

### Public Meeting #1 Listening Session

April 11, 2024

The meeting will begin shortly.



### **Interpretation Available**

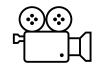
- Via Zoom
  - Click on the "Interpretation" icon
  - Select your language of choice "English" or "Spanish"
  - To hear the Spanish interpretation only, click Mute Original Audio

### **Interpretación Disponible**

- Vía Zoom
  - Haga clic en el icono de "Interpretación"
  - Seleccione "Spanish" (español)
  - Para escuchar solo el idioma interpretado, haga clic en "Mute Original Audio" para "Silenciar el audio inglés"



### **Meeting Format**



• This meeting is being recorded to accurately capture your input.



- Comments will be addressed after the presentation during the listening session.
- Written comments and questions can be submitted through the 'Q&A' function.
   Participants will be able to view them in real time.
- Both written and verbal comments are equally considered by the team.



To use closed captioning, select "cc" at the bottom of the Zoom screen.



 If you would like to speak, please use the 'Raise Hand' button at the bottom of the Zoom screen. State your name prior to providing your comment.

### **How to Participate**

You may submit multiple comments/questions, as needed:

#### Via web

- Verbal comments: Click Participants > "raise hand"
- Type comments: Click the "Q&A" function
- Include contact information: Name and organization (if any)
- When announced, unmute your audio, you can then ask your question (s)
- You will be re-muted once you complete your comment (s)

#### Via phone (calling in)

- Press "\*9" on your keypad to "raise hand"
- You will be announced by the last four digits of your phone number
- Press "\*6" to unmute your audio
- You will be re-muted once you complete your comment (s)

As a reminder, the chat will be used by the team to share information and links to resources.

# Chat Raise Hand Q&A

### Agenda

- History
- Goals and Objectives
  - Short and Mid-term Study
  - Potential Reinforcement Areas
- Study Schedule/Key Milestones
- Study Outreach
- Listening Session
- Next Steps



#### **COASTAL RAIL** RESILIENCY STUDY

### OCTA's Role in the LOSSAN Corridor

- Owns 40+ miles of the corridor, including seven miles of critical coastal track in south Orange County
- Serves as the managing agency for the LOSSAN Rail Corridor Agency
- Member of the Southern California Regional Rail Authority (Metrolink) joint powers authority that uses the LOSSAN corridor

#### COASTAL RAIL RESILIENCY STUDY

LOSSAN – Los Angeles – San Diego – San Luis Obispo OCTA – Orange County Transportation Authority

### **OCTA's Beachside Rail Line**

In south Orange County, tracks run along the beach, sandwiched between bluffs and the ocean.

Most of this beachside rail line is approximately 200 feet or less from the coastline.







