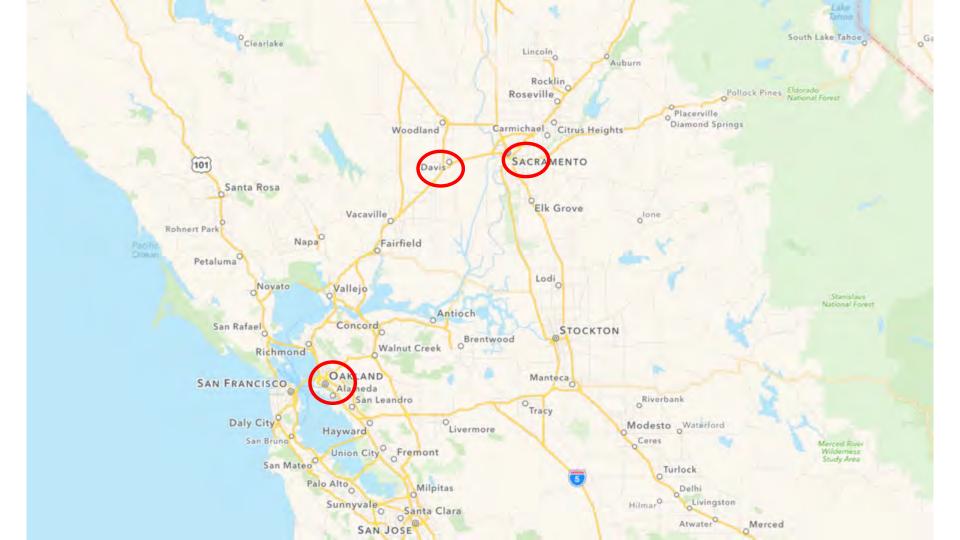


### **OUTLINE**

- A move to California
- Contrast: Davis versus the Coachella Valley
- CV Link concept
- Local context
- Planning
- Design
- Challenges
- Outreach
- Lessons





CALIFORNIA: A PLACE OF CONTRASTS

DAVIS













# THE DAVIS WEDNESDAY, MOVEMBER 26, 2014 REASON REASON

Need a Handyman or a Bike Repaired? I come to you



530.302.5186

teles une hibrarely despit grand com-

tobysmobileworkshop.com

Professional quality bicycle and handyman repair services from my pedal powered work station

