





North Coast Corridor Region's Lifeline

A Regional Strategy
Mobility, Economy & Environment

North Coast Corridor's Vision

Providing Mobility & Improving the Environment

Express LanesAlternatives and Choices

Decision Process





North Coast Corridor Region's Lifeline





Corridor Is Essential to San Diego County Residents







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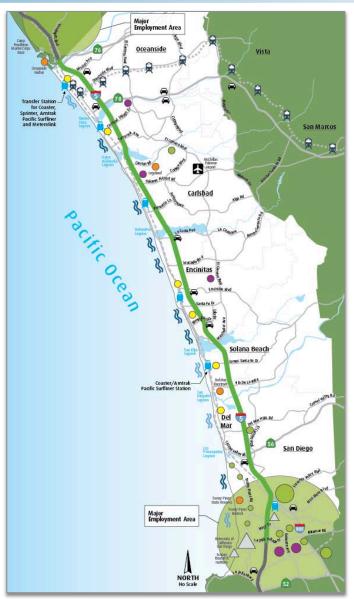








Activity Center Map







Corridor Provides Jobs & Economic Prosperity for San Diego County Residents

In this corridor:

- 22% of region's jobs
- Jobs increased 10 fold since 1970
- Regions compete to attract and retain this corridor's leaders and innovators











Corridor Provides Goods & Services for San Diego County Residents

- \$7.5 billion in 2007
- Increasing to \$12.5 billion in 2050
- 95% of goods movement is by truck







Corridor Provides Recreational Opportunities for San Diego County Residents

Beaches Fairgrounds

Legoland

6 Million Visitors / Year

Annual Visitors to Corridor = Attendance at 85 Super Bowls



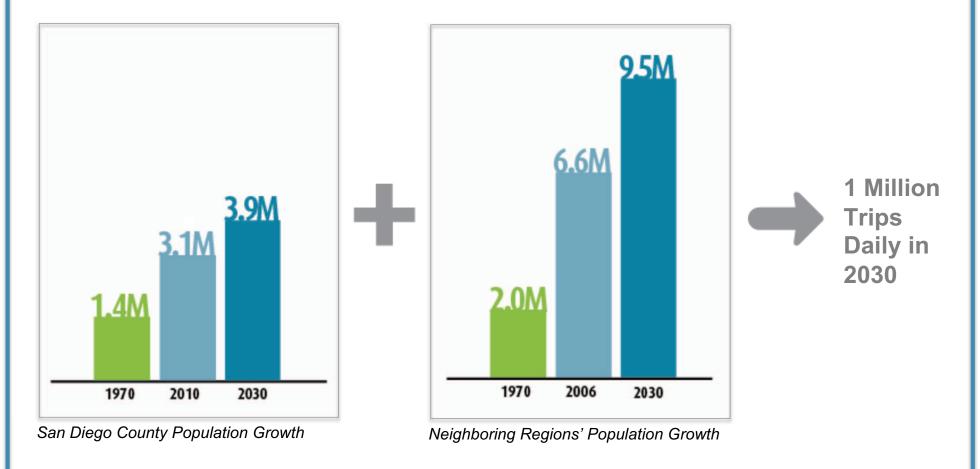








Corridor's Importance Results in Travel Demand







A Regional Strategy Mobility, Economy & the Environment





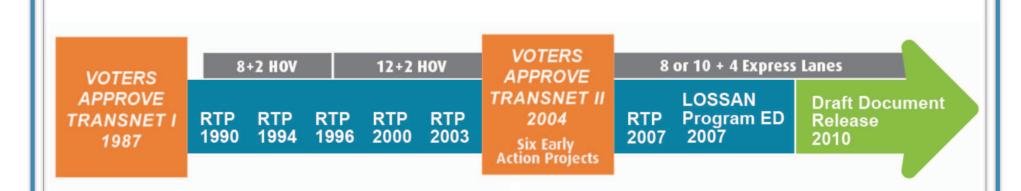
Connecting Transportation, Prosperity & Quality of Life







Historical Background



- Voter Approval
- Regional Planning: SANDAG
- Project Planning: Caltrans
- Planned Configuration