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DANA POINT

Metrolink

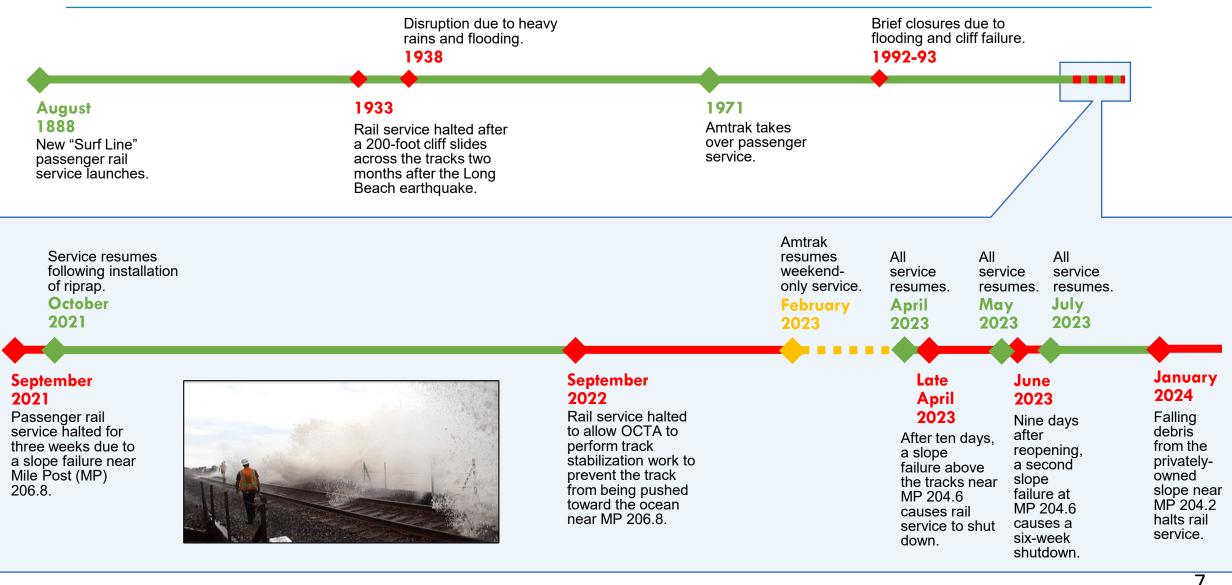
<sup>Avenida</sup> Pi SAN

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DIEGO COUNTY

### **Passenger Rail Closures**



**E E E E Limited passenger service available** 

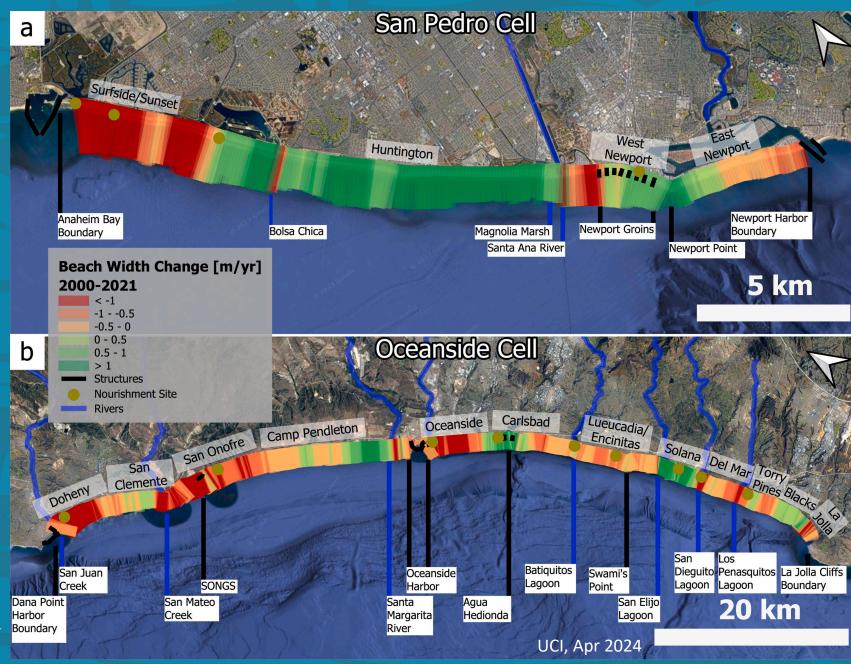
### **Changing Conditions**



#### Beach erosion

- Recent coastal studies
- Prior studies by state/federal agencies
- Milepost 206.8 incident
- Need to develop phased solutions to address infrastructure impacts

## Critical Shoreline Areas



### **Local Resiliency Activities**

PROJECT	ΑCTIVITY	COST	TIMEFRAME
Cyprus Shore Initial Track Stabilization Project (MP 206.8)	Emergency placement of riprap	\$8 million	September 2021
Cyprus Shore Track Stabilization Project (MP 206.8)	Installation of ground anchors in response to adjacent landslide	\$13.7 million+	October 2022 – August 2023
San Clemente Track Protection Project (MP 204.6)	Installation of temporary barrier wall in response to adjacent landslide	\$6 million	May – July 2023
San Clemente Track Protection Project (MP 204.2)	Removal of debris and other remedial action in response to adjacent landslide	\$TBD	Jan – TBD
San Clemente Shoreline Project (Sand Replenishment) (MP ~204.5 – 205.2)	Project would add 251,000 cubic yards of sand to the beach. Repeated at every 5-6 years interval up to 2 million cubic yards.	\$14.3 million (65% federal / 35% city cost sharing)	Fall 2023/ Winter 2024
San Clemente Nature-Based Coastal Resiliency Project Feasibility Study (community meeting)	This Study builds on the Shoreline Monitoring Program to promote long-term coastal resiliency in San Clemente.	\$570,000 (CCC LCP Grant Round 7)	Ongoing – Summer 2025

MP – Mile Post

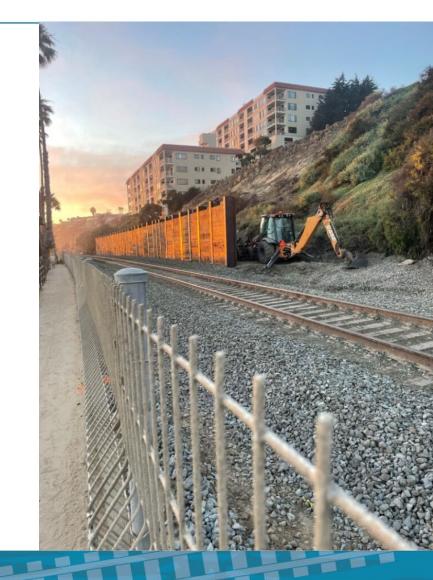
### **Coastal Rail Resiliency: A Two-Phase Approach**