Give thanks for nature's beauty





# CALIFORNIA: A PLACE OF CONTRASTS COACHELLA VALLEY











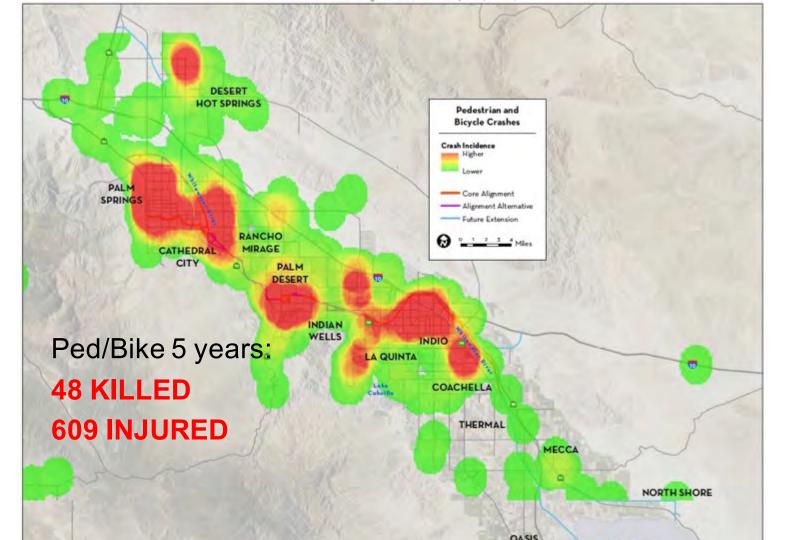




























## **Concept: CONTRAST**

#### Coachella Valley

- arid, dry
- brown, earthy, muted
- flat, horizontal
- rough, rocky, textured

#### <u>Hwy 111</u>

- indirect, inefficient
- anonymous

#### Whitewater River

- heavy, static
- angular

#### **CV Link**

- lush, water
- vibrant, colorful
- dynamic, vertical
- smooth, sleek, modern

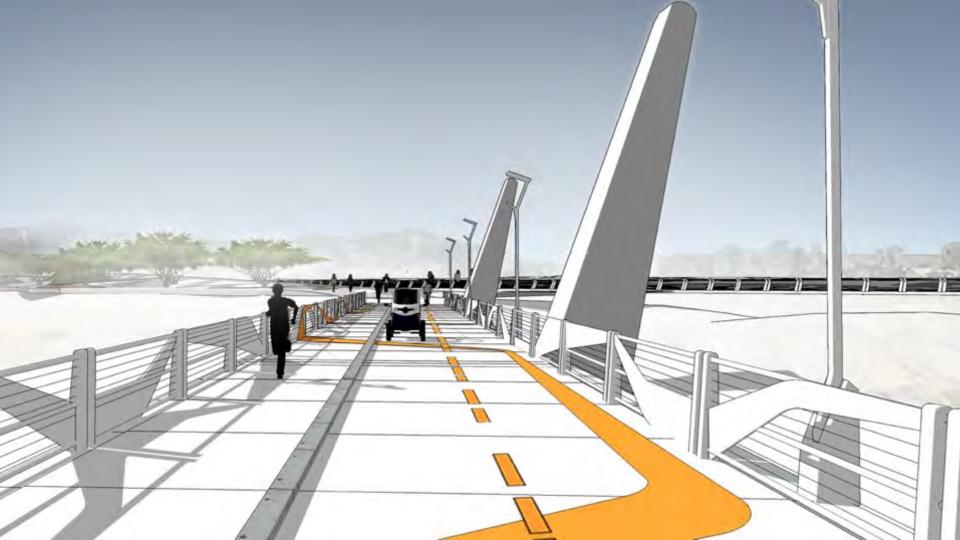
#### **CV** Link

- direct, efficient
- fun, social

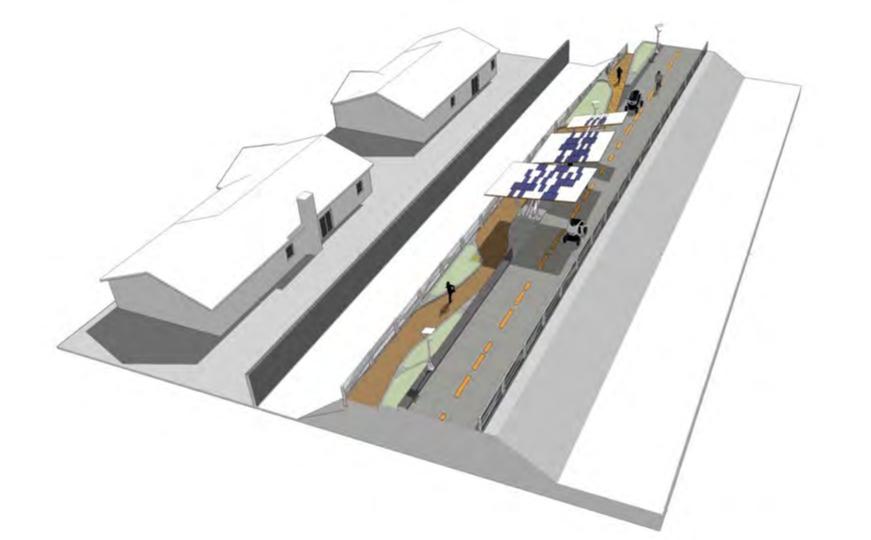
#### **CV Link**

- light, dynamic
- fluid











# SUPER PATHWAYS WORLDWIDE

#### **Germany: RS1**



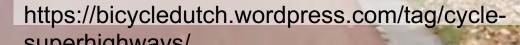
#### Denmark: Albertslund - Copenhagen

- Length (first route): 22 km long
- Vision: 22 cities, 26 routes, total 300 km
- Key features:
  - orange stripe for wayfinding
  - traffic signal "green wave"



#### The Netherlands: F35 Bicycle Fast Way

- Length: 60 km long parallel to A35
- Design:
  - -4 m wide
  - Under 5,000 vpd: cycle street OK
  - Busy roads: grade separation
  - Maximum delay: 15 s/km
- Response to:
  - Urban sprawl
  - Health objectives



#### South Korea: Daejeong to Sejong



#### **Wolf River Greenway Impact Analysis**





#### Wolf River – Health Emphasis





#### Waikato - Te Awa River Ride







## What worked, golf oriented development, doesn't today.



SERVING THE COACHELLA VALLEY SINCE 1927



The setting sun lights up a stand of palms along the lake at the 10th green on the Palmer Private course at PGA West in La Quinta. Experts say changing golf habits and uncertain economic times are threatening the future of Coachella Valley golf course communities and private clubs.

### Golf course communities facing uncertain futures

Change in golf habits, tough financial times threaten key local economic engine

By Mike Perrault



#### Perception of Coachella Valley in DC / SAC



#### So Do We Care What They Think?

Unfortunately, Yes



# Will Nation's Largest Dedicated Public Electric/Bike Parkway Change Perceptions?



#### **Ambitious Plan**



Very Reasonable Incremental Steps Identified

#### **Ambitious Plan**



What if we could solve the funding gap?