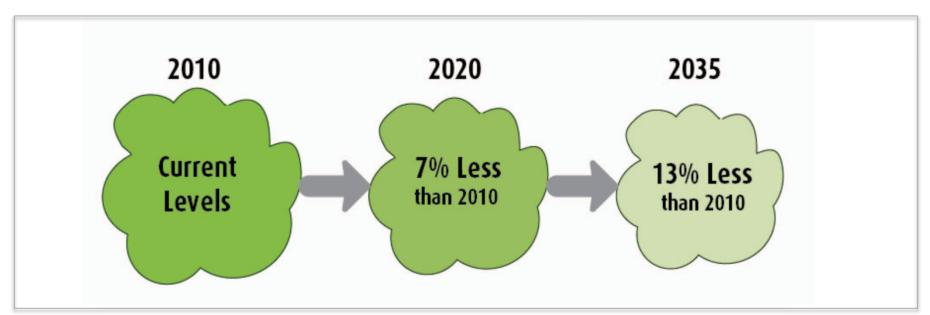




2050 RTP: A Bottoms-Up Approach to the Future

Planning components:

- Land use
- Multimodal choices
- Bottleneck identification
- Technology



Result: Regional Carbon Emissions Reduced Per Capita





2050 RTP: Highway Planning



Riverside County SDNCC . Corridor MEXICO

Highway Map -2050

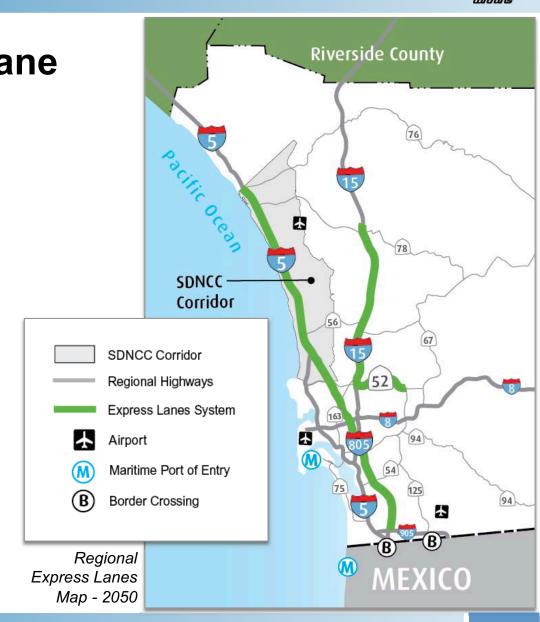




2050 RTP: Express Lane Planning

Express Lanes system will:

- Make bus, carpool & vanpool use more attractive
- Ensure trip time reliability for HOV users
- Adapt to changing traffic conditions, technological advances
 & future policies



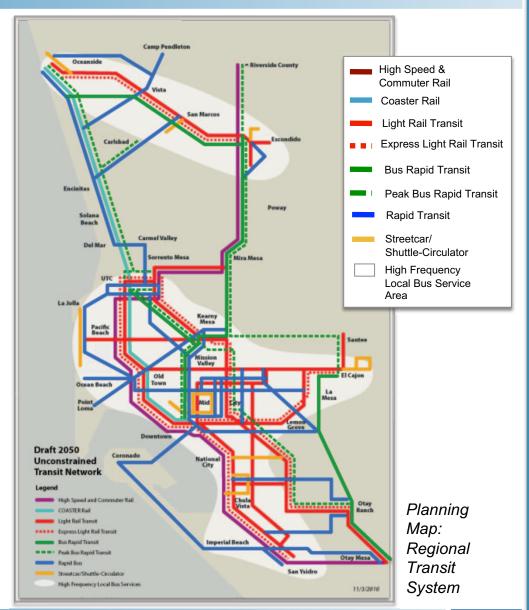




2050 RTP: Transit Planning







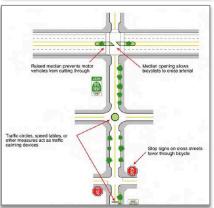


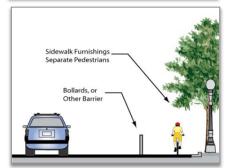


2050 Bike Plan

- \$2.5 Billion investment in Bike/ Ped facilities, which include:
- 275 miles of Regional Bike facilities
- Local bike network improvements
- Improving Safe Routes to Schools
- Improving Bike/ Ped access to transit









