**Transporting Ecologies** 

# Phase 3: 50% completion

**Protocal Applications and Strategies** 

29 March 2004

Alachua Countywide Bicycle Master Plan Update



prepared for the

North Central Florida Regional Planning Council

Metropolitan Transportation Planning Organization

# **Project Status**

March 2004

### Advancing the Bicycle Pedestrian Master Plan

- Public health & community infrastructure
- Utilize initiatives from 2001 Master Plan
- Conceptualization of a complete regional system

Destination based analysis

Contextual analysis

New paths and networks potentials

- Identify strategies for implementation (case studie Analysis of infrastructure in bicycle supportive communities
- Develop design vignettes for high priority projects

Integration of infrastructure and eco-sensitive strategies

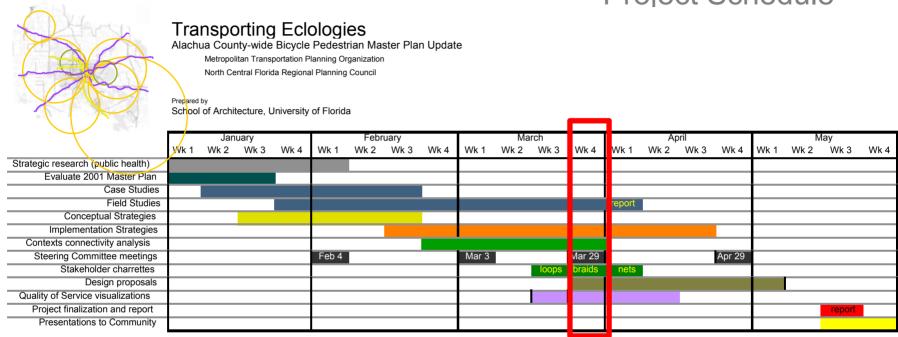
Visualization of enhanced service

Interviews and literature research collection and summary

- Link with planning initiatives where appropriate
- Quality of Service visualizations

• Charrette feedback sessions with stakeholders

## **Project Schedule**



The project schedule outlines durations expected for the specific tasks listed and identifies expected completion dates. Meeting dates with the steering committee are set. Other critical dates will be announced including charrettes with stakeholder groups once coordinated.



Applications & Strategies

Context Analysis Studies
Reassessment of Existing System

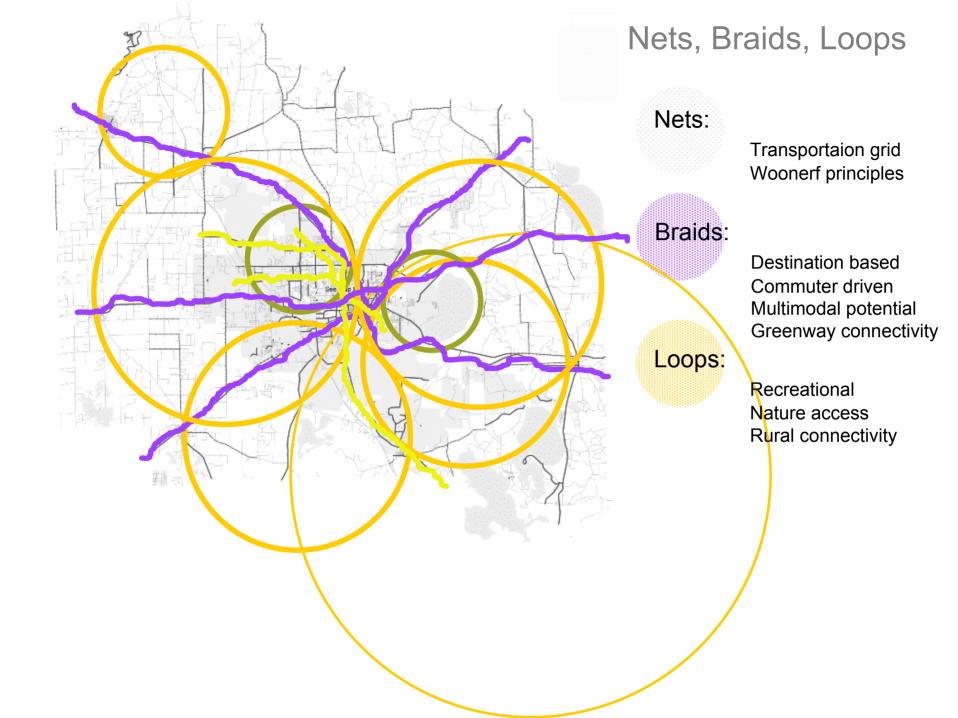
Rationalizing Priority Matrix (2001)