# What if it was more than a bike trail?



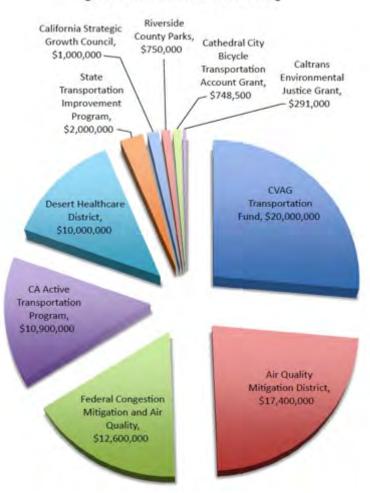


#### What if?

It was Mostly or Entirely Grade Separated?



Figure ES-6: Confirmed CV Link Funding



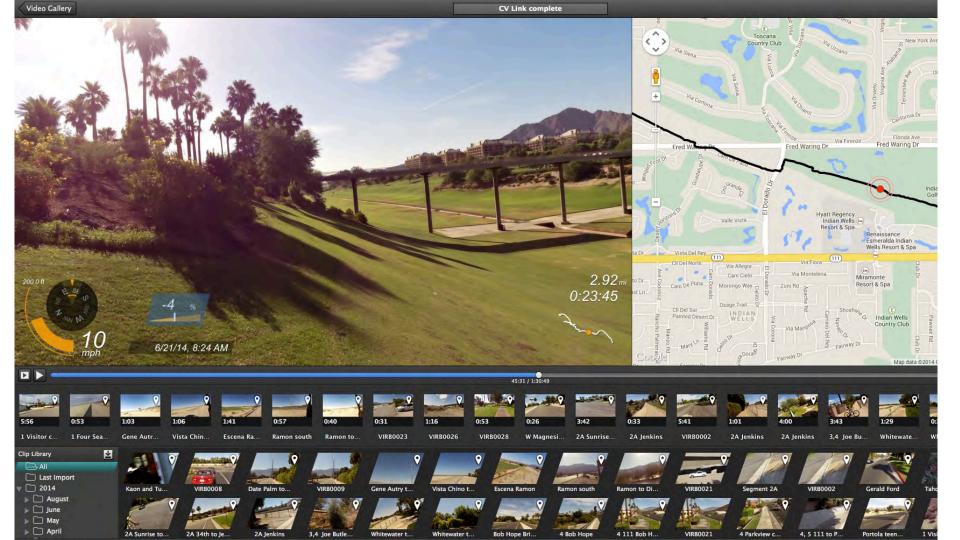
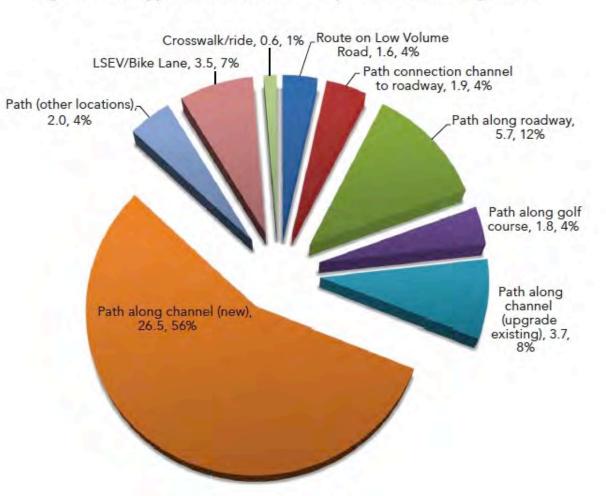


Figure ES-2: Typical Conditions of Proposed CV Link Alignment

- 5 schools adjacent
- 19 schools within 1 km
- Route tailored around gated golf courses and serving major retail / employment centers

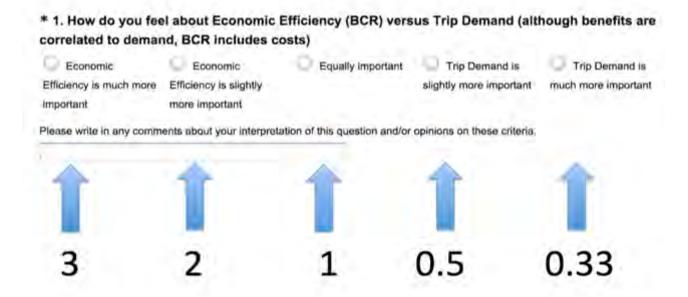






#### **Diverging Values on Steering Group**

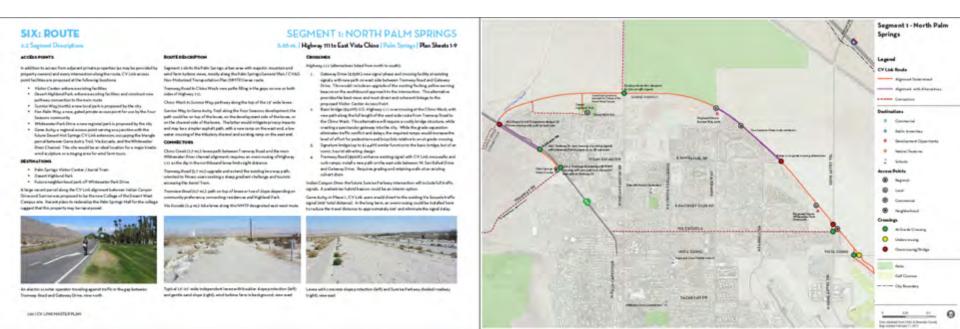
- Criterion A is equal to criterion B
- 2. Criterion A is slightly more important than Criterion B
- 3. Criterion A is definitely more important than Criterion B *Inverse is taken if B is more important than A.*



