

Bike Plan Hawaii

2nd
Round
Workshops



State of Hawaii
Department of Transportation



Federal Highway Administration

In cooperation with
City and County of Honolulu
County of Kauai
County of Maui
County of Hawaii



Bike Plan Hawaii



Consultants:



Kimura International Inc.



Sprinkle Consulting Inc.

Bike Plan Hawaii

Purpose of this Workshop

- Review planning process
- Bicycle use and preferences
- Bike Plan goals, objectives, and recommended actions
- Bikeway design possibilities
- Evaluation process
- Outcome of Workshop 1
- Your input

Bike Plan Hawaii

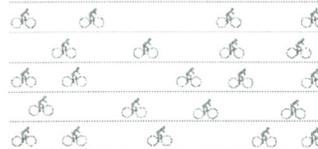
PLAN UPDATE

- A statewide bike master plan was completed in 1994
- Our workshop tonight continues the updating process



*Bike Plan
Hawaii* 
*A State of Hawaii Master Plan
(Summary)*

April 1994
Highways Division
Department of Transportation
State of Hawaii



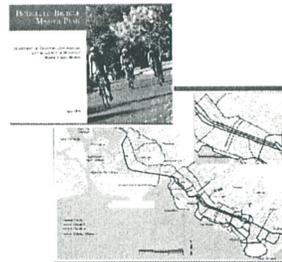
What is... Bike Plan Hawaii?

- A blueprint for improving the bicycling environment across the state
 - Pictures (maps) and statements (policies) of desired outcomes
 - Strategic program for achieving goals and objectives



What does the Bike Plan cover?

- State and county facilities on six islands
- On Oahu, Bike Plan Hawaii will fold in recommendations from the Honolulu Bicycle Master Plan (1999)
- Development proposals over the next 20 years
- Bicycle facilities of all types, but not mountain bike trails



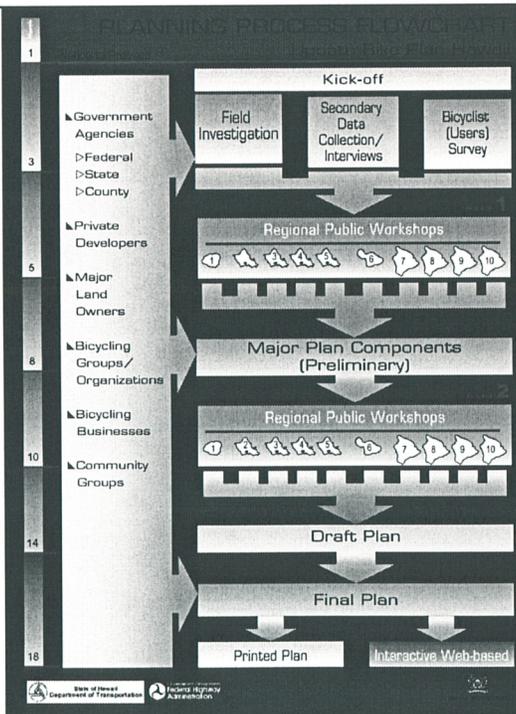
Why is it important?

- Part of the State's transportation plan
- Necessary to obtain federal transportation funds
- Consistent with County plans
- Integrate land use development and transportation systems



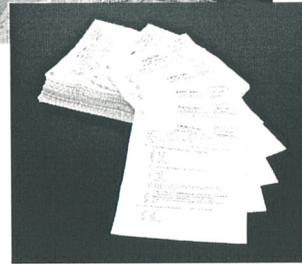
Bike Plan Hawaii

THE PLANNING PROCESS



What we learned about bicycle use and rider preferences

- Survey of workshop participants
- Random telephone survey
- School survey

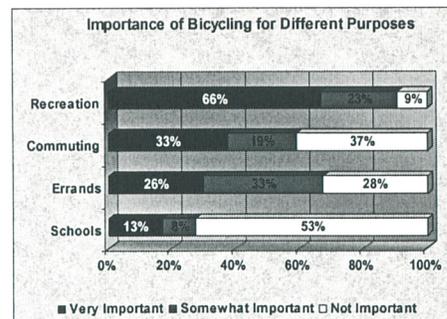
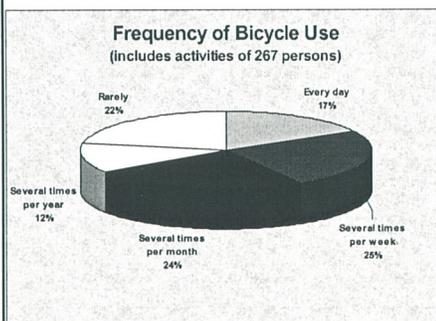


