

‘Engaging States’

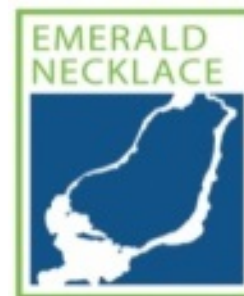
Urban Waters
National Training
Workshop

Emerald Necklace ‘Mountains to Sea’ Natural Infrastructure

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CALIFORNIA REPUBLIC



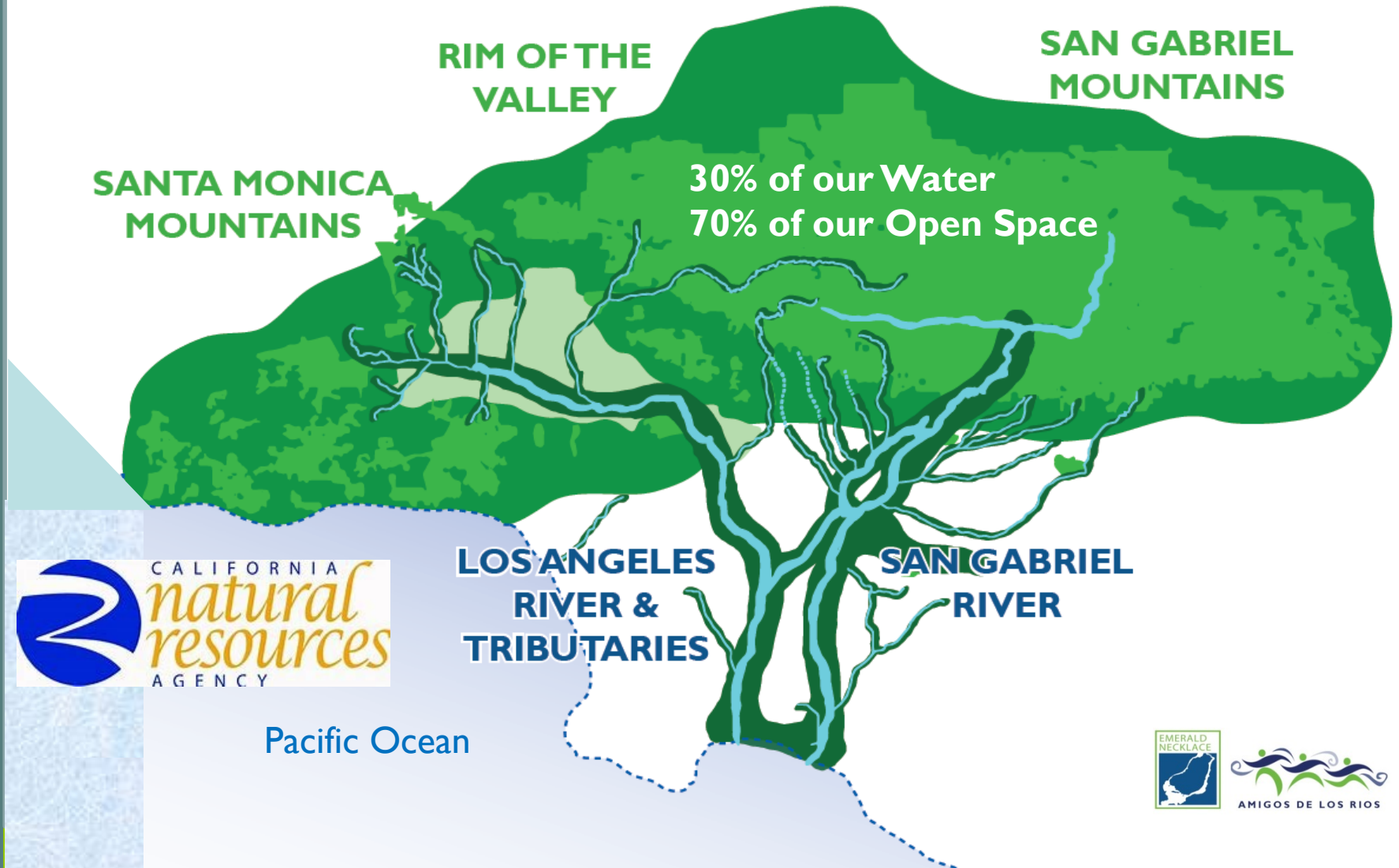
Amigos de los Rios

San Gabriel Mountains



San Gabriel River

Los Angeles Basin – “Tree Vision”



Convergent Efficient Natural Infrastructure

Los Angeles Basin = 2 Major Rivers

Public Lands > 10+M People > 125 Languages



'STATE OF THE ART' INFRASTRUCTURE

We need to place a Human Face on Urban Infrastructure now



**Absolute Necessity of
Systemic State Support
for our Vision & Projects**

PUBLIC HEALTH

- **Access: Clean Air & Water, Green Recreation**
- **Social Equity**
- **Environmental Justice**
- **Nature Deficit Disorder**
- **Heat Island Mitigation**