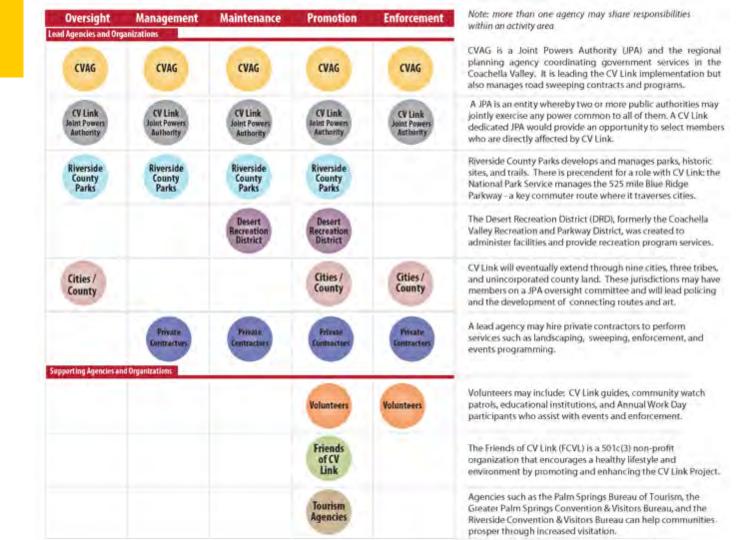
						Evaluation (1 to 3, higher numbers are better)								
Variations requiring evaluation (other variations are design or phasing decisions)					<b>Environmental Factors</b>	Cost	Demand	Leverages Network	Right of Way	Amenity	Safety	Directness	WEIGHTED SCORE	RANK
			WEIGHT	22%	4%	13%	17%	3%	8%	13%	13%	6%	100%	
	North Palm Springs													
1	Overbridge at Chino Wa	ash		3	1	2	2	1	2	3	3	3	82%	1
2	Gateway Dr signals			2	3	3	2	2	2	2	1	2	68%	2
3	Tramway Rd / W San Ra	afael Dr signals		2	2	1	3	3	1	2	1	1	60%	3
	Cathedral Canyon													
1	Whitewater right bank			1	1	2	2	3	1	3	3	3	67%	1
2	Whitewater left bank	MAIN BENE	FIT:							3	3	2	65%	2
3	Jenkins Trail		JS BUILDING O	NI CI	OIT	EDI	۸ \ / ı	۸ I I	ıE	1	1	1	54%	3
	Rancho Mirage: Whitew				71.1		~ v <i>i</i>	<b>~</b> L(	ノ匚					
1	San Jacinto / Rancho Las	JUDGEMEN	115							2	2	2	68%	2
2	Whitewater River Channel / Bob Hope (east frontage)			3	2	2	1	2	3	3	3	2	80%	1
	Rancho Mirage: Bob Ho	pe to Monterey Av	2											
				-	-	_				- 2	-	-	-2007	

#### **Master Plan Report**

- Challenge 1: scope...664 pages in 4 volumes
- Challenge 2: sync edits in Adobe InDesign
- Challenge 3: public perceptions



