address congestion for the betterment of the entire network.

I-210 Pilot Boundaries

The I-210 Pilot is located on a 22-mile section of Interstate 210 (I-210) in the San Gabriel Valley in Los Angeles County. It extends from the SR-134/I-210 interchange near downtown Pasadena to the Foothill Boulevard interchange in La Verne. This is an urban section of the I-210 and includes the most heavily congested sections of the freeway (see Figure 1 below). Due to the magnitude of the Project, it will be divided into two phases: The first phase will be between just west of the SR-134 and just east of the I-605 in the cities of Pasadena, Arcadia, Monrovia, and Duarte. The second phase will extend the Project from I-605 to Foothill Boulevard in the cities of Irwindale, Azusa, Glendora, and San Dimas. There are approximately 12 east/west major arterials in the corridor. In addition to the north/south freeways, SR-57 and I-605, there are approximately 12 north/south arterials. Additionally, there is excellent transit service in the corridor, including commuter and light rail, commuter express and rapid buses, regional and local bus networks, and Dial-a-Ride service.



Figure 1: I-210 Pilot Phase 1

Program Vision, Goals and Objectives

Vision: *The Connected Corridors program, with a consortium of partners, will utilize new paradigms in cooperative traffic management to more effectively move vehicles, people, and goods.*

Goals and Objectives:

- Improve mobility, travel-time reliability, and system efficiency, and decrease congestion in California's most congested corridors
- Improve the availability and quality of data characterizing travel conditions within the corridor
- Improve the use of existing capacities across all transportation modes and routes to increase vehicle, person, and goods movement
- Deliver timely, accurate, and reliable multi-modal information to transportation system users, allowing them to make informed choices regarding departure time, mode (for travelers), and route selection

- Improve the safety of the corridor
- Engage corridor stakeholders to create an environment for mutual cooperation, including sharing knowledge and developing working pilots, as well as researching and resolving key issues
- Systematically integrate cross-jurisdictional operations
- Address and fundamentally change the way the State of California manages its transportation challenges by fostering positive, collaborative, ongoing corridor network management practices
- Demonstrate Project effectiveness that can lead to additional phases and funding and measure pilot performance outcomes to help future transportation performance-based decision making in the state and across the U.S.

Key Performance Measures

Key performance measures for the following areas will be developed and tracked for the pilot:

- Mobility – Moving people and freight
- Reliability – Travel time predictability
- Safety – Reduce collisions, injuries, and fatalities
- Productivity – Minimize bottlenecks or hot spots that reduce flow rates
- Emissions and fuel consumption – Reduce greenhouse gas (GHG) emissions

Core Stakeholders' Roles and Responsibilities

Collaboration among the I-210 Pilot stakeholders is the key to the Project's success. Core Stakeholders and their primary role are listed below. Additional roles and responsibilities will be defined in a Memorandum of Understanding (MOU), which will be executed at a later date.

The Core Stakeholders agree to the following as signatories to the Connected Corridors I-210 Pilot Project Charter:

- Participate in regularly scheduled meetings, conference calls, workshops, and planning sessions as part of the team and notify the team of any personnel changes
- Review and provide timely comments on Project documents, reports, deliverables, and playbooks
 - Of particular importance is the review and approval of the Concept of Operations that was released at the end of February 2015
- Notify the Project team of significant changes being considered to data, signals, transit routes, IEN, RIITS, signal timing, etc. that potentially impact corridor and/or arterial operations so that all stakeholders are informed and can make adjustments for the betterment of the overall corridor
- Provide Letters of Support for Project funding and promote the I-210 Pilot with local and regional officials, as appropriate
- Seek funding for local assets (and notify the Project team), as applicable
- When possible, collect data and monitor corridor conditions within the agency/jurisdiction
- Agree to participate in the development of an MOU that is acceptable to all parties, and work towards execution of the document
- Actively provide input on Project goals and direction
- Implement, as appropriate, follow-on projects defined and developed from the I-210 Pilot Project (for purposes of this Charter, the Core Stakeholders make no financial commitment to fund follow-on projects, but may choose to do so should resources be available and/or allocated)

