



About Us





Our purpose is to empower, educate and advocate for people who walk, bicycle and take public transit county-wide.



What We Do



Community Bike Shops (Bici Centro)



Community Bike Shops

- DIY mechanic partnerships
- Drop off for repairs
- Buy refurbished bikes



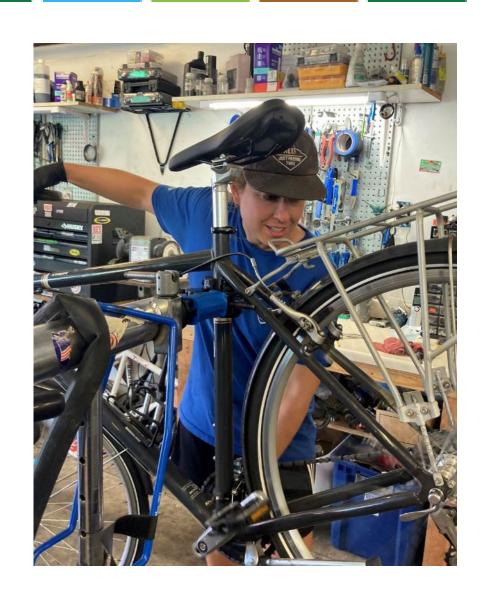
Community Bike Shops

- Keep bikes from landfills
- Disassemble and recycle unusable parts
- Very -low cost youth bikes for education program



Community Bike Shops

- 600 refurbished bikes sold
- 4,500
 customers
 serviced
- 1,000 bikes repaired





- Learning to ride
- Bicycling skills
- Youth and adults
- Incorporating e-bikes



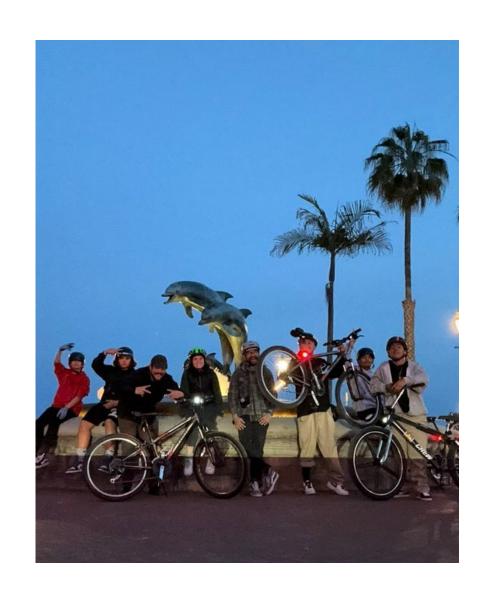
- North County focus on riding in schools
- Adoption by Santa Maria Bonita School District
- 2,000 > 4,000



- South County focus on increasing walk/bikes rates
- Holistic approach
- Behavioral change



- Young adult programs
- Youth Access to Nature
- Teen
 Transportation
 Justice



Bike Valet



Bike Valet

- Provide secure bike parking at events
- Reduce driving and need for vehicular parking
- 3,400 bikes parked in 2023



Advocacy



Advocacy

- All streets safe for all users
- All communities connected by frequent transit



Advocacy

- Educate community
- Understand design
- Advocate and speak at public meetings



How We Partner



Partnerships

- UCSB Geography
 - Communicate studies to diverse audience
 - Data on crashes and near misses
 - Volume data for pedestrians and bicyclists
- City of Santa Barbara
 - Installing infrastructure based on public need
 - Developing complete network
- BCycle
 - Increasing parent use of bicycles
 - Making bicycling accessible to all



Thank you!

