Hawaii Interagency Council for Transit-Oriented Development

Iwilei-Kapalama Permitted Interaction Group [June 2018] Summary Report and Recommendations March 12, 2019

(as amended & adopted April 9, 2019)

This written report supplements the presentation of activities and findings from the Iwilei-Kapalama Permitted Interaction Group to the Hawaii Interagency Council for Transit-Oriented Development (TOD Council) at its March 12, 2019 meeting. Slides from the presentation can be found in *Attachment A*.

I. Permitted Interaction Group Purpose and Members

The Iwilei-Kapalama (I-K) Permitted Interaction Group (PIG) is one of three PIGs formed by the TOD Council on June 12, 2018, to address TOD implementation issues on State lands in the three TOD priority areas along the Honolulu rail corridor—East Kapolei, Halawa-Stadium, and Iwilei-Kapalama. The PIG was established to provide a forum for input, discussion, and deliberation on infrastructure conditions, improvements required, and financing issues being studied under the State TOD Planning and Implementation Project (State TOD Project), managed by the Office of Planning (OP). (Refer to Attachment B for more information about the project.)

TOD Council members selected to serve on the PIG include State landowning agencies in the area, State and county support agencies, and stakeholder group representatives (see sidebar). Additional representatives from PIG member agencies or organizations were invited to participate in the PIG activities, including stakeholders with major landholdings in the area, to ensure that the resulting infrastructure plan represented the cumulative public improvements required to accommodate planned TOD growth in the area over the 30- to 40-year development period. PIG members, designees, and representatives that participated in the PIG activities are listed in *Attachment C*.

Leo Asuncion and Rodney Funakoshi/OP and Craig Hirai/HHFDC served as co-chairs for the PIG. The PIG was staffed by Rodney Funakoshi and Ruby Edwards, assisted by PBR Hawaii, the prime consultant for the State TOD Project.

TOD Council PIG Members

- (I) Office of Planning Director
- (2) Hawaii Housing Finance and
 Development Corporation (HHFDC)
 Executive Director
- (3) Department of Accounting & General Services (DAGS) Comptroller
- (4) Hawaii Public Housing Authority (HPHA) Executive Director
- (5) Department of Hawaiian Home Lands Director (DHHL) Director/ Chairperson of the Hawaiian Homes Commission
- (6) University of Hawaii (UH)
 President
- (7) Department of Education (DOE)
 Superintendent
- (8) Department of Transportation (DOT) Director
- (9) Hawaii Community Development Authority (HCDA) Executive Director
- (10) City and County of Honolulu (City)
 Mayor
- (11) Business Community Representative
- (12) Developer Representative

II. Tasks Assigned and Activities in Performance of Tasks

The I-K PIG was specifically charged with assisting in the following tasks for Phase I of the State TOD Implementation Project:

- (1) Develop a preferred master land use plan for State TOD projects in the Iwilei-Kapalama TOD priority area to identify infrastructure requirements;
- (2) Identify infrastructure deficiencies and requirements for the preferred plan;
- (3) Identify potential CIP budget requests for TOD Council recommendation to the 2019 Legislature, as needed; and
- (4) Identify a public outreach strategy for State TOD implementation, and refine evaluative criteria and develop performance metrics for project implementation.

Since the focus of the State TOD Project is on the infrastructure investments that will be needed to accommodate State TOD project development in the TOD priority areas, the outreach strategy, evaluative criteria, and performance metrics tasks will be tackled later when additional time and resources can be devoted to them.

Context for State TOD Project and PIG Effort. The PIG activities for the State TOD Project aim to flesh out how individual State TOD projects will be developed in the context of the City's Neighborhood TOD Plan/s (TOD Plan) for this TOD priority area. The City TOD Plans lay the groundwork for the character and intensity of TOD within their TOD Plan areas, based on land use and capacity analyses and community input as to how these communities may evolve over time. The State TOD Project is intended to determine what State infrastructure investments will be needed as State TOD projects build out as part of this community vision.

Phase I of the State TOD Project involves: (1) the compilation of information on State TOD projects in the area, existing infrastructure system conditions, and known infrastructure challenges; and (2) the development of a preferred land use scenario based on agency plans for State lands in the TOD priority area. The preferred land use scenario developed with the PIG will be used in Phase II to determine infrastructure requirements needed to realize State TOD potential in the area, and to inform the development of potential infrastructure financing strategies.

Phase I PIG tasks and activities completed are summarized below.

A. PIG Meeting 1, July 12, 2018—Project kick-off and review of project and plan information compiled to date

The initial PIG meeting was held in July 2018 to orient PIG members to the State TOD Project. PBR Hawaii staff briefed the PIG on information compiled to date for the project from the City TOD Plans, existing studies, and agency project plans. The PIG was asked to identify information gaps and needs for master plan charrettes scheduled for September 2018, as well as concerns and opportunities related to infrastructure and financing for the area that needed to be examined in the study. PIG members were asked to provide any project plans and information to the consultant team to compile for the master plan design workshops (charrettes) and the land use model that would be developed to determine regional or local infrastructure needs.

B. PIG Meeting 2, September 20, 2018—Land use workshop/charrette for TOD priority area

The second PIG meeting was a master plan/land use design charrette that was designed to explore existing project plans in relation to the proposed land use pattern, densities, and character of TOD envisioned in the City TOD Plans. Within this context, charrette participants discussed proposed land use plans and options with consideration of: existing conditions; proposed land uses and density of individual TOD projects; opportunities to align or coordinate development efforts; public realm and access improvements needed; and the implications of proposed project plans and land uses for public infrastructure systems and infrastructure delivery. PIG members were presented examples of urban design features that could be considered in the development of land use scenarios, as well as sustainable infrastructure design and delivery approaches that could be considered in the development of an infrastructure implementation and financing strategy in Phase II of the project. PIG groups generated different broad land use schemas for the area that were used to formulate alternative land use scenarios, which will be the basis for determining infrastructure requirements.

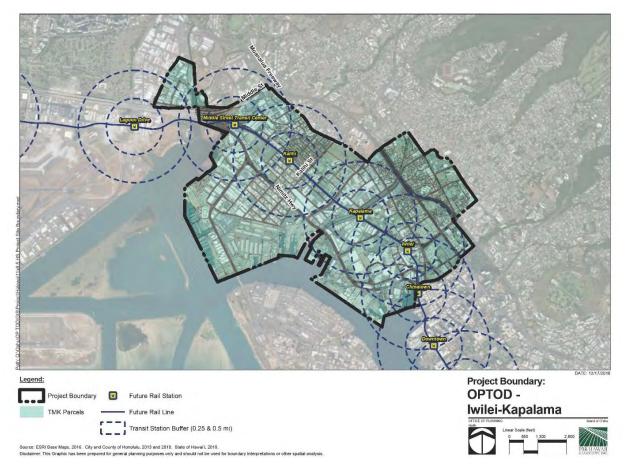
PIG agencies were tasked with providing the consultant team with as much information as possible on their current project plans. The alternative land use scenarios developed from information gathered and the charrette discussions were to be reviewed by the PIG to select a preferred land use scenario for the infrastructure assessment to be conducted in Phase II.

Materials from the charrettes are provided in *Attachment D*; charrette outcomes are summarized in the Oahu PIGs report presentation.

C. PIG Meeting 3, February 26, 2019—Review/selection of preferred land use scenario for infrastructure needs assessment

The third PIG meeting was convened to review the parameters developed for the land use scenarios for the TOD priority area, review maps of existing infrastructure conditions for the area, and to identify a preferred land use scenario for Phase II infrastructure assessment and financing strategy development. The first task for the PIG was affirming a proposed boundary for the priority area that encompassed State sites planned for TOD. The second task was to get agreement on the preferred land use scenario for potential buildout of the priority area, including existing plans for State facilities and State TOD projects in the priority area.

Project Area Boundary: Iwilei-Kapalama TOD Priority Area



The boundary for the Iwilei-Kapalama TOD priority area was selected in line with the City's adopted Kalihi and Downtown Neighborhood TOD Plans (both 2017). This area was extended to include other identified State TOD projects within the region, including DHHL's Moanalua Kai parcels, which lie within the City's Airport Area TOD Plan. The Iwilei-Kapalama TOD priority area includes State TOD projects in proximity to the following planned rail stations: Iwilei, Kapalama, Kalihi, Middle Street Transit Center, Chinatown, and Lagoon Drive.

Planned Development. The City's Kalihi Neighborhood TOD Plan is founded on principles that seek to increase community livability and safety, maintain and enhance its diversity, increase the quality of public spaces and connections to the waterfront, and improve mobility within the community. The Kalihi TOD Plan envisions revitalized districts around key State assets—Honolulu Community College and the current site of the Oahu Community Correctional Center (OCCC). The Downtown Neighborhood TOD Plan seeks a vibrant, mixed-use downtown served by an integrated, convenient transportation network, with expanded housing opportunities, more green space, and an enhanced orientation to the waterfront.

Proposed or planned development incorporated in the adopted City TOD Plans provide the baseline for potential buildout for the area. This baseline is being augmented with

additional information on State and other large development projects identified by the PIG that would contribute to realization of these TOD Plans, which need to be accounted for in assessing infrastructure needs for the area, including:

- University of Hawaii Honolulu Community College (HCC) campus/facility improvements, pursuant to HCC's Long-Range Development Plan
- HPHA public housing project redevelopment: Mayor Wright Homes, Kamehameha Homes, Kaahumanu Homes, Kalanihuia, and School Street Administrative Office redevelopment
- O DHHL projects at Kapalama Canal and Moanalua Kai parcels
- Department of Public Safety's (PSD) Oahu Community Correctional Center (OCCC) site, either for mixed-use development or redevelopment of the facility onsite
- o DAGS / HHFDC joint development of Liliha Civic Center
- Kamehameha Schools Kapalama properties, master planning for future redevelopment underway
- o DOT Harbors Parcels, makai of Nimitz, are currently being reviewed as part of the DOT Harbors Master Plan underway

▶Infrastructure Maps: Existing Conditions (Attachment E)

PIG members were updated on information compiled on existing facilities and conditions and known plans for various infrastructure systems in the TOD priority area, as seen in the maps in *Attachment E*. These form the basis for determining where system expansion or redevelopment will be required to support planned TOD in the area.

