



Transit Oriented Development And Complete Streets

Mauka Area Plan Principles

Develop "urban village" neighborhoods

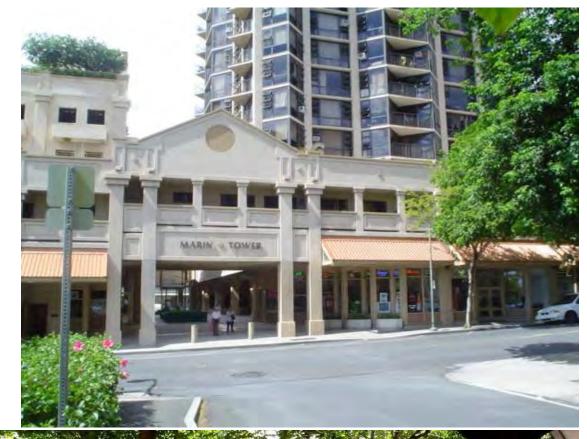
 Mixed uses, pedestrian-scale relationship of building to street and public places

Create great places

Use of corridors, existing public lands and redevelopment opportunities

Make connections

Maintain and complete the street grid, strategic crosswalks, multi-modal design





Urban Design Principles

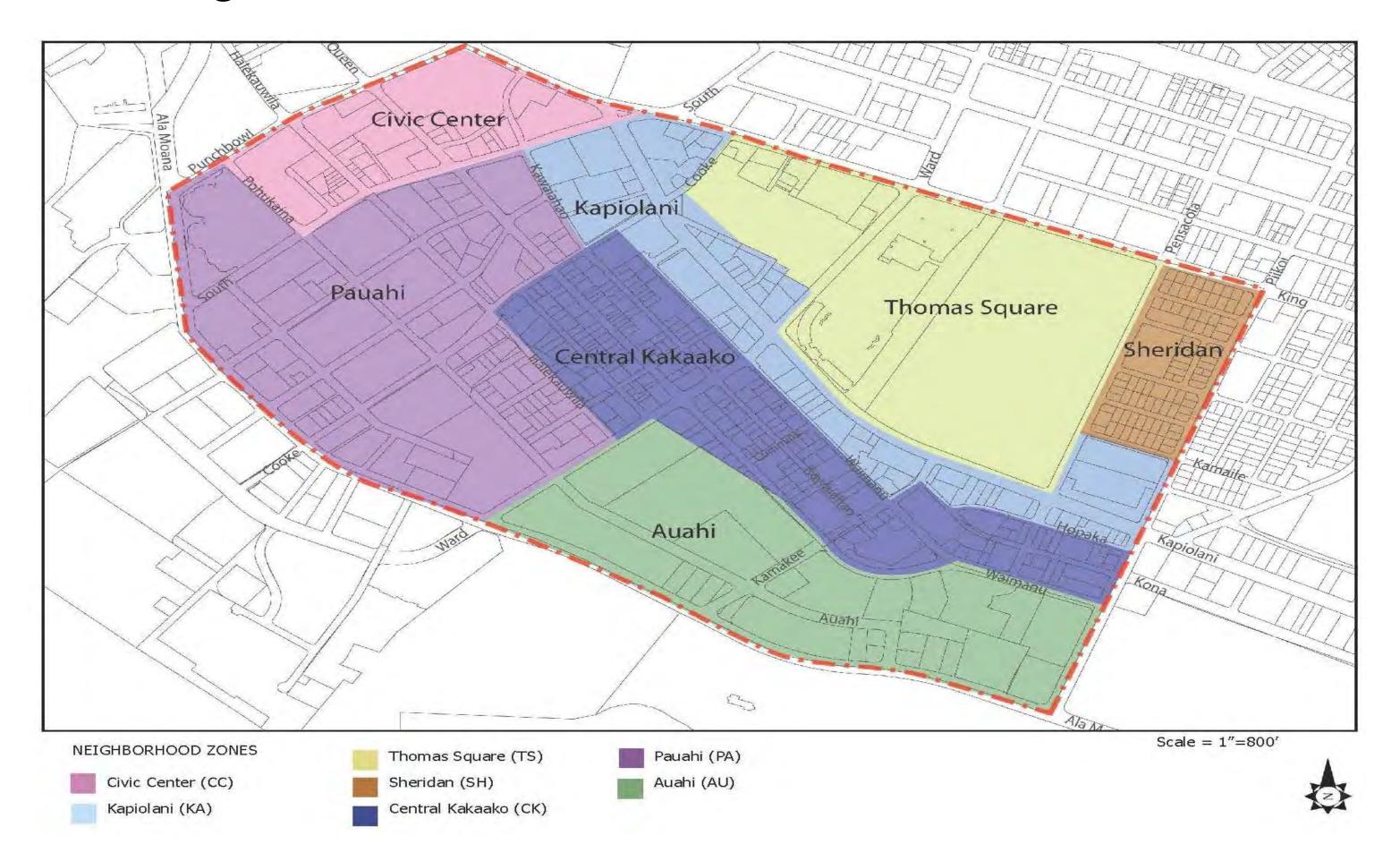




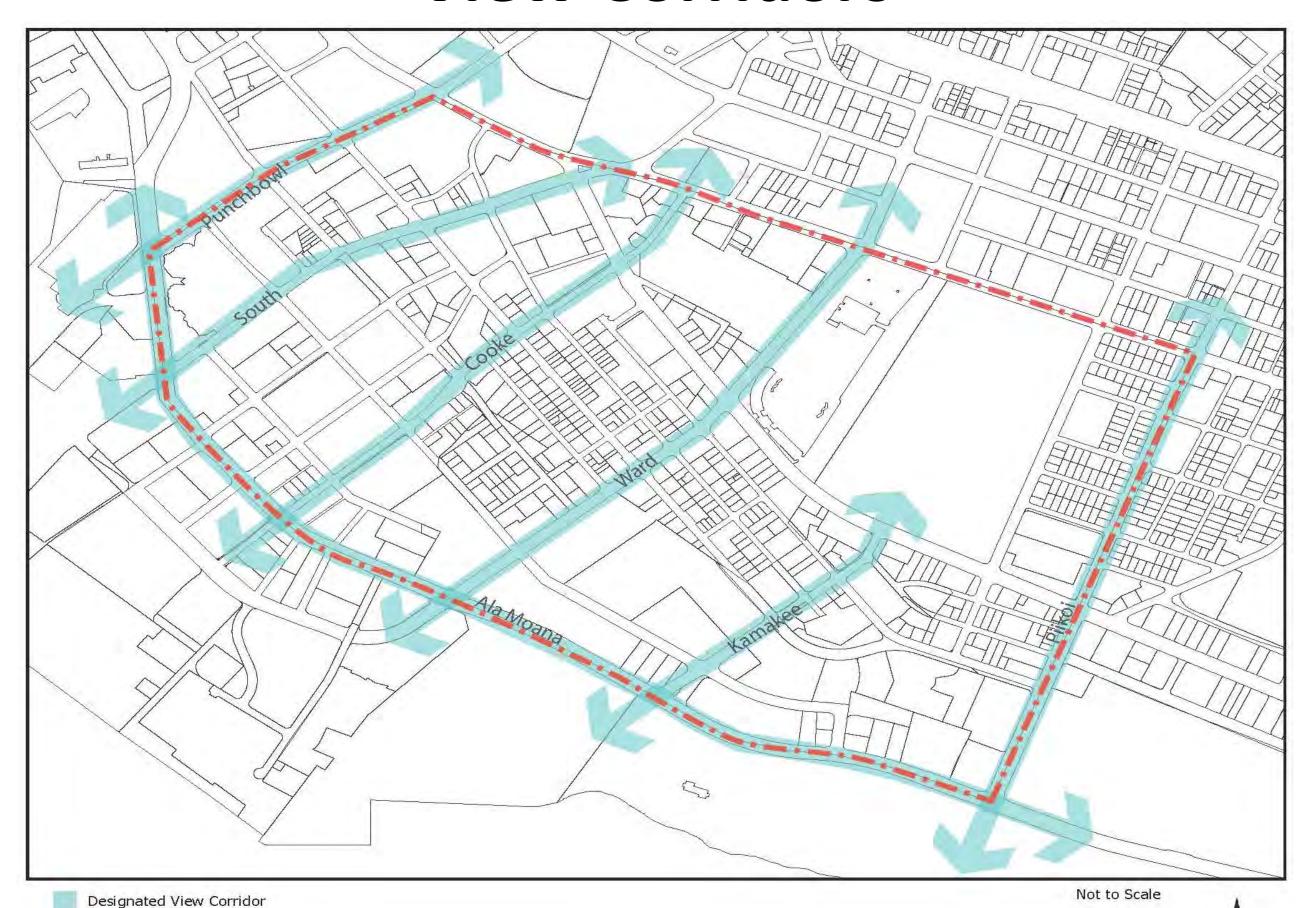


- Create outstanding pedestrian environment
- Provide improved street connections
- Create network of green streets
- Connect pedestrian paths across major thoroughfares
- Strengthen the Mauka-Makai linkage
- Support small-lot, mixed use, industrial pattern in Central Kaka'ako
- Support transit-oriented development