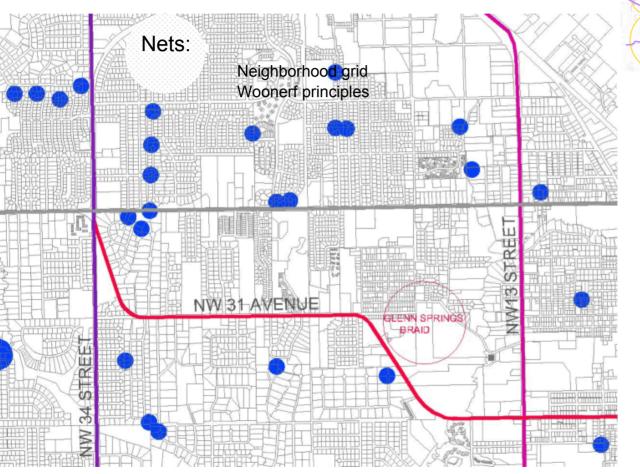
Conduct Public Workshop

Conduct Stakeholder Workshop

Continue New Path Studies

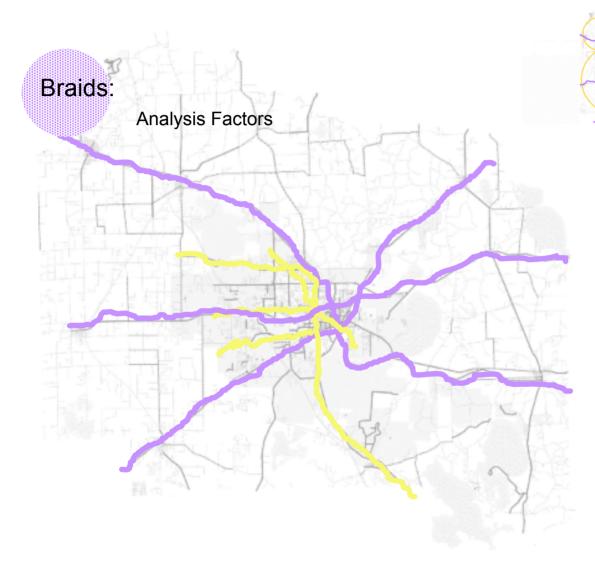
**Develop Design Vigniettes** 







- Re-connecting neighborhoods
- Safer routes for childeren
  (incorportation of oneighborhood shoolso initiative)
- · Reduce travel distances
- Promotes local bicycle travel (1 to 3 miles)
- Prime connectivity locations identified (Mapped and tabulated)
- Implementation priority based on neighborhood interest & school board the voids moving from "high proximity" to "high connectivity





- Lanes, paths, streets & green ways (threads)
- Demand analysis & prioritization (centripetal linkages)

Minimizes travel distance

Optimizes connectivity (intersection preference)