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heather@MoveSBCounty.org
805.845.8955





Point-to-Point Transportation

Fun
Sustainable
Accessible
Reduce
Community

La Guerra and State on Size: 6'x12'

Station Type: 3.0, 6 docks ~740 State St, Santa Barbara,

Lat: 34.419677 Long: - 119.699303

ocation: State

De La Guerra

- Drill into

Asphalt or Baseplate





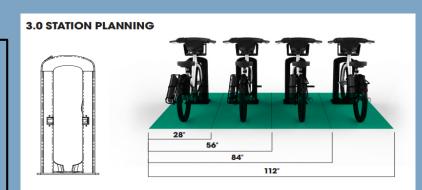


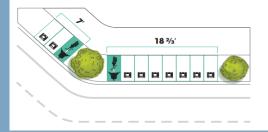
E De La Guerra & State 6 1/28/2021

Sighting Locations

3.0 Install Dimensions

- City right of way
- Red curb
- 6ft PED
- Size: 6-8 docks 6' x 12'
- Review
- **Implement**





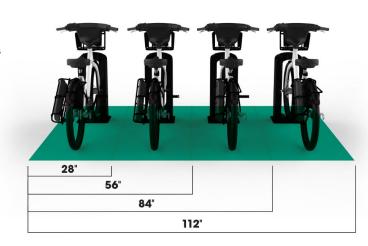
QUICK KEY:

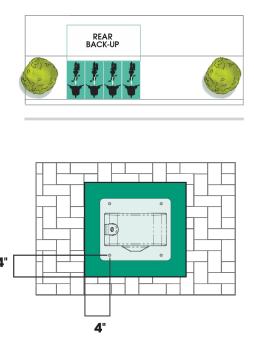
# OF DOCKS	MIN. WIDTH
5	140" (11 %')
6	168" (14')
7	196" (16 1/3')
8	224" (18 3')
9	252" (21')
10	280" (23 1/3")
- 11	308" (25 3/3')
12	336" (28')

3.0 STATION PLANNING

IN THE FOLLOWING PAGES WE WILL COVER:

- Station Dimensions
- Install Dimensions
- Station Configurations
- Install Basics
- Station Mockups

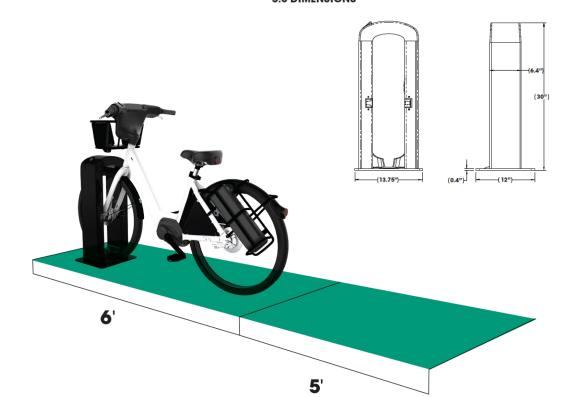




3.0 STATION - INSTALL DIMENSIONS 3.0 DIMENSIONS

STATION DEPTH:

- Single-sided stations must have at least 6' of space (this includes a 6" front tire overhang) plus a 5' back-up zone totaling 11'
- Double-sided stations must have at least 8'6" of space plus a recommended 5' back-up zone on each side totaling 16'6"





System Functionality

LOCAL

Field/Mechanic Techs
Rebalance/Recharge (2:1 ratio)
Maintain

E-CHARGE

No plug in or grid connection

Run on solar battery (replaced 6-9 months)

OBSTACLES

Finding Good Locations
Connectivity
Rebalancing





Funding Sources

PUBLIC

CMO GRANT
City/County
Reap 2.0
Alt. Trans.

