

ALTERNATIVES ANALYSIS



ALA PONO

an Ala Wai crossing

Department of Transportation Services
March 2019



Honolulu
COMPLETESTREETS

MEETING OVERVIEW

- Welcome and Introductions
- Presentation
 - What we heard from you
 - How we used your feedback
 - Future project phases
- Open House



Honolulu
COMPLETESTREETS



INTRODUCTIONS

- **Project Team**

*City and County of Honolulu
Complete Streets Program
Planners and Engineers*

- **Consultants**



JEFFERSON ELEMENTARY STUDENT WORK



WHY “ALA PONO”?



Honolulu
COMPLETESTREETS

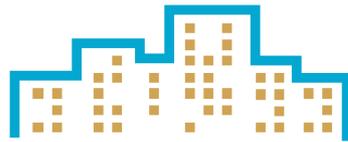


PROJECT PURPOSE



ADDITIONAL ACCESS

between Ala Moana Blvd and Manoa/Palolo Stream.

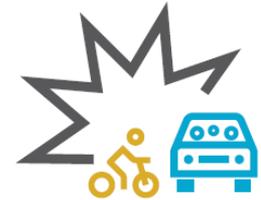


BENEFIT COMMUNITIES with highest percentage of **NON-AUTO** commute share.



SHORTEN TRAVEL DISTANCES:

potentially 10 min of bicycle travel time savings; shorten walking trips by 20 minutes.



REDUCE CAR-BIKE COLLISIONS:

17 crashes involving people walking and biking in the area between 2012-2016.