<i>Core Stakeholder</i>	<i>Primary Contact Person</i>	<i>Primary Role and Responsibilities</i>
Caltrans Headquarters	Nick Compin, Statewide Connected Corridors Project Manager, Division of Traffic Operations	Provide direction; administrative and management oversight; contract compliance and grant management; lead staff for Connected Corridors statewide.
Caltrans District 7	Sam Esquenazi, Connected Corridors Project Manager	Leadership and day-to-day management for the I-210 Pilot; Project management and coordination. Coordinate freeway assets with city and county arterial assets. Grant administrator. Ensure schedule compliance. Convene team meetings, workshops, conference calls, and videoconferences.
UC Berkeley/PATH	Joe Butler, Connected Corridors Program Manager	Management of PATH resources; work with stakeholders to ensure pilot and ICM California's success; responsible for development of the DSS. Research and write grant applications; grant administrator. Consultant oversight. Oversee Systems Engineering process and documents. Manage outreach activities.
LA Metro	Steve Gota, Deputy Executive Officer, Highway Programs	Ensure coordination and inclusion of highway and transit components; coordination with RIITS and the County ITS Architecture. Advise the Project team re: Metro funding and funding availability.
Los Angeles County DPW	Jane White, Senior Civil Engineer, Traffic & Lighting Division; TRAFFIC Section	Provide coordination for the County (and cities that utilize the County) for signal operation and maintenance; IEN coordination. Coordinate County assets with other arterial and freeway assets.
City of Pasadena	Bahman Janka, Transportation Administrator	Coordinate city assets with other arterial and freeway assets so that the system operates as a corridor. Monitor arterial conditions.
City of Arcadia	Philip Wray, Deputy Director of Development Services/City Engineer	Coordinate city assets with other arterial and freeway assets so that the system operates as a corridor. Monitor arterial conditions.
City of Monrovia	Tina Cherry, Director, Community Services/Public Works	Coordinate city assets with other arterial and freeway assets so that the system operates as a corridor. Monitor arterial conditions.
City of Duarte	Rafael Casillas, Public Works Manager	Coordinate city assets with other arterial and freeway assets so that the system operates as a corridor. Monitor arterial conditions.

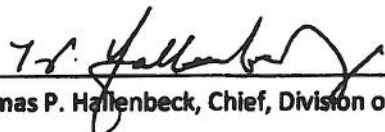
<i>Core Stakeholder</i>	<i>Primary Contact Person</i>	<i>Primary Role and Responsibilities</i>
Metro Rail	Bruce Shelburne, Executive Director, Rail Operations	Coordinate light rail and heavy rail with the other corridor operators; notify corridor stakeholders of rail or parking capacity changes.
Metro Bus	Leonid Bukhin, Director of Engineering, Transit Operations	Coordinate bus operations with the other corridor operators; notify corridor stakeholders of bus or parking capacity changes.
Foothill Transit	Joseph Raquel, Director of Planning	Coordinate bus operations with the other corridor operators; notify corridor stakeholders of bus or parking capacity changes.
Pasadena Transit	Sebastian Hernandez, Transit Division, Pasadena Department of Transportation	Coordinate bus operations with the other corridor operators.
San Gabriel Valley Council of Governments (SGVCOG)	Francis M. Delach, Executive Director	Coordinate with regional transportation projects and functions; notify stakeholders of regional funding availability.
Southern California Association of Governments (SCAG)	Rich Macias, Director, Transportation Planning	Coordinate with regional transportation projects and functions; notify stakeholders of regional funding availability. Ensure coordination with ITS Regional Architecture.
USDOT/FHWA	Jesse Glazer, ITS & Operations Engineer	Ensure I-210 Pilot and Connected Corridors are following federal ICM guidelines.

This Charter shall be effective from the last date of approval and execution of the representatives of the Core Stakeholders and shall be valid for eighteen months (18 months) thereafter or until an MOU regarding the I-210 Pilot Project is fully executed by the Core Stakeholders, whichever period of time is shorter. This Charter may be executed in counterparts, each of which shall be deemed to be one and the same instrument.

The following Core Stakeholder Supports this Project Charter for the Interstate 210 (I-210) Connected Corridors Pilot. (The Core Stakeholders are identified in the table above and each has its own signature page.)

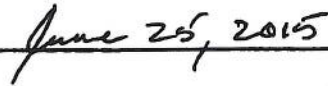
Executed By:

Caltrans Headquarters:



Thomas P. Hallenbeck, Chief, Division of Traffic Operations

Date:



The following Core Stakeholder Supports this Project Charter for the Interstate 210 (I-210) Connected Corridors Pilot. (The Core Stakeholders are identified in the table above and each has its own signature page.)