PRIVATE

Sponsorship
Corporate Campus
University
Custom ie: Ritz Carlton

BCycle is a public/private Partnership with the City of SB/Trek Retail Corp



Contact

Jesse Rosenberg, BCycle (e) jesse_rosenberg@bcycle.com (m) 858-945-3700

Join the electric movement



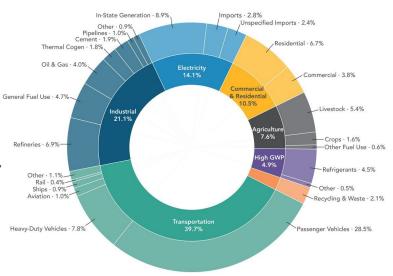




Pollution and Climate

- Earth's climate is changing because of decades of fossil fuel use
- SoCal has the worst air quality in the US (American Lung Association)
- 284,166 Registered Automobiles in SB County (CA DMV)





2019 GHG Emissions by Sub-Category
CA Air Resources Board



Active Transportation Plans



City of SB's bike network map

\$80M

In Active Transportation
Program funding for
project in Santa Barbara
County

The Problem

Governments in Santa Barbara County need data to support transportation sustainability plans



UC SANTA BARBARA

Our Solution

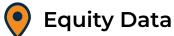
Use geographic data science to improve data for sustainable and equitable transportation decision making















UC SANTA BARBARA

Fill Data Gaps

Crowdsourcing Data on Bike Safety

Type: Near collision with moving object or vehicle Incident with: Vehicle, turning left Date: 17 May, 2023 4:50 PM Incident ID: 13260 **Details:** Sight lines are bad for cars intersecting this portion of the bike route. Car turning left WB couldn't see me from the stop sign and turned into the road but we both slowed down in time to avoid collision.



- Report crash or near miss
- 10,000+ reports
- 40+ countries
- Active since 2014



UC SANTA BARBARA

Fill Data Gaps

Using fitness app data, maps, and Al

Data

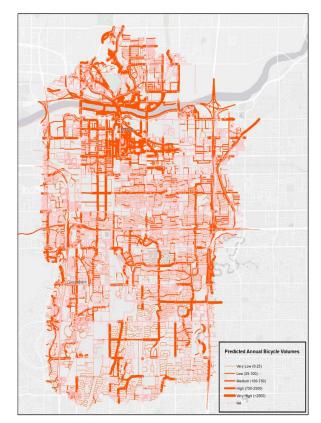
Strava, bicycling safety, income

Cities

Phoenix, San Francisco, Boulder, Ottawa, Victoria

Result

Up to +/- 10 average daily bicyclists for 75% of streets



Nelson, T., et al. (2021). Generalized model for mapping bicycle ridership with crowdsourced data. *Transportation Research Part C: Emerging Technologies*, 125, 102981.



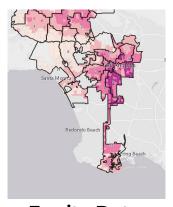
SB County Active Transportation Dashboard

Funding: SB County Association of Governments REAP

Partners: County of SB, MOVE SBC, City of Santa Maria



Infrastructure Data



Equity Data

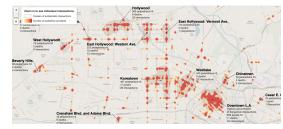


Accessibility Data



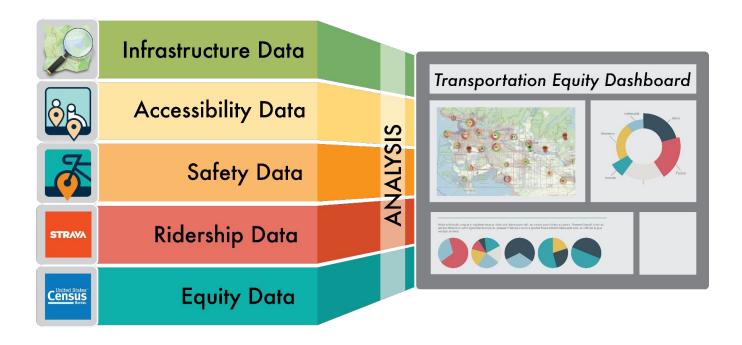
Ridership Data

Safety Data





SB County Active Transportation Dashboard





UC SANTA BARBARA

E-Bikes in Santa Barbara

Funding: National Safety Council

Partners: MOVE SB County

Goal: Increase availability of data on ebike safety. Analyze data to generate evidence that can support safe ebike policy and interventions.