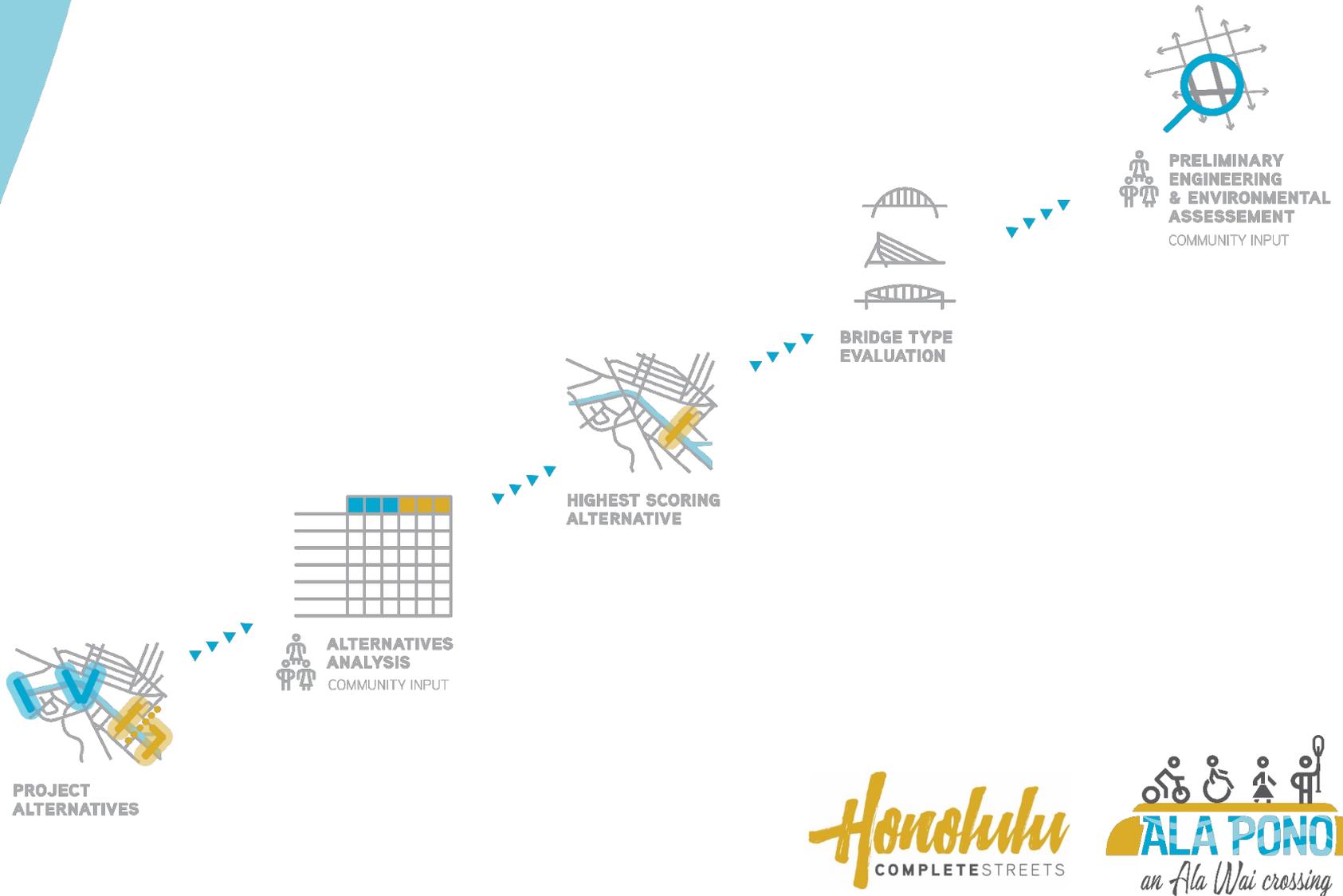


MEETING PURPOSE

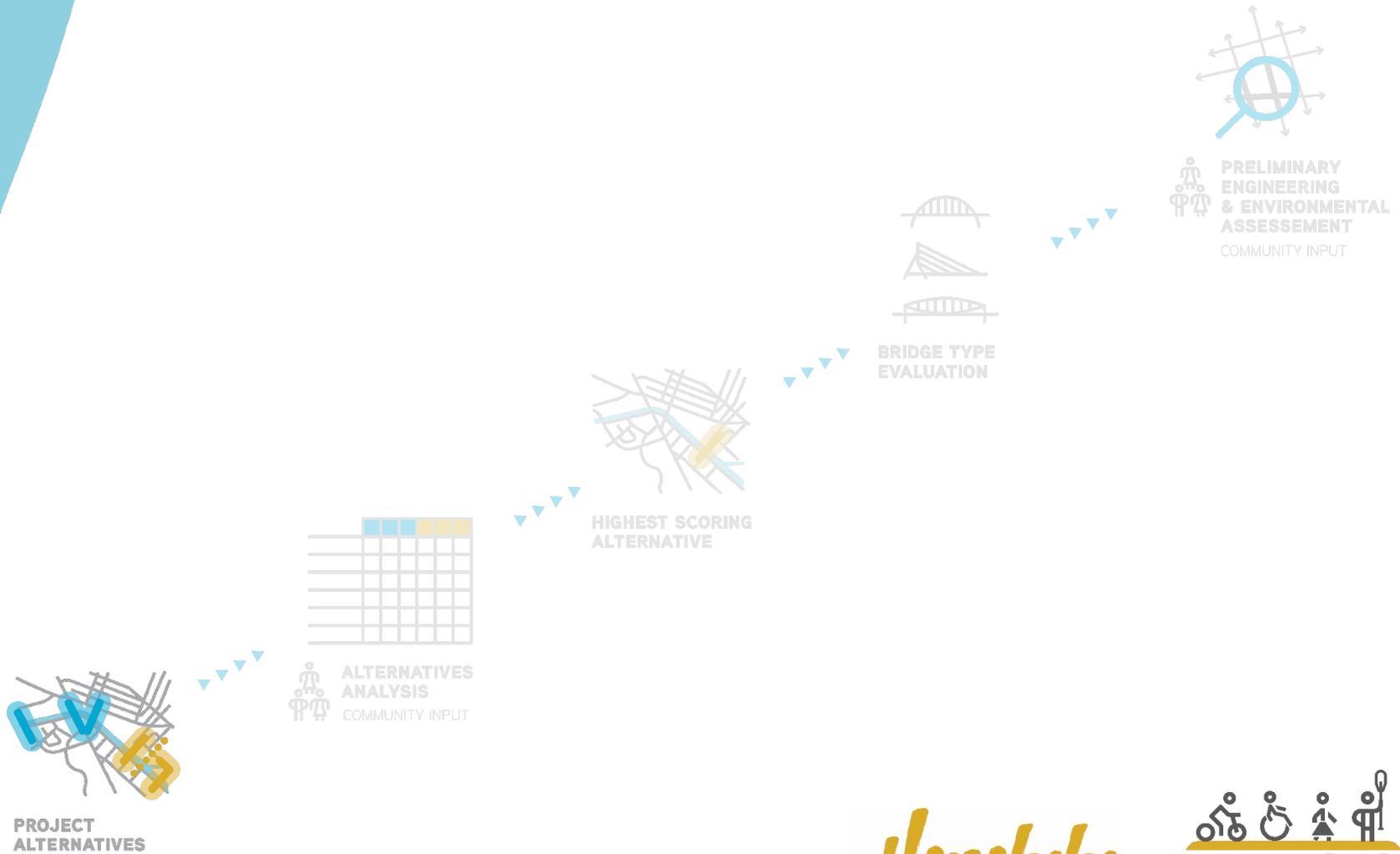
- Review work completed since our last meeting
- Present **data-driven analyses** and results comparing crossing alternatives
- Share how we used your **feedback**
- Learn what's most important to you in **future project phases**