#### **O&M Plan**



#### **O&M Benchmarking**

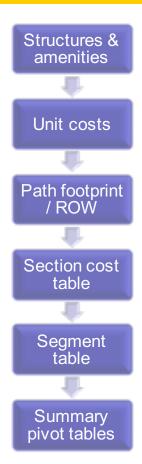


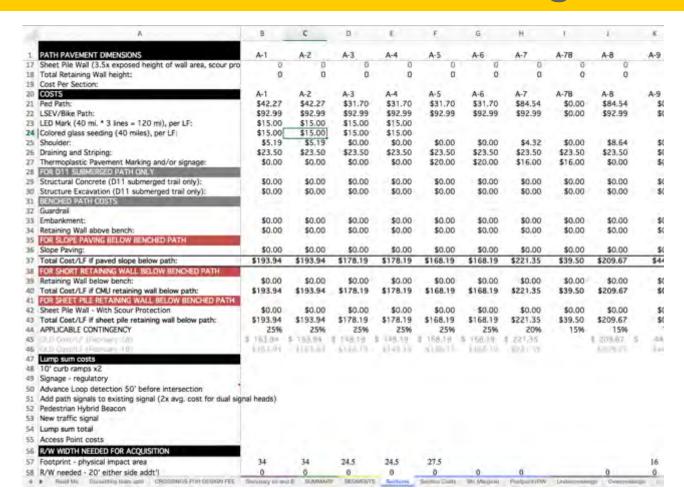


#### RELATIVE COST PER MILE PER YEAR



#### CV Link – Master Plan Cost Estimating







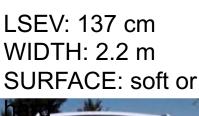
#### **Design vehicle**



**PEDESTRIAN** 



**CYCLIST** 





Not in NZ law

**LSEV** 





IMG 2768 S Riverside Dr / S Camino Real, Palm Springs

NEVs Yield to Pedestrians and Bicycles on bridge

Sunrise Way, Palm Springs IMG 2758

High visibility neon yellow bicycle / pedestrian crossing warning sign





IMG\_2746 Near Desert Chapel, Palm Springs

irrigation fixtures.

Warning: You are entering a golf course area. Beware of stray golf | Private Property Trespassing/Loitering Forbidden by Law No Dogs balls. The bikeway user assumes all risks associated with personal injury and property damage. Alternate routes have been provided. Thank you, City of Palm Springs. Supplementary plates: Bicycle symbol; Recycled Water - Do not drink from



The proposed CV Link should have segregated dog parks at frequent

intervals, as dog owners are likely to visit daily and contribute to the



IMG 2610 Washington St / Hwy III. La Quinta IMG 2522 Cook Street, Palm Desert

IMG\_2735



Desert

Cart Lane Begin







No parking Bike Lane Golf.

IMG 2445 Portola Rd. Palm IMG 2292 Near Knotts Water Park, Palm Springs No Pedestrian or Bicycle Traffic

(Golf carts) Park off Bike Path Beyond this Point

IMG 2270

Palm Springs Cathedral City Entrance To Bike And Equestrian Path Caution Horses Have Right Of Way Proceed With Care









IMG 4189 Civic Center. Palm Desert Golf Cart Parking Only

No Parking Golf Cart Lane

IMG 4793

Dinah Shore

Tahquitz path.