Safety Data
Collection

Quantify locations +
factors leading to ebike
injury/death

Ebike safety
dashboard

Sparlab

The Team



Dr. Trisalyn Nelson

Professor & Dangermond Chair of Geography UC Santa Barbara Founder of BikeMaps.org and WalkRollMap.org



Karen Laberee

Executive Director of BikeMaps.org and WalkRollMap.org



Dr. Achituv Cohen

Mobility crowdsourced geodata and spatial data mining specialist



Caitlyn Linehan

Walkability, bikeability, and connectivity in urban areas specialist



Lizzy Schattle

BikeMaps.org, communication and project management



UC SANTA BARBARA

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Dangermond Chair of Geography
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SUSTAINABILITY & RESILIENCE DEPARTMENT

REDUCING ENERGY DEMAND AND EMISSIONS THROUGH BICYCLING

Central Coast Sustainability Summit | October 18, 2023







U.S. Emissions Trends

- 1990-2021, total transportation emissions from fossil fuel increased 19%
- 2021: GHG emissions from transportation: 28% of total, largest contributor
- Pandemic dip
- 2021: sport utility vehicles, pickup trucks, and minivans (37%); medium- and heavy-duty trucks (23%); passenger cars (21%); commercial aircraft (7%); other aircraft (2%); pipelines (4%); ships and boats (3%); and rail (2%).

Source: - https://www.epa.gov/ghgemissions/sources-greenhouse-gas-emissions



Michael Conti: https://www.bicycling.com/news/a22864724/roll-coal-cyclist/



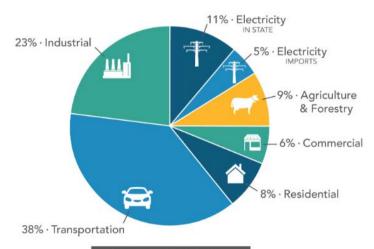




California GHG Emissions

2000-2020 GHG Inventory (2022 Edition)

Million Metric Tons Carbon Dioxide Equivalent (MMT CO₂e)



Source: C.A.R.B. 2022 GHG Emissions 369.2 MMT CO₂e 2020 TOTAL CA EMISSIONS







Carbon Neutrality by 2035: Building Off a Strong Foundation

- Strategic Energy Plan
- Santa Barbara Clean Energy
- County ReSource Center
- Municipal Green Building Policy
- Natural Gas Prohibition for New Buildings
- Zero Emission Vehicle Acquisition Policy
- Bicycle Share Pilot Program
- Bicycle and Pedestrian Master Plans









Santa Barbara Clean Energy

BACKGROUND TIMELINE

June 2017

Council adopts an ambitious goal of 100% renewable energy by 2030 for the entire City of Santa Barbara

January 2020

The California Public Utilities Commission approves Santa Barbara Clean Energy's Implementation Plan

October 2021

Residential Santa Barbara Clean Energy service launches



July 2019

Council votes to move forward with a City of Santa Barbara Community Choice Energy Program

September 2020

Council adopts goal of Carbon Neutrality by 2035, acknowledging that Santa Barbara Clean Energy is going to be a critical component of achieving that goal

March 2022

Commercial Santa Barbara Clean Energy service launches



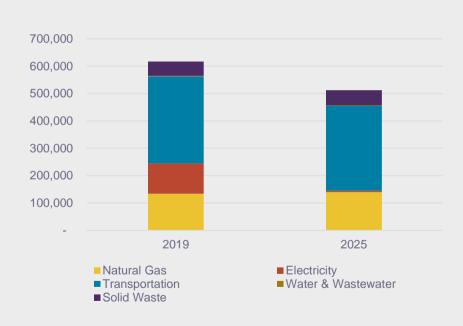




City of Santa Barbara GHG Emissions

Metric Tons Carbon Dioxide Equivalent (MT CO₂e) *2025 is Post-SBCE, post Resource Center Major Areas of Opportunity

- TRANSPORTATION
 - On road
 - Off road
- Natural Gas (in buildings)