Land Use Scenarios Considered

• Land Use Scenario: Existing City TOD Plan/s and Current Conceptual Plans

This scenario represents planned development consistent with the City TOD Plans for State-owned parcels and participating major landowners. The scenario uses the City's adopted Kalihi and Downtown Neighborhood TOD Plans' land use designations and development intensity for estimating parcel buildout—as modified by PIG landowner input regarding current facility and project plans. Based on preliminary land use estimates of current agency and major landowner plans, the potential buildout of residential units in 30-40 years could be in the range of 12,000 units, with as much as one million square feet of commercial, office, institutional, and other light industrial space being developed over that period. These estimates are subject to change as the land use numbers are finetuned for the preferred land use scenario.

Impact of climate change and sea level rise on scenario. Preliminary information from an ongoing City study of Iwilei-Kapalama resilience and adaptation to climate change and sea level rise was presented to better understand how drainage in in the area could impact the improvements needed to road and other infrastructure

systems to support buildout of the area. Parcels below King Street and Dillingham Boulevard are already experiencing stormwater flooding; in addition, the DHHL Moanalua Kai project area currently experiences occasional tidal ponding. The PIG discussed a plausible adaptation strategy that focused TOD along and mauka of Dillingham Boulevard.

The City is examining the potential impacts of sea level rise in the area—particularly those areas makai of Dillingham Boulevard and east of Kapalama Canal, which the City is referring to as Lower Iwilei. The City is using 3.2 feet of SLR as a planning benchmark, but is considering use of 6-foot SLR for critical infrastructure, such as sewer facilities and utilities, in the area. The consultant team will investigate adaptation pathways and appropriate measures that should be considered for infrastructure improvements and development in the area over time.

III. Results / Outcomes for Consideration: Preferred Land Use Scenario

The PIG supported the defined boundary and use of the **Existing City TOD Plan/s and Conceptual Plans Land Use Scenario** for the Phase II infrastructure assessment work. The PIG also supported further refinement of the scenario by the consultant team, as needed, to verify project plan information with individual agencies. This scenario represents the most plausible land use pattern and density for State TOD projects in the area and provides a reasonable baseline for identifying infrastructure needs and costs for State TOD buildout over time. The preferred land use scenario will be finalized by the consultant team in the coming month.

A preliminary map of the preferred land use scenario is provided on the following page. Assumptions for assessment of infrastructure needs for the preferred land use scenario include:

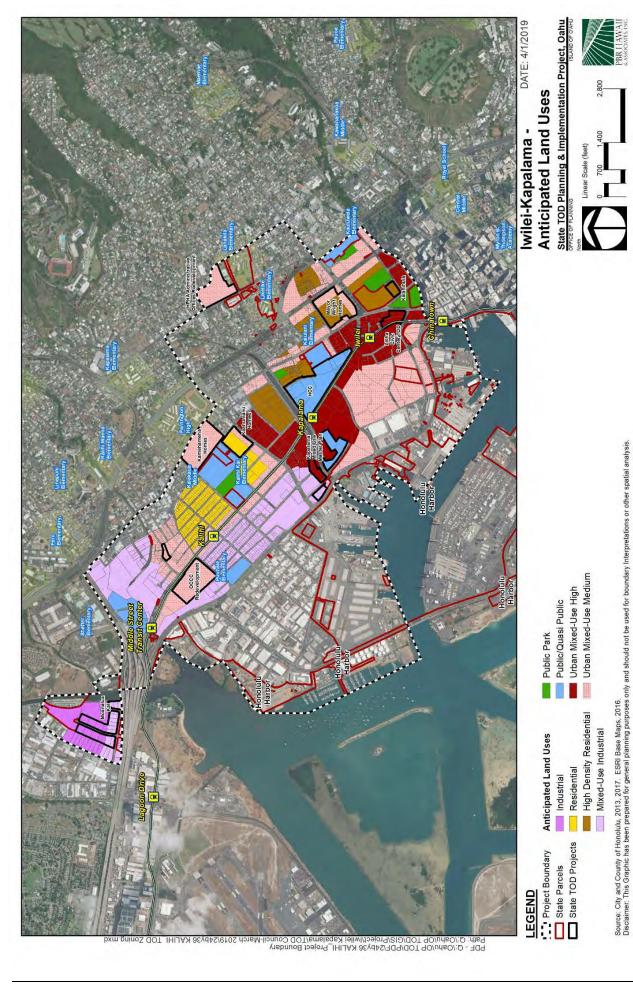
- O A baseline assessment of TOD-related infrastructure based on land use designations in the City's TOD Plans will be developed—with order of magnitude costs for infrastructure improvements needed to accommodate SLR to be estimated for the area along and mauka of Dillingham Boulevard;
- o Additional school capacity need equivalent to two three-acre DOE school sites; and
- o OCCC will be relocated to Halawa and the property will be redeveloped for TOD.

IV. Recommendations

The Iwilei-Kapalama PIG co-chairs recommend the following for TOD Council action:

- (1) At the TOD Council's April 9, 2019 meeting, re-form the Iwilei-Kapalama Permitted Interaction Group, constituted of the same members, to perform the tasks listed below and report back to the TOD Council at a date to be determined.
 - a. Provide input to Phase II of the State TOD Implementation Plan (Oahu) Project for the Iwilei-Kapalama TOD priority area and assist in:
 - 1. Identifying infrastructure costs, financing options, and phasing for infrastructure improvements required for the preferred TOD land use scenario for the Iwilei-Kapalama area;

- 2. Developing a preferred infrastructure implementation plan, phasing, and financing strategy for the TOD priority areas; and
- 3. Developing recommendations for TOD-related CIP or other budget requests to [implement infrastructure implementation] fund infrastructure improvements required for the TOD priority areas, including CIP and budget requests for TOD Council recommendation to the 2020 Legislature, as needed;
- b. Identify near-term infrastructure and State TOD project implementation issues to be addressed by the PIG or other entities, develop and implement strategies to address these near-term issues as needed, and ensure that actions taken are integrated with options being considered and recommendations being developed in Phase II of the State TOD Project; and
- c. Develop recommendations, as needed, for a public outreach strategy for State TOD implementation in the priority area.

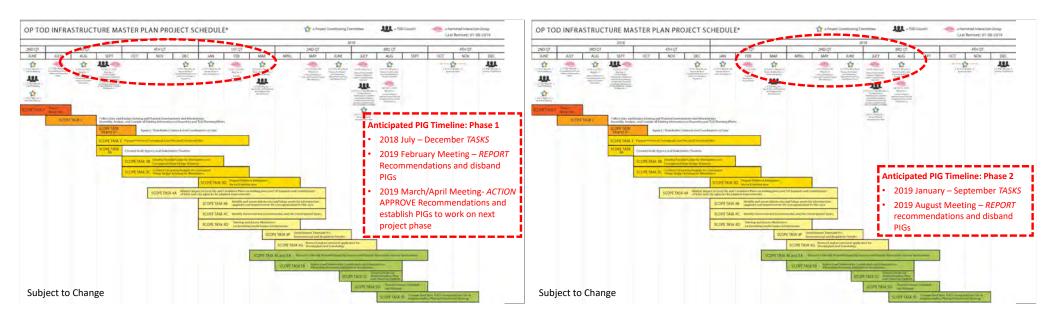


Attachment A. Presentation to TOD Council: Oahu PIGs Report, March 12, 2019				



Project Purpose

- Coordinate approach between all stakeholders
- Coordinate regional infrastructure investments
- Identify source(s) of financing and best practices for TOD Implementation
- Consider incentives for landowner participation
- Identify sustainable development practices



Phase 1: Process

- Compile existing planning documents
- Finance overview and presentation of information gathered
- Confirm landowner plans and incorporate any updates available
- Charrette
 - Review, refine, and enhance plans
 - Presentations on Urban Design and Sustainability
- Determine preferred conceptual land use scenario to inform infrastructure needs and cost estimates

Phase 1: Meetings Held to Date

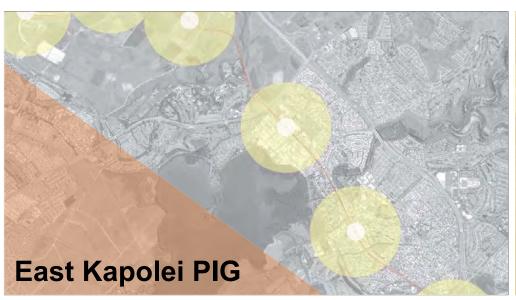
Group	Date(s)	Topics Covered
Project Coordinating Committee (PCC)	 June 1 June 22 August 16 September 21 November 2 December 4 and January 23 	 Kick-off meeting Work Plan Charrette Preparation Charrette Summary Project Boundary Land Use Scenario Review – PIG 3
Permitted Interaction Groups (PIGs)	 July 12 – 20 July 30 September 20 & 21 February 26 	 Info Compiled to Date Farrington Widening Charrettes Preferred Conceptual Land Use Scenario

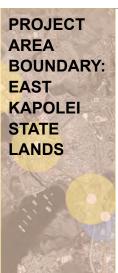


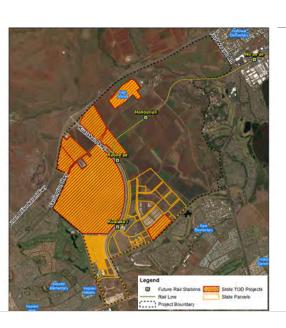
Conceptual Land Use Scenarios: Background Information

- City and County Neighborhood TOD Plans
- Plans and Studies shared by the State, City, and private entities
- Stakeholder input from the:
 - September Charrette
 - Homework and follow-up

Reminder: The project is focused on infrastructure needs and financing. The discussions in this meeting are based on conceptual land use scenarios to identify density and infrastructure needs. We are looking at density, phasing, and impacts of urban design features to inform the needs and costs.