IMG 2223 Cimarron GC

Two Way Bile/Ped Route Shared Out of Bounds Golf Carts &

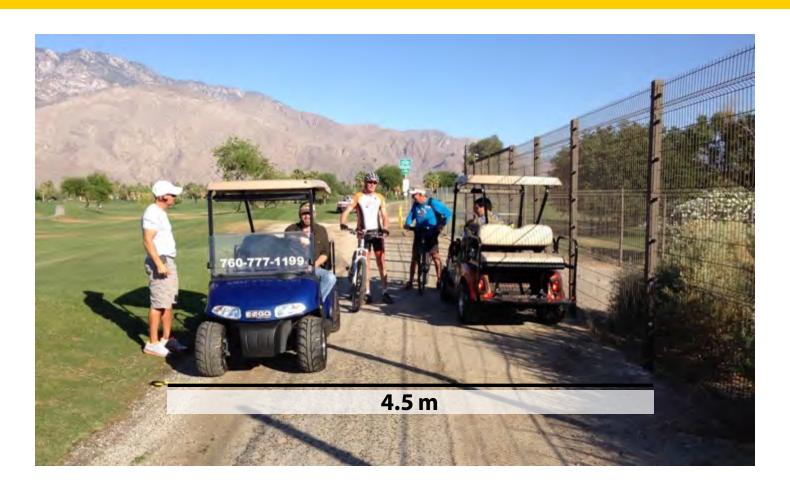




IMG\_0655 Joe Butler Trail, Rancho Mirage

IMG 1963 Bear Creek Path, Avenida Montezuma, La Quinta

#### **Field confirmation**



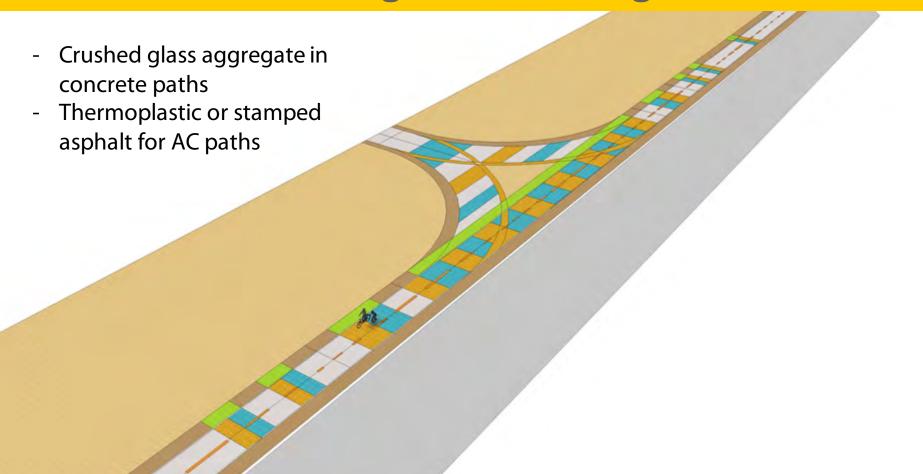
#### **On-street**

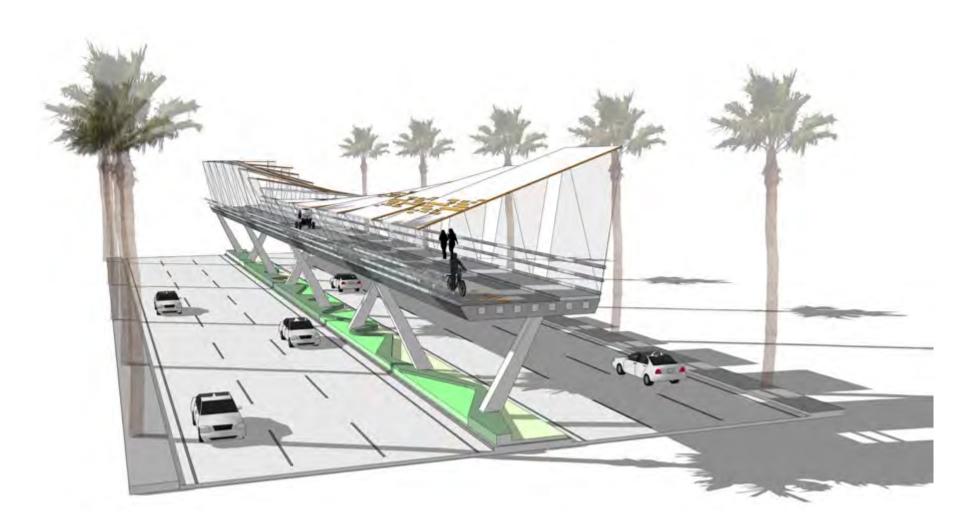


#### **Design Standards:** Modal Compatibility



















# **WEST** Valley

- Low independent levee(s)





# **WEST** Valley



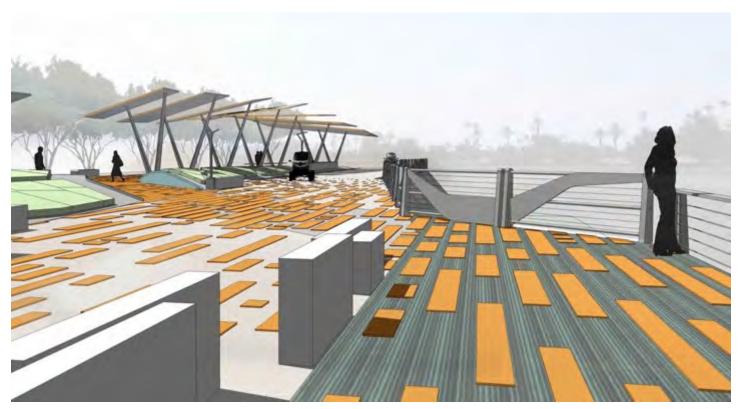
# **CENTRAL** Valley

- Channel bench or slope





# **CENTRAL** Valley



McAuliffe & Company

# **EAST** Valley

- High independent levee





# **EAST** Valley

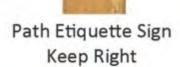


Hermann Design Group















## Interpretation + Education

### **Valley Innovations**

- Wind farms
- Solar
- Aerial Tramway
- PEV readiness
- Air quality monitoring
- Pathway user counts









## Art

- Alternative energy sources
- Interactive and inviting
- Light and digital projection
- Motion activated
- Wind, water, and solar themes