ALTERNATIVES ANALYSIS PROCESS

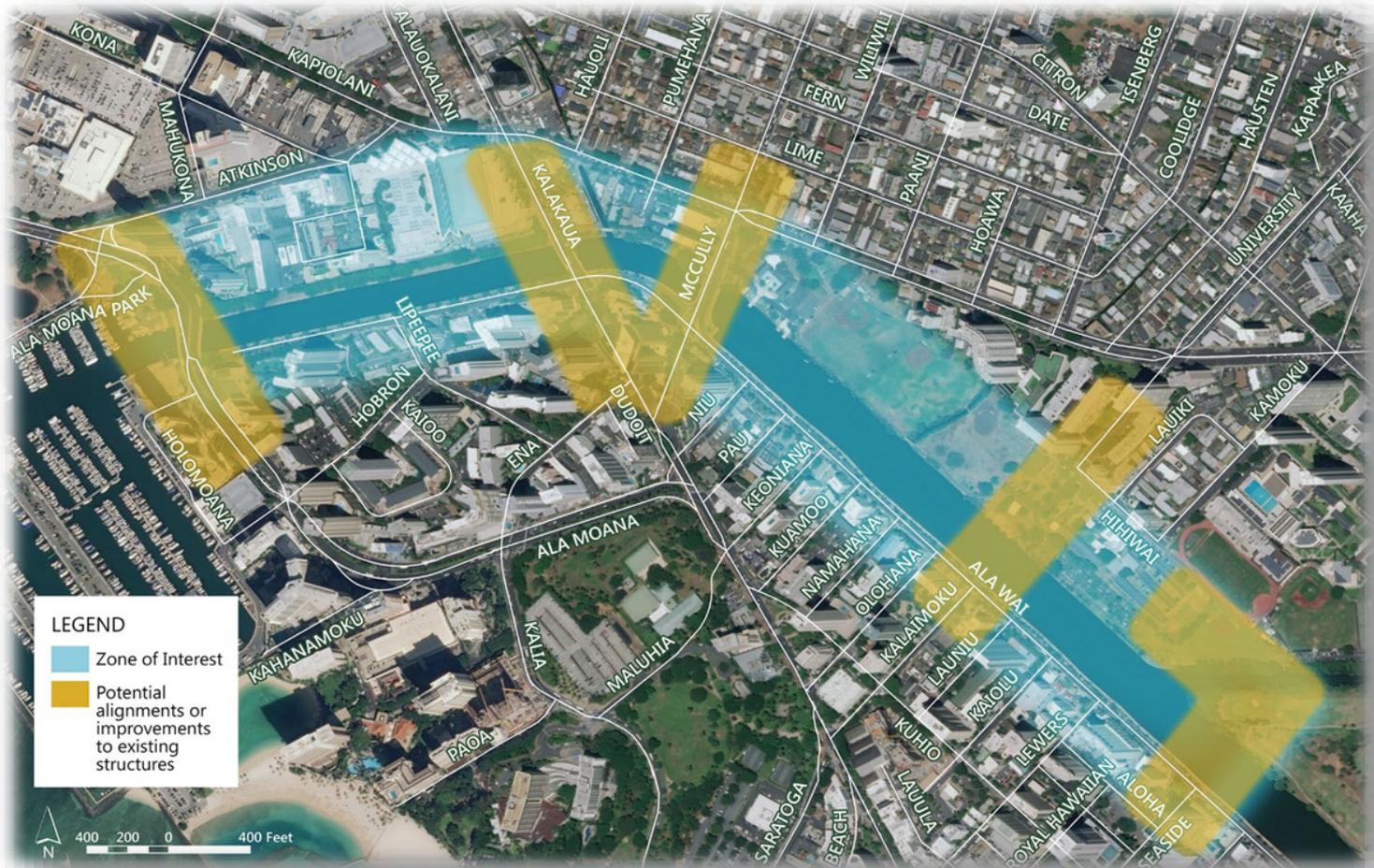


PROJECT ALTERNATIVES





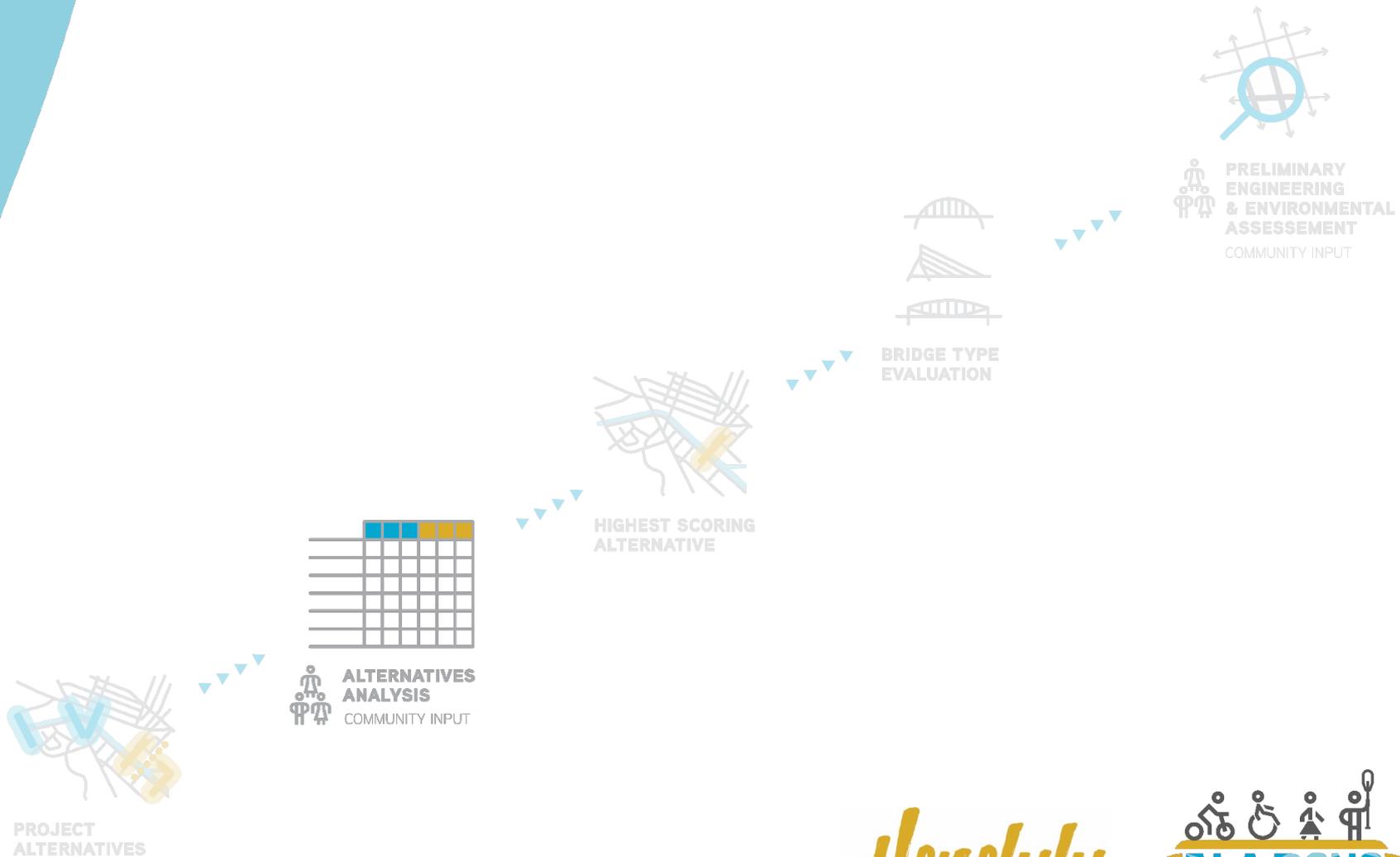
ALIGNMENTS ANALYZED



Honolulu
COMPLETESTREETS

ALA PONO
an Ala Wai crossing

ALTERNATIVES ANALYSIS



PROJECT ALTERNATIVE EVALUATION

Data-driven analysis informed the evaluation of crossing alternatives. Alternatives were ranked according to their potential to meet expressed project goals.

