



## North Coast Corridor

*A better environment for the future*

### The North Coast Corridor Program improves coastal access and expands the regional bike and pedestrian network

Ensuring coastal access is a key component of the NCC Program and is critical for both residents and visitors to and along the San Diego County coastline. Maximizing coastal access opportunities is achieved through a comprehensive approach involving major upgrades to public transit and the highway, as well as a large package of improvements for active transportation modes such as walking and biking.

Pedestrian and bicycle facilities create attractive transportation links between transit, employment, and recreational centers and coastal resources such as lagoons and ocean coastline

The Program includes elements that would be integrated or implemented concurrently with the highway and rail projects and would improve east-west and north-south bicycle and pedestrian connectivity along the I-5 highway and coastal rail corridors and complete gaps in existing trail networks.

One such improvement is the North Coast Bike Trail, a new 27-mile trail that complements the Coastal Rail Trail and links to other regional bike corridors.

The NCC Program will create more choices for travelers and commuters to reach their destination and improve coastal communities, the environment and quality of life.



# Connecting You to the Coast



## Creates East-West/North-South Connectivity



### Among the many planned improvements are:

- Provide north-south connection across lagoons via new bike/pedestrian bridges adjacent to I-5.
- Enhance freeway interchanges for safer bike/pedestrian movement to nearby businesses and schools.

## Links to Local and Regional Trails



### Among the many planned improvements are:

- Complete a new 27-mile North Coast Bike Trail that would complement the existing Coastal Rail Trail.
- Connect to the region's major bicycle corridors, including the Coast to Crest Trail, an east-west corridor linking Del Mar with Volcan Mountain near Julian.

## Improves Coastal Access



### Among the many planned improvements are:

- Enhance and provide bike and trail staging areas throughout the corridor.
- Construct a new dedicated bike facility connecting UCSD and area businesses to Sorrento Valley Transit Station.
- Add a trail connecting SR 56 bike route to trails on the west side of I-5.





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### Several hundred acres of coastal habitat to be protected and enhanced through the NCC Program

The lagoon systems and habitats along San Diego's northern coastal area are biologically unique. Preserving and enhancing the natural environment is a critical part of the Public Works Plan/Transportation and Resource Enhancement Program (PWP/TREP).

This plan is a blueprint for the future of the North Coast Corridor that includes a comprehensive program of highway, coastal rail and transit, pedestrian, bicycle and environmental improvements.

As part of that program, Caltrans and the San Diego Association of Governments (SANDAG) have proposed a Resource Enhancement Program, which outlines opportunities to restore and enhance lagoon ecosystems. As a result, several hundred acres of sensitive coastal habitat will be acquired, restored and preserved. Lagoon system function will be enhanced through optimized design of transportation facility infrastructure improvements such as lengthening rail and highway bridges for improved water circulation and facilitating large-scale restoration plans in the San Elijo, Batiquitos and Buena Vista Lagoons.

Additionally, the program provides for a more comprehensive approach to improving storm water runoff quality of the transportation facilities. A perpetual endowment will also be established to fund maintenance of necessary lagoon inlets and channels to sustain tidal and river flows ensuring the long-term health of these environmental improvements.



# Improving the Coastal Environment



## Restoring and Enhancing Lagoons



### Buena Vista Lagoon

Enhance the Buena Vista Lagoon to ensure the long-term health of about 200 acres of wetland habitat. The project would improve water quality and prevent the lagoon from filling in with silt.



### San Elijo Lagoon

Enhance and restore the San Elijo Lagoon in Encinitas. The project is a cooperative effort between the County of San Diego Department of Parks and Recreation and the U.S. Army Corps of Engineers.

**Restoration Begins: 2015**



### San Dieguito Lagoon

Restore 107 acres of native habitat at the San Dieguito River Valley. Nearly 50 acres of coastal wetland will be created and restored. Acquired in 2009.

**Restoration Begins: 2016**



### Laser Site

Preserve 5.81 acres of coastal scrub habitat adjacent to the San Elijo Lagoon in Encinitas. Acquired in 2012.



### Dean Family Trust Site

Restore approximately 23 acres of disturbed uplands in the San Dieguito River Valley. Mitigation will include removal of all exotic species and reestablishment of native species. Acquired in 2008.

**Restoration Begins: 2015**



### La Costa (Ayoub) Site

Preserve 21.7 acres of coastal sage scrub habitat at the Batiquitos Lagoon in Carlsbad. Acquired in 2009.