Energy Generating Art, Singapore

Digital Art, Santa Clara

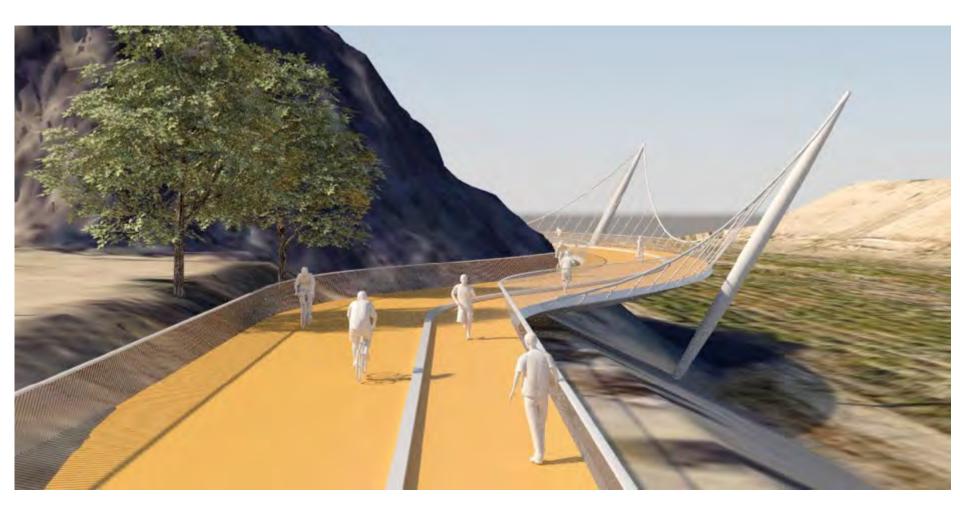
# GRADE SEPARATIONS







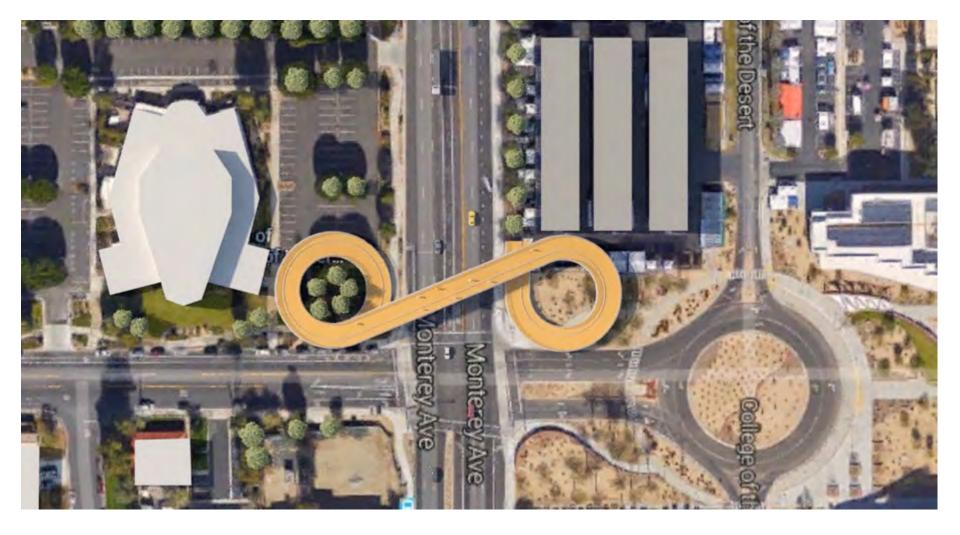










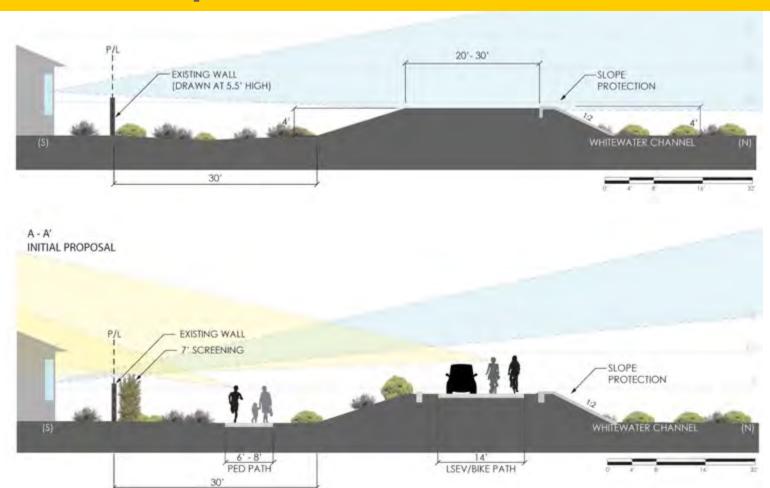




# **Light Spillover / Dark Skies Ordinances**



# **Impact on Mountain Views**



## **Vandalism and Litter**

- Existing Condition Flood Control Channel
- More eyes on the corridor, replacing illegitimate use with legitimate use
- High level design, vandal resistant
- Managing agency, prompt responses to issues



## Crime

- Crime Prevention Through Environmental Design (CPTED)
- Programmed activities/ events – activate the space
- Ranger patrols, community trail watch
- Infrastructure call boxes,
   CCTV cameras



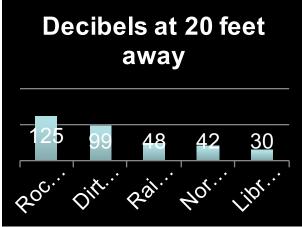
- Litter & crime (survey of 372 trails):
  - Litter non-existent on developed trails; major problem on un-developed trails
  - 97% had no major crime issues over a two-year period
- Vandalism and crime (MN):
  - Proposed trails: 75% had concern
  - Established trails: <6% had concern</li>
- Crime along the Burke-Gilman Trail, WA
  - 1.25 break-ins per year, less than neighborhood average
- Quality of life along the Brushy Creek Trail, Santa Rosa, CA:
  - 65% of adjacent residents say trail enhanced quality of life