INCREASING EVALUATION WEIGHT

PUBLIC INPUT (22 PTS)

COMPLETE STREETS CONNECTIVITY (15 PTS)

POTENTIAL ENVIRONMENTAL IMPACTS (10 PTS)

IMPLEMENTATION (10 PTS)

SAFETY FROM TRAFFIC (10 PTS)

TRAVEL TIME AND CONVENIENCE (10 PTS)

ENHANCE SUSTAINABLE MOBILITY AND IMPROVE PUBLIC HEALTH (10 PTS)

AFFORDABLE ACCESS (5 PTS)

IMPROVED NON-MOTORIZED EMERGENCY EVACUATION AND PUBLIC SAFETY (5 PTS)

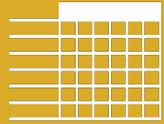
VIBRANT CANAL (3 PTS)

TOTAL SCORE (OUT OF 100)

	NO BUILD	IMPROVEMENTS TO EXISTING STRUCTURE			NEW BRIDGE		OTHER ALTERNATIVES		
	NO BUILD	ALA MOANA	KALAKAUA	MCCULLY	UNIVERSITY	GOLF COURSE	AERIAL TRAM	AQUABUS	TUNNEL
		A	B	C	D	E	F	G	H
PUBLIC INPUT (22 PTS)	○	○	○	●	●	●	○	○	○
COMPLETE STREETS CONNECTIVITY (15 PTS)	○	●	●	●	●	●	○	○	●
POTENTIAL ENVIRONMENTAL IMPACTS (10 PTS)	○	●	●	●	●	●	●	●	●
IMPLEMENTATION (10 PTS)	○	●	●	●	●	●	○	●	●
SAFETY FROM TRAFFIC (10 PTS)	○	●	●	●	●	●	●	●	●
TRAVEL TIME AND CONVENIENCE (10 PTS)	○	○	○	○	●	●	○	○	●
ENHANCE SUSTAINABLE MOBILITY AND IMPROVE PUBLIC HEALTH (10 PTS)	○	●	●	●	●	●	○	○	●
AFFORDABLE ACCESS (5 PTS)	○	○	○	○	●	●	●	●	●
IMPROVED NON-MOTORIZED EMERGENCY EVACUATION AND PUBLIC SAFETY (5 PTS)	○	●	●	●	●	●	●	●	●
VIBRANT CANAL (3 PTS)	○	●	●	●	●	●	●	●	○
TOTAL SCORE (OUT OF 100)	20	43	43	51	95	74	19	26	58

HIGH - ● MEDIUM - ○ LOW - ○





HOW WE HEARD FROM YOU



2 PUBLIC OPEN HOUSES



225 ATTENDEES



180 LIVE POLLING RESPONSES

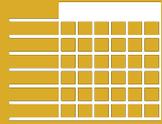


900 IN-PERSON SURVEYS OF TRAVELERS AROUND THE CANAL



190 RESPONSES TO ONLINE SURVEY





WHAT WE HEARD FROM YOU

PEOPLE'S TOP TRAVEL PRIORITIES ARE...