ENVIRONMENTAL HEALTH

- **Air & Water Quality**
- **Greenhouse Gas Draw down**
- **Biodiversity - E Flows**

REGULATORY COMPLIANCE

- **Clean Water, Air Acts**
- **Listed species**

BEAUTY /CULTURAL HERITAGE JOB TRAINING

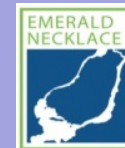
- **Vibrant Economy**

Cultural Symbols for water



Selection of plants indigenous to the Los Angeles region

**Our Diverse Cultural Heritage
= Los Angeles Basin's Strength**



AMIGOS DE LOS RIOS MISSION - 'Mountains to Sea'

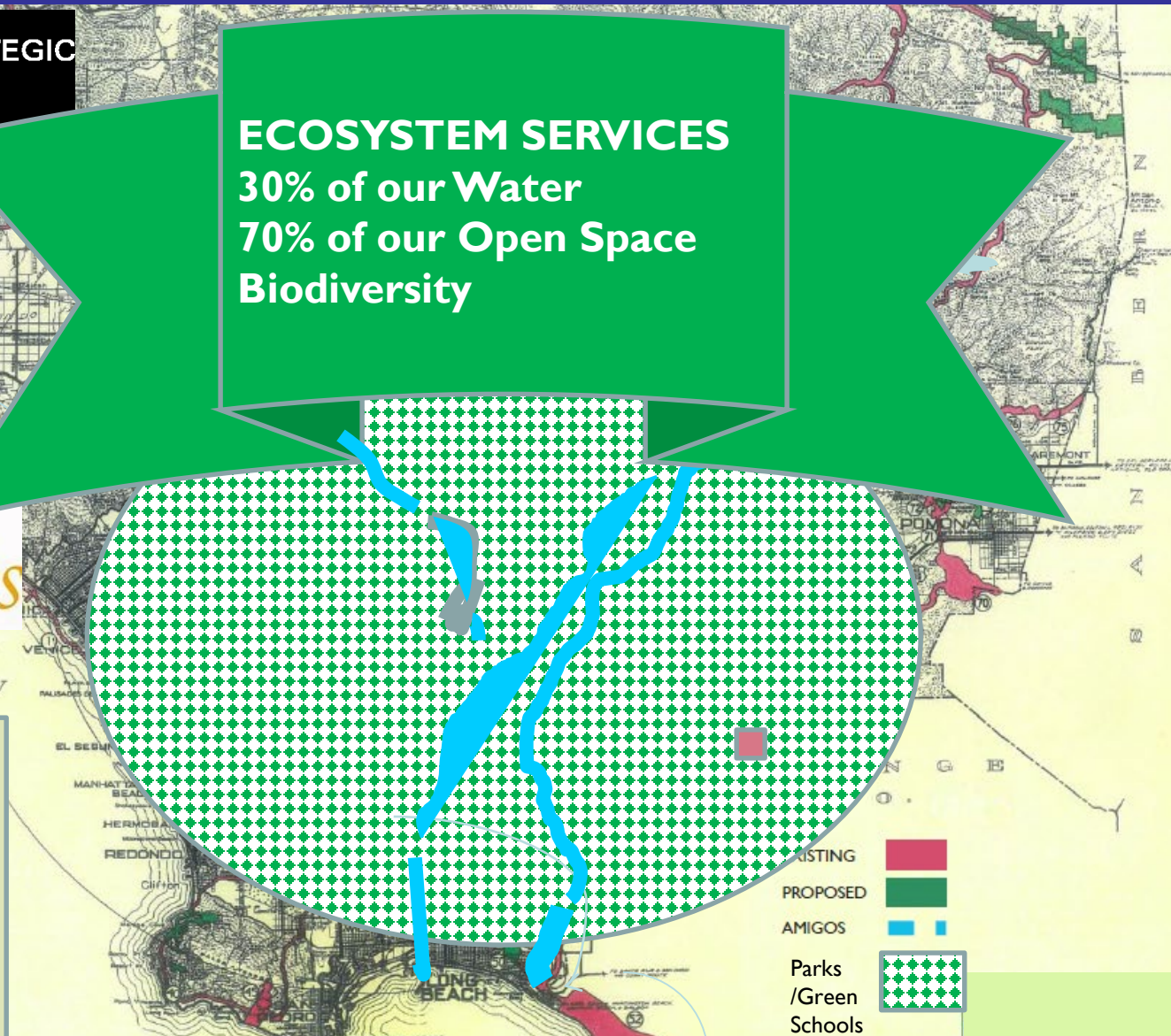


CALIFORNIA STRATEGIC
GROWTH COUNCIL



ECOSYSTEM SERVICES
30% of our Water
70% of our Open Space
Biodiversity

**Multi – Objective
Greenways – KEYED
OFF Urban River
Corridors, Creeks
Washes Streams**



1930 OLMSTED BARTHOLOMEW PLAN FOR LA BASIN

Emerald Necklace Expanded Vision

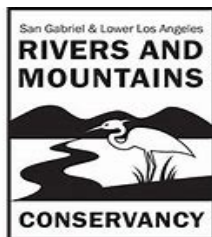


Convergent Infrastructure Planning



Mountains to Sea





**CALIFORNIA STRATEGIC
GROWTH COUNCIL**



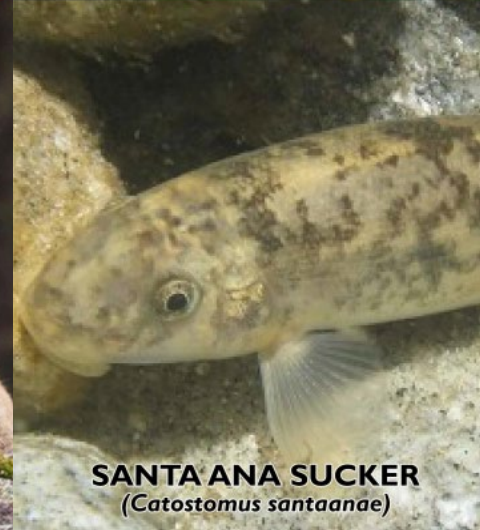
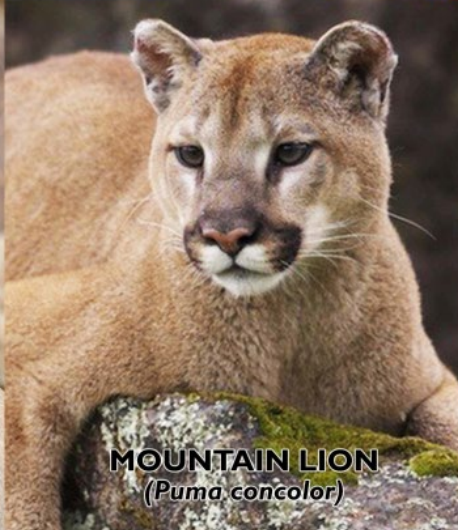
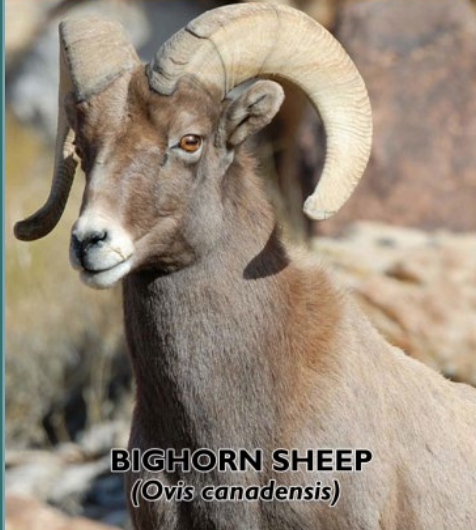
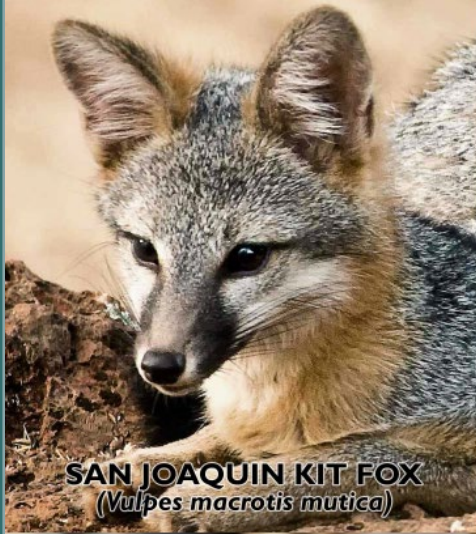
State Engagements: Partnerships w/ California Agencies