Executed By:

Caltrans District 7:


for Carrie Bowen, District Director, Caltrans District 7

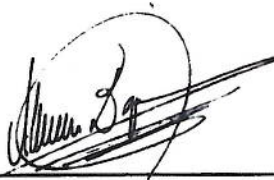
Date:

5/29/15

The following Core Stakeholder Supports this Project Charter for the Interstate 210 (I-210) Connected Corridors Pilot. (The Core Stakeholders are identified in the table above and each has its own signature page.)

Executed By:

UC Berkeley/PATH:



Alexandre Bayen, Director, Institute of Transportation Studies and Principal Investigator,
Connected Corridors

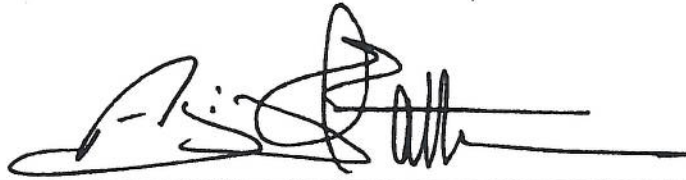
Date:

April 30, 2015

The following Core Stakeholder Supports this Project Charter for the Interstate 210 (I-210) Connected Corridors Pilot. (The Core Stakeholders are identified in the table above and each has its own signature page.)

Executed By:

Los Angeles County
Metropolitan Transportation
Authority (LA Metro):

A handwritten signature in black ink, appearing to read 'Aziz Elattar', written over a horizontal line.

Aziz Elattar, Executive Officer, Highway Programs

Date:

5-12-2015

The following Core Stakeholder Supports this Project Charter for the Interstate 210 (I-210) Connected Corridors Pilot. (The Core Stakeholders are identified in the table above and each has its own signature page.)

Executed By:

Los Angeles County
Metropolitan Transportation
Authority (LA Metro):



Bruce Shelburne, Executive Director, Rail Operations Strategic Planning

Date:

5-14-15

The following Core Stakeholder Supports this Project Charter for the Interstate 210 (I-210) Connected Corridors Pilot. (The Core Stakeholders are identified in the table above and each has its own signature page.)

Executed By:

LA County Department
of Public Works:



Patrick V. DeChellis, Deputy Director, Public Works

Date:



The following Core Stakeholder Supports this Project Charter for the Interstate 210 (I-210) Connected Corridors Pilot. (The Core Stakeholders are identified in the table above and each has its own signature page.)

Executed By:

City of Pasadena:

F.C. Dock

Frederick C. Dock, Director of Transportation


Date:

05/12/15

The following Core Stakeholder Supports this Project Charter for the Interstate 210 (I-210) Connected Corridors Pilot. (The Core Stakeholders are identified in the table above and each has its own signature page.)

Executed By:

City of Arcadia:



Phillip Wray, Deputy Director of Development Services/City Engineer

Date:



The following Core Stakeholder Supports this Project Charter for the Interstate 210 (I-210) Connected Corridors Pilot. (The Core Stakeholders are identified in the table above and each has its own signature page.)

Executed By:

City of Monrovia:



Tina Cherry, Director, Community Services/Public Works

Date:

5/4/15

The following Core Stakeholder Supports this Project Charter for the Interstate 210 (I-210) Connected Corridors Pilot. (The Core Stakeholders are identified in the table above and each has its own signature page.)

Executed By:

City of Duarte:



Craig Hensley, Community Development Director

Date:



The following Core Stakeholder Supports this Project Charter for the Interstate 210 (I-210) Connected Corridors Pilot. (The Core Stakeholders are identified in the table above and each has its own signature page.)

Executed By:

Foothill Transit:

A handwritten signature in black ink, appearing to be 'Dor', written over a horizontal line.

Doran Barnes, Executive Director

Date:

May 22, 2015

The following Core Stakeholder Supports this Project Charter for the Interstate 210 (I-210) Connected Corridors Pilot. (The Core Stakeholders are identified in the table above and each has its own signature page.)

Executed By:

San Gabriel Valley

Council of Governments:



Francis M. Delach, Executive Director

Date:

4/30/2015

The following Core Stakeholder Supports this Project Charter for the Interstate 210 (I-210) Connected Corridors Pilot. (The Core Stakeholders are identified in the table above and each has its own signature page.)

Executed By:

Southern California
Association of Governments:



Rich Macias, Director, Transportation Planning

Date:

4-30-15