Charrette Input: East Kapolei





Charrette Input: East Kapolei Summary

Frequency	Major Categories	Examples of Comments
17	Infrastructure	Access, no grade separation
12	Connectivity	Distribute traffic, complete streets, ped/bike crossings
10	Development/Planning	Don't turn backs on Kualakai
8	Community Atmosphere	Opportunities to reduce sound so no sound walls
5	Environment	Bridge/Incorporate Gulches – green corridors, cooling interpretive
3	Rail Stations	Commercial Hubs
Tied at 2	Residential	Mixed Use Town/Gown Hub
	Ownership	Common vision for key development zone
	Economy	Create a commercial hub/center of action

Infrastructure: East Kapolei Drainage

- Master Planned for most of East Kapolei
 - Most of the existing and planned drainage systems connect to Kaloi Gulch
 - Increase in runoff will be detained on-site
 - Increase in peak flow to be mitigated on site with detention basins
- DLNR properties are in the planning stage
 - Kaloi Gulch unchannelized through the DLNR lands
 - Increase in runoff and peak flow will have to be mitigated on-site



Infrastructure: East Kapolei Sewer

- Master Planned for most of East Kapolei
 - Underground sewer infrastructure will be constructed with the project roadways
 - Regional sewer allocation approved for DHHL, UHWO, and Hoopili
 - Regional trunk sewers do not have excess capacity
- DLNR properties are in the planning stage



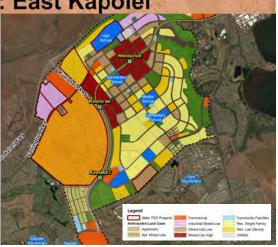
Infrastructure: East Kapolei Water

- Master Planned for most of East Kapolei
 - Underground water infrastructure will be constructed with the project roadways
 - Water reservoirs and booster pump stations will be constructed as development progresses
 - Regional sewer allocation approved for DHHL, UHWO, and Hoopili
 - Water sources are adequate for more new developments but the Ewa Shaft is the next water source required to meet the needs of the Ewa Development Plan
- DLNR properties are in the planning stage



Preferred Land Use Scenario PIG Recommendations: East Kapolei

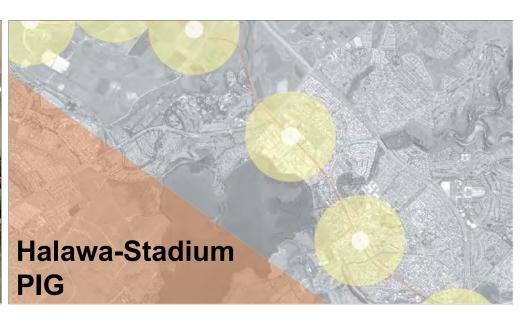
- Proceed with current conceptual land use scenarios for each of the various landowners
- Do not incorporate additional intersections along Kualakai
- Improve currently planned connections/intersections



Preferred Land Use Scenario Refinement: East Kapolei

- Update estimated development, conceptual land uses, and estimated phasing for landowners
- ✓ Further coordination with City on TOD Neighborhood Plan





Project Area Boundary: Halawa-Stadium State Lands



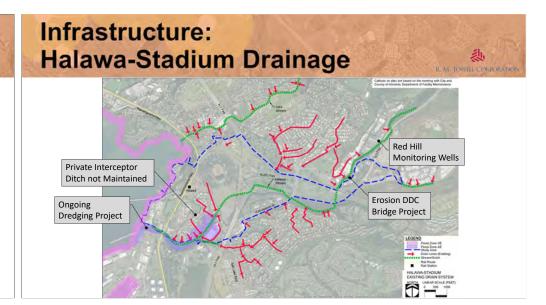
Charrette Input: Halawa-Stadium





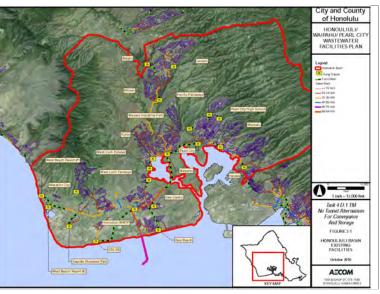
Charrette Input: Halawa-Stadium Summary

requency	Major Categories	Examples of Comments	
42	Development/Planning	Dense Core Avoid Bifurcation of Housing types	
36	Connectivity	Get across major thoroughfares Bus loops, Trails, multimodal	
30	Infrastructure	Central utility systems Schools	
14	Community Atmosphere	Community Plaza Adequate Green Space	
Tied at 8	Environment	Connect to water	
	Residential	Service Local Population	
7	Ownership	Work with Federal Landowners	
6	Economy	Differentiate Products	



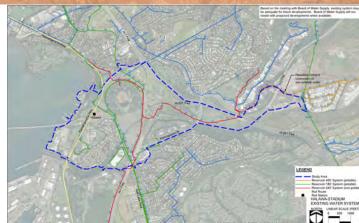
Infrastructure: Infrastructure: **Halawa-Stadium Sewer** Halawa-Stadium Sewer (cont.) Halawa / Waipahu / Pearl City Stadium Area · Existing systems along Kam Existing FM needs to be Hwy do not have capacity To Honouliuli To Honouliuli adjusted 3rd FM is proposed for Waipahu: construction tent. Military property wanted scheduled for Dec. 2022 to convert City system, (subject to change) but was not accepted by · Dual FM will be rehabilitated City and dedicated to Pearl City flows • New PS by Waipahu for Pearl City to Waipahu · Waimalu PS going out to bid To Sand Island To Sand Island soon





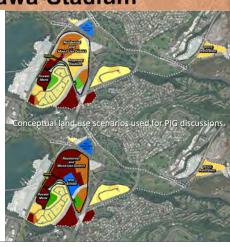
Infrastructure: Halawa-Stadium Water

- Existing system may be adequate for future developments
- BWS will model with proposed developments when development information is available



Preferred Land Use Scenario PIG Recommendations: Halawa-Stadium

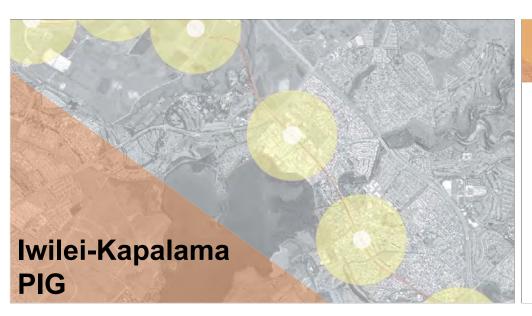
- Stadium redevelopment on site with additional ancillary mixeduse development
- Pu'uwai Momi at maxed out density
- ✓ At least one new DOE School
- ✓ Assume OCCC Relocates to Halawa



Preferred Land Use Scenario Refinement: Halawa-Stadium

- Update estimated development, conceptual land uses, and estimated phasing for landowners
- Combine concepts from TOD Neighborhood Plan
- ✓ Connectivity with region
- What can currently be accommodated, timing for additional facilities
- Vertical School vs current BOE standards
- ✓ Pearl Harbor Security



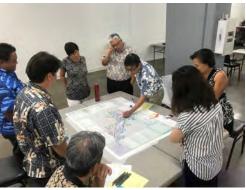


Project Area Boundary: Iwilei-Kapalama State Lands



Charrette Input: Iwilei-Kapalama





Charrette Input: Iwilei-Kapalama Summary

Frequency	Major Categories	Examples of Comments
53	Development/Planning	Sea level rise strategy applied Green spaces
30	Infrastructure	Control sea level rise Challenge to finance district
24	Connectivity	Hierarchy of streets Improve connections
14	Community Atmosphere	Focal point for community Programmatic connection
10	Economy	Fishing and Artisan villages
8	Residential	Mixed use with housing above other uses
7	Environment	Bioswales; Green corridors for flood retention
3	Ownership	District wide collaboration
2	Natural Hazards	Sea level rise underutilized
1	Rail Station	Retail / amenities at transit stations

Infrastructure: Iwilei-Kapalama Drainage

Flooding in the Iwilei area is due to the following issues:

- Inadequate capacity of the existing drainage system
- Tidal effect may also contribute to flooding
- Only 1 of 2 private pumps works
- Plugged shallow drain and broken drain line



Infrastructure: Iwilei-Kapalama Sewer

- Awa Street Pump Station, force main, and sewer system improvements
 - Phase 1 (including Waiakamilo Road relief sewer line)
 - Phase 2 (including pump station upgrades)
- Hart Street Pump Station, Phase 3



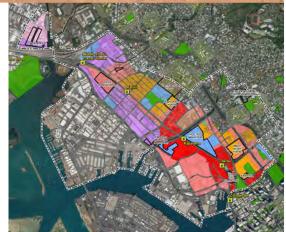
Infrastructure: Iwilei-Kapalama Water

- Existing system capacity may be adequate for future developments
- Frequent main breaks due to its age and condition
- BWS will model with proposed developments when development information is available



Preferred Land Use Scenario PIG Recommendations: Iwilei-Kapalama

- ✓ Baseline = TOD identified zoning without Sea Level Rise
- Order of magnitude costs for the region, assuming TOD Zoning is not applied to the portion impacted by SLR
- ✓ Two 3-acre DOE sites
- Assume OCCC Relocates to Halawa and the property is rezoned for TOD



Preferred Land Use Scenario Refinement: Iwilei-Kapalama

- Update estimated development, conceptual land uses, and estimated phasing for landowners
- Lifecycles of horizontal infrastructure versus buildings
- Consequences of not providing infrastructure for areas impacted by SLR
- ✓ How do you prioritize?