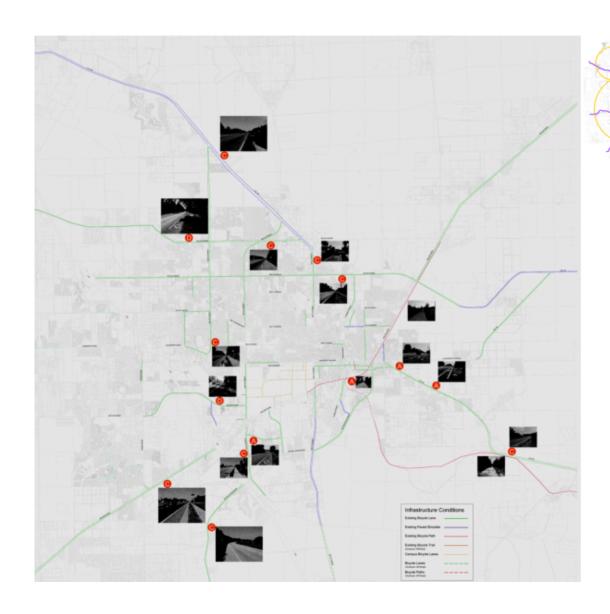
Cycling barriers analysis
 (Identifies difficult topography & obstacles)

Maximizes accessability

• Quality of Service (QOS) analysis

Optimizes safety and comfort

• Hydrology matrix (watersheds & riparian corridors)



# **Existing Infrastructure**

• Evaluation of existing Infrastructure (Network and Quality of Service)

Braids

• Visualization (Images of exemplary locations and service quality)



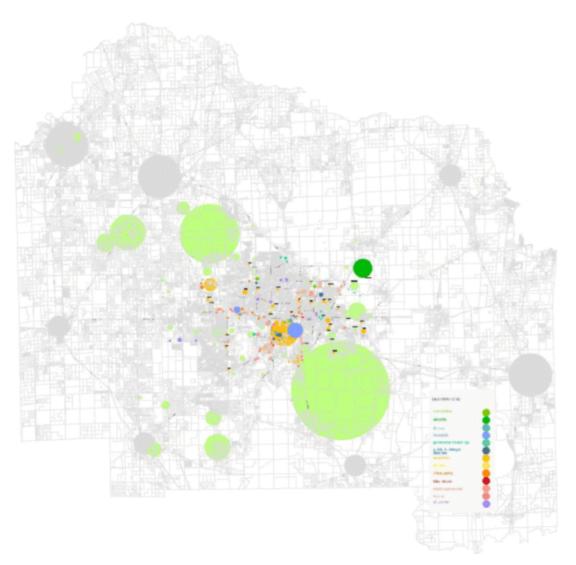
US Census data population contours provided by Do Kim

# Braids Population

• Latent Demand Method - segment based

(2001 Master Plan gravitational models)

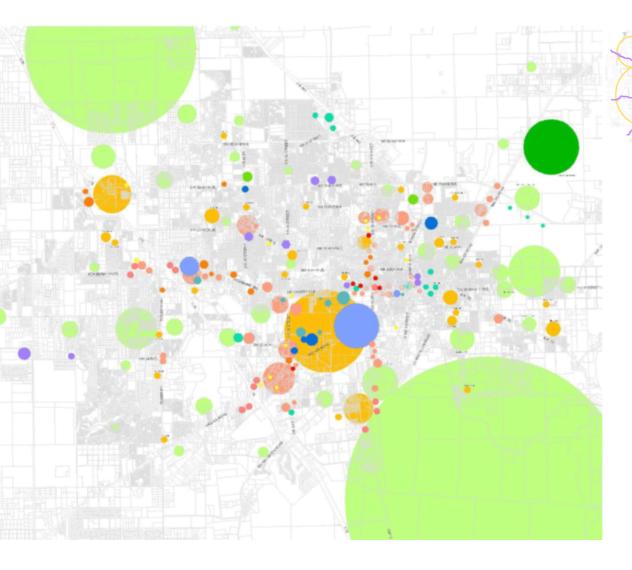
- Destination Matrix multisegmented (public, commercial, educational, religeous, parks, natural)
- Population Analysis
- Destination Analysis





- Destination based analysis (Populations and destinations)
- Latent demand influences 2001 data (Incorporated as a weighted segmentation analysis)

Destination influences on ○Braid○ prioritization.



