

Transformation of Transportation

# Shared Use Mobility

---

County of Hawaii

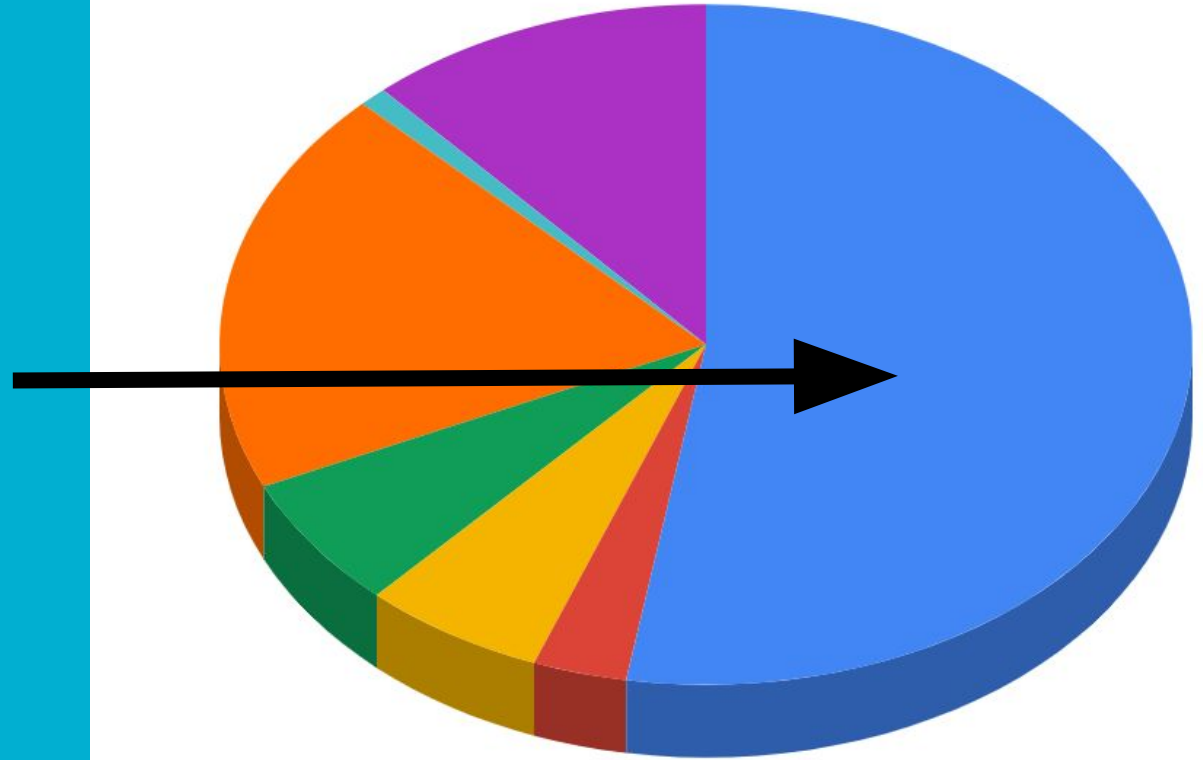
Department of Research & Development

An aerial photograph of a coastal town in Hawaii at dusk. The town features a mix of residential and commercial buildings, with palm trees and greenery interspersed. In the background, dark silhouettes of mountains are visible against a twilight sky. The foreground shows a parking lot with several cars. The overall scene is dimly lit, with the primary light source being the ambient light of the sunset or sunrise.

R&D Mission statement:  
**Advance knowledge and  
innovation** to make Hawaii  
County a great place to live,  
work, and visit.

# The problem

Transportation is the largest emitter of greenhouse gases in Hawaii County.





# The solution

## Shared Use Mobility

- Reduce transportation costs and GHGs.
- Build capacity and create buy-in.