NEXT STEPS / SCHEDULE

Next Steps:

•Land Use Scenario Refinement for Phase 2

Schedule for Phase 2:

- •May 2019, Discuss Preferred Land Use Scenario, Cost, and Timing of Projects (PIGs Regrouped)
- •July 2019, Discuss Financing and delivery of Preferred Land Use Scenario and Determine Approach
- •August 2019, Discuss Preferred Implementation Plan and Schedule for Critical Path Analysis



Attachment B.

State TOD Planning and Implementation Project

Sponsor: Office of Planning, State of Hawai'i

June 12, 2018

East Kapolei



Aloha Stadium / Hālawa



lwilei-Kapālama



Project Description

The project will produce a State Transit Oriented Development (TOD) Plan for project implementation and investments on State lands along the Honolulu Rail Transit Project corridor, particularly for projects that are beyond the scope and resources of any individual State agency to provide. In building off work that has already been done, development of the plan will require extensive coordination and collaboration with State and City agencies, as well as other stakeholders in each priority area.

The process will focus on conceptual area / site planning, infrastructure assessment, and access improvements analysis to determine shared investments, funding, and timeframes for critical infrastructure and other improvements necessary to enable development of State TOD projects. The plan will also serve as a critical tool for the State to assist and track actions needed to facilitate shared infrastructure investments and individual State agency project development along the rail corridor.

Such investments include, for example, wastewater system improvements in the lwilei-Kapālama area that currently constrain TOD development potential for agencies such as HHFDC, DAGS, UH Honolulu Community College, as well as future phases of HPHA's Mayor Wright Homes redevelopment. While each of the priority areas are likely to have different infrastructure needs and timelines, the project as a whole will identify opportunities for collaboration on infrastructure investments and an overall strategy for infrastructure delivery that will benefit TOD project implementation on State lands and in surrounding neighborhoods.

Project Timeframe

June 2018-December 2019

Phase 1: Jun 2018–Dec 2018 Development of conceptual land use plan for State lands &

identification of infrastructure requirements

Phase 2: Jan 2019–Dec 2019 Identification of infrastructure costs/financing & development

of an infrastructure implementation plan, phasing & financing

strategy

Project Consultant Team

PBR Hawaii (Prime) Master planning, project management, and stakeholder

outreach and engagement

RM Towill Civil engineering

David Taussig & Associates Development financing and alternative delivery methods

Fehr & Peers Transportation engineering and multi-modal system planning

Callison RTKL TOD master planning and urban design
Ron Ho & Associates Electrical engineering and communications

ARUP Green infrastructure and sustainable systems design

Attachment C.

Permitted Interaction Group Meeting Attendees

David DePonte, Department of Accounting & General Services

Christine Kinimaka, Department of Accounting & General Services

Mark Ritchie, Department of Business, Economic Development & Tourism

Deepak Neupane, Hawaii Community Development Authority

Carson Schultz, Hawaii Community Development Authority

Craig Hirai, Hawaii Housing Finance & Development Corporation

Robbie Melton, DBEDT, Hawaii Technology Development Corporation

Leo Asuncion, Office of Planning

Ruby Edwards, Office of Planning

Rodney Funakoshi, Office of Planning

Robyn Loudermilk, Department of Education, Office of School Facilities & Support Services

Kenneth Masden, Department of Education, Office of School Facilities & Support Services

Heidi Meeker, Department of Education, Office of School Facilities & Support Services

Darrell Ing, Department of Hawaiian Home Lands

Allen Yanos, Department of Hawaiian Home Lands

Barbara Arashiro, Hawaii Public Housing Authority

Kevin Auger, Hawaii Public Housing Authority

Sarah Beamer, Hawaii Public Housing Authority

Benjamin Park, Hawaii Public Housing Authority

Lynette Kawaoka, Department of Transportation, Airports

David Rodriguez, Department of Transportation

Herman Tuiolosega, Department of Transportation, Airports

Dean Watase, Department of Transportation, Harbors

Robert Miyasaki, Department of Transportation, Statewide Transportation Planning Office

Erika Lacro, University of Hawaii, Honolulu Community College

Carleton Ching, University of Hawaii

Noelle Cole, City and County of Honolulu, Department of Planning & Permitting

Renee Espiau, City and County of Honolulu, Department of Planning & Permitting

Harrison Rue, City and County of Honolulu, Department of Planning & Permitting

Kathy Sokugawa, City and County of Honolulu, Department of Planning & Permitting

Jorge Felix, City and County of Honolulu, Honolulu Authority for Rapid Transportation

Masatomo Murata, City and County of Honolulu, Honolulu Authority for Rapid Transportation

Ember Shinn, City and County of Honolulu, Honolulu Authority for Rapid Transportation

Ryan Tam, City and County of Honolulu, Honolulu Authority for Rapid Transportation

Benjamin Trevino, City and County of Honolulu, Honolulu Authority for Rapid Transportation

William Brizee, Architects Hawaii Ltd.

Lester Ng, Architects Hawaii Ltd.

Stacy Armstrong, R.M. Towill Corporation

Jillian Okamoto, Catholic Charities Hawaii

Cyd Miyashiro, American Savings Bank

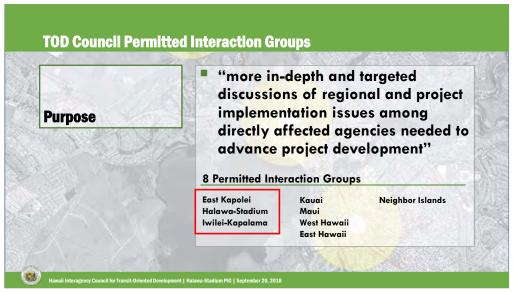
Thomas Lee, Hunt Companies, Inc.

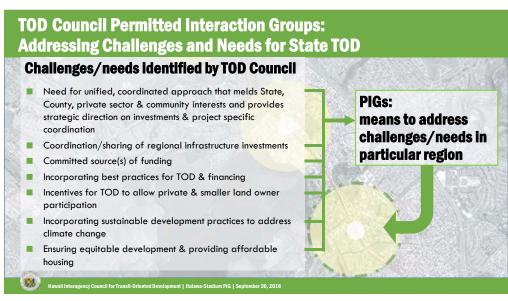
Hilarie Alomar, Kamehameha Schools

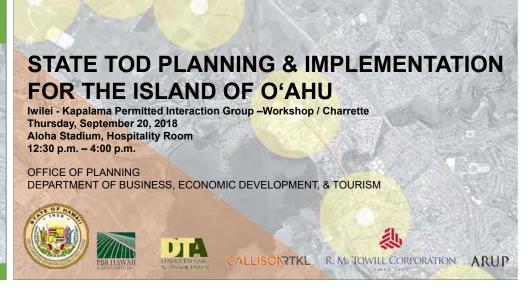
Catherine Camp, Kamehameha Schools, Commercial Real Estate Division

Attachment D. September 2018 Charrette Materials				









Agenda

- 1. Introductions
- 2. Meeting Agenda, Objectives, and Ground Rules
- 3. Site Review and Considerations
- 4. Urban Design
- 5. Exercise 1: Teams Review Regional Plan
- 6. Infrastructure and Environmental Considerations
- 7. Exercise 2: Teams Enhance Design Concepts
- 8. Teams Report Back
- 9. Finance Considerations
- 10.Wrap-Up / Questions / Next steps

Objectives

- Consider regional synergies and conflicts and how they relate to the City's Neighborhood TOD Plans
- Advance regional plans acknowledging infrastructure
- Introduce potential financing tools relevant to projects and/or landowners

Ground Rules

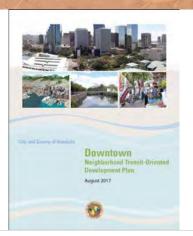
- 1. Work together
- 2. Look at the long term
- 3. Be honest about self interests
- 4. Be open to "showing your cards"
- 5. We're here to brainstorm
- 6. Idea is to get good ideas on the table



Project TOD STATION ANALYSIS: IWILEIKAPALAMA

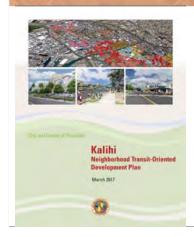


Downtown Neighborhood TOD Plan Vision:



"Downtown Honolulu will continue to be the region's premier employment center with a substantial residential population and easy access to stores and everyday amenities. An accessible and activated waterfront with promenades and community uses, a vibrant, historic Chinatown, and a new high-intensity mixed-use lwilei district as an extension of Downtown will create a new image for Downtown Honolulu."

Kalihi Neighborhood TOD Plan Vision:



"Kalihi will be a livable urban community with a balance of employment, residential, and recreational uses that enjoy high quality transit access and reflect the area's central location and rich cultural heritage. Neighborhoods will be pedestrian- and transit-friendly, where children walk to school, parents shop for basic goods near their homes, and community members enjoy access to good jobs, good food, safe streets, and quality open spaces, housing, and services. ...

Kalihi Neighborhood TOD Plan Vision:

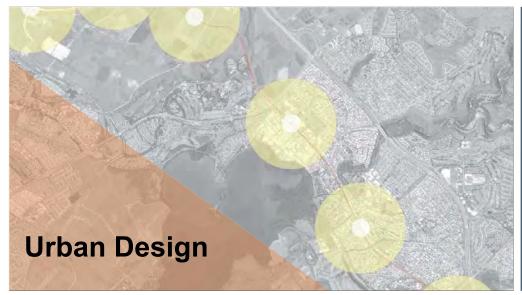
...Revitalized districts in strategic locations, particularly around Kapalama station, will capitalize on the presence of Honolulu Community College, the area's proximity to Downtown, and its natural resources. The community's ethnic, income, age, and small business diversity is maintained and enhanced through a variety of housing, commercial, education, and economic opportunities. The corridor's assemblage of varied districts—Kapalama, Kalihi, and Middle Street—will retain unique identities as they develop and evolve."