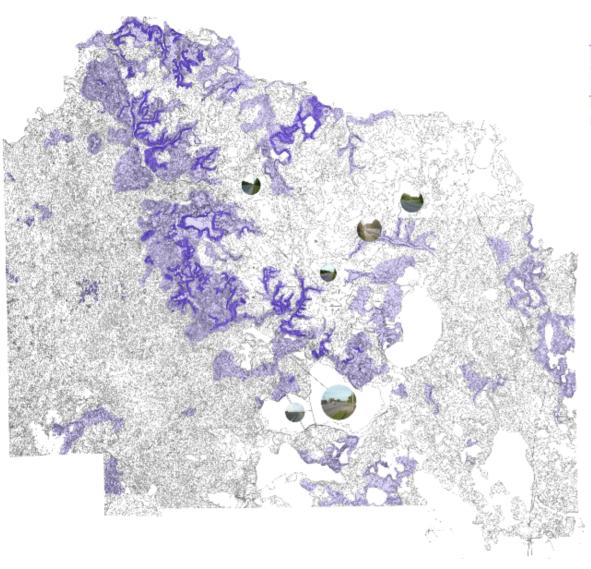


• Destination based analysis (Populations and destinations)

Braids

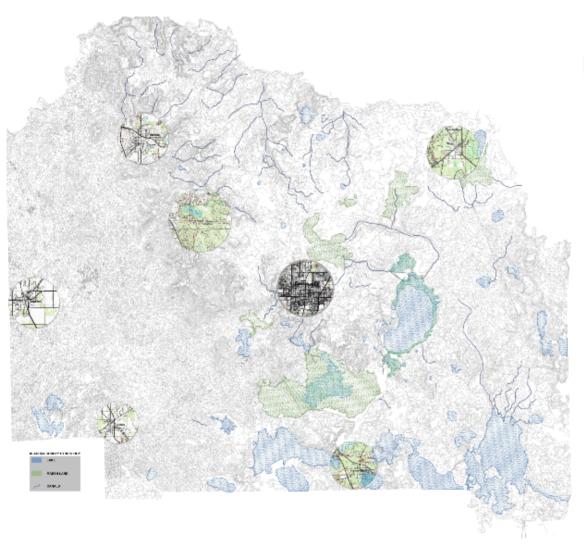
• Latent demand influences - 2001 data (Incorporated as a weighted segmentation analysis)

Weights destination based analysis (large view) against Newtonian gravitational models (segmented snapshots).



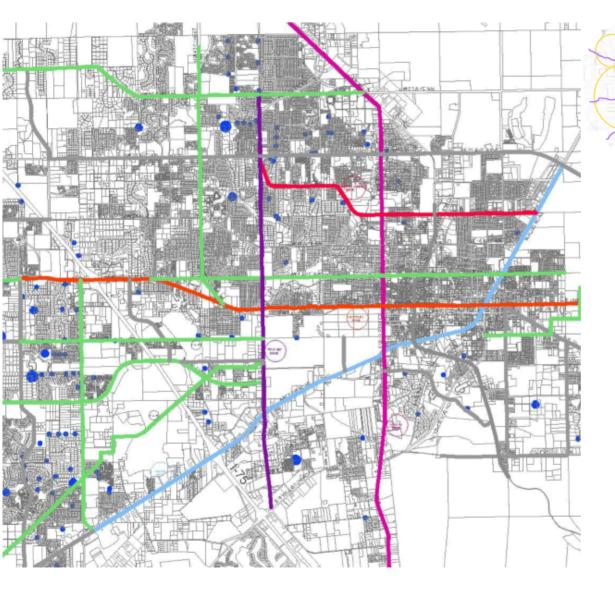
# Braids Cycling Barriers

- Topographic Studies (Contour based)
- Riparian barriers (Hydrolocially based)
- Infrastructural barriers (Auto, rail transportation corridors)