- **State Parks**
- **Fire & Forestry**
- **Natural Resources**
- **Water Resources**
- **EPA**
- **Transportation**
- **Rivers & Mountains**
- **Coastal Conservancy**

**California Strategic Growth Council*

**Cal Fed, California Climate Ready*

Los Angeles Basin's Biodiversity – Endangered Species



Mountains to Sea

A. Affordable Housing Sustainable Communities

“AHSC helps create holistic communities with affordable housing & transportation options near jobs & other key destinations.”



C. Climate Ready Grants



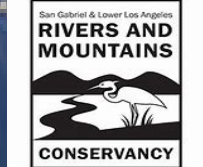
Nature-Based Solutions for Climate Adaptation
Funded by the Greenhouse Gas Reduction Fund

B. Transformative Climate Communities Strategic Growth Council

Challenges

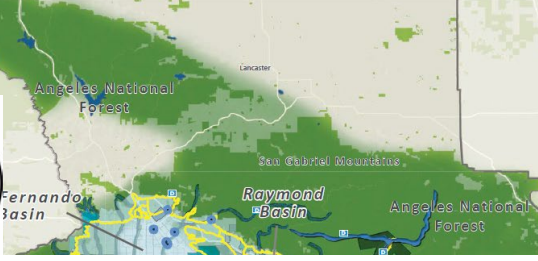


EMERALD NECKLACE

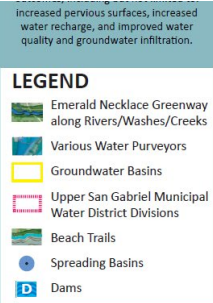


WATER BENEFITS MAP

Water resource management in Los Angeles County is rife with complexity, with a multitude of actors involved in the transportation and distribution of the region's water supply. Of the imported water that supports two-thirds of the county's demand, 40% comes from the Colorado River Aqueduct and 60% comes from the State Water Project.