WHAT WE'VE HEARD TO DATE

- Infrastructure generally
- Drainage Flooding and Sea Level Rise
- Electrical / Telecom
- Sewer
- Connectivity
- Development
- Financing



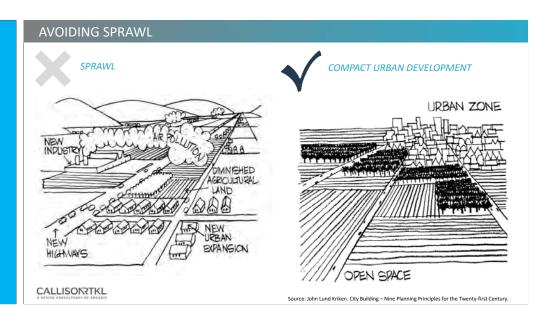
Anything we've missed?

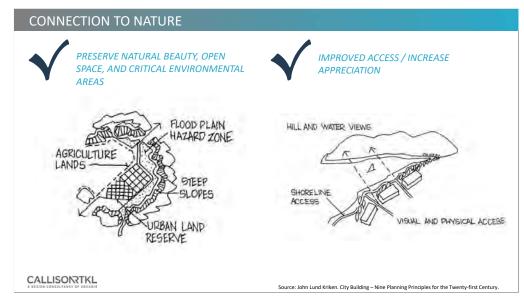


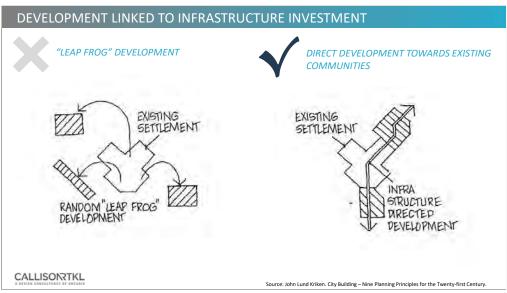


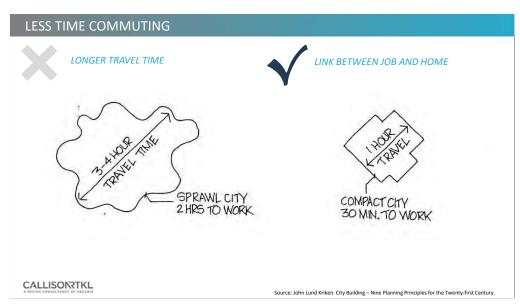
SMART GROWTH + TRANSIT ORIENTED DEVELOPMENT

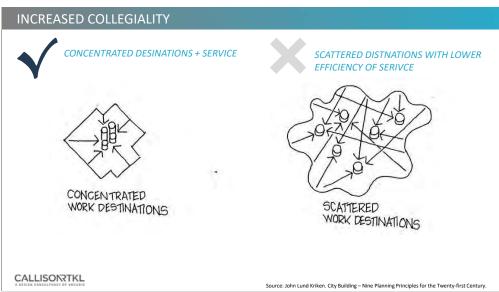
CALLISONTKL

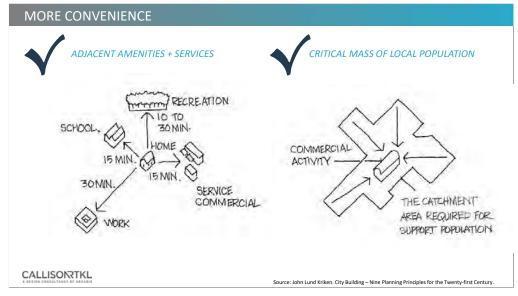


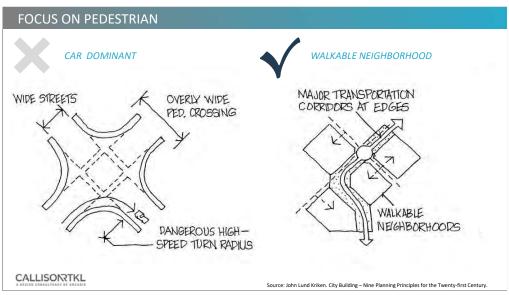


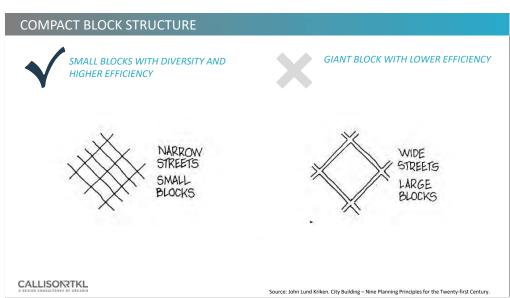


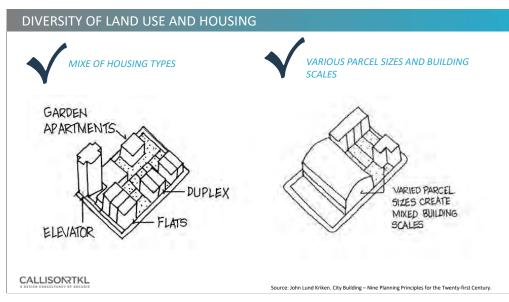


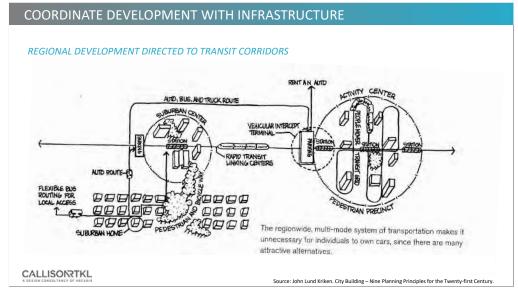


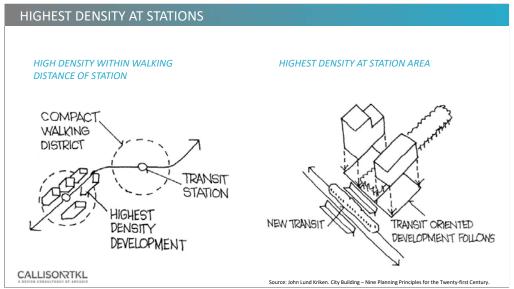


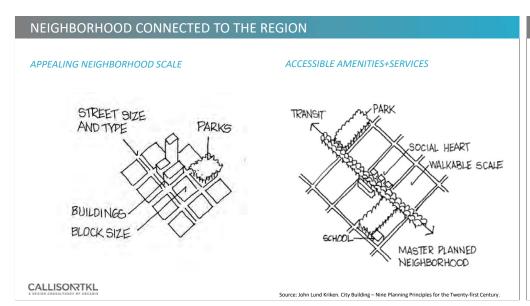


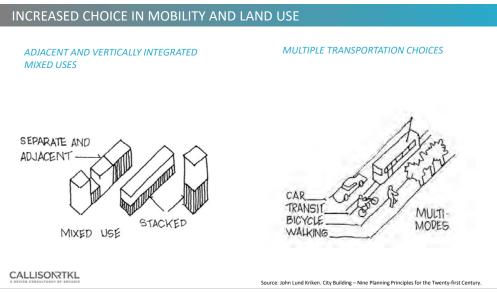


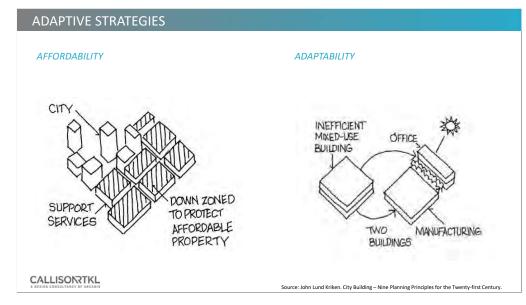


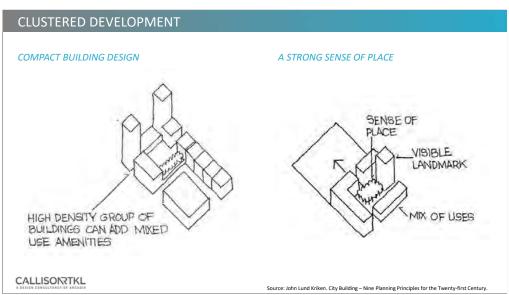


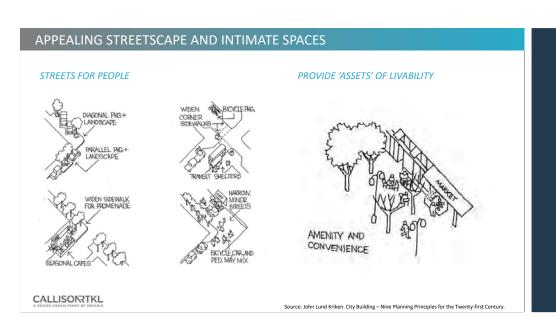












IWILEI-KAPALAMA

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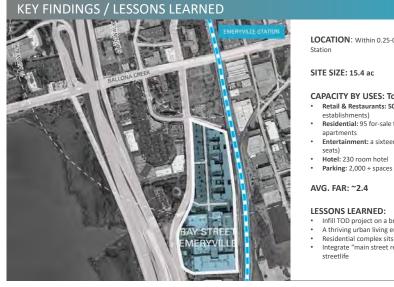
TOD PRINCIPLES

- ✓ Density and diversity
- ✓ Adaptivity
- √ Complimentary uses
- ✓ Working district
- ✓ Streets for people
- ✓ Urban Resiliency