### Hallmark Site

Establish and restore a total of 19.3 acres of coastal and upland habitat adjacent to the Agua Hedionda Lagoon in Carlsbad. This mitigation will benefit the coastal California gnatcatcher and the south coast salt marsh species. Acquired in 2009.

**Restoration Begins: 2015**



### Deer Canyon Site

Restore 31.4 acres in Carmel Valley to native upland and wetland habitat to enhance non-native grassland habitat and manage the parcel as open space in perpetuity. Acquired in 2011.

**Restoration Underway**

## Preserving Coastal Habitats

## Protecting Habitats





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### NCC Program to implement transportation solutions for improved mobility and coastal access

The North Coast Corridor (NCC) consists of 27 miles connecting the cities of Oceanside, Carlsbad, Encinitas, Solana Beach, Del Mar and San Diego. The NCC Program will create a future of sustainable mobility with easier access to our coast, to our jobs, to our schools and to our homes by double tracking the coastal rail corridor and adding Express Lanes to Interstate 5 (I-5).

The coastal rail corridor that runs from San Diego to Los Angeles and San Luis Obispo, called LOSSAN, is vital to the movement of people, goods, and services throughout the region. The NCC Program will result in the double tracking of the corridor's rail system in phases between Oceanside and San Diego by 2030. Improvements to the coastal rail line will provide improved connections within the transit system, speed passenger travel times on the COASTER and Amtrak, and result in more efficient freight movement.

From 1970 to today, San Diego County more than doubled in population to more than three million residents. Concurrently, I-5 has gone 40 years without major capacity improvements. The I-5 Express Lanes Project will modernize an aging freeway, encourage travelers to carpool, take transit, and give people a choice for a travel option that provides significant travel time savings and improved trip reliability. The improvements are part of a long-term plan that is needed to keep pace with significant population, employment, and travel-demand growth expected in the coming decades. Funds collected through the use of Express Lanes will be directed back into enhanced transit services for the corridor.

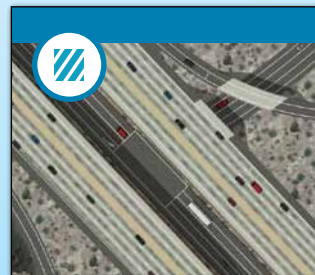


# Express Lanes & More Trains



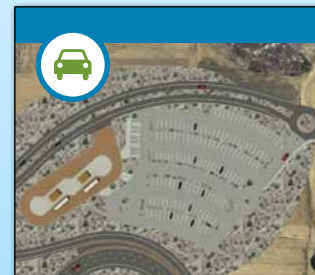
#### Express Lanes

The Express Lanes will be congestion-priced lanes that will always flow freely, even during rush hour. Individuals choosing to use the Express Lanes benefit from reliable travel times, and all drivers have the choice to avoid congestion when needed. Carpools, vanpools, buses, motorcycles, and permitted clean air vehicles will have free access to these lanes, only charging solo drivers who opt to use the congestion-priced lanes.



#### Direct Access Ramp

Direct Access Ramps, or DARs, provide a direct, seamless connection for drivers choosing to access the Express Lanes. The DARs eliminate the need to travel over multiple lanes of traffic to enter and exit the Express Lanes, creating a more efficient and reliable travel system for all users. DARs will be located at Manchester Avenue and Voigt Drive.



#### Park & Rides

A Park & Ride location at Manchester Avenue and enhanced existing Park & Ride locations at Carmel Valley Road, La Costa Avenue and Birmingham Drive will encourage carpooling and help prevent congestion by offering a convenient location where commuters can access the Express Lanes.



#### Transportation Demand Management

The NCC Transportation Demand Management (TDM) will be a customized corridor approach designed to reduce demand on the already congested I-5 by encouraging solo drivers to shift to transit, carpooling, biking, or teleworking.



#### Pedestrian Crossings

Three new highway overpass crossings will improve coastal access and east-west pedestrian movement. Additionally, four grade-separated rail pedestrian crossings will be constructed in the city of Encinitas across the very active rail line.



#### Double Track

Double tracking the coastal rail corridor between Oceanside and San Diego will result in faster, more efficient movement of people and goods. The program is slated to add 14 miles of second track by 2030.



#### Station Improvements

Improvements to the transit station facilities at Oceanside, Poinsettia and Sorrento Valley include adding boarding platforms, parking, and/or additional through tracks. In Del Mar, improvements include the addition of a special events platform at the Del Mar Fairgrounds.