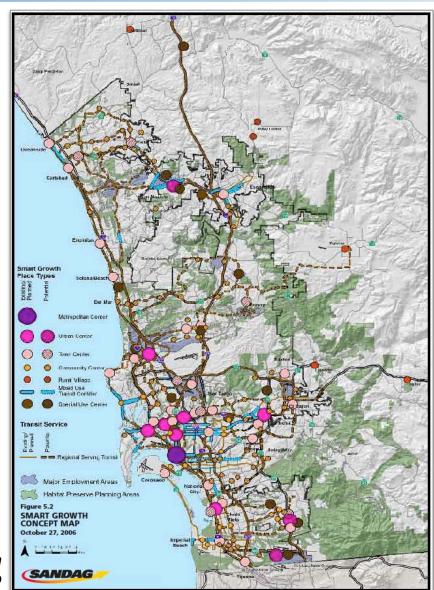
Proposed Regional Bicycle Network





2050 RTP: Land Use Planning

- Plans call for 83% of new housing built over the coming 40 years to be multi-family residences
- Denser communities facilitate transit options



Regional Smart Growth Concept Map

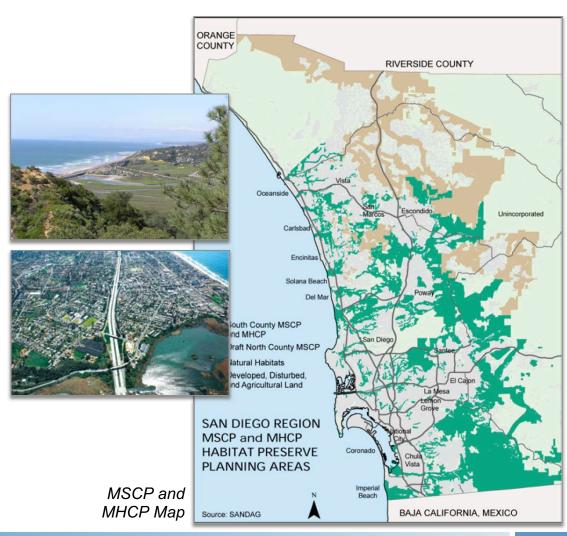




Natural Resources: Proactive Approach

TransNet II funding \$850 million Program:

- Improving the North Coast Corridor's environment is a priority
- Advance mitigation to purchase and protect habitat
- MSCP & MHCP Habitat Preserve Planning Areas







North Coast Corridor Vision Providing Mobility & Improving the Environment





Unique Corridor Needs Unique Solutions

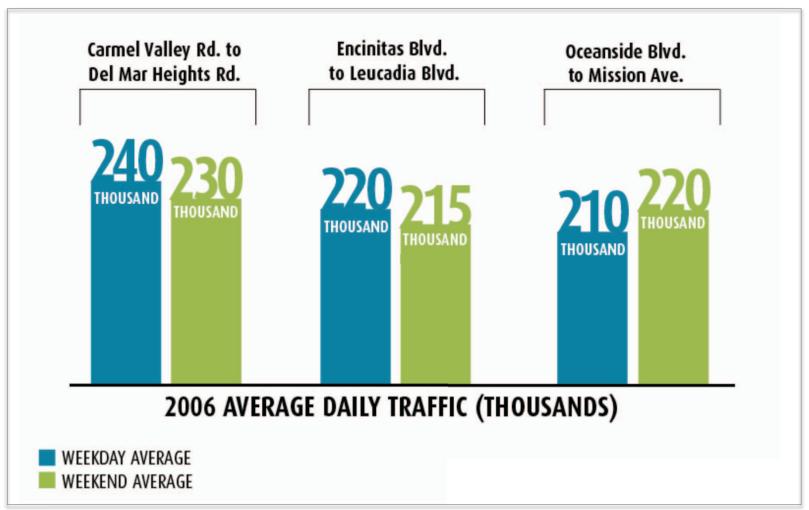
- Gateway to San Diego
- 6 coastal cities
- 6 environmentally sensitive & unique lagoons
- 27 miles of coastline
- Different customers different needs







Unique Corridor Needs Unique Solutions



Daily Traffic Comparison





Unique Corridor With Unique Opportunities

Provide people with:

- More travel choices
- Reduced congestion
- Reliable trip times for all modes
- Improved access to coast
 & area attractions
- Enhanced environment







Unique Corridor Has Unique Constraints

- Coastal resources
- Topography
- Existing development patterns
- Limited options for local trips
- Funding









Corridor's Solutions: Connect People, Transportation & The Environment

Provide many ways to travel:

- Within the corridor
- To the corridor
- From the corridor



Many Ways to Travel





Corridor's Rail Service Constraints

- 51% of the track is single track
- Extended mid-day service gaps for COASTER
- Limited weekend service
- Frequency and reliability limits
- Limited parking
- Multiple rails operators: Amtrak, Coaster, BNSF & Metrolink

Rail Double Track Improvements



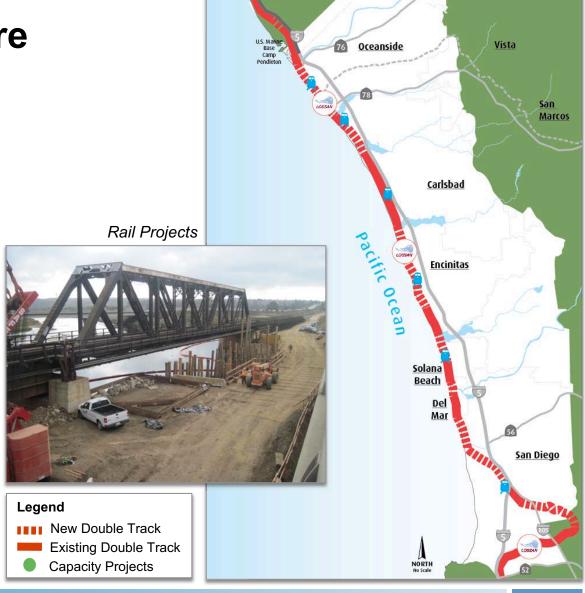






More Trains Require More Track

- Region has committed to fully double track the corridor
- 40 capacity increasing & operational improvement projects
- 18 projects have full/ partial funding
- 2 projects in construction
- 4 projects scheduled to begin construction nearterm



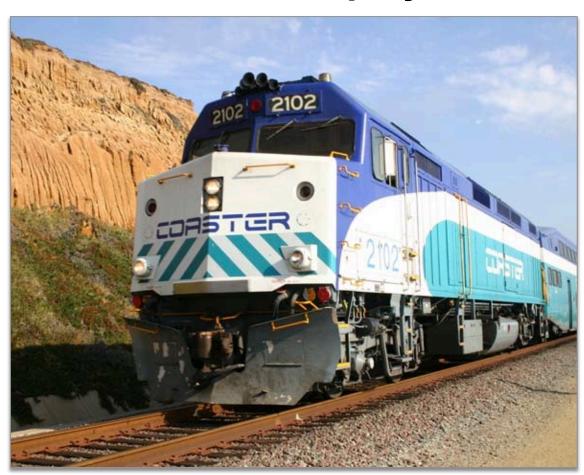




Corridor's Solution: More Than Triple COASTER Ridership by 2030

Passenger service will be increased through:

- Service all day
- Service 7 days a week
- 15 minute peak weekday frequency planned by 2020





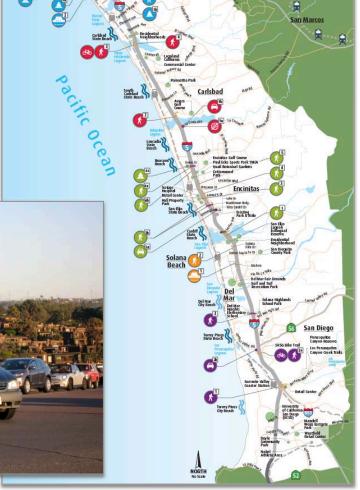


Corridor's Solution: Connections for Pedestrians/ Bicyclists

- To the coast
- To transit stations
- To job centers

East/West Connections









Corridor's Solution: Provide New Express Lanes

Express Lanes will:

- Support buses, carpools & vanpools
- Operate at free flow speeds 24/7
- Adapt to changing traffic, future technological advances & regional policies







Corridor's Solution: Coastal Protection Plan

- Comprehensive plan for rail and highway
- Address lagoon health as a system
- Partnerships with lagoon foundations & environmental agencies
- Tools: bridge lengthening, bioswales, and habitat preservation, restoration and creation