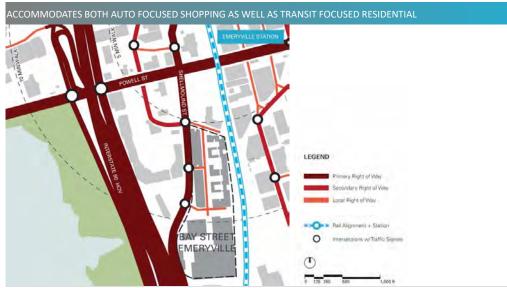
LOCATION: Within 0.25-0.5 mile radii of Emeryville Train

CAPACITY BY USES: Total 1.6 M sf

- · Retail & Restaurants: 500,000 sf (75 retail and dining
- Residential: 95 for-sale townhomes, 284 rental
- Entertainment: a sixteen-screen movie theater (+3300
- Parking: 2,000 + spaces (Parking Garages + Surface Lots)

- · Infill TOD project on a brown field
- A thriving urban living environment, 24/7 active
- Residential complex sits atop a 3-story retail village
- · Integrate "main street retail" component with active





HOUSING FOR THE AFFLUENT COMMUTER

- Residential complex sits atop of 3-level retail component + parking podium
- Heavily-landscaped amenity roof







HIGH DENSITY SUBURBAN COOL

- Northern Parcels:
- "Main Street" retail feature consistent retail frontage
- 3 story specialized retail/flagship stores & dining establishments
- Southern Parcels:
- 24/ 7 Entertainment Destination: Shopping Mall
 + Movie Theater
- Outdoor room for events and relaxing

















KEY FINDINGS / LESSONS LEARNED SAMMAN HELMS BAKERY DISTRICT DISTRICT THE CONTROL OF THE CONT

LOCATION: Within 0.25 mile radii of *Expo Line Culver City Station*

SITE SIZE: 9.8 AC

CAPACITY BY USE:

- Retail: 340,000 sf
- Restaurants: 25,000 sf
- Creative Office: 35,000 sf
- · Other: 35,000 sf

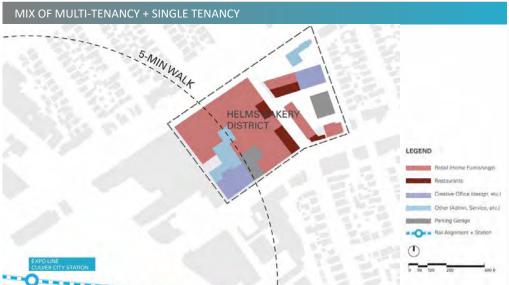
AVG FAR: ~ 1.0

LESSONS LEARNED:

- Renovation & adaptive reuse of historic industrial plants
- A destination of stylish furnishings and design center
- Internal event spaces
- Pedestrian walk with unique site character and historic identity







HARD, GRITTY, BUT COOL









ART WALK THAT IS AWARE OF ITS PAST



















• Dimension: 30,000 sf. ~ 70,000 sf. • Height: 1 story









THEMATIC TENANTS AROUND HOME FURNISHINGS

- Typology: Retail (Small-scale)
- Dimension: 3,000 sf. ~ 8,000 sf. / unit
- Height: 1 story







EVENT PROGRAMMING THAT SUPPORTS THE THEME

- Typology: Creative Office
- Dimension: 3,000 sf. ~ 4,000 sf. / unit
- Height: 1 story







FOOD AND BEVERAGE, SUPPORT USES THAT FIT THE BRAND

- Typology: Retail (Small-scale, F+B)
- Dimension: 3,000 sf ~ 6,000 sf.
- Height: 1 story















Residental W/ GFL Retail Office w/ GFL Retail

KEY FINDINGS / LESSONS LEARNED



LOCATION: Within 0.25 mile radii of Hamburg-Altona Train Station (services 6 commuter rail lines), w/ numerous bus stops in vicinity

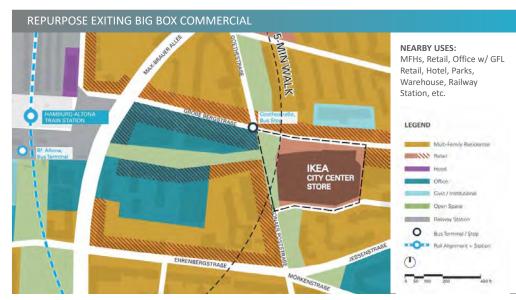
SITE SIZE: ~145,000 sf

CAPACITY:

- **GFA:** 480,000 sf, including: ~ 200,000 sf of sales area (20% smaller than a normal IKEA)
- 8 levels.,4 parking decks on top for 730 spaces

AVG. FAR: ~3.3

- Redevelopment on the site of a former run-down department store (Frappant Building)
- Includes the full range of products but on a different layout
 - Gentrification, bring \$100 million & 250 jobs





EMPHASIS ON BIKES, PEDS (YES EVEN THOUGH IT'S A BIG BOX)

- Pedestrian and bicycle-oriented
- Bus and train service nearby
- Colorful paving pattern









SITE AREA CONTEXT LOGRIES MARITIME MUSEIUM SAN PEDRO FISH MARKET PORTS O'CAIL STATION CRAFTED AT THE PORT OF LOS ANGELES SIFTING PAPERING CABRILLO BEACH VACHT CLUB CABRILLO BEACH VACHT CLUB CABRILLO BEACH VACHT CLUB



LOCATION: Within 0.25 mile radii of San Pedro Red Car Trolley Station

SITE SIZE: 7.9 ac

CAPACITY: 16.400 sf

AVG. FAR: ~0.5

- · Adaptive reuse of 1940's-era warehouse
- Close to seashore activities, such as fish market and boating club
- Close to trolley station, bringing in tourists
- Flexible, open plan plate for various scale of rental spaces, accommodating over 100 individual artists. Crafters, and food makers
- Internal pedestrian paseo for events and landscape, pervious paving





FOCUS ON LOCAL ARTISANS AND FOOD PURVEYORS

- Crafts space
- Indoor seating area/gathering space

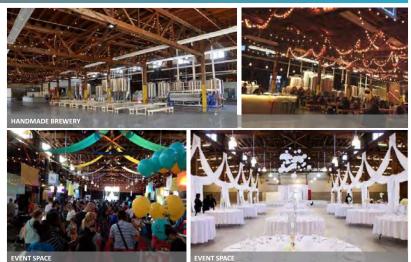


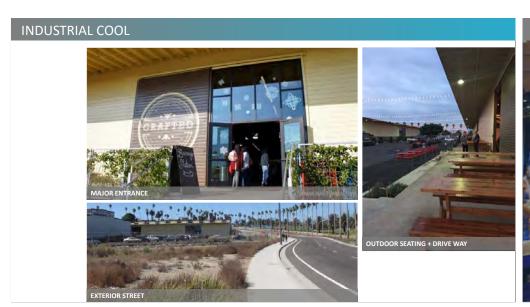




HIGHLY SUCCESSFUL WITH LOCAL EVENTS: WEDDINGS, ETC.

- Larger space for event and festivals
- Handmade brewery shop
- Indoor live concert













LOCATION: Within 0.25 mile radii of *Expo Line Culver City Station*

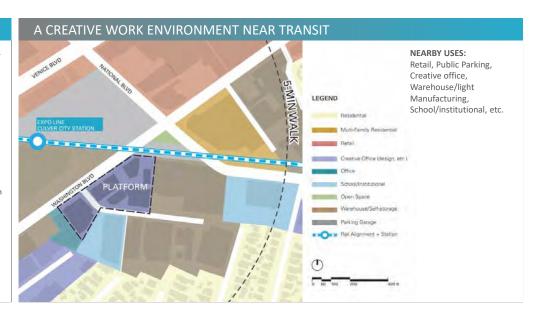
SITE SIZE: 2.0 AC

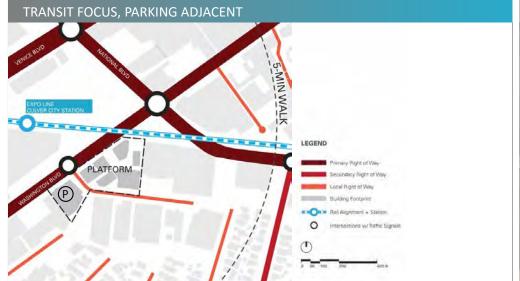
CAPACITY BY USE:

- Retail and Restaurant: 50,000 sf
- Creative Office: 80,000 sf

AVG. FAR: ~1.5

- TOD infill development on a former compact urban car lot
- Lifestyle destination: various lifestyle stores, art venues, boutique, and high end restaurants
 Appealing pedestrian street + outdoor room
- Terrace w/ outdoor seating and rooftop gathering
- · Parking garage with active uses at the street level







LIFESTYLE ALL DAY LONG!