Workshop Survey Results



- How often do people ride bikes and for what purposes:

- Two-thirds of respondents ride at least a few times every month



- Recreation is the most common reason for riding, by far
- But more than half use bikes to run errands or commute to work

Workshop Survey Results

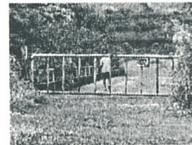
■ What do people like about bicycling?

- Alternative form of transportation
- Exercise
- Being outdoors, enjoying scenery



■ What problems do people face?

- Lack of road space
- High traffic volume/speed
- No off-road facilities ("paths")



Telephone Survey Results

- Conducted scientific survey - can generalize about entire population from the sample
- 402 respondents selected randomly
- Interviewed by phone in February 2002
- Representation of population on four major islands

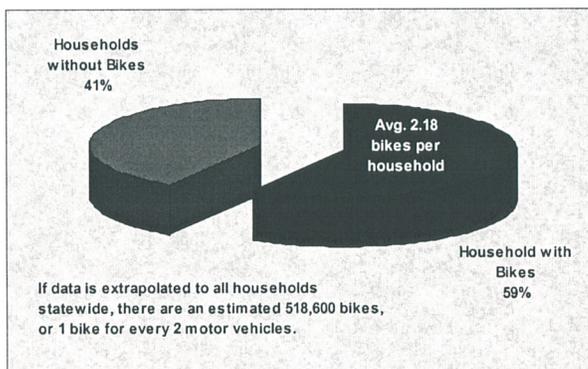


- Demographics indicate sample contains a mix of gender, age, ethnicity, and income similar to state profile
- Margin of error: +/-5%



Telephone Survey Results

■ Statewide Bike Ownership

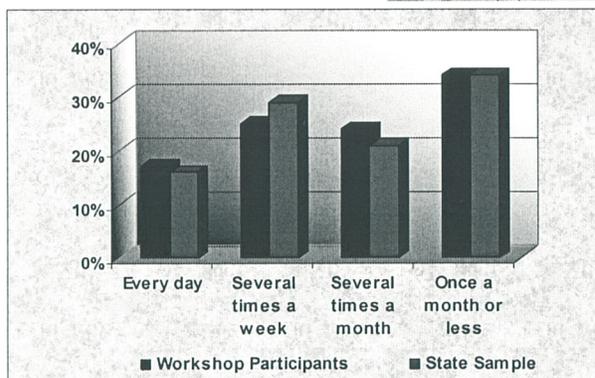


Telephone Survey Results

■ Frequency of bike use



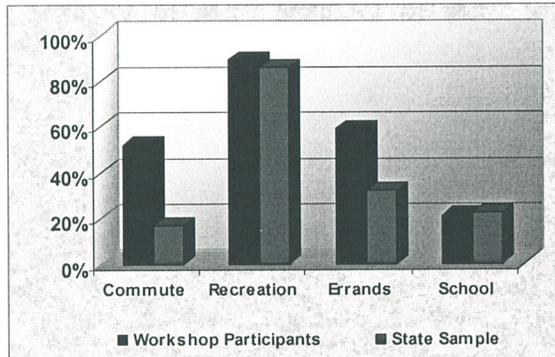
Workshop participants similar to rest of the state in frequency of bike use



Telephone Survey Results

■ Why do people bike?