TRAVEL TIME



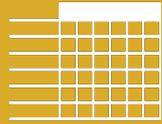
SAFETY



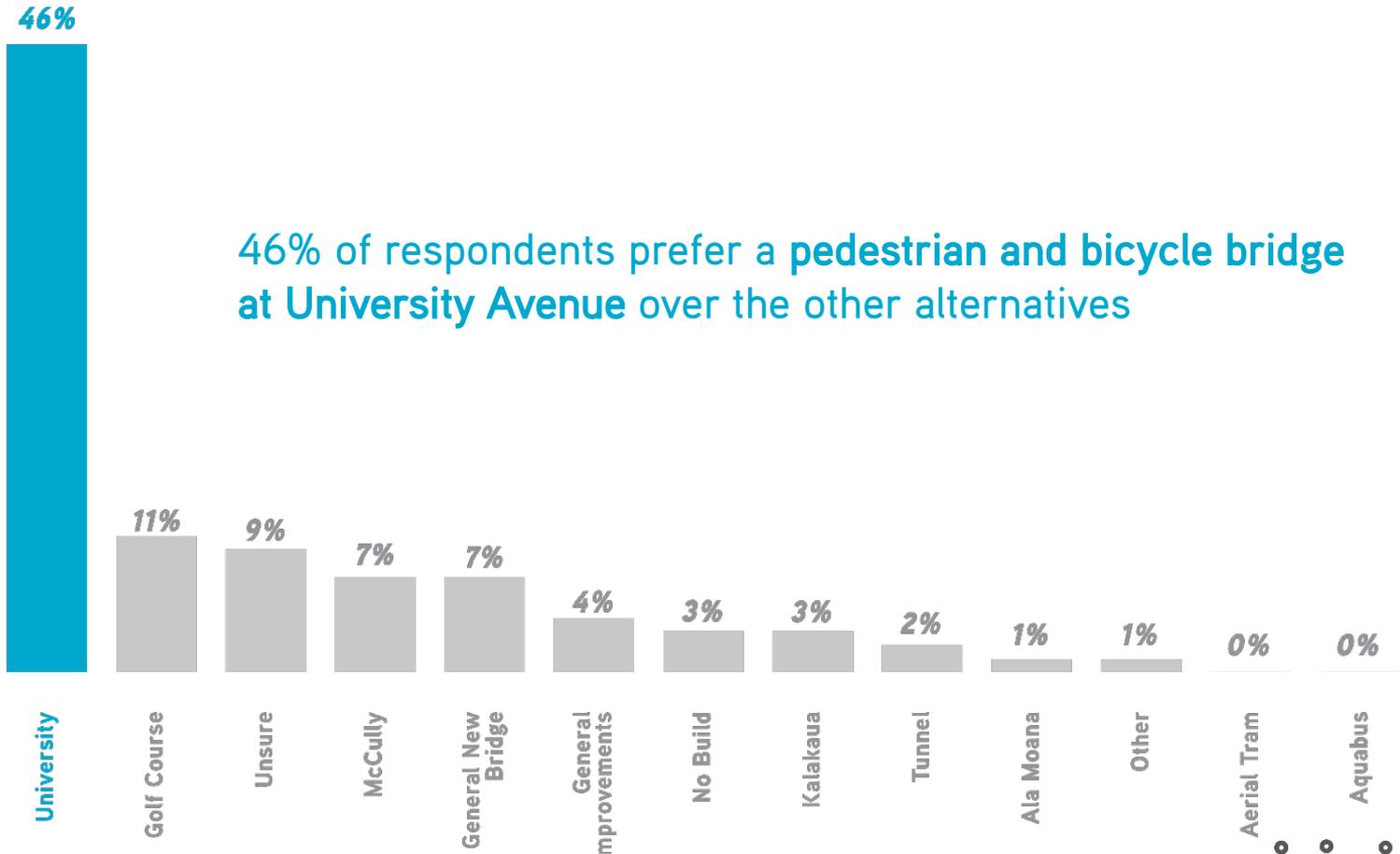
CONVENIENCE

Source: Online Survey (191 responses)



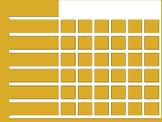


PUBLIC INPUT

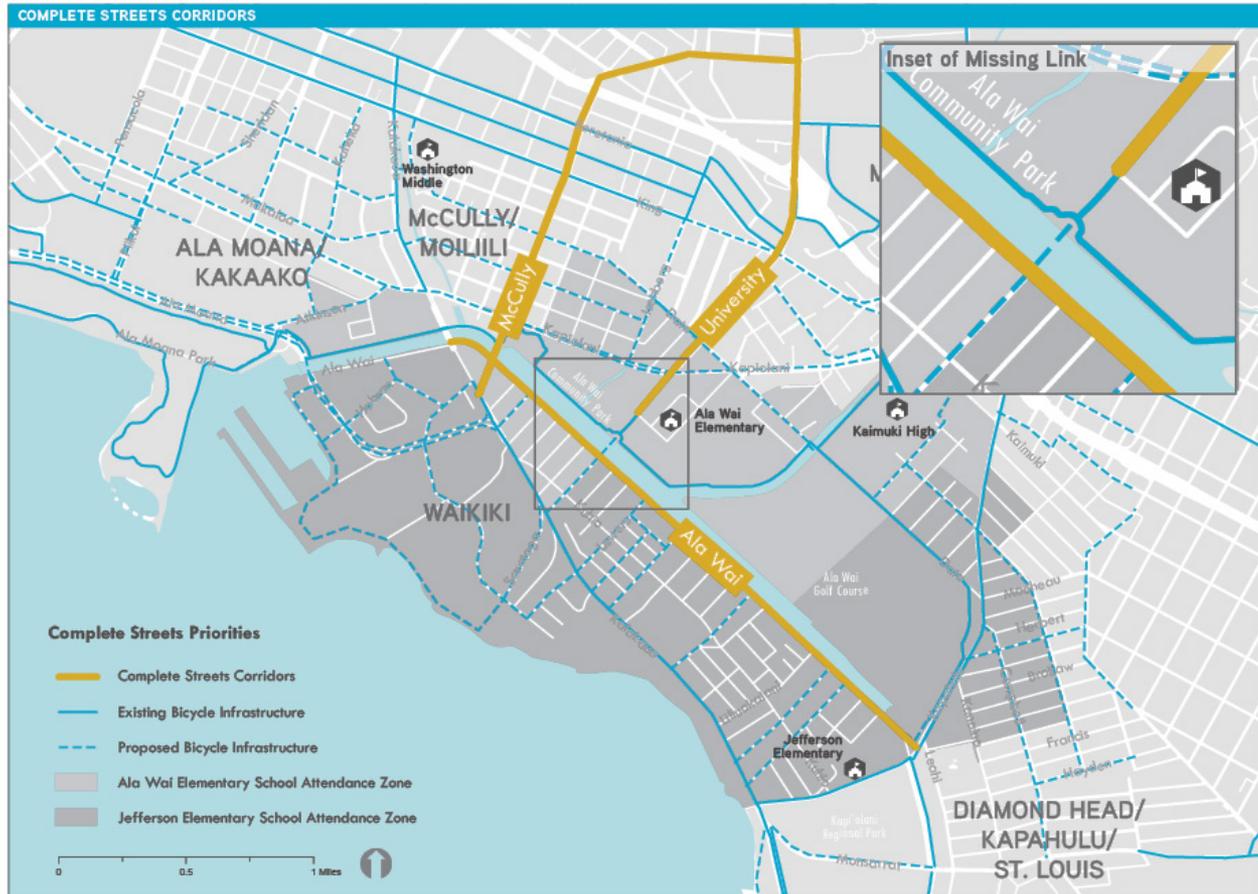


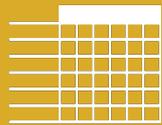
Source: Intercept Survey, Online Survey (1,016 responses)