Microtransit

Shared taxi and  
pooled ridesourcing

Carshare

Bikeshare

Vanpool

## Shared-Mobility Services

Scootershare

Transit bus

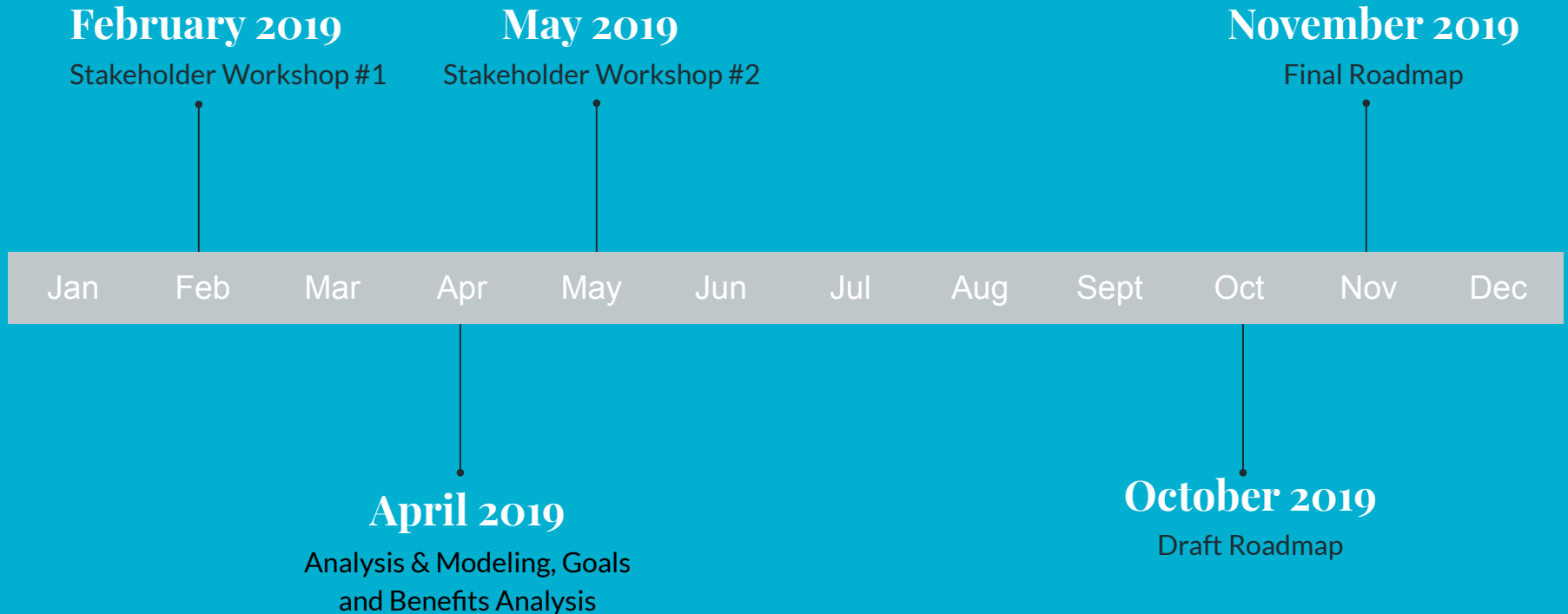
Volunteer  
transportation  
organizations