Neighborhoods



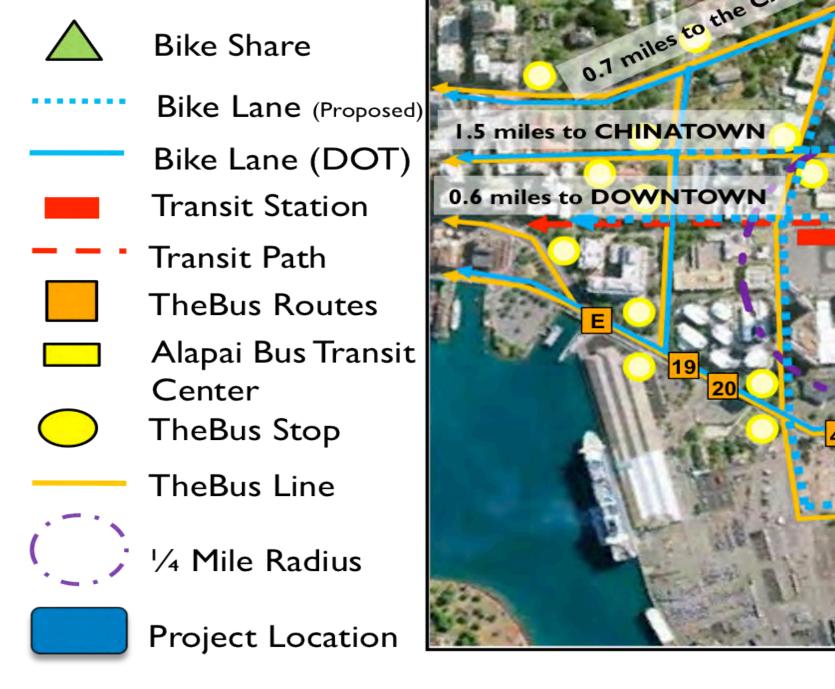
View Corridors



TOD - Not Just About Rail Transit!

- Mixed Use Residential & Commercial Area Designed to Maximize Access to Public Transport
- Creating a Predictable Public Realm
 - Relationship btwn Building Facades & Streetscapes
- Promoting Formation & Maintenance of Neighborhoods
- Establishing Compact Walkable Communities
 - Not Car Centric!
 - Safe For Pedestrians, Bicyclists, Motorcycles, all modes of Transportation
 - Not Defined by VMT (Vehicle Miles Traveled)

Existing Kakaako Transit



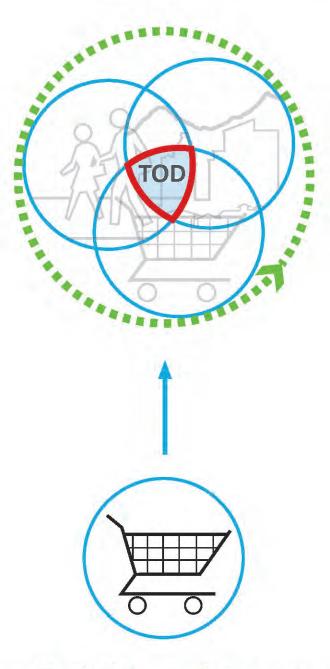


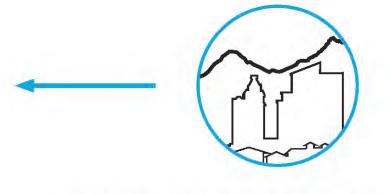
Elements of TOD



Successful Transit Oriented Development is a balance of all three of these primary elements listed below. Entitlements will be distributed between developments that provide the greatest balance.







Development Potential

Figure 1 | Pedestrian Elements of Complete Streets

mo·bil·i·ty

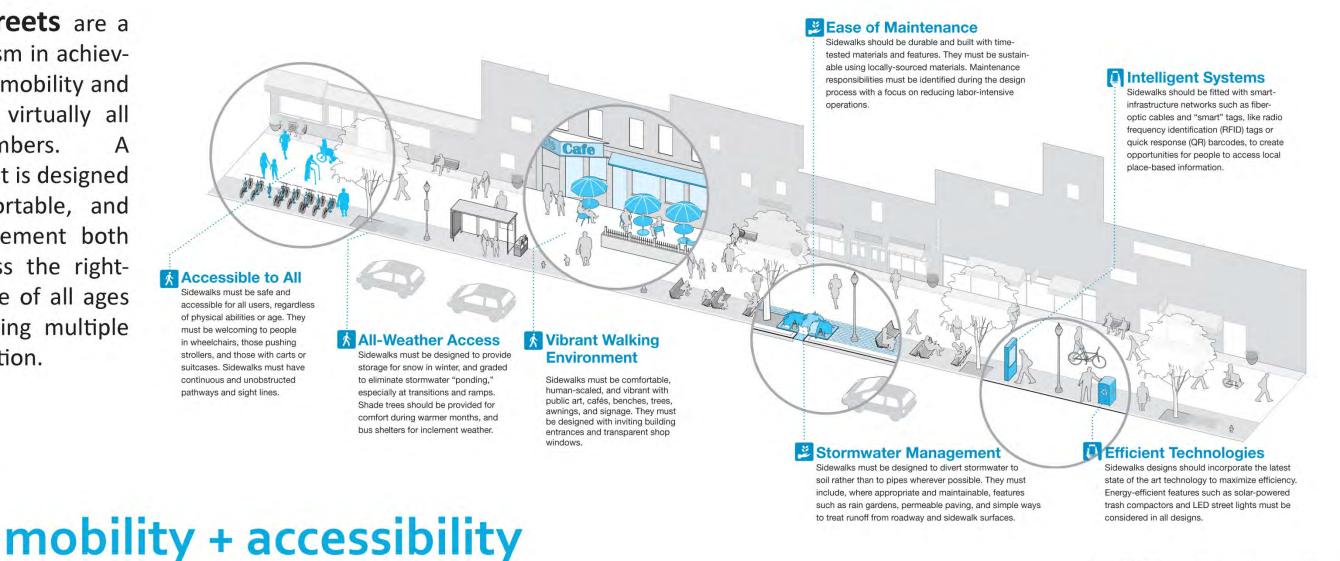
the quality or state of being capable of moving or of being moved readily from place to place.

ac·ces·si·ble

easy to approach, reach, enter, or use.