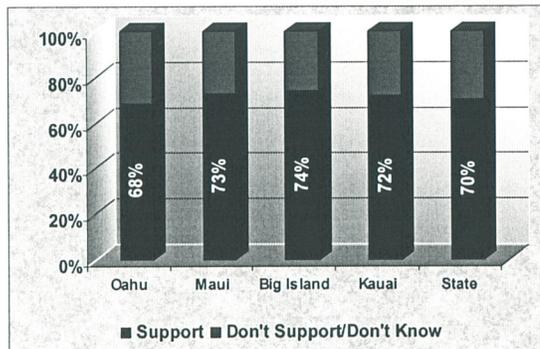
Purpose varies, general population of bike riders less likely to commute or do errands by bike



Telephone Survey Results

■ Support for Changes to Make Hawaii more Bike Friendly

A strong majority of residents support efforts to improve the bicycling environment. Attitudes are consistent across the state.

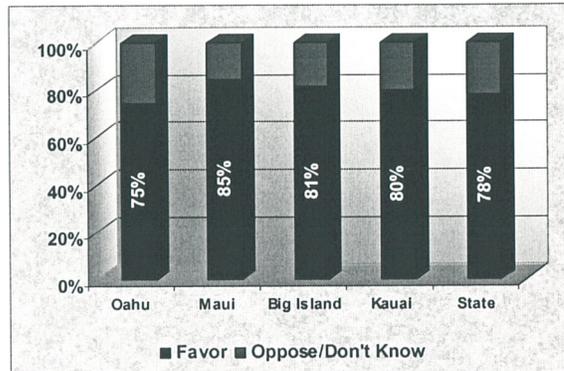


Telephone Survey Results

■ Use of Government funds to Address Biking Issues



An even larger percentage support government funding for bicycling improvements



Telephone Survey Results

■ Specific ideas to improve the bicycling environment

- Bike lanes
- Wide shoulders
- Bike paths
- Maintenance
- Bike education
- Signage



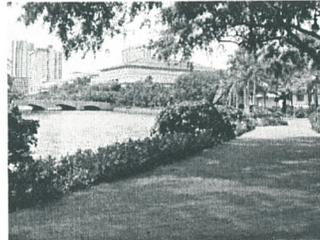
- Enforcement of traffic laws
- Bike Parking
- Orientation rides
- Bike questions on driver's exam

Telephone Survey Results

■ Top 5 ideas with strongest statewide support

- 1 Maintenance
- 2 Bike paths
- 3 Bike education (tie)
- 3 Bike Parking (tie)
- 4 Signage

*Single most favored idea:
bike paths*

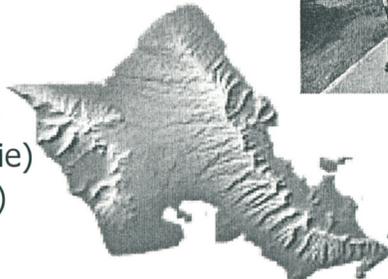


Telephone Survey Results

■ Top 5 ideas with strongest support on Oahu

- 1 Maintenance
- 2 Bike paths (tie)
- 2 Bike Parking (tie)
- 4 Bike education (tie)
- 4 Enforcement (tie)