California Bond Measures



Lacing NATURE into URBAN areas



PECK ROAD WATER
CONSERVATION PARK



VETERANS MEMORIAL
PARK



RIO VISTA PARK



LASHBROOK PARK



GIBSON MARIPOSA PARK



DURFEE THOMPSON
PARK



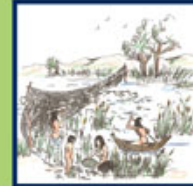
EMERALD NECKLACE



First People's Wisdom



Life along the River TONGVA



The men are hunting water level with nets and a woman is gathering duck eggs.



Acorn gathering. The men are pulling down the acorns and the women are storing the acorns in gathering baskets.

The Tongva/Gabrielino lived, for thousands of years, in the area that is now covered by Los Angeles County and parts of Orange County. They started each day with a prayer to bring out the sun and bathed in the waters of the river. Food was abundant and men chanted while fishing and hunting, women sang while they gathered plants, seeds, and shell fish, and children laughed while playing in the river. The sound of Shamans chanting in their sacred house was ever present. If you listen closely, you can still hear the Shamans' chants in the wind and their whispers in the water.

Tongva/Gabrielino hunted and fished the sea in great red wood and pine bark canoes called Te-ott and fished along the shore using large tule canoes. They also crossed to the island areas to trade with their fellow Tongva who chose to inhabit the island areas.

They spent the months from spring to fall gathering food and preparing it for the rest of the year. They also gathered reeds and

grass to make the different items they needed for daily life. Their houses were dome shaped, and were made by bending and tying willow branches into the shape needed and river reeds and grasses were then attached as thatching. The domes had one entrance and a "smoke hole" in the ceiling to let out the smoke from the small fire that was used for light and for keeping warm.

Plants and animals could not be collected or hunted unless prayers were made to ask the permission of the plant and animal people. Songs were sung and melodies were hummed to ensure the goodness of the food and to maintain the all important balance and connection in nature.

Tongva/Gabrielino, through their culture and rituals, have marked an important era in the history of this area and their significance will forever be present.

Hunting Tools and Artifacts



Fishing Net



Duck Egg



Gathering Basket



Canoe



Paddle



Fish



Shell



Reed



Grass



Willow Branch



Tule Canoe



Smoke Hole



Fire



Bird



Plant

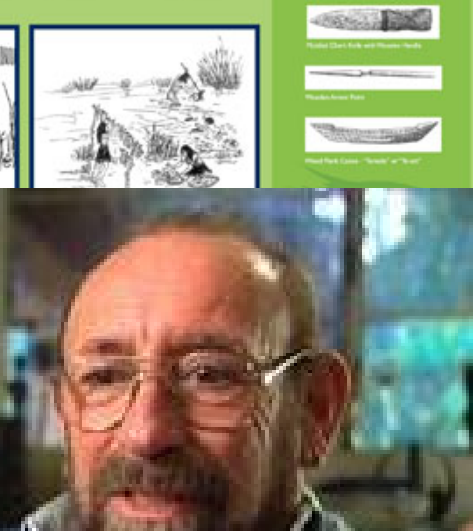
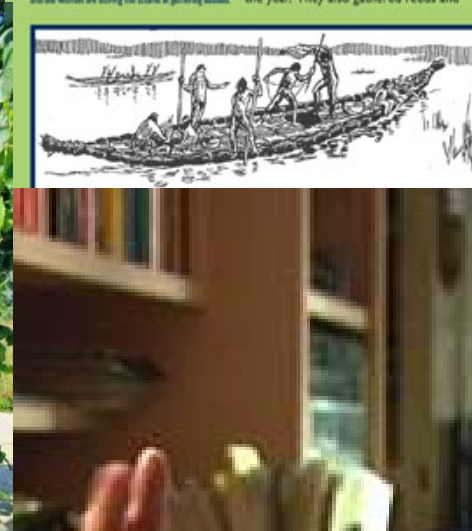


Stone

Tongva Homes
KICH (Keesh)

Rio Vista Park
Emerald Necklace
Rio Hondo/Los Angeles River

One of the great Tongva Myths describes the origin of the Kich. One of the seven giants who held up the world was TEHOVET NEKICH. This giant wore a wonderful woven cap that CHEHOOT, the Earth Mother had made for him because she loved him so much. When TEHOVET NEKICH realized that people needed to have shelter from the sun and a warm place to go at night, he took off the wonderful woven cap and placed it on the ground and invited people inside. This became the first Kich or Tongva home. Birds and squirrels came and made an opening for people could enter the giant's cap and dwell in their new shelter.