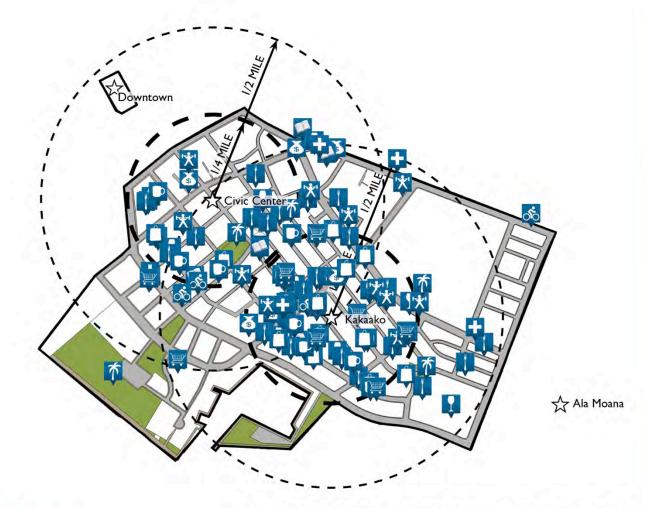
Mobility and accessibility are terms with distinct definitions and a balance of both are critical in order to achieve functional TOD. Overall mobility and accessibility must be viewed from a universal design perspective, meaning that the community of Kakaako as a whole needs to be addressed when establishing TOD.

Complete Streets are a driving mechanism in achieving district wide mobility and accessibility for virtually all community members. A "complete" street is designed for safe, comfortable, and convenient movement both along and across the right-of-way by people of all ages and abilities, using multiple modes to circulation.



Walkscore®, an international survey of walking access to services, ranked Kakaako a *Walker's Paradise*. Almost three hundred community services and amenities were listed within walking distance or a short bike ride from the geographic center of the district. This map, alongside the high level of transit service provided with the bus, demonstrates that transit oriented development can exist in Kakaako - with or without rail.

The diversity and **Availability of Services** within close proximity from one another throughout Kakaako offer a network of destinations that charge the district with activity. Although the landscape of services existing in Kakaako are already substantial enough to meet most of the daily needs of the community, TOD proposes to further enhance the accessibility to the existing services as well as promote the increase in service variety.





availability of services

Figure 2 | Services/Amenities in the Kakaako Community Development District

Walk Score®

100-90 | Walker's Paradise

Daily errands do not require a car

89-70 | Very Walkable

Most errands can be accomplished on foot

69-50 | Somewhat Walkable

Some amenities within walking distance

49-25 | Car-Dependent

A few amenities within walking distance

24-0 | Car-Dependent

Almost all errands require a car

Kakaako Walk Score®

91 Walker's Paradise

Transit Oriented Development

Walk Score ®

83 Very Walkable

Out of 100 593+ Amenities within a one mile 12 min to WALK to Downtown

20 min to WALK to Chinatown

18 min to WALK to the Capitol

44 min to WALK to Waikiki

27 min to WALK to Ala Moana Center Transit Score ™

76 Excellent Transit

10 min PUBLIC BUS ride to Downtown

16 min PUBLIC BUS ride to Chinatown

15 min PUBLIC BUS ride to the Capitol

23 min PUBLIC BUS ride to Waikiki

17 min PUBLIC BUS ride to Ala Moana Center



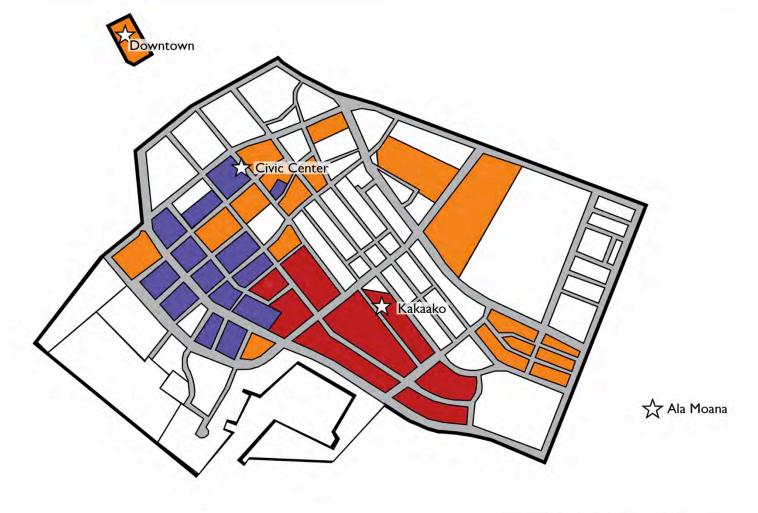


Two developers, Kamehameha Schools and the Howard Hughes Corporation, have major land holdings within the Kakaako Community Development District. Their properties, along with a few other large lot parcels, are highlighted as having the greatest transit oriented development potential in Kakaako.