COMPLETE STREETS CONNECTIVITY





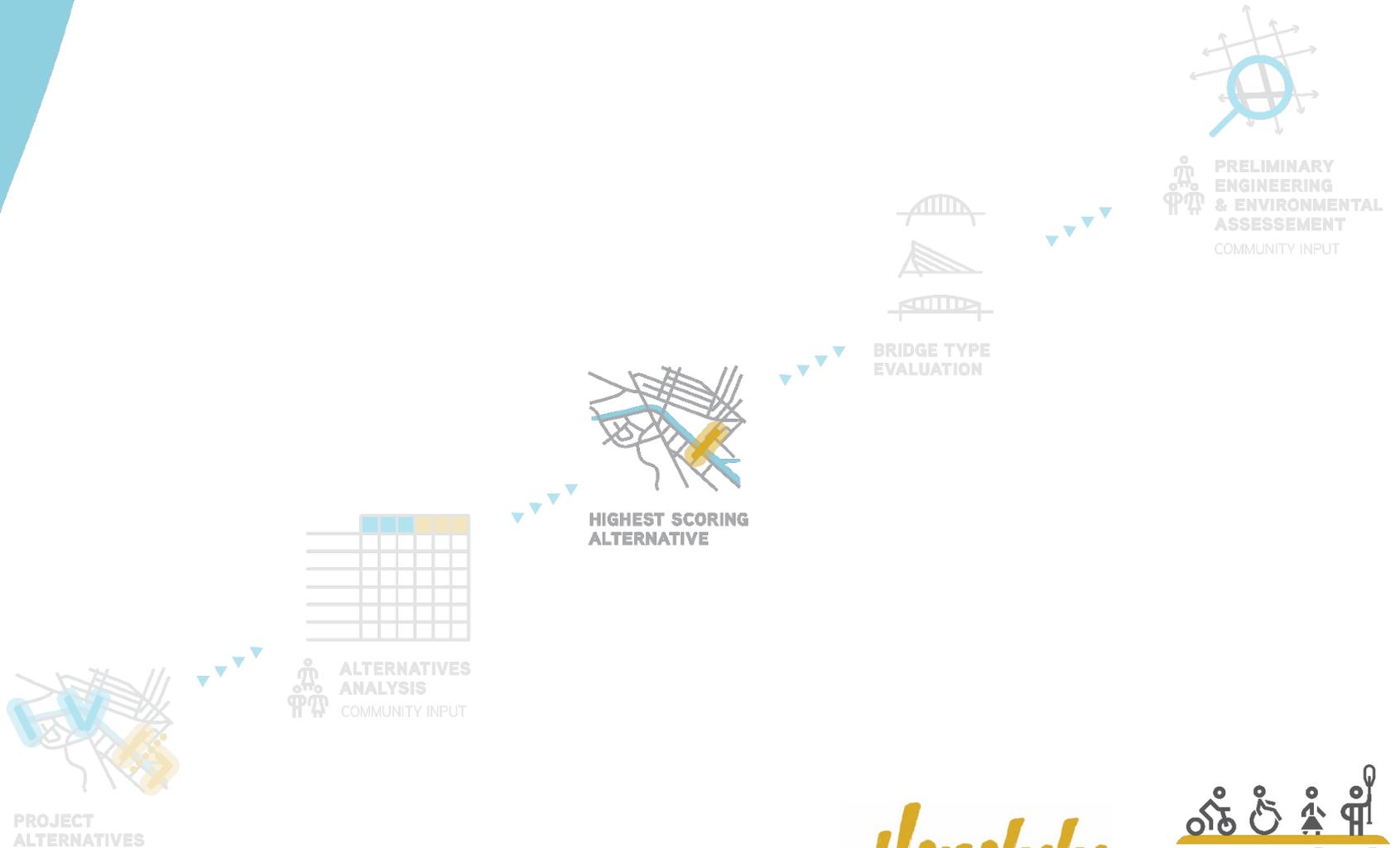
EVACUATION

A crossing at University Ave
will **decrease evacuation
times from Waikiki by..**



