Agenda Item 12B - PowerPoint Presentation

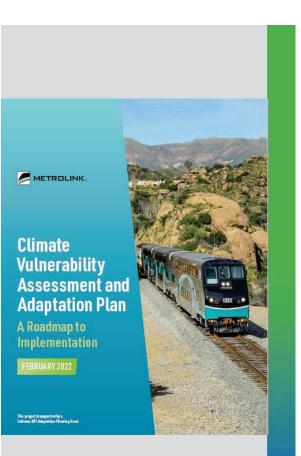
Climate Vulnerability Assessment & Adaptation Plan

SCAG Regional Council June 5, 2025

METROLINK

AGENDA

- Project Purpose and Approach
- Vulnerability Assessment Outcomes
- 3 Adap
 - Adaptation Strategies
 - 4 CVA Dashboard



Project Purpose & Considerations

- Identify sections of network most vulnerable to future climate change and extreme weather events
- Identify climate-adaptation strategies to address the vulnerabilities and a roadmap for implementation
- Collaborate with new and existing partners through an external stakeholder group on both climate resilience and emergency management
- Consider the most vulnerable, disadvantaged, and transit-dependent populations;
- Align with key SCRRA initiatives including the Transit Asset Management Plan, the Strategic Business Plan, the Fleet Management Plan, The State of Good Repair plan and the Climate Action Plan

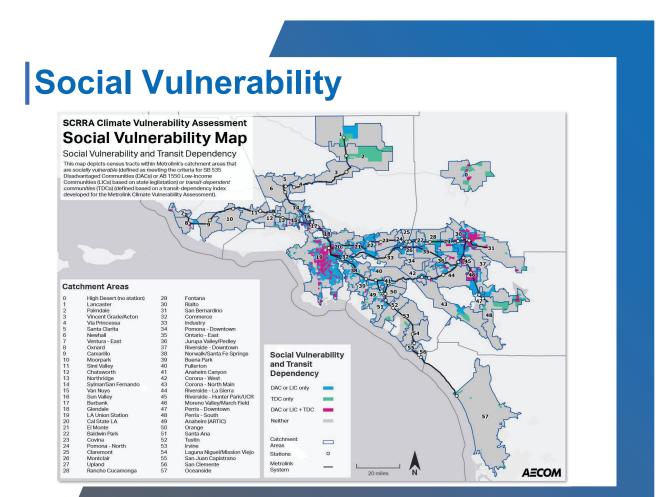


METROLINK 3

Project Stakeholders

- Diverse group of stakeholders: member agencies, local municipalities, not for profit and regional climate groups
- Data sharing with LA Metro and OCTA from their Climate Action/Adaptation Plan and Defense Against Climate Change project
- Three meetings to get feedback on key project components including vulnerabilities and adaptation strategies

Stakeholder Group						
BNSF Railway Company (BNSF)						
California Department of Transportation (Caltrans)						
City of Los Angeles						
Climate Resolve						
Los Angeles County						
Los Angeles Department of Transportation (LADOT)						
Los Angeles Regional Collaborative for						
Climate Action and Sustainability (LARC)						
Los Angeles – San Diego – San Luis Obispo						
Corridor Agency						
North County Transit District (NCTD)						
Orange County Transportation Authority (OCTA)						
Public Health Alliance of Southern California						
Riverside County Transportation Commission (RCTC)						
San Bernardino County Transportation Authority (SBCTA)						
Southern California Area Government (SCAG)						
Union Pacific Railroad (UPRR)						
Ventura County Transportation Commission (VCTC)						
Emergency Preparedness Focus Group						
City of Covina Emergency Management						
City of Lancaster Emergency Management						
Los Angeles County Office of Emergency Management						
NCTD						
Orange County Sheriff's Department						
OCTA						
RCTC						
San Bernardino County Office of Emergency						
Services						
SBCTA						
VCTC						
LA Metro						



METROLINK 5

Social Vulnerability

Rank	Socially Vulnerable (DAC or LICs)		Transit Dependent		Both Socially Vulnerable and Transit Dependent	
	Catchment Area	% of HHs	Catchment Area	% of HHs	Catchment Area	% of HHs
1	Sun Valley	91%	Glendale	34%	Lancaster	44%
2	Baldwin Park	87%	Burbank North South DT	29%	Glendale	38%
3	Van Nuys	86%	Sun Valley	28%	Van Nuys	36%
4	Commerce Montebello Commerce	86%	San Bernardino Depot DT	26%	Hunter Park UCR	35%
5	Lancaster	86%	Van Nuys	26%	Burbank North South DT	34%
6	Rialto	83%	La Union Station	25%	San Bernardino Depot DT	32%
7	Glendale	83%	Hunter Park UCR	21%	La Union Station	30%
8	Cal State La	82%	Rialto	21%	Sun Valley	28%
9	Anaheim	82%	Moreno Valley	18%	High Desert	24%
10	El Monte	82%	Commerce Montebello Commerce	17%	Perris South	22%

