#### Policy and Program Recommendations Following the Evaluation of an Urban Rail-Trail Conversion Project

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## Background

- In 2002, the Mary Black Foundation in Spartanburg, SC identified Active Living as 1 of its 2 grant making priorities (over \$5M allocated to date).
- Among substantial investments were funds to support a 2-mile rail-trail conversion.
  - Serves as a key connector between downtown business district and more rural parts of county
  - Dissects 2 adjacent residential neighborhoods differing in income, education, and race profiles.

Hub City Connector:

MBF Rail-Trail Segment







# Objectives

- A systematic 5-year process was initiated to monitor users of this rail/trail segment to more fully inform community leaders of:
  - its overall use
  - use by residents from two adjoining neighborhoods
  - future program and policy strategies to increase use of the segment



## Methods

- The System for Observing Play and Recreation in Communities (SOPARC)<sup>a</sup>
  - Can be implemented in diverse community and trail settings
  - Proven valid and reliable for gathering data on:
    - user demographics (e.g., age, sex, race)
    - environmental features (e.g., temperature, weather, equipment)
    - user features (e.g., type of activity)
    - physical activity level (e.g., sedentary, walking, very active)

<sup>a</sup>McKenzie et al. System for observing play and recreation in communities (SOPARC): reliability and feasibility measures. *Journal of Physical Activity and Health.* 2006;3:S208-S222.

## **SOPARC** Protocol

- In an unobtrusive manner, observations made by trained college students
- Quarterly, observations made 4x/day (7:30am, 12:30pm, 3:30pm, 6:00pm) for 7 consecutive days
- At each time frame, observations conducted at 6 rail-trail segment access points
- Air temperature and weather conditions noted at each time frame

## Intercept Survey Protocol

- Subset (~10%) of users asked by trained students if they would be willing to participate in a brief (5-10 minute) survey about the rail-trail segment
- Purpose of the survey and confidentiality explained, and verbal consent to proceed obtained
- Questions asked pertaining to:
  - Personal demographics (age, race, income, education)
  - Purpose, frequency, and duration of using the segment
  - Time and means of travel to access the segment
  - How the user became aware of the segment
  - Perceptions of maintenance, aesthetics, and safety
- One-page project description with the PI and USC Human Subjects Research Compliance Office contact information offered

## **Results of Direct Observation**

During the first 16 months following construction of the rail-trail segment (May 2006–July 2007):

- 2,535 users were observed (avg. 60/day)#:
  - □ 57% walking, 41% very active, 2% sedentary
  - vast majority (73%, n = 1,838) were adults
    - Age distribution coincided with adjacent census tracts\*
  - □ 54% male, 46% female
    - 43% male, 57% female in adjacent census tracts\*
  - 72% white, 28% non-white
    - 62% white, 38% non-white in adjacent census tracts\*

#### Results of Direct Observation cont.

- Significantly more males were observed during summer, fall and winter; more women observed during the spring (F = 2.920; p = .033).
- More males were observed in very active activity
  - 55% of males vs 23% of females did vigorous intensity PA
  - 74% of females vs 43% of males were observed walking
- Air temperature related to number of users (F = 4.65; p = .01).
  - More people (32%) observed when the temperature was between 71-80° F
  - Over 50% of users observed when the temperature was between 71-90° F

### Results of Intercept Survey (N = 254)

- Average Age:
  - Males: 50 years,  $\sigma = 14.03$
  - Females: 49 years,  $\sigma = 15.45$

Race:

- □ Males (N=150):
  - Non-white: 19.3%
  - White: 80.7%
- □ Females (N=194):
  - Non-white: 27.0%
  - White: 73.0%



## Results of Intercept Survey cont.

- 79% of respondents visited the trail by motorized vehicle.
- 75% of respondents traveled less than 15 minutes to get to the trail.
- 95% of respondents reported using the trail for exercise or recreational physical activity.
- Over 60% of respondents reported using the trail for more than 45 minutes per visit.

#### Results of Intercept Survey cont.

- Similar to SOPARC findings, more women (84%) than men (59%) reported using the trail for walking.
- While more men (15%) than women (4%) reported using the trail for jogging/running.
- Over 80% of respondents reported that the maintenance, aesthetics and perceptions of safety were good to excellent.
- The 3 most commonly cited ways of learning about the trail were: word of mouth, newspaper, and driving by the trail segment.

## If you build it, will they come? Yes & No.

- Males used the rail-trail segment more often than females, and usually performed vigorous exercise
- Females typically used the rail-trail segment for walking
- Few older adults and very few children and adolescents were observed using the rail-trail segment
- Spring and Summer had the greatest number of users; warmer temperatures yielded more users
- Sex and race/ethnicity of users varied from the demographics of residents living in nearby neighborhoods



## **Policy and Program Implications**

Community leaders have been encouraged to consider:

- Developing tailored marketing strategies and environmental improvements to promote greater use among:
  - females
  - non-whites
  - younger and older populations
  - persons working in nearby businesses
  - Persons living in adjacent neighborhoods (e.g., designated and marked connector routes)
- Implementing policies, environmental improvements, and programs to promote use of the rail-trail segment for active travel/transportation.
- Creating policies, trail enhancements, and programs to sustain use of the rail-trail segment during the entire day and year.

# **THANK YOU!**