15 MINUTES
FOR 20,000 PEOPLE

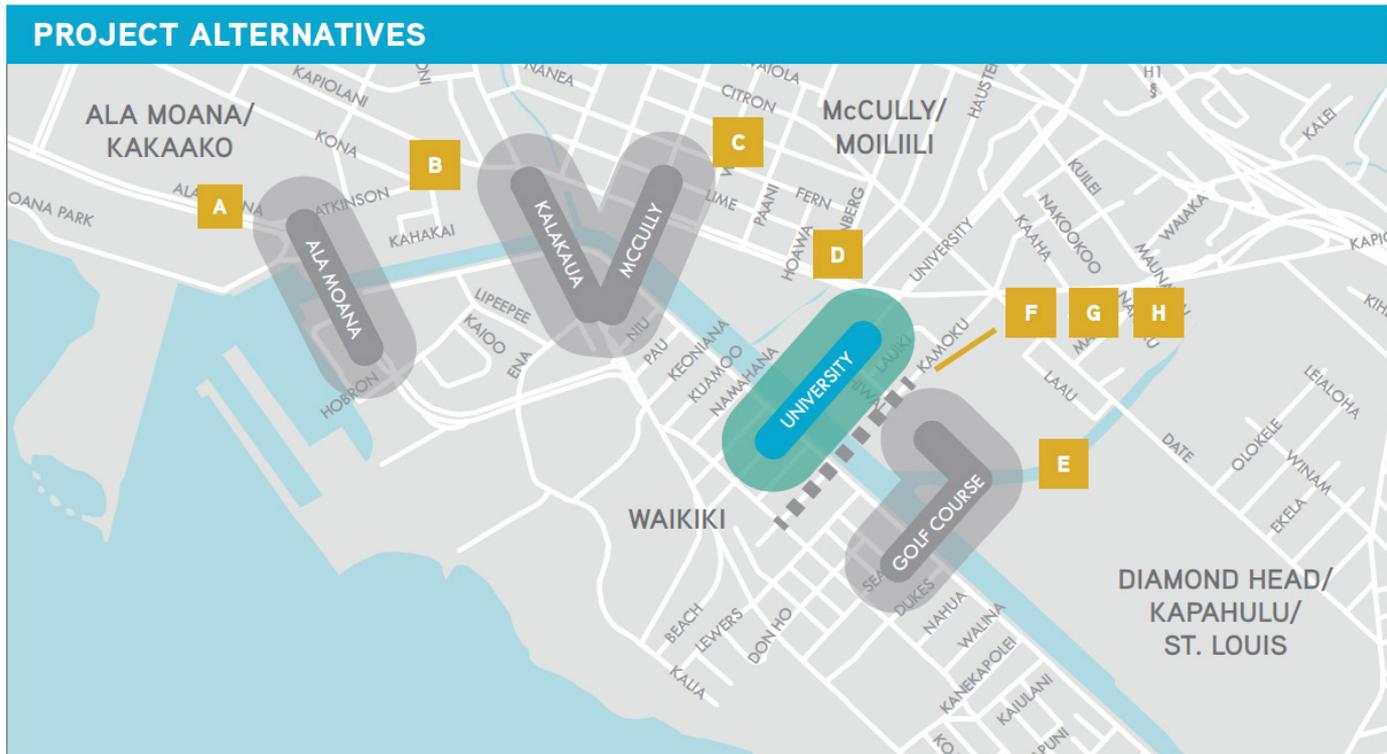
HIGHEST SCORING ALTERNATIVE





HIGHEST SCORING ALTERNATIVE

Public Input + Data Driven Analysis = **Highest Scoring Alternative**



BRIDGE TYPE EVALUATION





BRIDGE TYPE EVALUATION

EVALUATION IMPORTANCE / WEIGHT

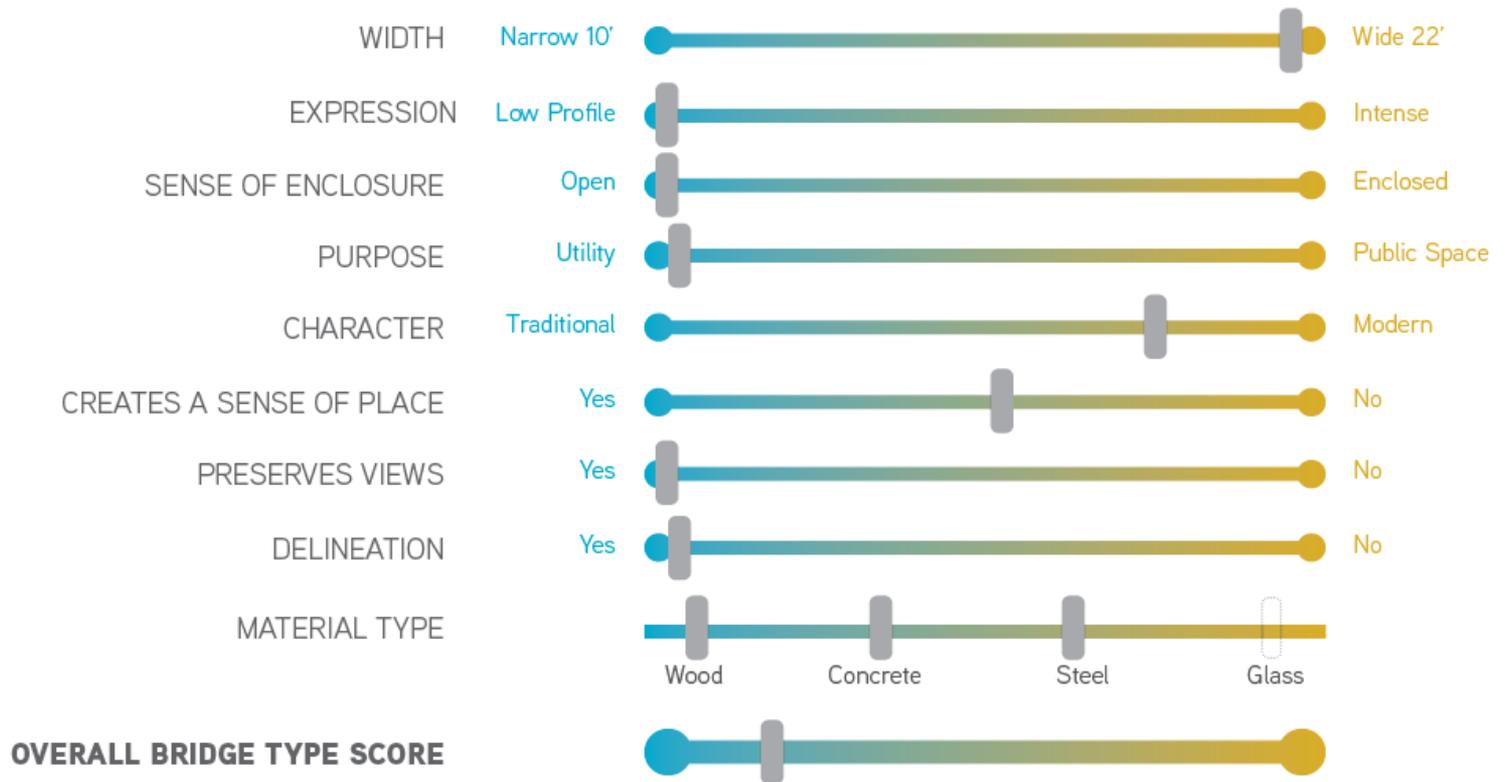
	CONCRETE BEAM	STEEL ARCH - NETWORK	CONCRETE CABLE - STAYED	CONCRETE ARCH - BIFURCATED	STEEL LENTICULAR TRUSS
OPERATIONS AND MAINTENANCE (25 PTS)	●	○	●	●	○
PUBLIC PROCESS INPUT (22 PTS)	●	●	●	●	○
PROJECT COST (15 PTS)	●	●	●	●	○
ENVIRONMENTAL IMPACTS (14 PTS)	○	●	●	●	●
STRUCTURAL (10 PTS)	○	●	○	●	●
GEOTECHNICAL (5 PTS)	●	●	○	●	●
CONSTRUCTABILITY (5 PTS)	●	●	●	○	●
DELINEATION AND ACCESS (4 PTS)	●	●	●	●	●
TOTAL SCORE (OUT OF 100)	76	66	77	82	58