Top Catchment Areas by Percent of Households

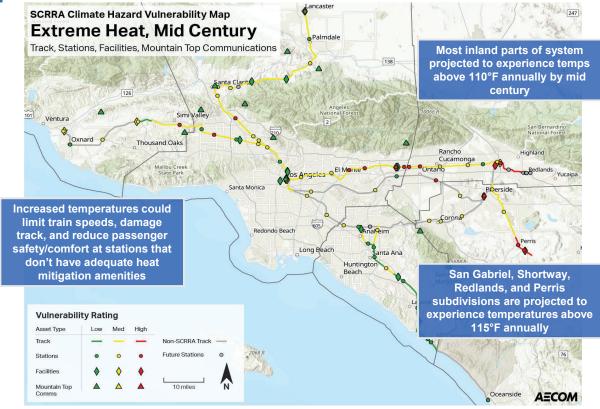
Climate Vulnerability Assessment

- Identified Vulnerability (Exposure and Sensitivity) of key assets types to climate hazards:
 - o Track
 - o Bridges
 - o Tunnels
 - Stations
 - Facilities
 - o Signals
 - Communications Infrastructure
 - o Culverts



METROLINK

Vulnerability Assessment - Extreme Heat

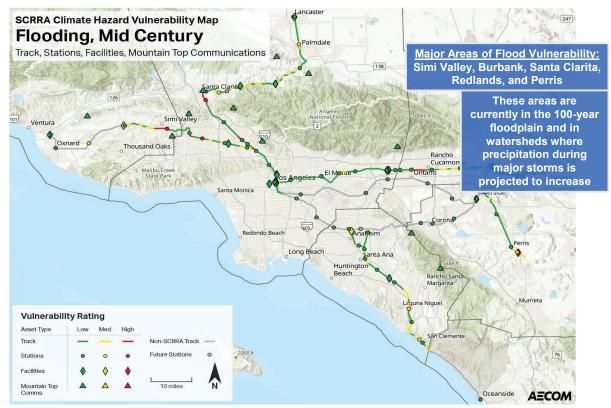


Vulnerability Assessment - Wildfire

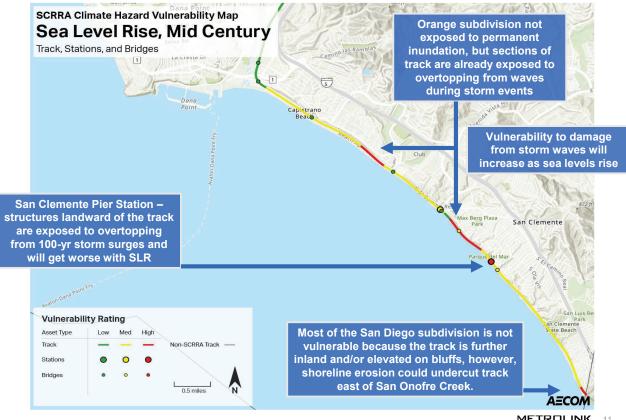


METROLINK 9

Vulnerability Assessment - Flooding



Vulnerability Assessment – Sea Level Rise



METROLINK 11

Climate Adaptation Strategies



Climate Vulnerability- Stations

Station	Subdivision	County	Score			
	Sea Level Rise	e (Mid-Century)				
San Clemente Pier	San Diego	San Diego	10			
	Flooding (M	/lid-Century)				
Simi Valley	Ventura	10				
Santa Clarita/Newhall	Valley	Los Angeles	10			
Northridge	Ventura	Los Angeles	10			
	Extreme Heat	: (Mid-Century)				
Sylmar/San Fernando	Valley	Los Angeles	12			
Simi Valley Ventura		Ventura	12			
Northridge	Ventura	Los Angeles	12			
Claremont	San Gabriel	Los Angeles	12			
Pomona (North)	San Gabriel	Los Angeles	12			
East Ontario	Los Angeles	San Bernardino	12			
San Bernardino Downtown San Bernardino		Riverside	12			
Baldwin Park	San Gabriel	Los Angeles	12			
Covina	San Gabriel	Los Angeles	12			
Montclair	clair San Gabriel		12			
Upland	San Gabriel	San Bernardino	12			
Riverside Downtown	Redlands	San Bernardino	10			
Perris-South	Perris Valley	Riverside	10			
Perris Downtown Perris Valley		Riverside	10			
	Wildfire Landslides/Mudsli	des, Seismic (Mid-Century),				
No sta	ations have high vulnerability to	o wildfires, landslides or earth	quakes.			

METROLINK 13

Climate Adaptation Plan - Stations

Extreme Heat Strategies

- · Plant shade trees/drought tolerant plants in parking lot
- Install shade structures on platform
- · Add seating under shade structures
- Install misters
- Install hydration stations



Review of SCORE Projects

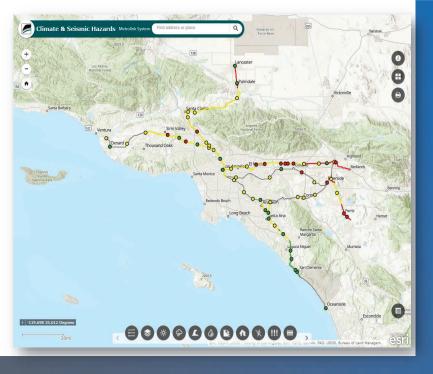
- Reviewed 5 projects for potential climate vulnerabilities and identified potential adaptation strategies.
- Demonstrates how CVA outputs (vulnerability assessment and strategy toolkit) can be applied at the project level.



METROLINK 15

Interactive Vulnerability Dashboard

- Displays vulnerability assessment results.
- Ensure outputs can be easily explored/ accessed by Metrolink staff and departments



Demo of CVA Dashboard

 <u>Climate & amp; Seismic Hazards</u> (arcgis.com)



Climate Vulnerability Adaptation Plan

METROLINK 17

- Full Report
- Summary Report

THANK YOU