^{**}All values are of the unit metric tons of carbon dioxide equivalent (MT CO₂e)







Regional Efforts on the South Coast

- City of SB: infrastructure, policy and program management
- MOVE Santa Barbara County: education and encouragement programs
- BCycle: bike share system
- UCSB: data to better understand behavior



Infrastructure: The Foundation For Safe Active Transportation

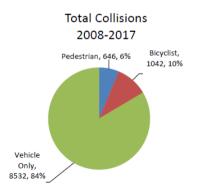






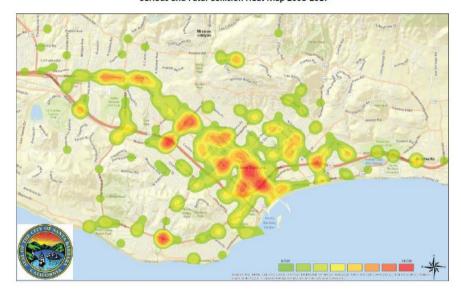








Serious and Fatal Collision Heat Map 2008-2017









Grants Make it Happen

- Active Transportation Program (ATP)
 - \$94,925,000 (Cycles 1-6)



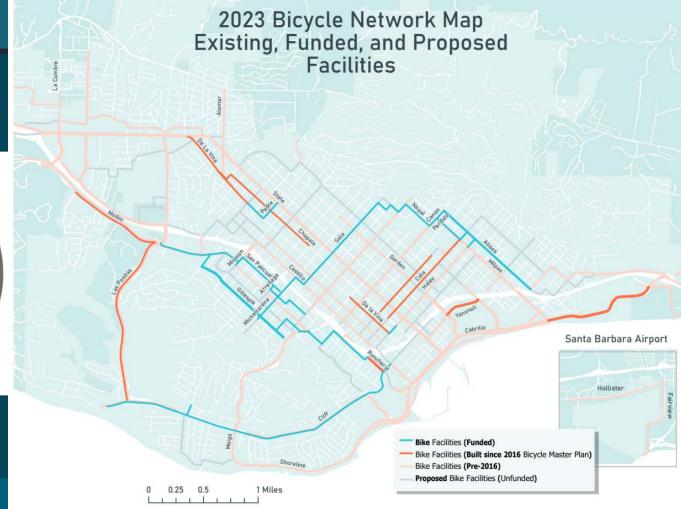
- Highway Bridge Program (HBP)
 - \$111,200,508 (since 2011)

- Highway Safety
 Improvement Program
 (HSIP)
 - \$22,549,000 (Cycles 4-10)
- Measure A Grants
 - \$3,920,211 (Cycles 1-6)



City of SANTA BARBARA











Cacique Soledad Pedestrian Bridges and Sidewalk Infill

 Before — dilapidated bridge, lack of facilities to get to school



• After —2 new bridges to get to 3 schools, library and community center









Montecito/Yanonali Bridge Replacement and Sidewalk Infill















Lower Milpas Pedestrian Improvement Project











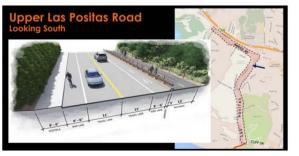


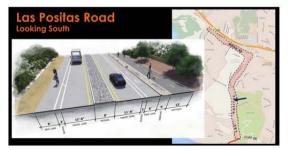
Las Positas and Modoc Roads Multiuse Path (Planning, Environmental and Design)



















Las Positas and Modoc Roads Multiuse Path (Construction)









Carpinteria/Voluntario Crosswalks and Lighting

Injury Traffic Accident

Injury Traffic Accident where a vehicle struck a child at Voluntario and Carpinte Streets. Fire, Medics, and SBPD are responding.

