

### Rationale for Focus on Urban Trails

- Benefits of trails
- Availability of trails
- Correlates identified
- Further research needed on environmental determinants
- Further research needed examining multiple levels of influence

## Main Research Questions

- What environmental features of urban multi-use trails and adjacent areas significantly influence decisions of people living within 1 mile of trails to use trails for recreation or non-motorized travel?
- Are levels of urban trail use related to levels of physical activity among residents in nearby communities?

### Elements of the Research

- Trail selection
- Trail count
- Trail audit
- Characterize built & social environment
  - Divide trail into ½ mile segments
  - Create buffer 1 mile on each side of trail
- Survey of trailside residents



### Trail Selection

- Trail selection criteria
  - Trails from different regions
  - Continuous, multi-use, >15 miles
  - Urban or suburban setting
  - Traverse neighborhoods: Hispanic,
    African-American, European-American
- Identified through websites, key informant interviews, literature

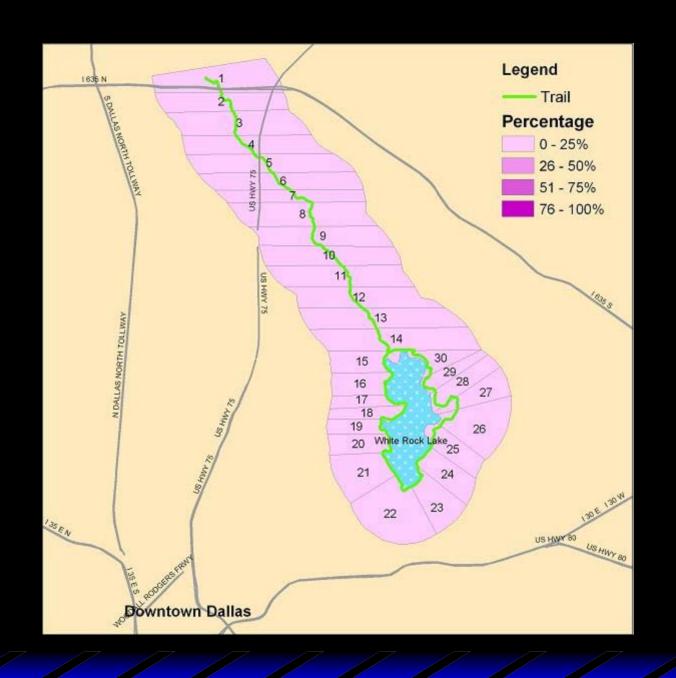
# Chicago Lakefront Trail





## Dallas White Rock Lake Trail





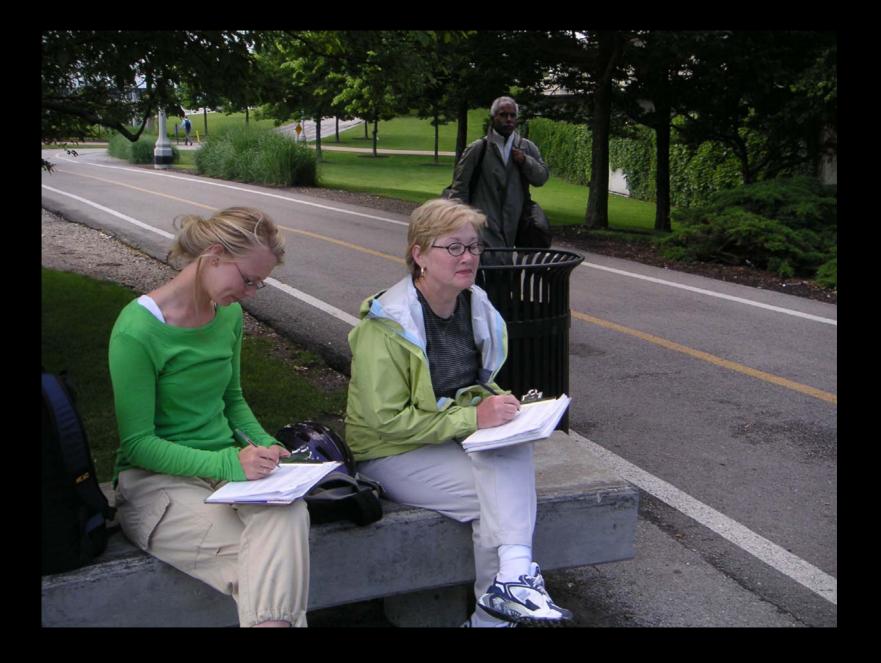
# Los Angeles River Trail



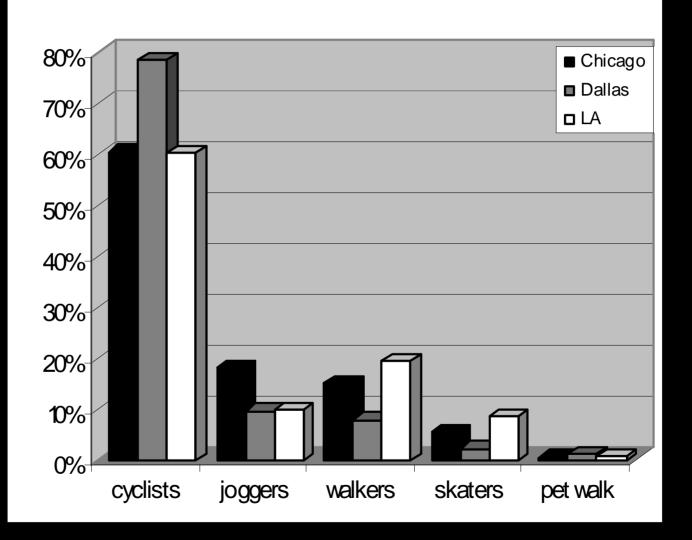


### Trail Count Procedures

- Observers working in pairs recorded:
  - Age (<18, 18-39, 40-64, 65>)
  - Gender
  - Type of activity (cycling, jogging)
- Two weekdays, two weekend days
- Segment boundaries (every ½ mile) verified by GPS and marked in advance
- Observations in 15 minute intervals
- Inter-rater agreement (A:.67; G:.90; T:.94)



#### Percent user type - All users



### Trail Audit

- Systematic coding of trail characteristics
- Searched for existing audit instruments (Moudon AJHP 2003;18(1):21-37)
- Adapted Systematic Pedestrian And Cycling Environmental Scan (Pikora AJPM 2002;23(3):187-194)
- Completed in Chicago & Dallas
- Lessons learned

## Elements of the Trail Audit









## Trailside Neighborhoods

- Analysis using GIS
- Urban design and land use
  - Population & business density
  - Residential mix
  - Connectivity to destinations
  - Access to alternative transportation
  - Parks and schools
  - Land Use Mix
- Social characteristics (race, SES, crime)

Percentage Black

Percentage Hispanic

Percentage White







## Survey of Trailside Residents

- Survey of 500 residents within 1 mile
- Minimum of N=5 per segment
- Random sample from census blocks
- Verify residence within 1-mile buffer
- Letter & telephone procedures
- Self-report measures & accelerometry
- ◆ Chicago (N=184) Dallas (N=173) LA (N=150)

## Acknowledgements

- Robert Wood Johnson Foundation & Active Living Research staff
- Dr. James Sallis, Kelli Cain
- Dr. Terri Pikora
- Ryan Aubry, Anne DiLauro, Ryan Kessel, Chris Martin, Amy McKinney, Bin Xie, Huston Ladner, Nicole Gatto

# Always Bring Your Umbrella!