Tongva Gabrielino Kich Tribe LA BASIN acknowledgement & support

Emerald Necklace Expanded Vision



"We didn't care for playgrounds...the **RIVER** was better!"

1. "Our recreation was in the evenings, when all the children played games like hide and seek."

2. "Our playground was the riverbed and all open space around Hicks Camp."

3. "We were all there, family, friends, and I wish those times were still here."

4. "We didn't have much, the roads were dirt, some homes were made of cardboard, but we were all one family."

5. "Every celebration, every funeral, every event, we all knew that it was for everyone."

6. "We went to school barefoot."

7. "Residents of the barrios were sons and daughters of the Rio Hondo. They played in it and depended on it."

© 2004 Amigos de los Rios. Photos © La Historia Hispanica Society. For more information on the history of the Rio Hondo, visit www.la-historia-hispanica.com.

Author's Notes:
1. 2, 4, 5, and 6: Richard (Hutch) Pardo - former resident of Hicks Camp.
2. Dr. Ben Carrasco - former resident of Hicks Camp.
3. Sergio Jimenez - historian and grandson of Hicks Camp residents.

CELEBRATE Natural & Cultural HISTORY

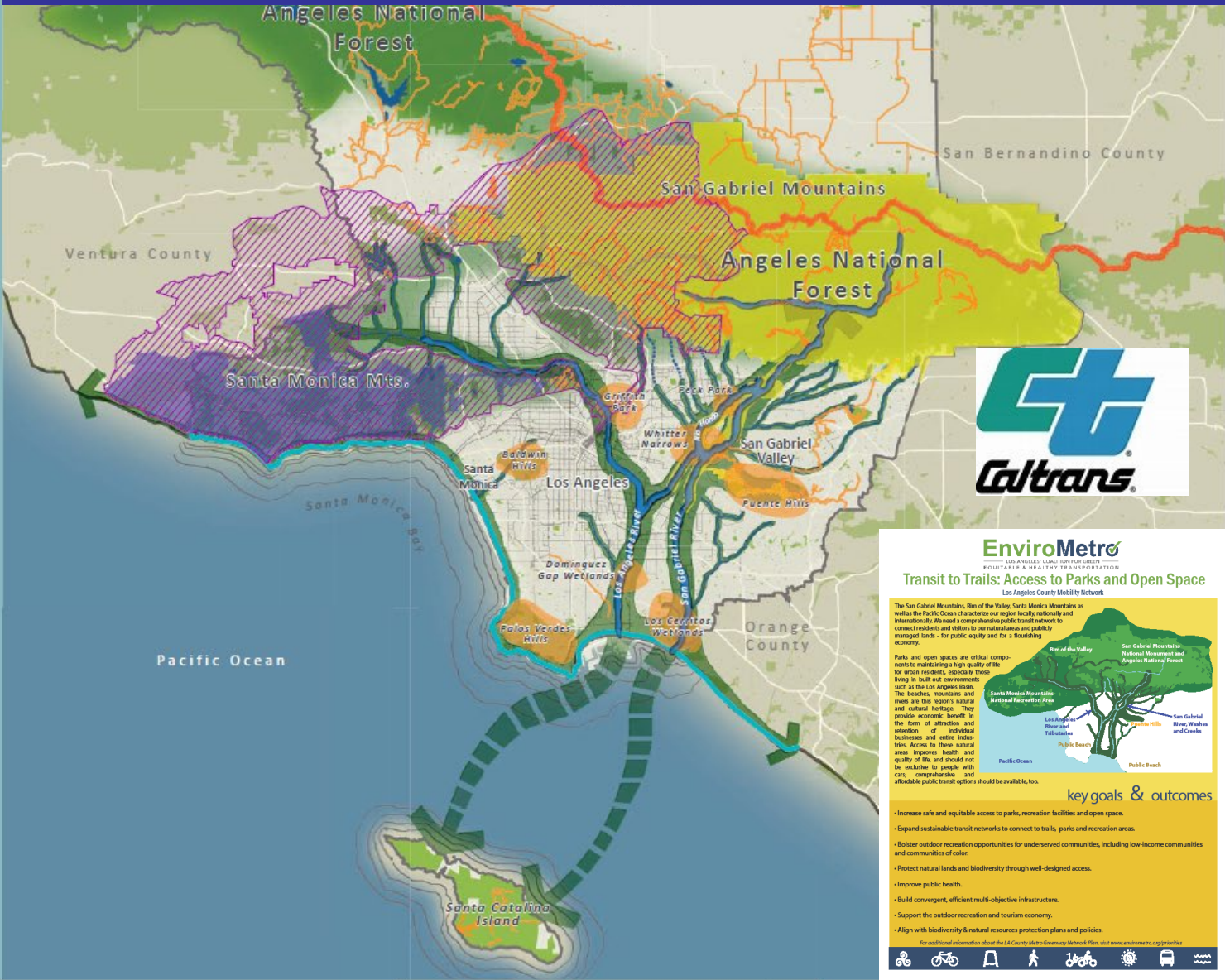
ACCESS TO NATURE
MAP

This map depicts the existing natural areas within the Expanded Emerald Necklace. These valuable spaces are connected through the river network, linking the areas together.