HIGH - ● MEDIUM - ● LOW - ○





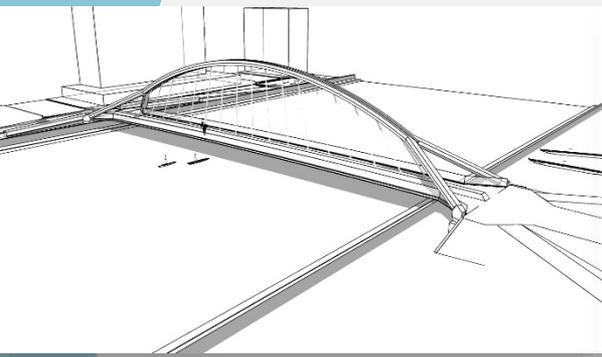
COMMUNITY PREFERENCE



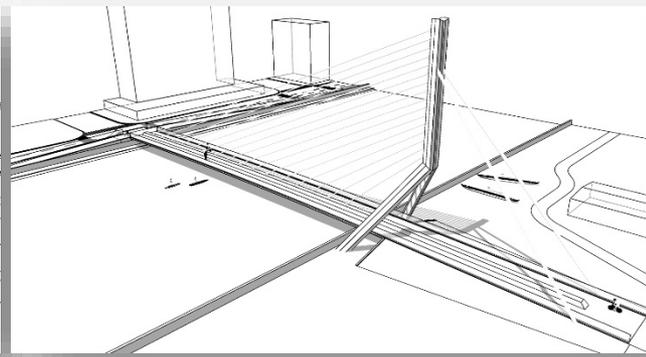


BRIDGE TYPE EVALUATION

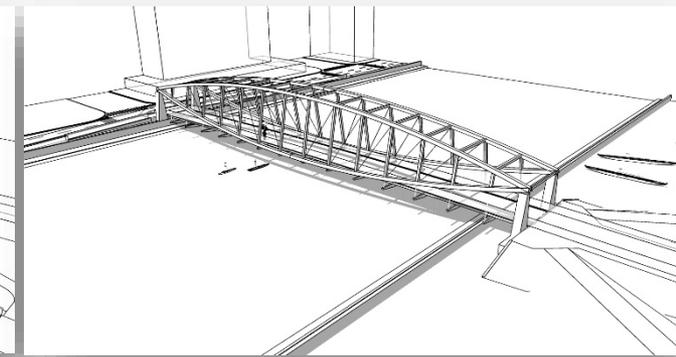
CONCRETE ARCH
(BIFURCATED)



CONCRETE CABLE-
STAYED

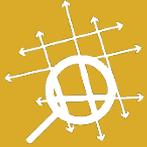


STEEL
LENTICULAR



NEXT STEPS & FURTHER STUDY





INPUT OPPORTUNITIES

1. Bridge Type Boards

- 1st and 2nd choice stickers

2. What is most important to you in future project phases?

- Dot stickers

3. Cultural Context & Urban Design

- What elements of local cultural context could be used to inform bridge design?

4. Parking Supply

- What ideas do you have for managing parking demand to ensure access for all?

5. Additional Comments



PROJECT SCHEDULE

POTENTIAL AREAS OF FUTURE STUDY



Parking Study and Effective Demand Management Plan



Urban Design and Landscape Maintenance Plan



Environmental Assessment, Technical Studies and Permitting



Cultural and Historical Heritage Assessment

PROJECT TIMELINE

SUMMER 2019

Draft Environmental Assessment

SUMMER 2020

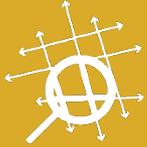
Finding of No Significant Impact

SPRING 2021

Begin Final Design

SUMMER 2023

Begin Construction Authorization



MAHALO!



For More Information:

WWW.HONOLULU.GOV/COMPLETESTREETS/ALAPONO



Text 'alaponu' to

31996

and send your email address when prompted



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