Photo by John Palminteri of KEYT



A young girl was hit by a truck as she used a crosswalk on a Santa Barbara street Thursday morning near Franklin Elementary School, (69/26/14)



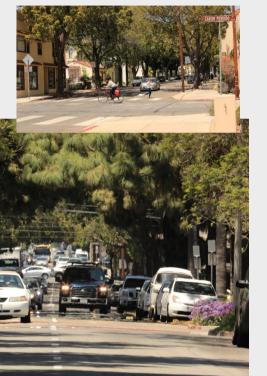






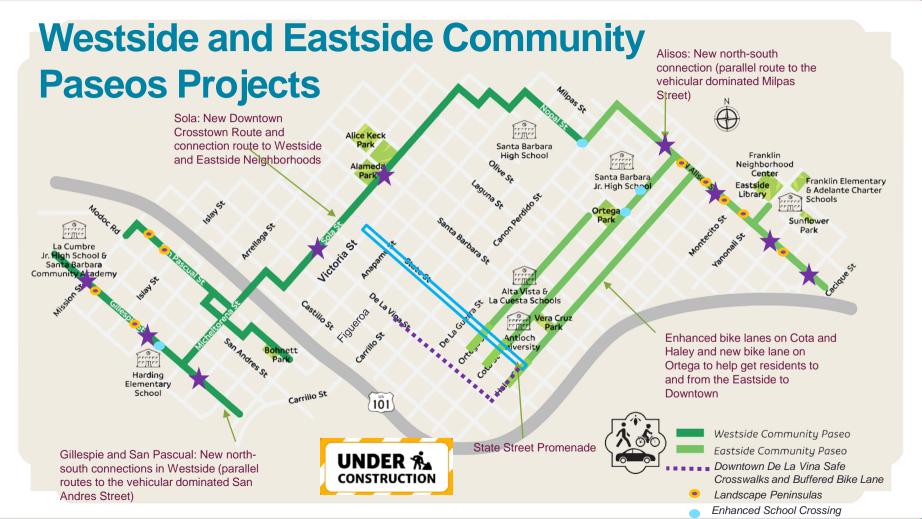
Downtown De La Vina Safe Crosswalks and Buffered Bike Lane

Before



After











Westside and Eastside Community Paseos Projects











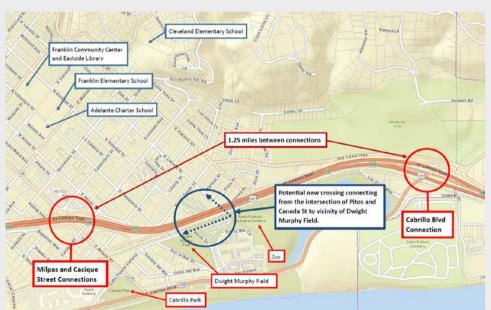








Lower Eastside Connectivity Plan (Planning Grant)