Also depicted is the existing Santa Monica Mountains National Recreation Area (NRA) as well as the Rim of the Valley and San Gabriel Watershed and Mountains study areas, which are currently under consideration for national designation and whose proposed borders are shown here, a status that would enhance the management of protected outdoor space in Los Angeles County.

LEGEND

- Emerald Necklace Greenway along Rivers/Washes/Creeks
- Proposed San Gabriel Watershed & Mountains Permanent Protections
- Proposed Rim of the Valley Corridor
- Santa Monica Mountains National Recreation Area
- Major Regional Anchors
- Existing Trails
- Beach Trails
- Pacific Crest Trail



EnviroMetro
LOS ANGELES' COALITION FOR GREENER, EQUITABLE & HEALTHY TRANSPORTATION
Transit to Trails: Access to Parks and Open Space
Los Angeles County Mobility Network

The San Gabriel Mountains, Rim of the Valley, Santa Monica Mountains as well as the Pacific Ocean characterize our region locally, nationally and internationally. We need a comprehensive public transit network to connect residents and visitors to our natural areas and publicly managed lands - for public equity and for a flourishing economy.

Parks and open spaces are critical components to maintaining a high quality of life for urban residents, especially those living in built-out environments such as the Los Angeles Basin. The beaches, mountains and rivers are this region's natural and cultural heritage. They provide economic benefit in the form of attraction and recreation of individual businesses and entire industries. Access to these natural areas improves health and quality of life, and should not be exclusive to people with cars; comprehensive and affordable public transit options should be available, too.

key goals & outcomes

- Increase safe and equitable access to parks, recreation facilities and open space.
- Expand sustainable transit networks to connect to trails, parks and recreation areas.
- Bolster outdoor recreation opportunities for underserved communities, including low-income communities and communities of color.
- Protect natural lands and biodiversity through well-designed access.
- Improve public health.
- Build convergent, efficient multi-objective infrastructure.
- Support the outdoor recreation and tourism economy.
- Align with biodiversity & natural resources protection plans and policies.

For additional information about the LA County Greenway Network, visit www.envirometro.org/greenway

LEGEND

- Industrial Area
- Commercial Area
- School
- Residential
- Equestrian Trail
- Class A Multi-benefit Bike trail
- Proposed Equestrian Trail
- Proposed Multi-benefit Bike trail
- Potential Park Entrance
- Existing Park Entrance
- Lake Edge View Point
- Exercise Station
- Picnic Area
- Sports Field



Emerald Necklace Jewel



Birds of the Rio Hondo PECK ROAD WATER CONSERVATION PARK

Emerald Necklace
Rio Hondo River
San Gabriel River



Many resident, migrant, and introduced species of birds utilize Peck Water Conservation Park throughout the year with 185 species having been recorded by the Pasadena Audubon Society. Avian abundance and diversity at Peck Park is typically greatest in the winter, when over-wintering waterfowl are found in large numbers on the lake. During the spring and fall migration periods, a number of migrant species are usually present. Information is needed on the breeding biology of birds that nest in Peck Park and how birds, resident and migrant species utilize the existing habitats. Please help us collect additional information by visiting <http://www.informabit.org/peck-road-water-conservation-park>.

Muchas especies de aves residentes, migratorias e introducidas utilizan al Parque de Conservación de Agua Peck durante todo el año, con 185 especies registradas por la Sociedad Audubon de Pasadena. La abundancia aviar y la diversidad en el Parque Peck normalmente es mayor en el invierno, cuando las aves acuáticas de Hibernación se encuentran en gran número en el lago. Durante los períodos migratorios de primavera y otoño una serie de especies migratorias están usualmente presentes. Se necesita información sobre la biología reproductiva de las aves que anidan en el Parque Peck y cómo las especies tanto residentes como migratorias utilizan los hábitats existentes. Ayudemos a recopilar información adicional visitando <http://www.informabit.org/peck-road-water-conservation-park>.

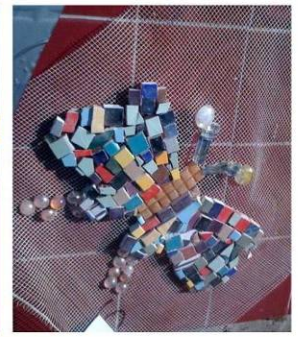
Please join us for a volunteer event to help care for this area.
www.Audubonpasadena.org or look us up on Facebook at: [Audubon de los Rios](https://www.facebook.com/AudubonPasadena).