Transit Oriented Developments that have significant influence on an area need to be dense, mixed-use projects of substantial size. Although the ideas laid forth in this TOD plan will result in district wide improvements, only certain sites with the greatest development potential will create a significant impact on the community. In light of the TOD size, density and use requirements, Development Potential of a parcel in Kakaako is effected by parcel size, land ownership and its current neighborhood zone. Development parcels that are over two acres, owned by a single entity and in a neighborhood zone or location where the current Mauka Area Rules already entitles the site to higher density and height.

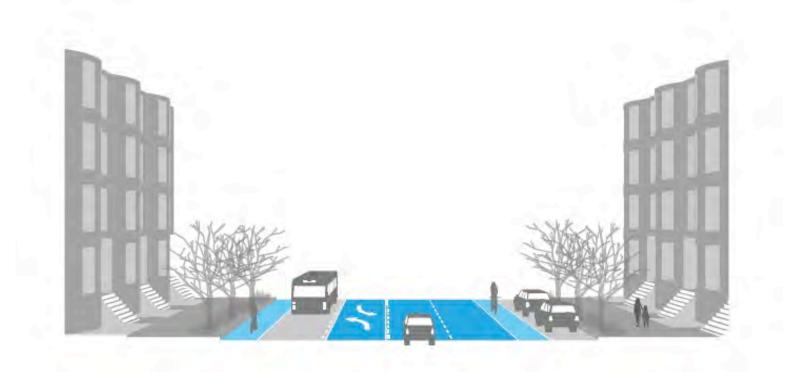






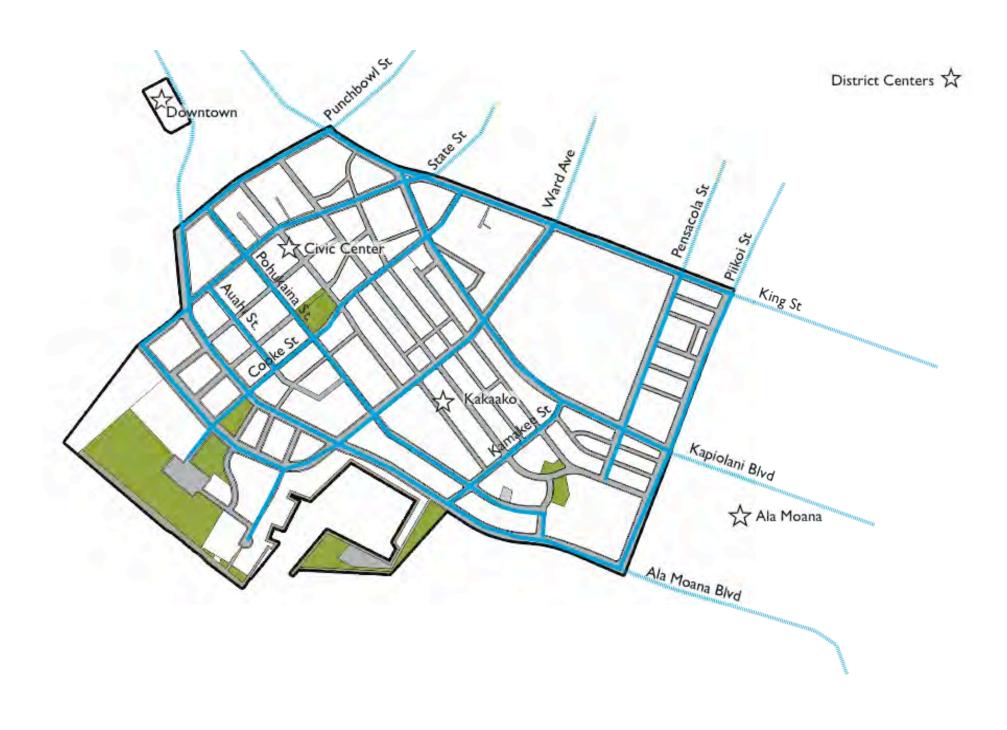
What is a Complete Street?





Complete Street Types emphasize the character of the entire street.

Kakaako Candidate Complete Streets





Complete Streets Program Elements



- Pedestrian Countdown Signals
- Crosswalk Markings
- Landscape Buffer
- Street Tree
- Bicycle Sharrows

- Bicycle Lane Safely Located
- Bicycle Intersection Design
- Bus and Service Vehicle Pull-Out Lanes
- Omni-directional Crosswalk (Barnes Dance)
- Speed Tables

Complete Streets for Pedestrians

Safety



Lower motor vehicle speeds:

- Narrower lane widths
- Reduced turning radii
- Traffic calming measures



Less exposure to conflicts:

- Dedicated space
- Shorter crossing distances
- Improved sight lines and visibility
- Crossing islands
- Appropriate signal timing and crossing treatments



Accessible crossings:

- ADA compliant curb ramps
- ADA compliant crosswalks
- Accessible pedestrian signals

Convenience



Comfortable and inviting spaces:

- Appropriate sidewalk widths for pedestrian volumes
- Crossings that reflect pedestrian desire lines
- Buildings that front the street
- Transparent store fronts
- ► Street trees
- Amenities such as benches, recycling and trash receptacles, public art, street cafés, etc.