Coastal Rail Resiliency Study	Coastal Rail Long-Term Solutions Study
Short- to medium-term solutions	Long-term solutions
<ul><li>Study underway</li><li>Develop options to protect 7 miles of</li></ul>	<ul> <li>Develop options for potential long-term solutions for the coastal section of rail line</li> </ul>
coastal rail infrastructure at various sea levels	Create an action plan for key elements     Dertner with LOSSAN, state and federal econories
<ul> <li>Gain an understanding of climate effects on coastal rail infrastructure</li> </ul>	<ul> <li>Partner with LOSSAN, state and federal agencies</li> <li>Engage key stakeholders and agencies</li> </ul>

- on coastal rail infrastructureIdentify potential solutions, including
- sand replenishment and retention
- Engage key stakeholders and agencies

### **Initial Assessment Goals & Objectives**

- Identify activities for immediate action (MP 200 MP 207.4)
- Focused on protecting rail operations, track infrastructure, and maintaining railroad service
- Builds on previous efforts to maintain railroad operations
- Identify potential solutions and strategies
- Emergent issues, monitoring, and reinforcement areas
- Identified Areas of Concern
  - Monitoring Areas
  - Potential Reinforcement Areas



### **Summary of Monitoring Areas**

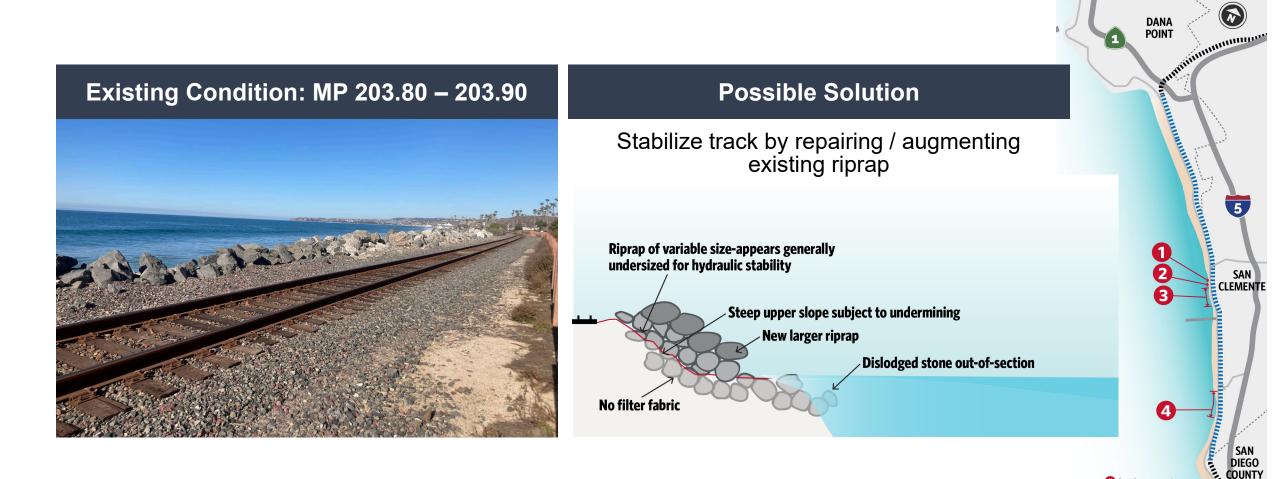
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Area	Location (MP)	Description	Monitoring (Frequency)	
1	200.80 - 201.00	Doheny S - Eroding Beach	Riprap condition and beach erosion (Semi-Annually, Post Storm)	
2	202.70	Poche Beach South Shore Pedestrian Underpass and outfall at beach	Beach erosion and scour protection around structures (Quarterly)	2 5
3	203.65 - 203.70	North Beach - Potential for undermining of riprap	Riprap condition and beach erosion (Semi-Annually, Post Storm)	3
4	204.00 – 204.30	Mariposa Pedestrian Bridge	Install sensors to monitor potential track-bed movement (Monthly, post storm post-landslide post-earthquake)	4 SAN CLEMENTE
5	204.50	Linda Lane - Stable beach but narrow	Riprap condition and beach erosion (Semi-Annually, Post Storm)	
6	206.10	Calafia State Beach - upland erosion sand deposits on tracks	Effectiveness of culvert replacement (Post Storm, King Tides)	2
7	206.70 – 207.25	Cyprus Shore to County Line	Monitor effectiveness of emergency riprap (Semi-Annually, Post Storm)	Monitoring Locations