- Riparian analysis (Streams as corridors or greenways)
- Lakes and marshes as destinations (Water park potentials)
- Watershed analysis (Opportunities for integrated design)



## **Braid Designations**

### **Immediate Priority**

(Critical to a viable bicycle network)

#### **High Priority**

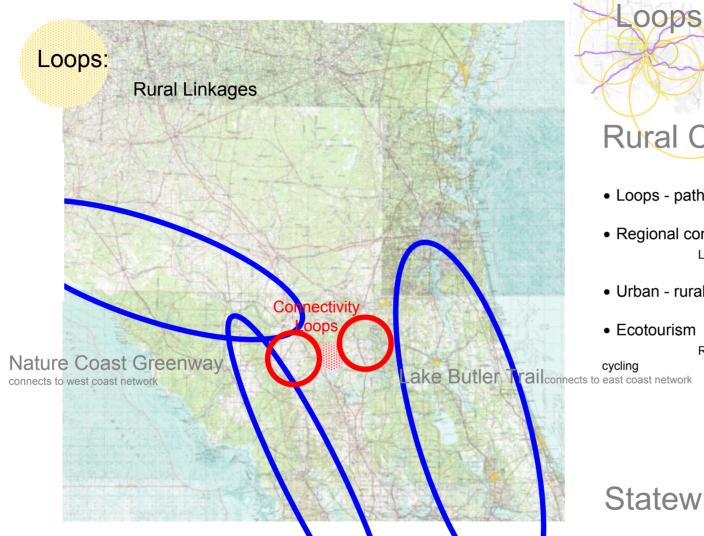
(Very important for high connectivity and alternative routes)

#### **Priority**

Braids

(Needed enhancements for reduncancy and user comfort)

- 1. Alachua Braid (441)
- 2. University Braid (University Ave.)
- 3. Westside Braid (NW 34th Street)
- 3. Archer Braid (Archer Rd.)
- 4. Millhopper Braid (NW 16th & 13rd Ave.)
- 5. Glenn Springs Braid (NW 23rd Ave & 31st Ave)
- 6. Hawthorne Braid (W 6th Street rail corridor).

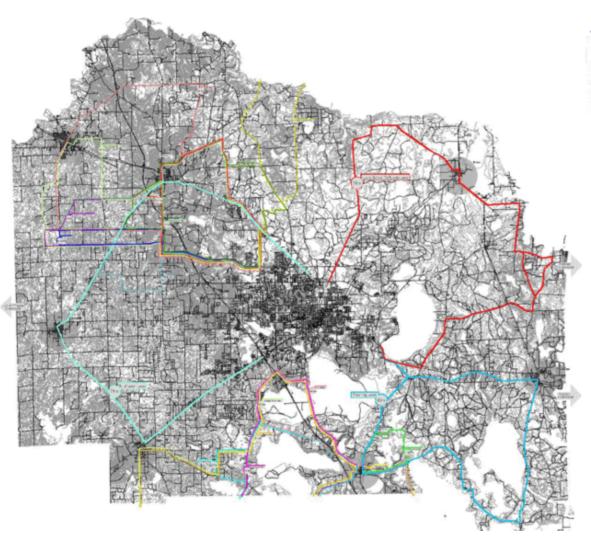


Rural Connectivity

- Loops paths, greenways and lanes
- Regional connectivity Links coastal trail networks
- Urban rural connectivity
- Ecotourism