Concept

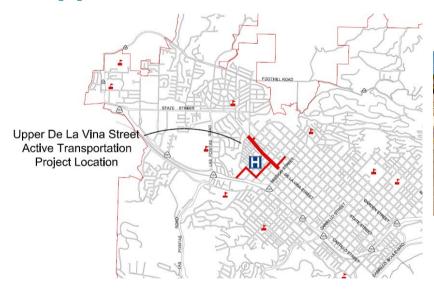




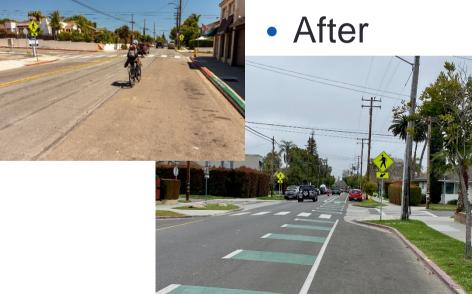




Upper De La Vina Active Transportation Improvements



Before



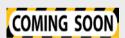






Cliff Drive: Urban Highway to Complete Street





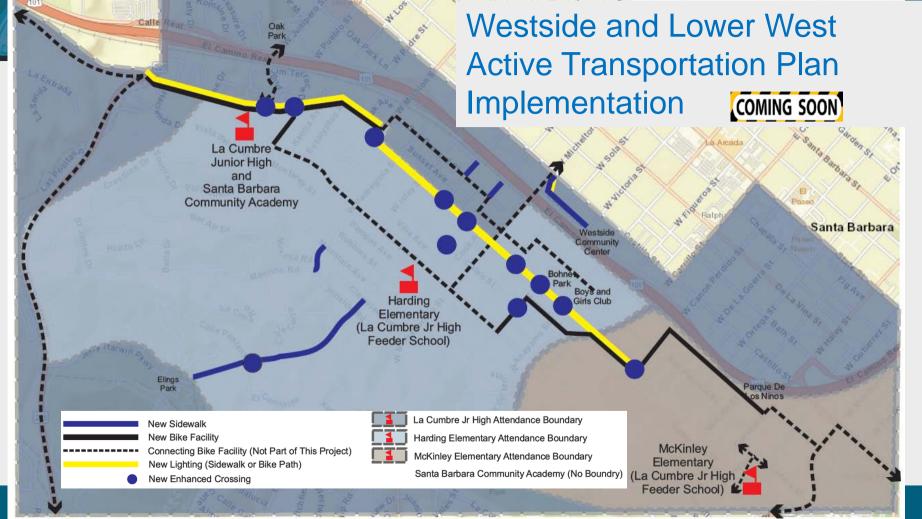






Improve Access Across Cliff Drive





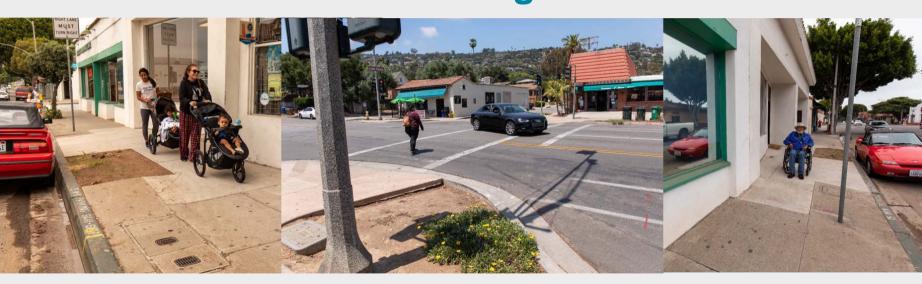








Milpas Street Crosswalk Safety and Sidewalk Widening











SB's Interactive Bike Network Map

- Catalogue of existing network
- Types of bike facilities
- Future integration with regional map update









Bike Share on the South Coast

- City of SB: infrastructure, policy and program management
- MOVE Santa Barbara County: education and encouragement programs
- BCycle: bike share system
- UCSB: data to better understand behavior









What is Bike Share?

Point-to-Point transportation option that:

- Reduces traffic
- Reduces parking demand
- Provides access to key destinations
- Is affordable
- Is great when it's too far to walk, but too close to drive









Three Years In: Bike Share Pilot Program

System statistics from launch (January 2021) to September:

- 534 docks at 87 docking stations, ~265 pedal assist ebikes
- 1,282,000+ miles ridden
- 387,000+ trips
 - 28% Single ride
 - 41% Monthly
 - 29.5% Annual Member
 - 1.5 % BCycle for All









BCycle E-Bikes and Docks

- Electric, pedal-assist to 17 miles per hour
- App interface
- Dedicated team













Who Rides BCycle?

- Residents, commuters, tourists, e-bike curious
- BCycle for All income qualified \$25 annual membership
- Library of Things



Fiesta: 11:00am Friday, August 4







Making It Happen

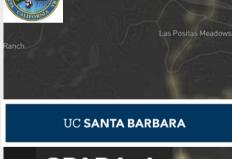
Cliff THE MESA



Santa Barbara



Santa Barbara County



City of Santa Barbara
SUSTAINABILITY
& RESILIENCE

SPAR Lab



BIKEMAPS.ORG

Santa Barbara Bike Share Regional Usage: 1/2023-3/2023