- Typology: Retail (Small-scale)
- Dimension: 3,000 sf. 8,000 sf.
- Height: 1 story











50% POP UPS

- Typology: Retail (Small-scale)
- Dimension: 5000 sf- 6,000 sf
- Height: 1 story @ GFL









ETHNIC CRAFTS

- Typology: Retail (Small-scale)
- Dimension: 3,000 sf. 5,000 sf.
- Height: 1 story







FOCUS ON ENTREPRENEURS

- Typology: Creative Office
- Dimension: ~2,000 sf. / unit
- Height: 3 stories



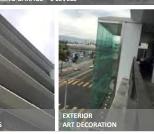






ADJACENT PARKING THAT ANTICIPATES AUTONOMOUS/ELECTRIC VEHICLES





EXTERIOR











LOCATION: Within ¼- ½ mile radii of *Valley Metro Mill Ave/3rd St Station*

SITE SIZE: 1.4 AC

TOTAL GSF: 38,000 SF

AVG. FAR: ~1.5

- · Adaptive reuse of historic industrial building
- Mix of restaurant, bar, game area, multipurpose event hall, live music venue, and fitness studio
- Serves nearby campus students and office professionals
- · Trigger local district revitalization
- Transit access





SITE AREA CONTEXT HAYDEN TRACT



KEY FINDINGS / LESSONS LEARNED

LOCATION: Within 0.5 mile radii of Expo Line Culver City Station and La Cienega / Jefferson

SITE SIZE: 85.6 AC

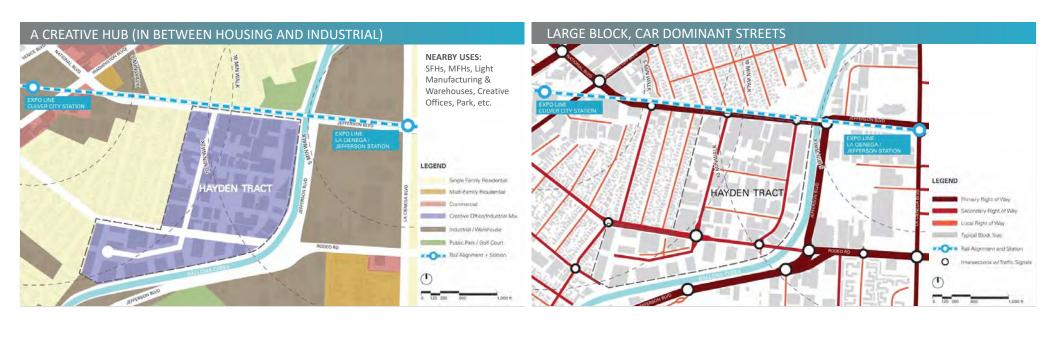
CAPACITY BY USE: Total 1.5M sf

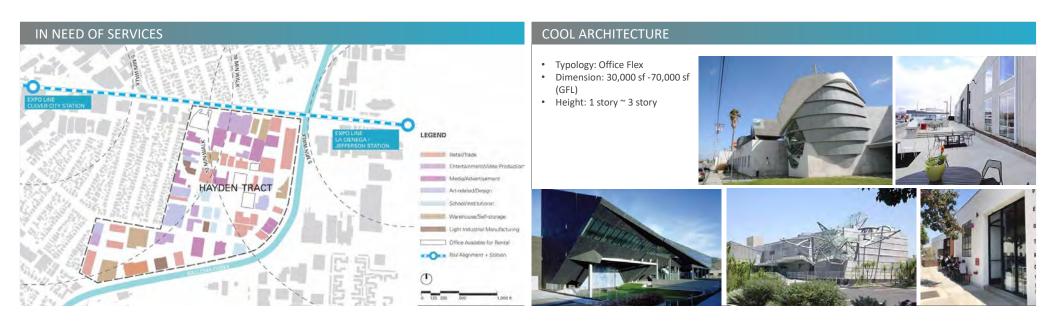
- Retail & Trade: 420,000 sf
- Creative Office: 900,000 sf
- Institutional: 100,000 sf
- Light Industrial Manufacturing: 54,000 sf
- Warehouse: 22,000 sf

LESSONS LEARNED:

Infill development on brown field

- Adaptive reuse and remodel of former industrial warehouses
- Creative company tenants
- Featured building design to create landmark
- Auto-dominant, less streetscape treatment
- Lack of daily service amenities and open space





SPACES FOR DESIGN AND LEARNING

Typology: School/Institutional
Dimension: 30,000 sf (GFL)
Height: 1 story ~ 2 story





LIGHT INDUSTRY AND WAREHOUSE

- Typology: Warehouse/Manufacturing
- Dimension: 15,000 sf. ~ 30,000 sf.(GFL)
- Height: 3 4 story

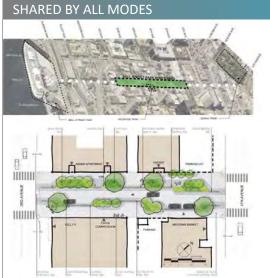








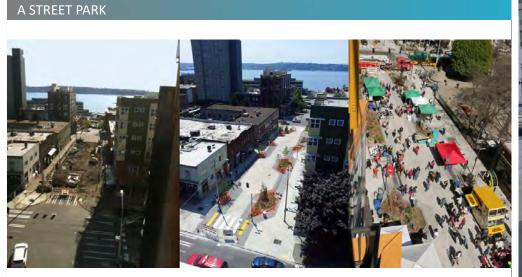




LOCATION: Bell street from 1ST - 5th Ave

PROJECT SIZE: 56,000 square-foot

- A raised, shared street space
- A single travel lane for pedestrians, buses, bicyclists, and autos
- Improved landscaping, better lighting, and more open space
- · Strong city/community collaboration
- · Programming and community events
- Promote the growth of Belltown as a compact, mixed-use, multi-modal neighborhood





ROAD DIET AND LOW IMPACT DESIGN



PROJECT SIZE: 1.1 MI

- Creation of multi-use trail that connects to multiple neighborhoods, beaches, commercial & office space
- Dedicated streetcar right of way with prioritized signals and shelters
- Road diet implemented by reducing four traffic lanes to two lanes
- Enhanced public realm improvements including benches, street trees, and pedestrian promenade
- Use of green infrastructure to reduce flooding, including bioswales and rain gardens
- create space for community events, farmers markets, and concerts
- increase commercial activity due to heightened pedestrian traffic and transit accessibility















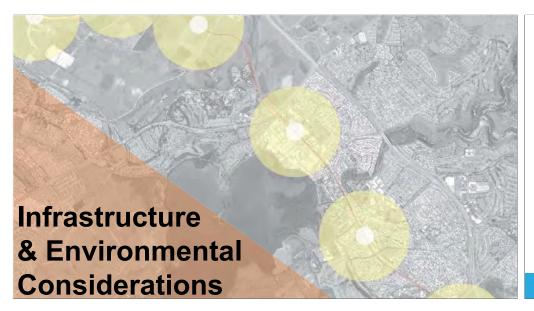
PROJECT SIZE: 5.5 MI

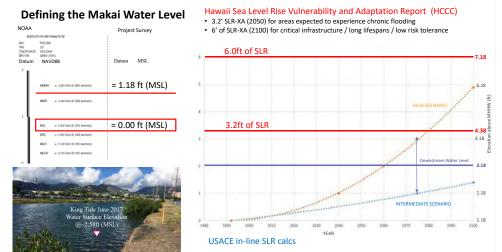
 from Montgomery Street at the East Side Coastal Resiliency (ESCR) project south around the Battery and extending up to include Battery Park City

LESSONS LEARNED:

- Urban flood protection
- Raised cycle path
- Protective park along waterfront
- Extended waterfront
- Public access
- Received USD 176 million in funding as part of the USD 1 billion National Disaster Resilience Competition (NDRC) run by HUD

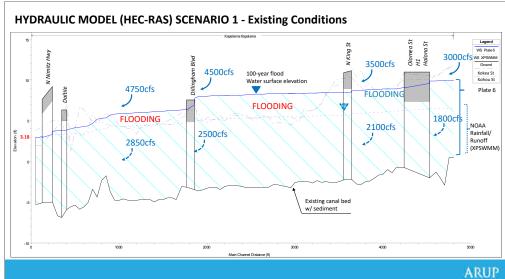


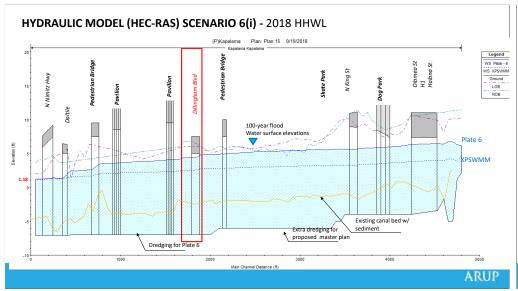


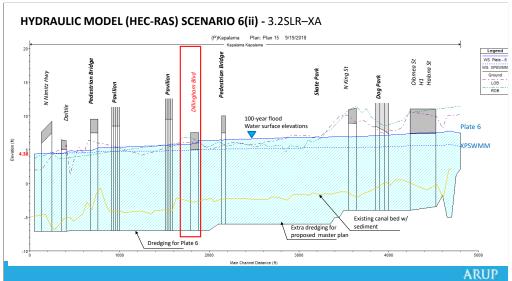


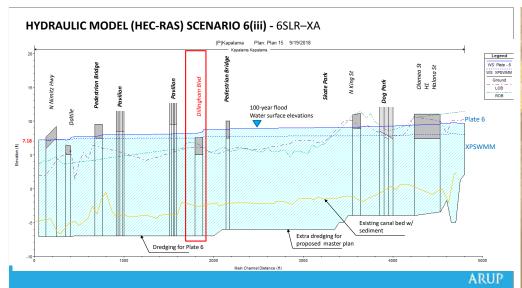
ARUP







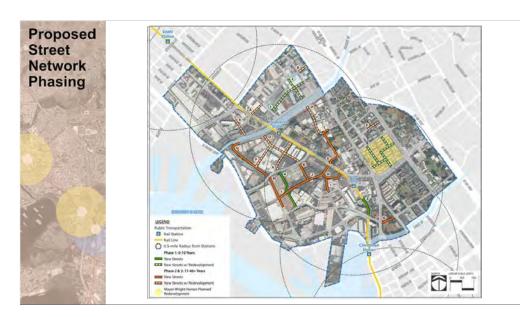


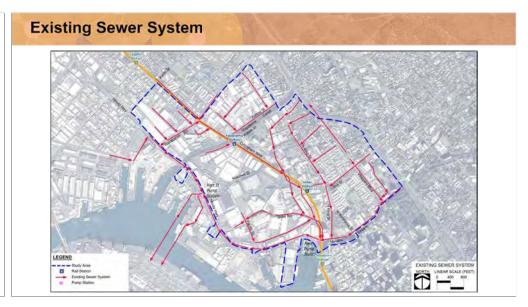


Area Overview IWILEI-KAPALAMA

Infrastructure and Regional Needs

- New public roadways including subsurface utilities
- Complete streets improvements
- Water system upgrades for fire flow protection
- Awa Street Pump Station, force main, and sewer system
- Upsizing sewer collection pipes
- Storm water drainage system improvements
- Climate change adaptation strategies





Existing Drainage Area



Proposed 25-kV Underground Distribution Circuits



Some copyrighted material. Please remember to give credit.