#### **COASTAL RAIL** RESILIENCY STUDY

### **Summary of Potential Reinforcement Areas**

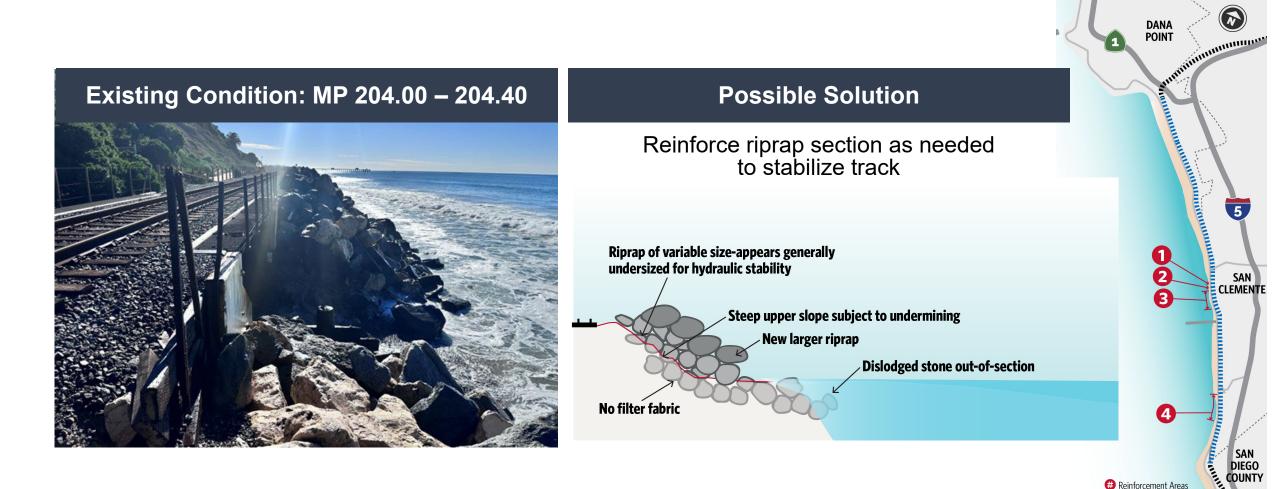
Area	Location (MP)	Description	Potential Solution(s)*
1	203.80 - 203.90	Erosion Hazard deteriorating	Repair/Augment Riprap
2	204.00 - 204.40	Erosion - no beach at high tide and direct wave attack	Stockpile rock for maintenance
3	204.00- 204.50	Geologic - Major seepage from bluff and poor surface drainage, potential for liquefaction and lateral spreading of track-bed	Build subdrain cut-off for groundwater, catchment structure for slope debris surface drainage control
4	206.00 - 206.67	San Clemente State Beach - erosion exposing old riprap	Inspect & construct revetment as needed

\*OCTA is participating in discussions about a sand replenishment program with the County of Orange and other stakeholders to protect the railroad and other infrastructure. This effort could be considered on a parallel path with the solutions above, to avoid delay of actions that are needed to ensure continual railroad operations.