Emerald Necklace Nature Trail

PROJECT PARTNERS:

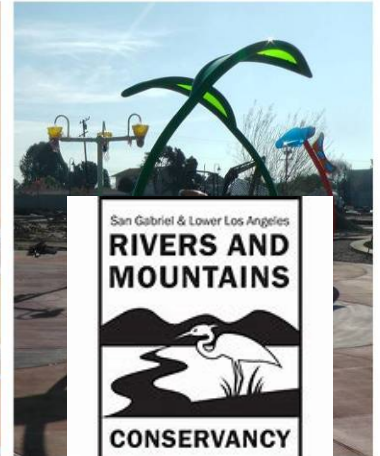




فراشة

butterfly

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COMMUNITY BASED DESIGN PROCESS

The fluttering of a butterfly's wings can effect climate changes on the other side of the planet.

Engaging the State – Governor Brown

Vulnerable Communities Lack Capacity

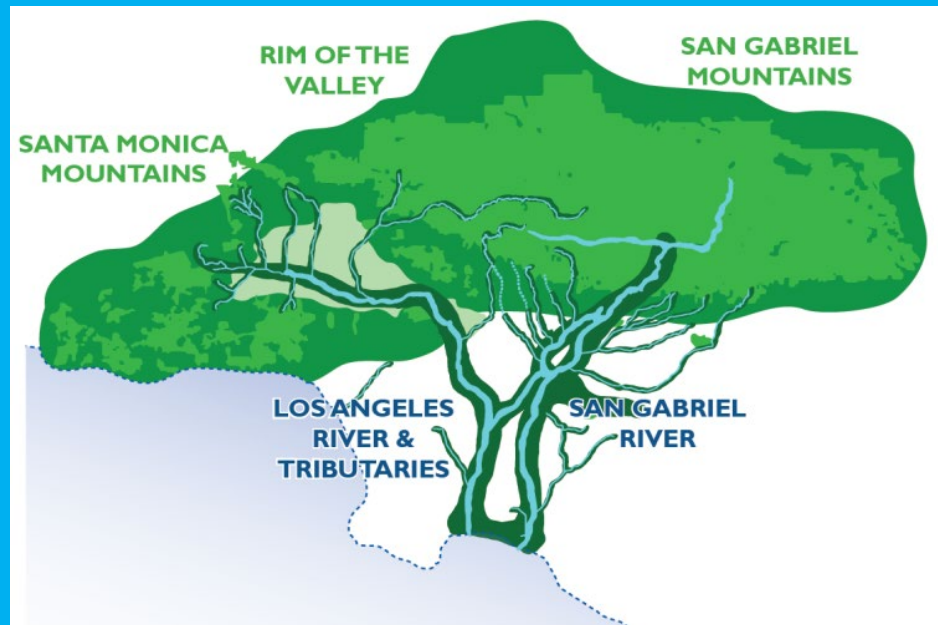
- Non Profit Sector plays critical role in natural infrastructure development -
- Yet State grants are designed for Municipal Agencies/ County Agency Recipients

Challenges

- Grants do not cover Overhead Costs of Projects
- Reimbursement Based Grants w/ long AR Cycle

HELP!!!!!!!!!!!!!!!!!!!!!!!!!!!!

• We Need a Green Infrastructure Bank





Green Infrastructure Vision LA BASIN



REGIONAL GOALS



REGIONAL GOAL

- 1 Promote Active Transportation - Walking, Biking, and Alternative Commute Options
- 2 Create Functional and Multi-Purpose Natural (Green) and Built (Grey) Environment Networks
- 3 Improve Public Health by Expanding Access to Nature and Outdoor Recreation
- 4 Treat Water as a Multi-Benefit Amenity
- 5 Design and Build Communities Resilient to the Current and Projected Impacts of Climate Change
- 6 Enhance Regional Anchors for People and Wildlife
- 7 Support Environmental Awareness and Civil Engagement through Education, Outreach, and Cultural Heritage
- 8 Foster a Green Economy that Creates Jobs and Encourages Investment in Local Multi-Benefit Projects

COMMON VISION


- 1 An interconnected network of walking and biking trails, from forest to ocean
- 2 Interconnected and complementary green and grey infrastructure networks
- 3 A nature-based network of recreation facilities that promotes public health, social justice and equity
- 4 A water network that infiltrates groundwater, manages wet weather events and provides human enjoyment
- 5 Communities resilient to changing water supplies, climate extremes and sea level rise
- 6 A linked network of open space treasures from the Mountains to the Sea
- 7 A network of culturally aware and civically involved communities that support conservation, restoration and recreation
- 8 A robust and sustainable local economy that produces new economic opportunities around a growing green infrastructure

TOWARDS A COMMON VISION

How do you Engage with your State?



Metropolitan Greenspace Alliance

CONSERVATION LANDS NETWORK


BAY AREA OPEN SPACE COUNCIL (OSC)

The Bay Area Open Space Council (OSC) is a collaborative of over 60 organizations – community-based groups, nonprofits, land trusts, and public agencies – involved in conserving, stewarding, and promoting the use of parks, trails, farms, and open spaces in the San Francisco Bay Area. The OSC was created in 1990 to fill the need for a coordinated approach to local land conservation. By working together, the OSC can achieve more and that it is critical to bring nature within reach of all Bay Area residents.