Recreational and competitive

Statewide Linkages





Network Analysis

Existing loop inventory & mapping

Stake holder workshops

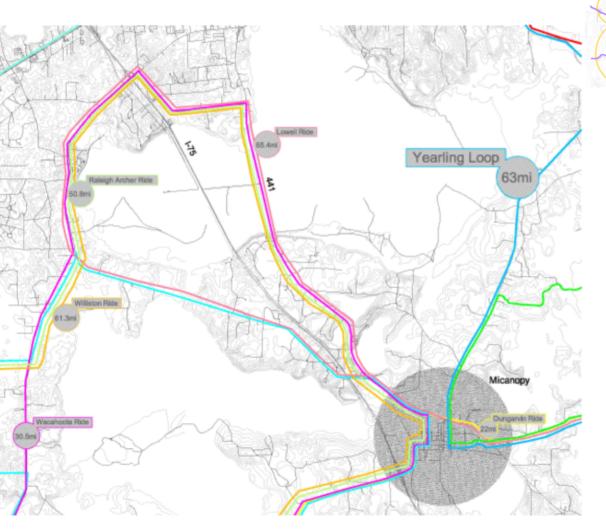
Proposed new linkages

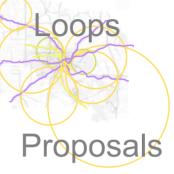
• Implementation Protocals

Appropriat rural design guidelines Wildflower Loop

Yearling Loop

Lake Sante Fe / Waldo Loop





• Themed Loops

(Conceptually focused & mapped)

Promote regional history

Enhance access to nature

areas

Advance ecotourism

• Multiplicity

(Complexity and alternative

options)

Varied challenge levels

Alternative vistas and

scenery

#### Transporting Ecologies

nets, braids & loops
Alachus County Wide Master Plan Update
Metropolitan Transportation Planning Organization
North Central Florida Regional Planning Council

School of Architecture University of Florida

#### **Public Input Survey**

Please take a moment to answer the following questions. The results will be used to promote bicycle transportation through improvements to the existing infrastructure and toward focusing resources on projects with highest potential for utilization, connectivity and public desireability.

General - please answer questions 1-4	regarding your	biovoling habit
---------------------------------------	----------------	-----------------

- Please indicate your age \_\_\_\_\_.

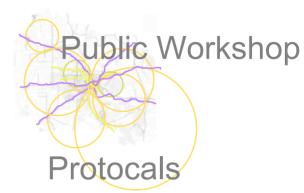
   How often do you ride a bike? (Circle one)
  - 1 2 3 4 5 7
- 3. Which of the following categories describes your riding habits? (Circle all that apply)

Commute to work/school Ride for recreation/exercise

Ride competitively/distance Ride for work (delivery)

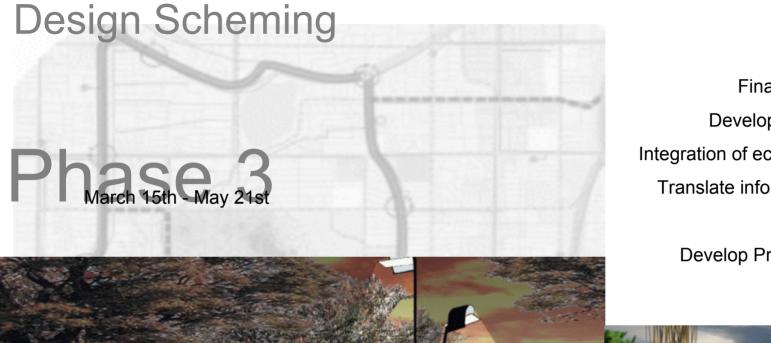
Destination Matrix - on the map below, draw lines between the places you travel by bicycle or would like to travel





- Introduction to Project
  - (15 minute overview)
- Survey of Needs
  (Discussion based inquiry)
- Interactive Network Design
   (Complexity and alternative options)
- Questionnaire Survey

  (Distributed at meeting and available on line)



Finalize Priority Matrix

Develop design vigniettes

Integration of ecological strategies

Translate information to website

Draft report

Develop Promotional Posters