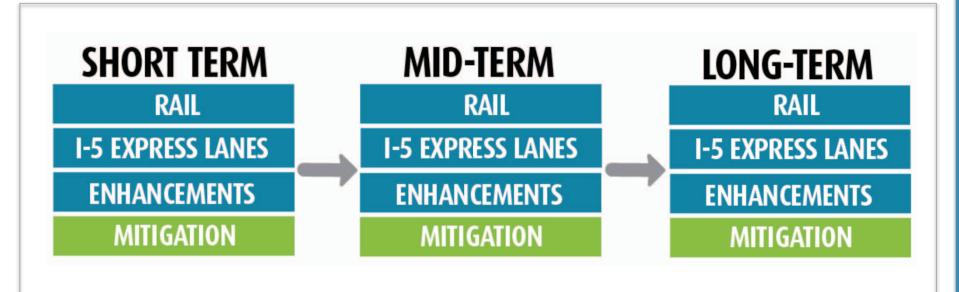








Corridor's Solution: Comprehensive Phasing Plan



Improvement Phasing Diagram





Express LanesAlternatives & Choices





Balancing Regional Goals & Objectives







What If... We Do Nothing to I-5?

The "No Build Alternative" **DOES NOT:**

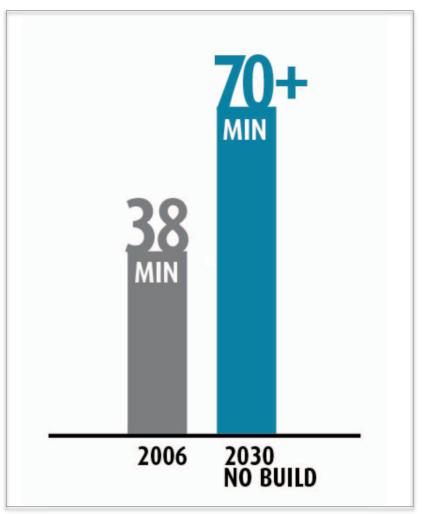
- Address increased traffic congestion
- Meet region's goal to complete a connected Express Lanes System
- Accommodate BRT
- Create opportunities to improve lagoon health, connect bicyclists and pedestrians to coast, and abate noise







If We Do Nothing, Trip Times Nearly Double



Trip Times Comparison Chart: Northbound PM Peak



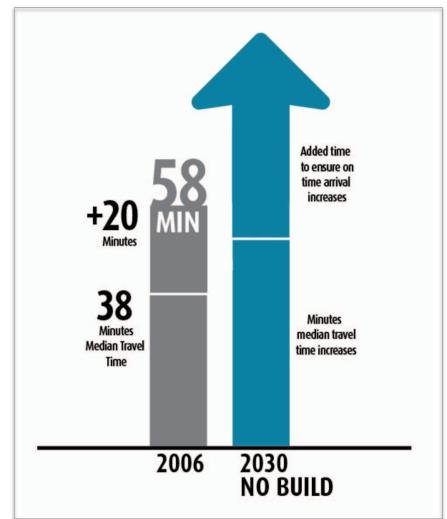


If We Do Nothing, Trip Times Become More

Unreliable

Add time to be on time:

- Now, travelers add 20 minutes to their travel time
- In 2030, trip time will be longer and additional time will be needed for an ontime arrival



Trip Time Reliability Comparison Chart

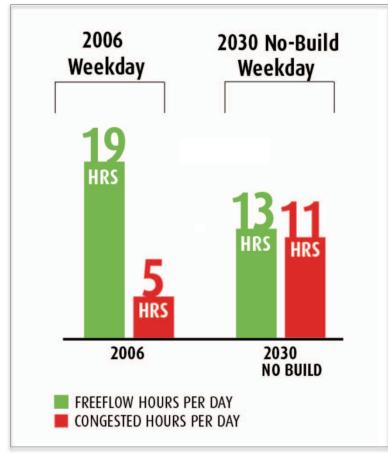




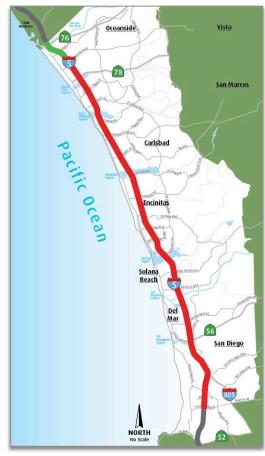
If We Do Nothing, I-5 Will Be Congested Throughout the Day

Severe traffic congestion will negatively effect:

- Other transportation elements
- Economic health & prosperity of the region



Hours of Congestion Comparison Chart



2030 No Build Northbound All Day

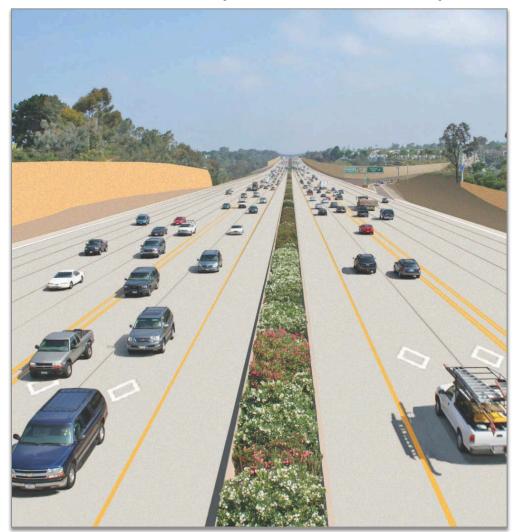




What If...We Add 4 Express Lanes (2 Each Direction)?

- Make bus, carpooling and FasTrak more attractive & reliable
- Improve main lane operations
- No additional general purpose lanes
- Cost to add 4 Express Lanes:
 with buffer: \$3.4 Billion

with barrier: \$4.1 Billion







What If...We Add 4 Express Lanes (2 Each Direction)

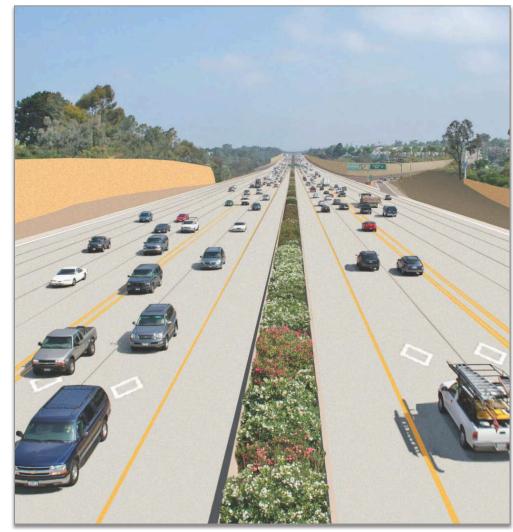
& 2 Main Lanes

(1 Each Direction)?

- Maintain existing travel times while accommodating growth
- Provide best main lane performance
- Increase community & environmental impacts
- Cost to add 4 Express Lanes
 & 2 Main Lanes:

with buffer: \$3.8 Billion

with barrier: \$4.5 Billion







All Build Alternatives Have Direct Access Ramps

- Strategic placement based on local infrastructure, employment centers & recreational sites
- Provide better access to express lanes system for carpoolers, vanpools, FasTrak & BRT users
- Reduce congestion at on-ramps
- Improve operation of main lanes







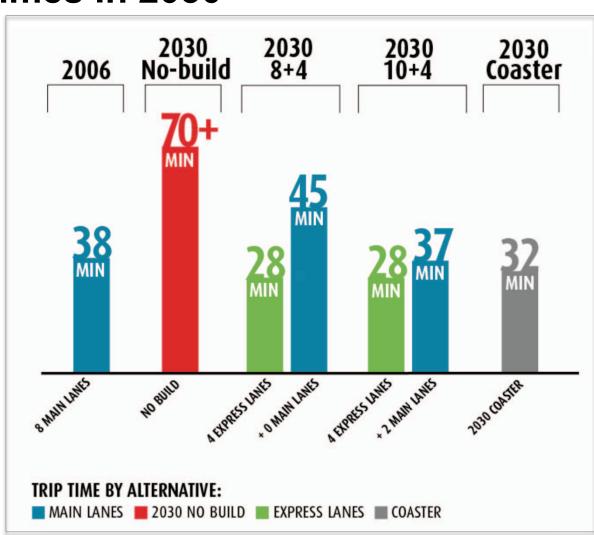
Corridor Travel Times In 2030

In "8+4" and "10+4"

 Express Lanes, travel is at free flow speeds

In "No Build"

Travel times nearly double



Travel Time Comparison 2030 Northbound PM Peak





With Express Lanes, Noise Can Be Reduced While Preserving Views

Save all public and private views

Attenuate noise for 82% of impacted residents:

- Without a project, no retrofit program for existing noise
- With a project, there is the possibility to advance mitigation projects & existing noise