The OSC has successfully led a 5-year, science-based project to identify what lands are essential to protect for preserving biodiversity with its Conservation Lands Network. Their innovative Transit and Trails interactive website helps people find, plan and share their outdoor trips. With a focus on trailheads and low-carbon intensive ways of getting outside, Transit and Trails is the only one of its kind. The OSC holds an annual conference in May, convenes semi-annually Gatherings and posts often to its blog about what's happening around the region in land conservation.

Bay Area Open Space Council | 2150 Addison Way, Suite 320 | Berkeley, California 94704 | P: 510-809-8007 | Ryan@openspacecouncil.org
www.openspacecouncil.org

BAY AREA OPEN SPACE COUNCIL (OSC)

THE INTERTWINE

The Intertwine is our connected network of parks, trails and natural areas in the Portland, Oregon and Vancouver, Washington region. The Intertwine provides unparalleled opportunities to preserve natural areas, open spaces, water and wildlife habitat. The Intertwine reflects our region's passion for quality of life by encouraging recreation, connection to nature, and active transportation like walking, running and biking. As our urban areas grow denser, The Intertwine promotes the health and happiness we, as citizens of the Pacific Northwest, so deeply value.

The Intertwine Alliance | P.O. Box 5632 | Portland, Oregon 97228 | P: 503.288.5790 | Mike@intertwine.org
www.theintertwine.org

THE INTERTWINE




Chicago Wilderness

The Chicago Wilderness Green Infrastructure Vision (GIV) paints a bold picture of what our region can look like if we are careful to protect the natural areas, corridors, and open spaces that are critical to our quality of life. The nearly 370,000 acres of natural areas that make up Chicago's Wilderness comprise our "green infrastructure," and are as critical to the people in this region as our built environment and transportation systems. The GIV identifies 1.8 million acres of prospective protection and restoration areas in the Chicago Wilderness region – spanning from southeast Wisconsin, through northern Illinois into northwest Indiana and southeast Michigan.

Chicago Wilderness | 8 South Michigan Avenue, Suite 900 | Chicago, IL 60605 | P: 312.580.2137 | F: 312.246.5608 | networks@chicagowilderness.org
www.chicagowilderness.org

CHICAGO WILDERNESS





LEAP FOR BIODIVERSITY

The Lake Erie Allegheny Partnership for Biodiversity (LEAP) is a consortium of organizations. Our geographic boundary encompasses the glaciated lands and waters south of Canada from Sandusky Bay to the Allegheny Mountains. This region contains diverse habitats and rare ecosystems that harbor many unique and uncommon species. These natural communities are found within an extensive network of public and private lands throughout the glaciated region of northeastern Ohio, northwestern Pennsylvania, and western New York.

LEAP for Biodiversity c/o The Cleveland Museum of Natural History | 1 Wade Oval Dr. | Cleveland, OH 44106 | P: 216.231.4600 ext. 3505
leap@leapbio.org
www.leapbio.org

LEAP FOR BIODIVERSITY



HOUSTON WILDERNESS

Southeast Texas is among the most diverse ecological regions in the United States. Here, seven major ecoregions comprise a ribbon of undeveloped land encircling Houston – connecting existing parks, refuges, beaches and waterways that protect portions of our irreplaceable native landscapes. HOUSTON WILDERNESS is a broad-based alliance of business, environmental and government interests that act in concert to protect, preserve and promote the unique biodiversity of the region's precious remaining ecological capital which include 7 major ecoregions from bottomland hardwoods and prairie grasslands to pine forests and wetlands. This mission is accomplished through development & implementation of a San Houston Greenbelt Planning Area, which includes a state of initiatives (supported by network partners) that provide assistance and facilitation of various policy issues; allows for Collaborative Partner Access to people, places and information; and facilitates collaborative grant-making opportunities for local conservation efforts, ecosystem services studies, eco-tourism, and education. Currently over 60 Network Partners work on various conservation/environmental/recreation aspects within the San Houston Greenbelt Planning Area.

Houston Wilderness | P.O. Box 66413 | Houston, TX 77266-6413 | P: (713) 524-7130 | F: (713) 525-9600 | prone@houstonwilderness.org
www.houstonwilderness.org

HOUSTON WILDERNESS




Sweet Water

Sweet Water, the Southeastern Wisconsin Watersheds Trust, Inc., is an award-winning nonprofit partnership established to achieve healthy water resources throughout the 1,100 square mile Greater Milwaukee watershed. Recognizing that our rivers travel through the region irrespective of governmental boundaries, Sweet Water addresses the issues facing our five watersheds and nearshore Lake Michigan through a cooperative, basin-wide approach. Members include local governments, special purpose districts, non-profits, residents and representatives of business and academia.

Sweet Water | 600 E. Greenfield Ave. | Milwaukee, WI 53204-2944 | P: 414.382.1766 | marketing@sweetwater.org
www.sweetwater.org

SWEET WATER

National Movement Efficient Natural 'State of Art' Infrastructure for Cities