# **Noise From Motorcycles & ATVs**



# **Noise From Legitimate Users**

- Courtesy signage
- Elevation / soundwall
- White noise





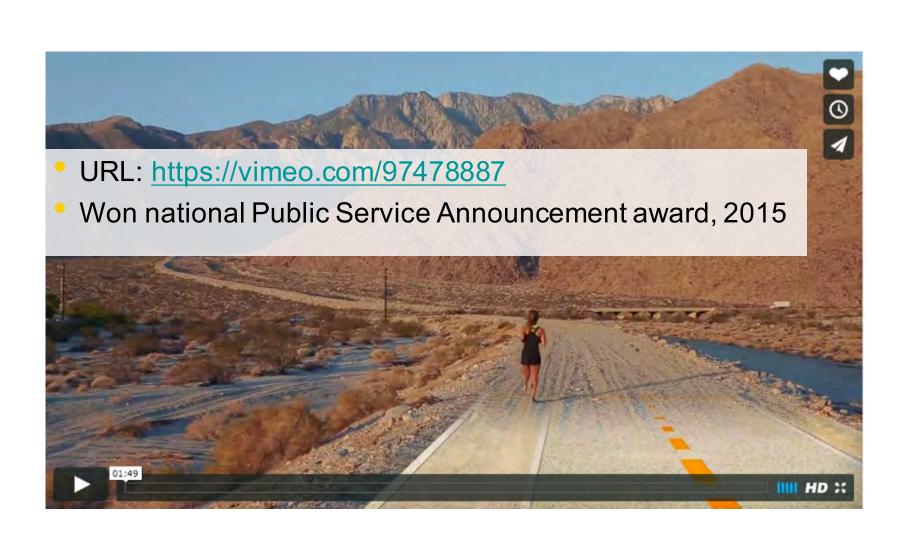
## **Harsh Conditions**



# **Property Values**

- \$510 higher median home values for every ¼ mile closer to a trail in Minneapolis-St. Paul
- 11% higher values for homes within ½ mi. of Monon Trail (IN)
- 6% higher values *near* trail; 0% difference *adjacent* to Burke-Gilman Trail (WA) compared to similar homes not near
- 87% of owners adjacent to Luce Line Trail (MN) believed the trail increased or had no effect on their property value, 2006; District DOT, 2013; Lindsey et al, 2004; Seattle Office of Planning 1987







Sign-up for email Email Address

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ABOUT THE VISION MEETINGS GET INVOLVED



#### Welcome to the CV Link project information page.

Welcome to the CV Link, a revelutionary new concept in framsportation. Led by the Coachella Valley Association of Governments, the CV Link is the first of its load to incorporate pedestrians, bicyclists, and low speed electric vehicles in one project. CV Link will connect eight Coachella Valley cities and the lands of two festically recognized inbes with an alternate transportation route to the busiest condor in the Coachella Valley.

As part of the CV Link project, the Coachella Valley Association of Governments (CVAG) is issuing the Draft Master Plan and appendices

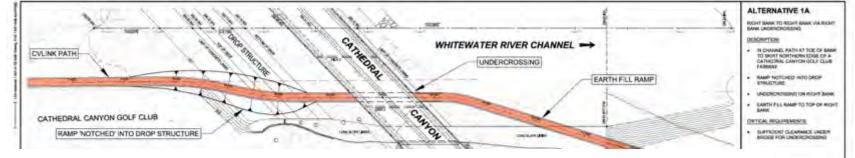
View Draft Master Plan

View Draft Master Plan Appendices

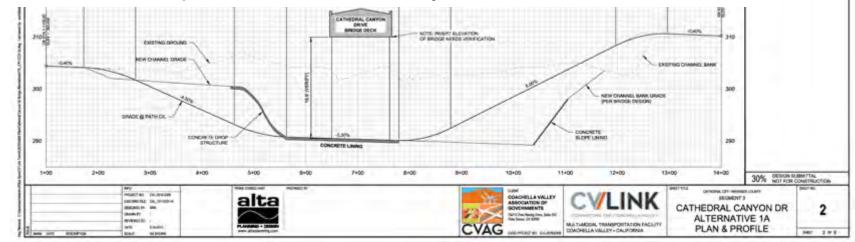
View NEV Draft Plan

View Preliminary Plans





- Currently in detailed design and environmental approvals stage
- First segment in Cathedral City to open in 2017
- Substantial completion of about 50km by 2019



# **CV** Link summary

- Momentum achieved through near term implementation vision
- Striking but affordable design elements work to build enthusiasm
- Set desirable dimensions rather than minimums







# Thank you!

john@viastrada.nz