*Single most favored idea:
maintenance*



Telephone Survey Results

■ Most favored ideas on other islands

Maui

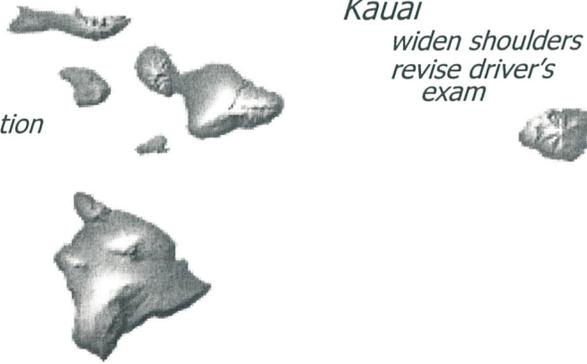
*bike paths
bike lanes
bike education*

Kauai

*widen shoulders
revise driver's
exam*

Big Island

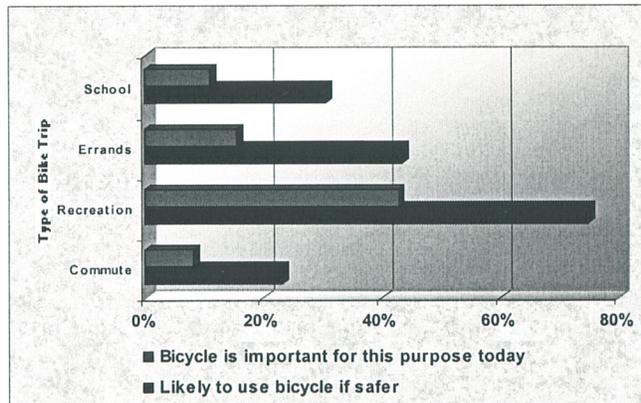
bike paths



Dividends of Bicycle Improvements

■ Improving bicycling safety and convenience could have a dramatic impact on bicycle ridership

Almost twice as many people would ride if improvements made

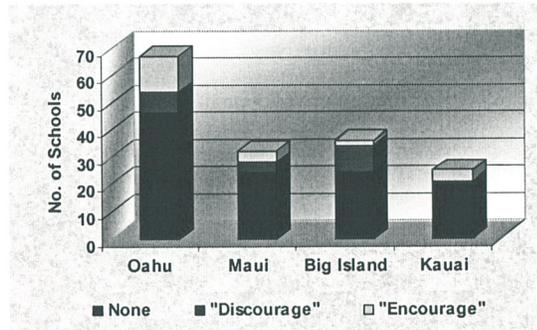


School Survey Results

- School Policy on commuting to school by bicycle



Few schools actively encourage bicycling to school

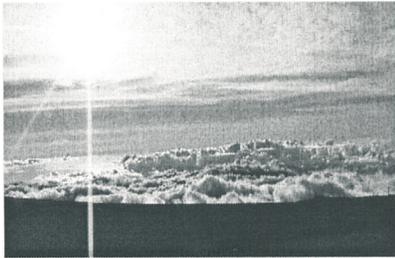
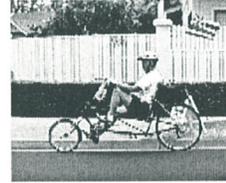


Main Components of Bike Plan Hawaii

- Proposed Goals, objectives and recommended actions
 - What are the aims of the plan?
 - What should the bicycling environment be like in 2025?
 - 5 "E"s: Engineering, Enforcement, Education, Economics, Encouragement
- Future Bikeway Network
- Implementation Program
 - Funding sources
 - Phasing
 - Grassroots activities

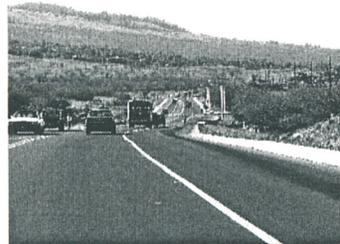
Proposed Goals, Objectives and Policies Bike Plan Hawaii

- Overall Goal of Bike Plan Hawaii
 - To establish bicycling as a safe and convenient mode of transportation for residents and visitors throughout the state



Proposed Goals, Objectives and Policies Bike Plan Hawaii

- Engineering and Planning
 - Objective: Plan and design new and improved transportation facilities to accommodate and encourage use by bicyclists of different skill levels.
- Recommended Actions:
 - Design roadway projects with adequate space for bicyclists
 - Expand bikeway networks for utilitarian and recreational travel
 - Adopt accepted design guidelines and standards
 - Develop innovative design solutions when environmental conditions warrant



Proposed Goals, Objectives and Policies Bike Plan Hawaii

■ Engineering and Planning

- Recommended Actions (continued)
 - Maintain bikeways in a smooth, clean and safe condition
 - Inspect roadways after being repaired
 - Encourage counties to adopt Bike Plan Hawaii and any local bike plan as a legal foundation to enforce land development regulations
 - Encourage counties to adopt land use plans and regulations that promote bicycling through compact development with suitable bike accommodations
 - Continue integrating bicycles with other modes of transportation
 - Expand future Bike Plan Hawaii to include pedestrians



Proposed Goals, Objectives and Policies Bike Plan Hawaii

■ Education

- Objective: Expand the range of education activities to reduce bicycle crashes and increase ridership.
- Recommended Actions:
 - Support statewide bicycle education programs for children in schools
 - Curricula should include use of bicycle safety equipment, on-road bicycling skills and judgment, and observance of laws
 - Incorporate bicycle awareness into the driver education program, Hawaii drivers' manual, and drivers' license written exam.
 - Monitor and analyze bicycle crash data to improve bicycle safety



Know the Law.