Minimal Delay



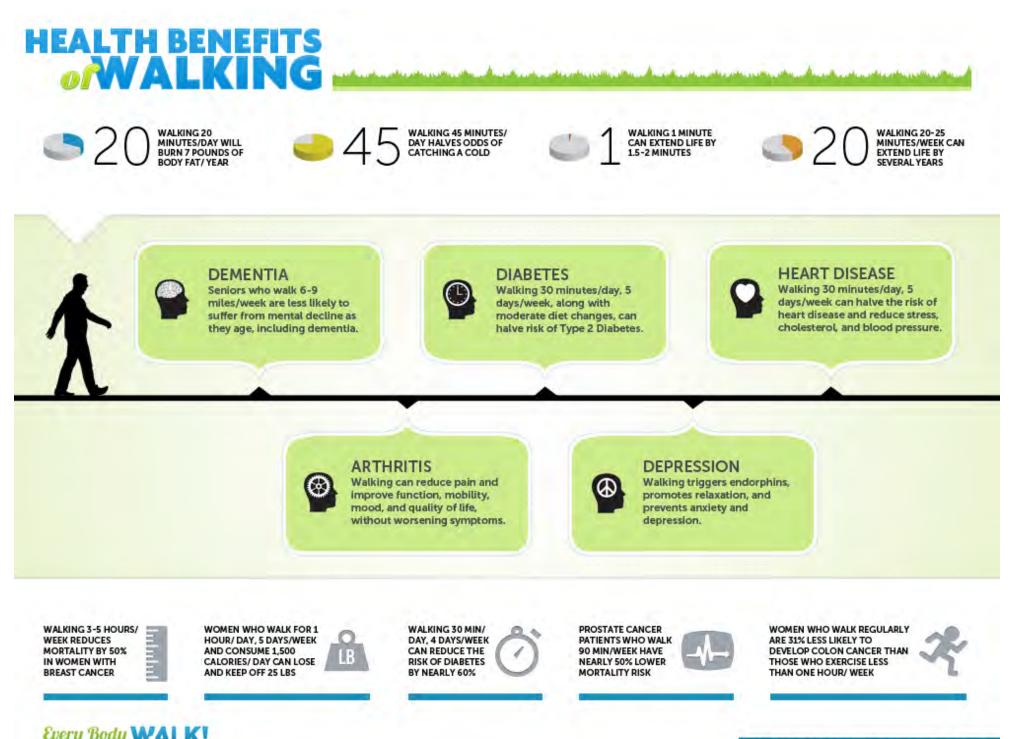
Frequent opportunities to cross:

- Pre-timed pedestrian signals
- Responsive pushbuttons
- Direct routes across complex intersections

Complete Street Intersection Design



It Makes Sense to be a Pedestrian!





Complete Streets for Bicycles

Safety



Lower motor vehicle speeds:

- Narrower lane widths
- Reduced turning radii
- Traffic calming measures



Less exposure to conflicts:

- Dedicated space
- Shorter crossing distances
- Signal design that accommodates bicycle speeds
- Signal design that reduces conflicts with other modes



Degree of separation:

- Intersection treatments for separate bicycle crossings
- ▶ Bicycle lanes
- Buffered bicycle lanes
- Cycle tracks

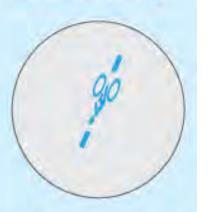
Convenience



Well-maintained and bicycle friendly intersections:

- Good pavement quality
- Materials that reduce vibrations
- Connections to other bikeways
- ▶ Wayfinding signs
- Bicycle parking

Minimal Delay



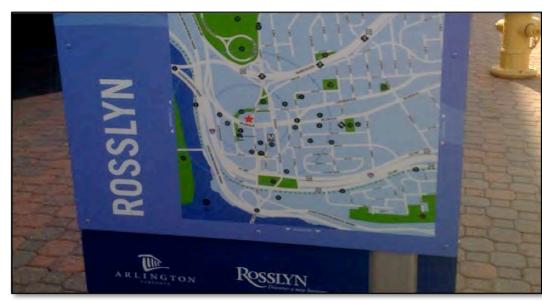
- Responsive traffic signals
- Bicycle signals
- Bicycle detection
- Direct routes across complex intersections