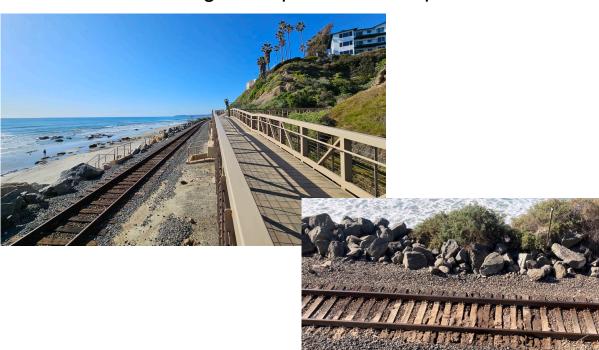
#### **COASTAL RAIL** RESILIENCY STUDY

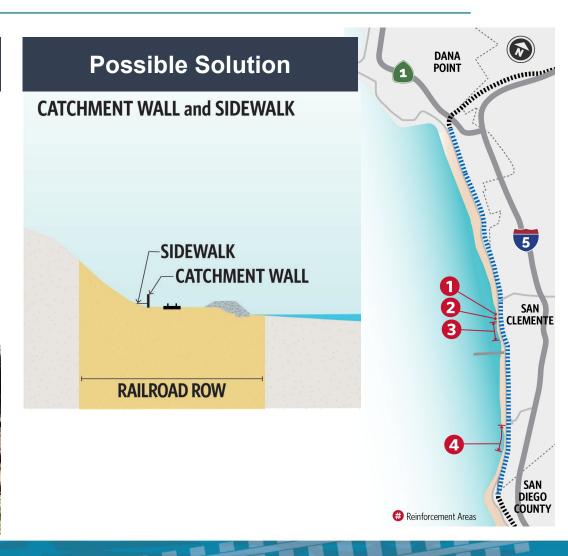
Reinforcement Areas



#### Existing Condition: MP 204.00 – 204.50

Steep bluffs, potential to impact tracks, poor track-side drainage with potential for liquefaction





Existing Condition: MP 206.00 – 206.67



Vicinity of San Clemente State Beach: Erosion exposing rock and creating a shelf adjacent to tracks where riprap once existed





### **Study Milestones**

#### **LISTENING SESSIONS**

- Engage with a wide range of stakeholders with unique and diverse backgrounds and needs
- Obtain feedback from stakeholders and interest groups: Winter '24

3

#### INITIAL CONCEPT DEVELOPMENT

- Draft Concepts: Spring to Fall '24
- Obtain feedback from stakeholders and interest groups: Fall '24

5

#### DRAFT FEASIBILITY STUDY REPORT

- Draft Report: Spring '25 Summer '25
- Obtain feedback from stakeholders and interest groups

7

#### INITIAL ASSESSMENT

- Initiated: Nov '23
- Potential reinforcement areas identified: Dec '23

2

• Release Report: Feb '24

#### PURPOSE AND NEED/ EVALUATION CRITERIA

4

- Draft: Spring '24
  - Informed by Listening Session feedback

### REFINEMENT OF CONCEPTS

• Refined Concepts: Spring '25

6

 Obtain feedback from stakeholders and interest groups: Spring '25

#### FINAL FEASIBILITY STUDY REPORT

- Final Report: Fall '25
- Present to Board/Publish Final Report: Fall '25

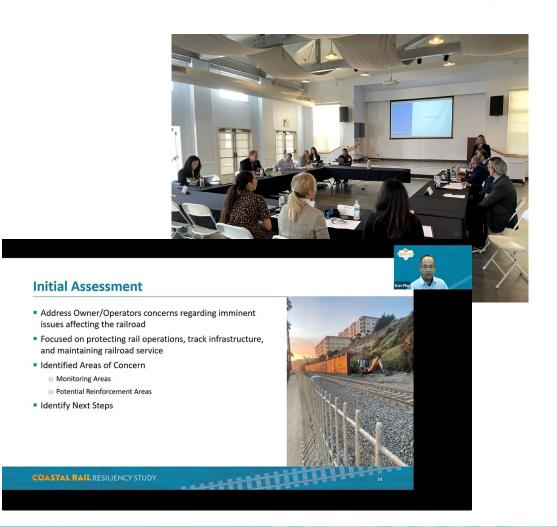
### **Listening Session – Goals**

- Gather collaborative input from key stakeholders in various public and private sectors
- Listening sessions seek to:
  - Identify key stakeholders
  - Share expectation to maintain in-place the existing coastal rail line and minimize passenger and freight service disruptions for up to 30-years
  - Assess vulnerabilities and issues of concerns
  - Identify potential opportunities to further enhance collaboration
  - Document feedback



### **Feedback To Date**

- Consider other natural solutions (sand, living shoreline, etc.)
- Seek partnering opportunities (city, county, state, etc.)
- Support for early, comprehensive, preventive action
- Continue coordinated streamlined communication of service disruption
- Concern regarding impacts to employee
   commute patterns and regional tourism
- Consult coastal and marine habitat experts





### **Listening Session**

### **Listening Sessions Schedule**

Date	Listening Session	Description
01/18/24	Project Development Team (PDT)	
02/14/24	Stakeholder Working Group (SWG)	Federal, state, regional & local interest groups
02/15/24	Major Employers, Key Destinations & Other Business Interests	Business associations & entertainment
03/06/24	Freight & Goods Movement	Business & transportation interest groups
03/12/24	Emergency Responders	Police departments, fire departments, coast guards & harbor patrol
03/20/24	Coastal & Marine Habitat Community-Based Organizations	Environmental groups
04/03/24	Residential Groups	Homeowner associations (HOAs)
04/11/24	General Public	Virtual meeting
TBD	Elected Officials Roundtable	Federal, state, regional & local elected offices
05/30/24	General Public	In-person meeting

### **Stay Connected**

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### **THANK YOU!**