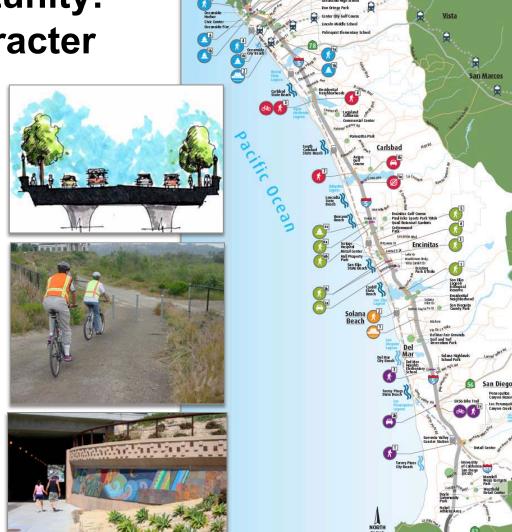






Enhancement Opportunity: Reflecting Local Character

- Streetscape enhancements
- Trail connections
- Community gardens
- Pedestrian-friendly bridges
- Enhanced aesthetics

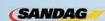


Community Enhancement Plan



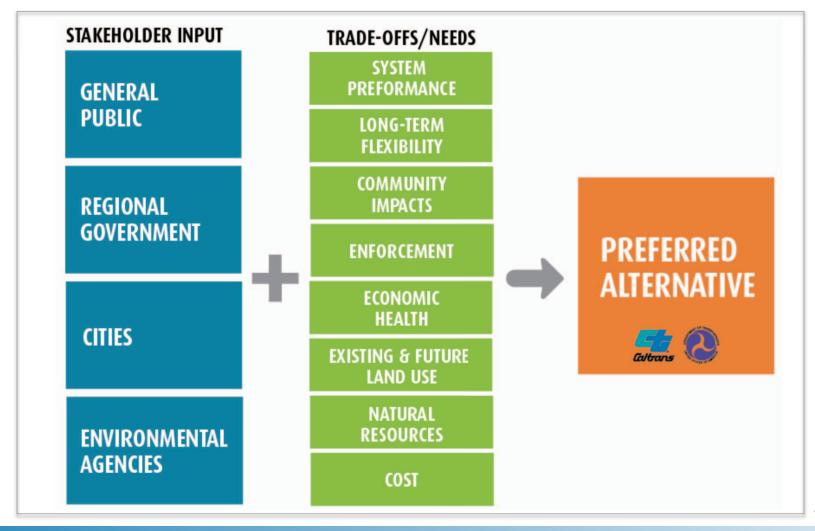


Decision Process





Select Alternative: Decision-making Process

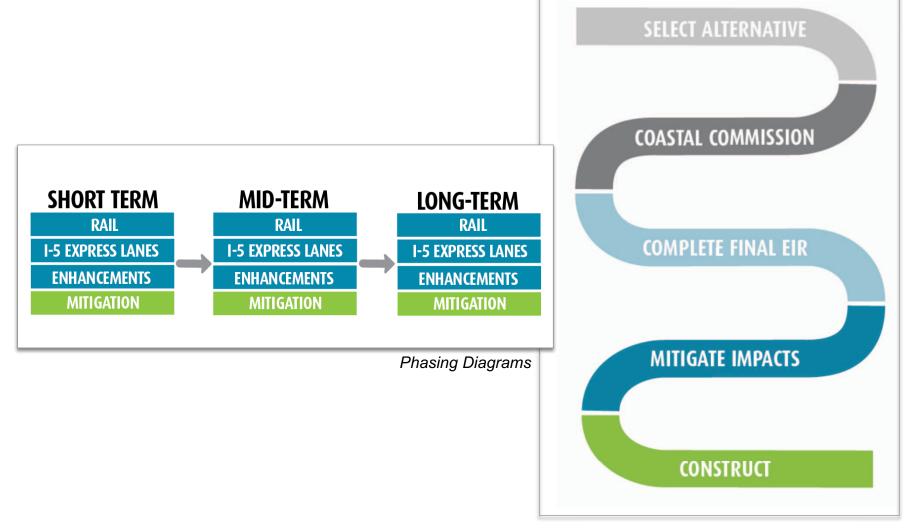


Process for Selecting a Preferred Alternative





Connecting Improvements





Key Points

Comprehensive Vision:

It is a transit and highway vision that will provide competitive travel choices

Region's Lifeline: Gateway to San Diego's Future

- Work to minimize community impacts
- Improve community and coastal resources
- Sustain economic growth