+

Bicycle Sharing Facilities



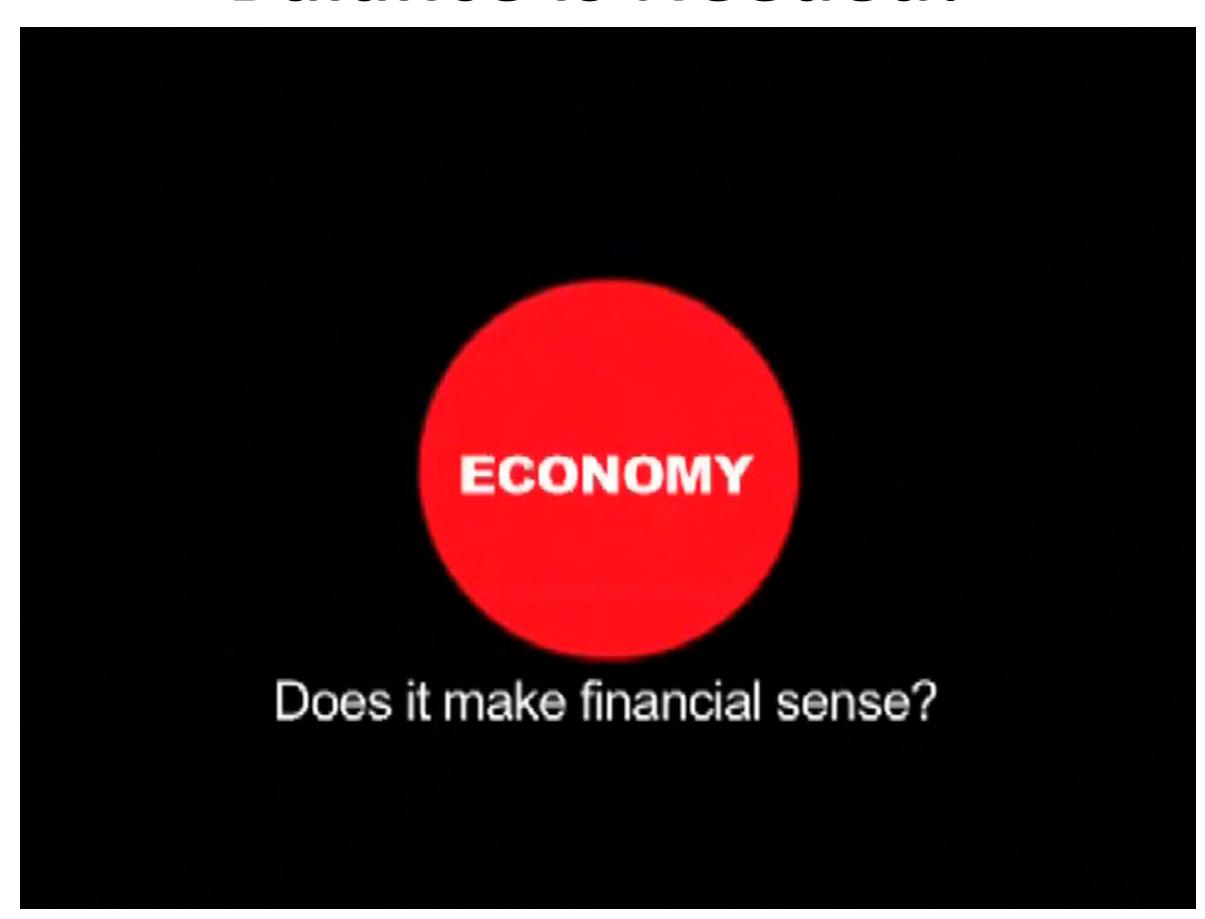




Necessary Elements of Successful TOD

- Efficient Public Transit
 - Multiple Modes of Transportation
- Form Based Codes
 - To Create Active Streetscapes & Predictable Public Realm
- TOD Overlay and Rules
 - ID Parcels Suitable for Increased Density, Height or Other
- Complete Streets Program
 - Intersection Design, Parking Regulations, & Pedestrian Facilities Too
- Diversity of Housing Opportunities
 - Sale & Rental Housing
 - Flexible Affordable/Work Force Housing Regulations

Balance is Needed!



Affordable vs Market Financing

Affordable Housing Financing

- Find Free/Low Cost Sites
- Secure Low Income Housing Tax Credit Sales & Equity
- HUD Backed Loans
- Small Grants
- Government Subsidy
- Conventional Financing to Cover the Remainder

Market Housing Business Profile

- ID Market Need
- Secure Site Control & Equity Investment
- Conduct Pre-Development & Design Activities
- Realize 65+% Pre-Pre-Sales & Deposits
 - Non-refundable Deposits
 - Equity Investment
 - Construction & Permanent Financing

TOD = A New Look at Affordable Housing

Not Just
Subsidized
Construction of
Residential Units
for Qualifying
Households!

- Promote Use of Public Transportation
- Unbundle Parking From Cost of Housing
- Integration btwn Building
 Frontage & Streetscape
 Promotes Compact Walkable
 Neighborhoods
- Public Private Partnership
- Deliver Real Units in the Urban Core!

Pathway to Achieving More Affordable Housing in Conjunction w/TOD

Not Just a Box for Shoe Horning Households Into

Needs to Promote a New Way of Life that is not Car Centric

The Active Streetscapes, Open Space Treatment & Proximity to Services Makes Up for a Lack of Project Amenities.