Taxi and  
ridesourcing

Carpool

# Milestones

---



# Goals & Benefits Analysis

---

## Trip Types

Town Centers,  
Commutes, Visitors,  
Social Service

## Services & Cost

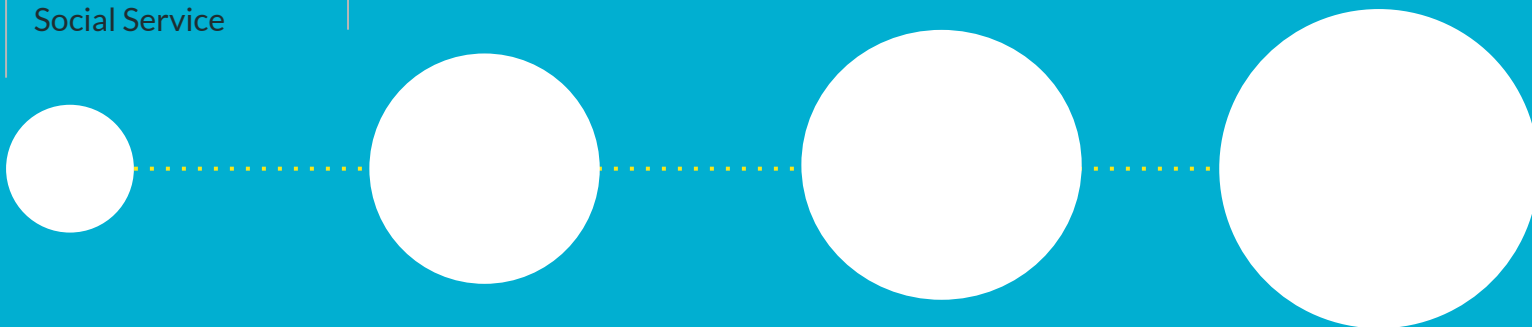
Transit, Carshare,  
Bikeshare,  
Micromobility, etc.

## Scenarios

Packages of services by  
cost. Services included &  
**penetration** level.

## Impacts

VMT/GHG and mobility  
outcomes by service.





# Stakeholder Workshop

## Considerations:

- User preferences
- Price
- Density
- Demand

Visitor Trips

Alternative  
Fuel Vehicles

Town Center  
Trips

Long Distance  
Commutes

# Visitor Trips

**Solution:** Resort shuttles and car rental opportunities

Barriers:

- Cost to run and maintain

Strategies:

- Competitive rates at resorts vs. airport.
  - Collaboration, communication, and cost share opportunities.
-

# Long Distance Commute

**Solution:** Establish transit/mobility hubs

Barriers:

- Land Acquisition
- Security

Strategies:

- Use public land
-

# Town Center Trips

## Solutions:

- Improve lighting.
  - Designate pickup zones.
  - Pursue partnerships to expand services for seniors and the disabled.
  - Offer low-income solutions for bikeshare.
  - Improve bikeshare infrastructure.
-

# Town Center Trips

## Commitments:

- Work with HCEOC on shared subsidized TNC rides for kupuna
  - Will look into starting a “car free day”!
  - Explore Open Street Day with Mayor and Managing Director
  - Will read the Hawaii County Transit Master Plan
-

# Alternative Fuel Vehicles

**Solution:** Expansion of hydrogen and fuel electric vehicle infrastructure

Barriers:

- Financial
- Expansion + access
- Ongoing maintenance

Strategies:

- Collaboration
  - Education
  - Incentives/tax credits
-

# Transportation Patterns & Challenges

## Land Use and Demographics

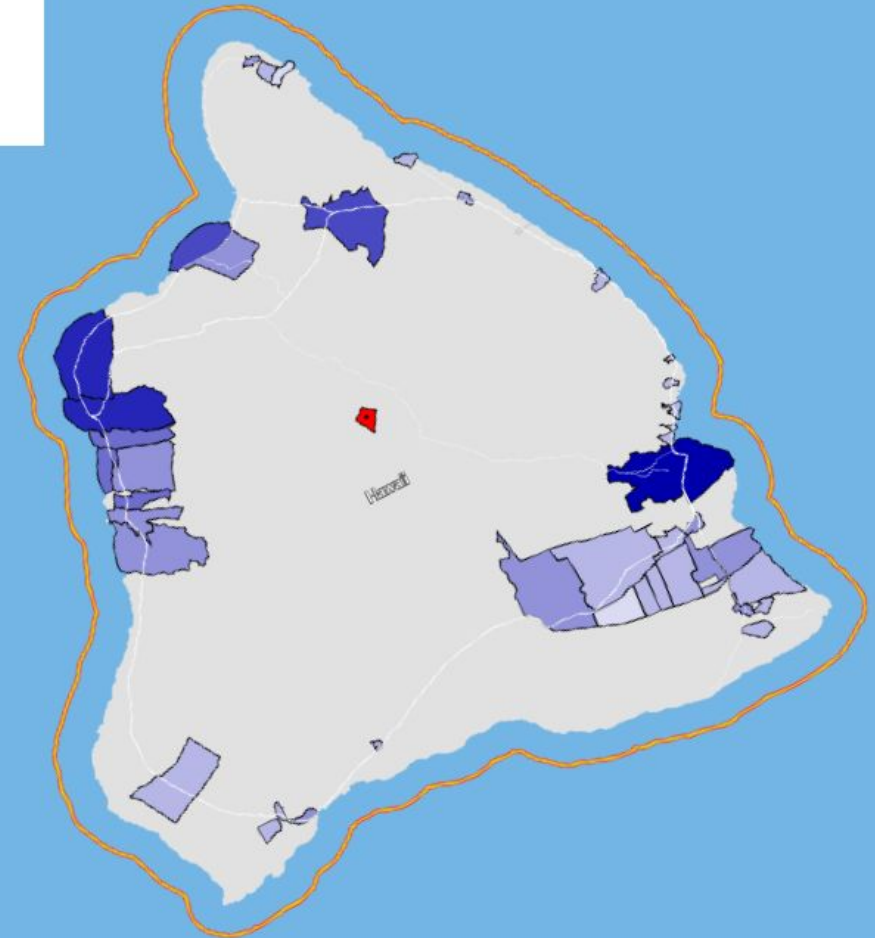
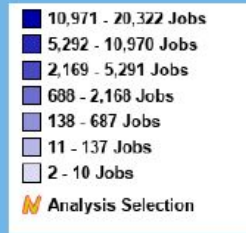
- 40% of population live in rural areas

## Jobs, Affordability, and Climate Change

- Disconnect between job centers and affordable housing
- VMT = Fuel Consumption = GHG

## Transportation Patterns

- 74% drive alone
- 1.5% use public transit
- International, city-dwellers, and millennials expect multi-modal options.



# County

---

- Bus
- Paratransit
- Shared Ride Taxi
- Social Service Rides

# Private Sector

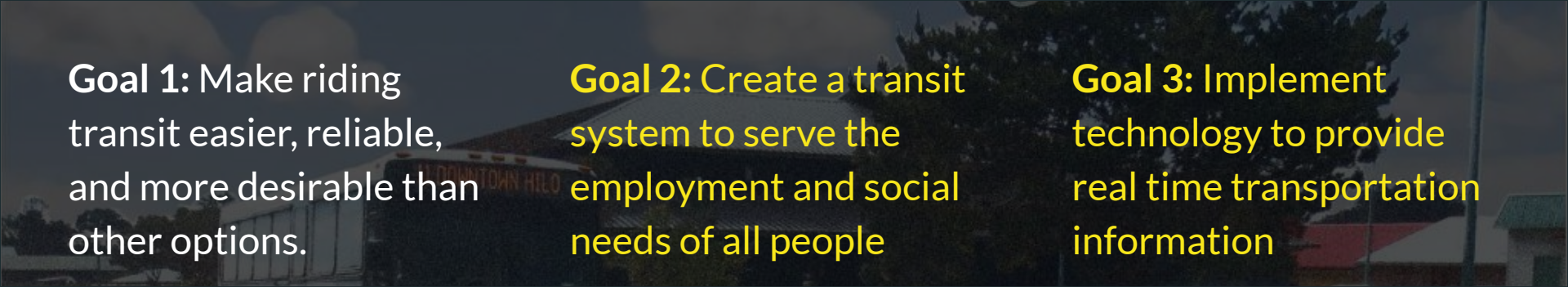
---

- Turo P2P Carsharing
- TNC's in Hilo and Kona
- Vanpools
- Historic Kailua Village Shuttle
- Roberts Hawaii, SpeediShuttle, and others
- Multiple Taxi Operators

# Bikeshare

---

- Partnership between County, PATH, Bikeshare Hawaii
- Operating since August 2016
- Now offered in Kona and Hilo