- Stay off hills, ditches and dips. Bicycles are unstable traffic laws are subject to the same penalties as vehicles.
- Always ride in the direction of traffic, never in a left lane for a short distance.
- When traveling slower than the speed of traffic, ride in the right-hand lane as practical.
- Except in rural areas, do not ride on the roadway.
- Follow lane markings.
- When riding at night, you must use a headlight and rear reflector.
- Don't use a passenger unless the bicycle is equipped for use.
- In areas where there are heavy bicycles, handlebars may not be less than 18 inches in length, and must always point the right of way in pedestrian.
- While riding a bicycle, never drink or under the influence of any substance that is prohibited to your bicycle.



PREPARED BY THE HAWAII DEPARTMENT OF TRANSPORTATION AND TOURISM PROMOTION



BICYCLE

Regulations and Illustrated Safety Tips



Copyright by the Department of Transportation Services City and County of Honolulu

BICYCLE SAFETY

Proposed Goals, Objectives and Policies Bike Plan Hawaii

■ Education

- Recommended Actions: (continued)
 - Evaluate crash reporting system and recommend changes to improve usefulness
 - Support continuing education programs on state-of-the-art bicycle facility planning and design for transportation professionals.
 - Create an on-line resource center. Website should allow feedback from bicyclists.
 - Increase awareness about the health and fitness benefits of bicycling.
 - Support the establishment of a Safe Routes to Schools Program



Proposed Goals, Objectives and Policies Bike Plan Hawaii

■ Enforcement

- Objective: Strengthen enforcement efforts to prevent illegal and reckless behavior by motorists and bicyclists and safeguard those using the bicycle network
- Recommended Actions:
 - Work with law enforcement to reduce traffic violations by bicyclists that might result in serious crashes with motor vehicles or pedestrians
 - Work with law enforcement to reduce motorist errors and aggressive behaviors



Proposed Goals, Objectives and Policies Bike Plan Hawaii

■ Enforcement

- Recommended Actions:(continued)
 - Review and update, as needed, bicycle-related traffic laws
 - Review, modernize, and streamline the bicycle registration system.
 - Work with law enforcement agencies to reduce crime on bicycle corridors



Proposed Goals, Objectives and Policies Bike Plan Hawaii

■ Economics

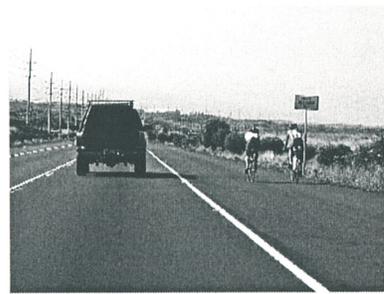
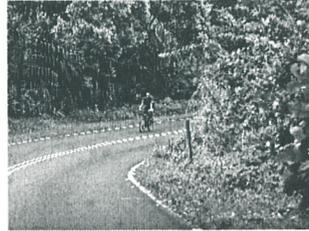
- Objective: Increase awareness about the economic benefits of increased bicycle use
- Recommended Actions:
 - Identify opportunities to enjoy the islands' diverse scenic beauty via bicycle
 - Consider visitors when designing bicycle facilities, such as signs or markers that facilitate way-finding



Proposed Goals, Objectives and Policies Bike Plan Hawaii

■ Economics

- Recommended Actions: (continued)
 - Work with the Hawaii Tourism Authority and other appropriate entities to develop promotional material
 - Disseminate informational material about the individual and societal cost-savings of replacing car trips with bike trips



Proposed Goals, Objectives and Policies Bike Plan Hawaii

■ Encouragement

- Objective: Increase bicycle trips by promoting the personal and community benefits of this mode of travel
- Recommended Actions:
 - Sponsor statewide promotions and events to increase awareness of bicycling opportunities
 - Distribute maps and guides about bicycle facilities and programs
 - Support bicycle advisory committees in all counties