Hawaii becomes first state to pass laws supporting Paris Climate Accord (June 2017)

"climate change... is the overriding challenge of the 21st century [and] ...poses immediate and long-term threats to the State's economy, sustainability, security, and way of life.

...The State shall expand strategies... to reduce greenhouse gas emissions statewide through the reduction of energy use, adoption of renewable energy, and control of air pollution among all agencies, departments, industries, and sectors, including transportation."

ARUP



Gov. Ige signed $\underline{\rm SB~559}$ (Act 032), June 2017

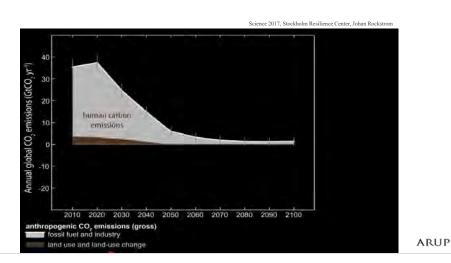
ARUP

Recognize a problem Choose to act to remedy or avoid the problem **Act effectively**

Adapted from Collapse - How Societies Choose to Fail or Succeed, Jared Diamond

ARUP

A 66% chance if we act effectively



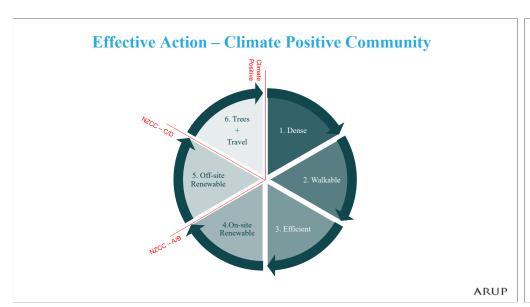
Optimism at the 2018 Global Climate Summit

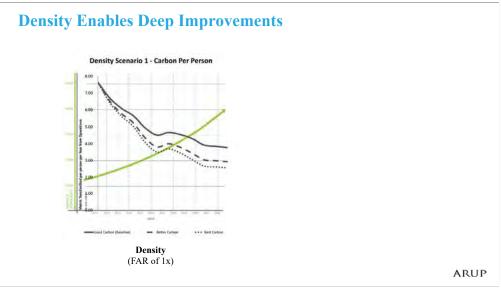
- The mayors of 19 cities presiding over 130 million city-dwellers including Copenhagen, Johannesburg and Tokyo, made a netzero carbon pledge for all new buildings by 2030.
- 400 investor members, representing \$32 trillion in assets, committed "to accelerate and scale up" climate action to support the Paris Agreement.
- \$15 million in pro-bono legal services by 2020 toward climaterelated causes, as nine law firms formed the new Lawyers for a Sustainable Economy Initiative.
- The Under2 Coalition now represents 1.3 billion souls and 43 percent of the planet's economy.
- The We Are Still In campaign now counts 3,540 corporate signatories pledging to uphold the Paris Agreement.

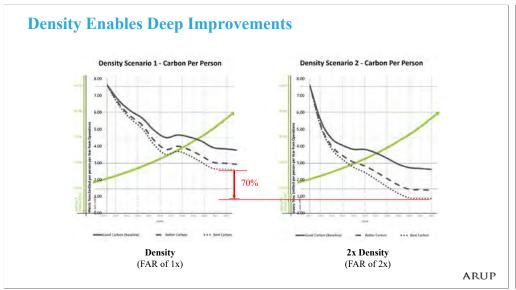
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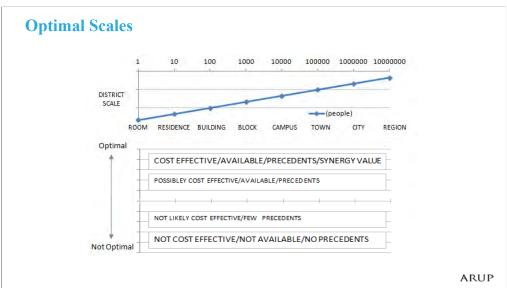


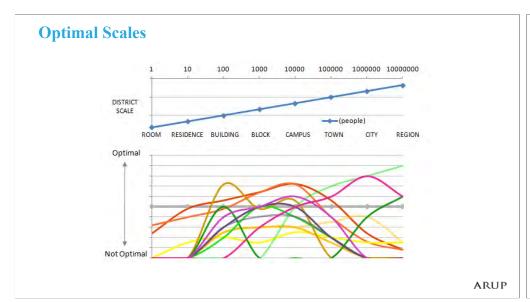
Climate Positive Communities

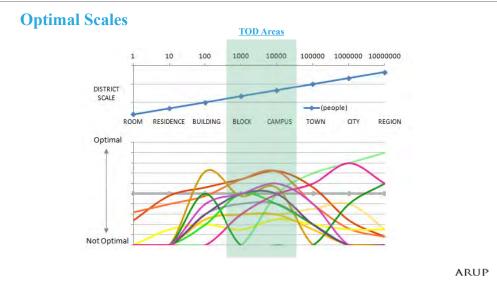




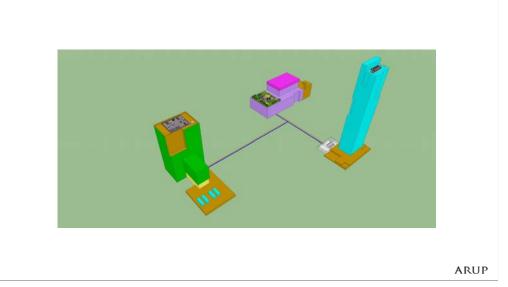


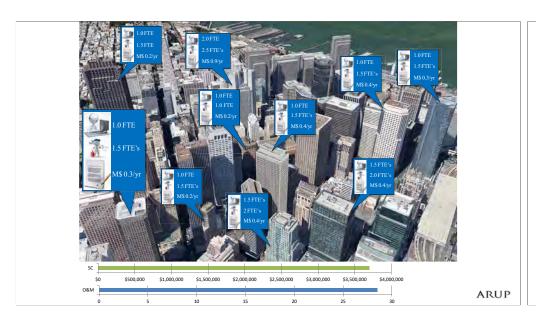




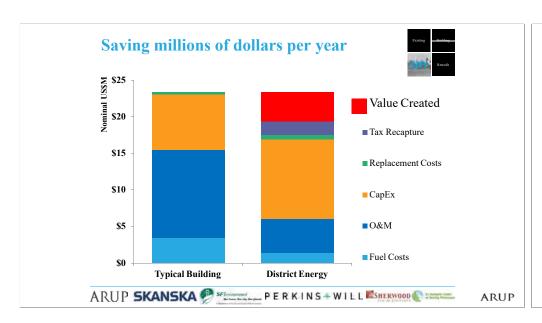














The Default Condition is...

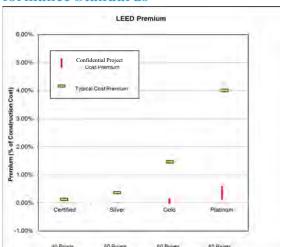
- Safe since others did it (think protection in groups)
- Easy since we've done it before (think existing tools)
- **Known** since we can see it (think existing data)
- **Inexpensive** since anything better or new should always cost more (think marketing)
- Hard to change (think existing city streets)
- Politically nonconfrontational (think NIMBY'ism)
- **Appropriate** since it reflects our culture (think the sexy automobile)
- **Financeable** since the financial system knows how to pay for it (think loan underwriting)

ARUP



ARUP

Building Performance Standards

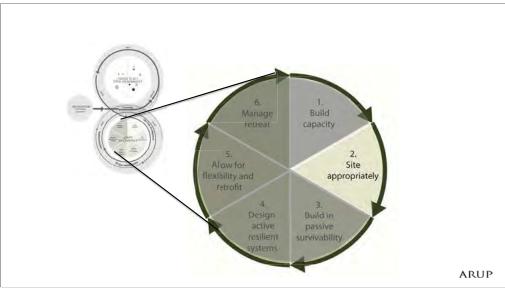


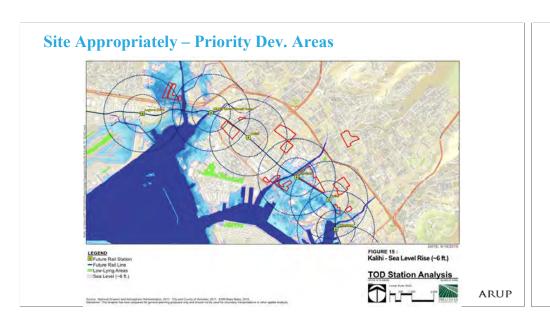
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Adaptation

Resistance & Resilience

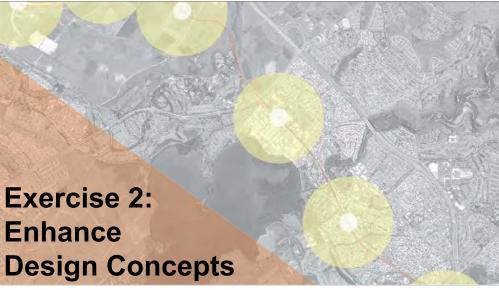




















- •"Homework"
- Compilation of alternatives
- •We'll keep in touch!

For requests for materials and project or PIG-related questions, please contact dbedt.op.lud@hawaii.gov or Rodney Funakoshi at: rodney.y.funakoshi@hawaii.gov If you have additional comments, thoughts, or materials to share, please e-mail Nathalie Razo at: nrazo@pbrhawaii.com

Thank you,
any questions?

Attachment E. Key Infrastructure Conditions in Iwilei-Kapalama TOD Priority Area