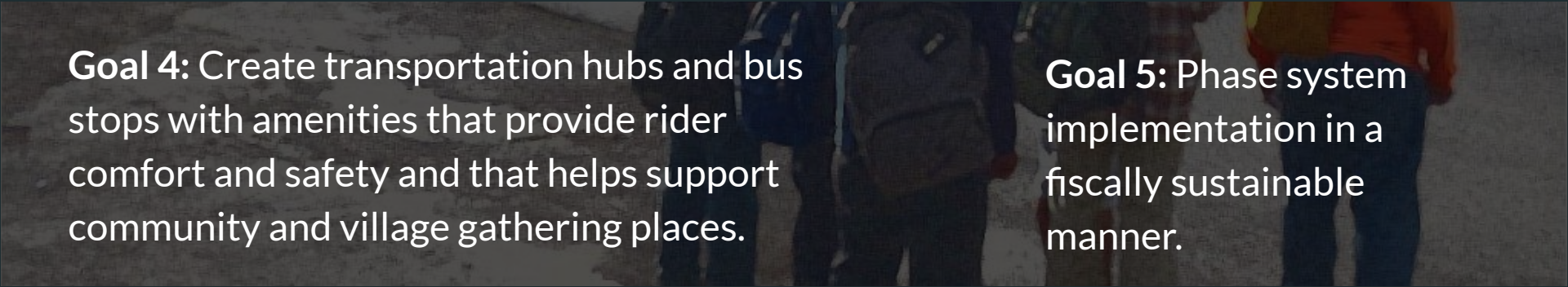


**Goal 1:** Make riding transit easier, reliable, and more desirable than other options.

**Goal 2:** Create a transit system to serve the employment and social needs of all people

**Goal 3:** Implement technology to provide real time transportation information

# Transit and Multimodal Transportation Master Plan



**Goal 4:** Create transportation hubs and bus stops with amenities that provide rider comfort and safety and that helps support community and village gathering places.

**Goal 5:** Phase system implementation in a fiscally sustainable manner.

# Goal 2: Create a transit system to serve the employment and social needs of all people

## **Strategy One:**

Update and modify the routes currently in existence to reach residential and employment locations.

## **Strategy Six:**

Add Sunday and holiday schedule service.

## **Strategy Two:**

Add direct cross island service for commuters and job seekers.

## **Strategy Seven:**

Add Bike share in Waimea and Hilo and contract for this service with PATH or another non-profit.

## **Strategy Three:**

Increase the hours of service.

## **Strategy Eight:**

Provide bike lockers at hubs and racks on all buses.

## **Strategy Four:**

Add circulator routes in Puna and continue them in Hilo, Waimea, and Kona

## **Strategy Nine:**

Subsidize a Vanpool program.

## **Strategy Eleven:**

Expand the current Para-transit program in Kona and Hilo to  $\frac{3}{4}$  mile and add to other areas of the island, starting with Puna.

## **Strategy Five:**

Add Flex service in Waimea, along Route 130 in Puna, in Hawaiian Beaches and Nanawale, and along the Hāmākua Coast.

## **Strategy Ten:**

Continue the Shared Taxi Program and expand it to other parts of the island; ensure a percentage of taxis are accessible by offering an incentive.

# Goal 3: Implement technology to provide real time transportation information

## Strategy Two:

Develop a Hele-On Transit APP. While waiting for the app to be done, develop a Hele-On Transit APP.

## Strategy Three:

Develop and distribute real time maps. Post real time information at bus

Program. Provide current information on the Hele-On website. Conduct district meetings and/or rider surveys every other year.

## Strategy Six:

Help achieve clean energy goals through alternate energy bus and infrastructure purchase, doing so in a fiscally responsible manner.

Hydrogen Vehicles

Renewable Energy

Electric Infrastructure

Hydrogen Production

Electric Production

Geothermal Energy

Electric Charging Stations

RED-VOLITY

DREDT

State of Hawaii Department of Transportation, Robert Miyasaki

County of Hawaii Seal

County of Maui Seal

Shared Use Mobility Center, Brian Holland

OBEDT/HSEO, Chris Y.

**Mahalo!**

---