Community Amenities Does Not Discriminate Against Market or Affordable Unit Residents

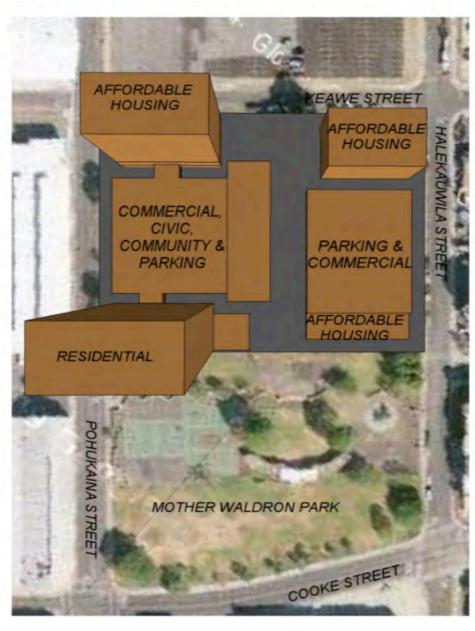
Efficient Modes of Public Transit

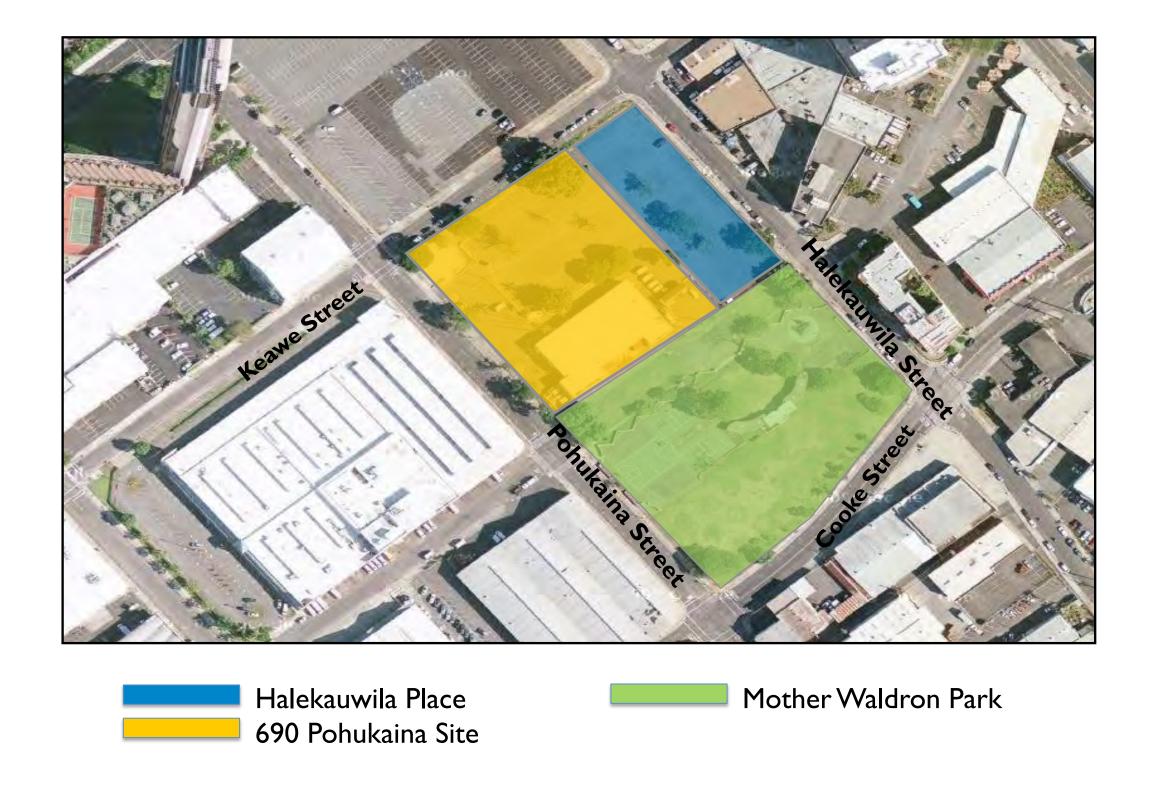
Compact Walkable Communities Diversity of Housing Opportunities

Financing,
Incentives,
Flexible
Regulations
&
Community
Will

Transit Oriented Development 690 Pohukaina







PROJECT SITE PLAN

690 Pohukaina Development

Phase I

- Affordable Rentals (204)
- Parking (282 stalls)

Phase II

- Market (500) &
 Affordable (300) Units
- Civic (25K sf)
- Community (10K sf)

Phase III

- Bus Incubator/ Innovation (30K sf)
- Commercial (30K sf)
- Parking (810 stalls)

Other Elements

- Increased Density (FAR)
 - 8.52 vs 3.5
- Increased Building
 Height to Use the
 Additional Density Up
 to 650 feet
- BroadbandInfrastructure
- Complete StreetsProgramming



A New Skyline for Honolulu

