

**MPO RESOLUTION # 22-09**

**RESOLUTION APPROVING THE SCOPE OF WORK AND BUDGET FOR A STUDY TO EVALUATE THE FEASIBILITY OF ESTABLISHING AN AUTOMATED BIKE RENTAL SYSTEM AND BIKE PARKING CENTERS IN MIAMI-DADE COUNTY**

**WHEREAS**, the bicycle is the perfect vehicle for short-distance trips in an urban area; and

**WHEREAS**, recent improvements in electronics and wireless communications have spawned several automated bicycle rental systems that feature pre-paid memberships and automated bike pick-up drop-off; and

**WHEREAS**, the prepaid automatic bicycle rental and other “shared bike” programs are operating in Europe and in US cities such as Louisville, Denver and Washington, DC; and

**WHEREAS**, the City of Miami Beach is negotiating with a vendor to provide prepaid bike rentals throughout Miami Beach; and

**WHEREAS**, a “shared bike” program has potential for broader use throughout Miami-Dade County by tourists, transit riders, and students; and

**WHEREAS**, at the request of MPO Board Member Javier D. Souto, the Board directed staff to develop a scope of work and budget to evaluate the feasibility of creating an automated bicycle rental system and bicycle parking centers in Miami-Dade County,

**NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE METROPOLITAN PLANNING ORGANIZATION FOR THE MIAMI URBANIZED AREA**, that the attached scope of work and budget for a study to evaluate the feasibility of establishing an automated bike rental system and bike parking centers in Miami-Dade County is hereby approved.

The adoption of the foregoing resolution was moved by Board Member Javier D. Souto. The motion was seconded by Board Member Katy Sorenson, and upon being put to a vote, the vote was as follows:

**Chairman** Dennis C. Moss-Aye  
**Vice Chairwoman** Perla Tabares Hantman-Aye

Board Member Bruno A. Barreiro	-Aye	Board Member Barbara J. Jordan	-Aye
Board Member Lynda Bell	-Aye	Board Member William H. Kerdyk	-Absent
Board Member Matti Herrera Bower	-Absent	Board Member Joe A. Martinez	-Aye
Board Member Kevin A. Burns	-Aye	Board Member Julio Robaina	-Aye
Board Member Jose “Pepe” Diaz	-Aye	Board Member Dorrin D. Rolle	-Absent
Board Member Audrey M. Edmonson	-Absent	Board Member Marc D. Sarnoff	-Absent
Board Member Shirley M. Gibson	-Absent	Board Member Natacha Seijas	-Absent
Board Member Carlos A. Gimenez	-Aye	Board Member Katy Sorenson	-Aye
Board Member Maritza Gutierrez	-Aye	Board Member Rebeca Sosa	-Aye
Board Member Sally A. Heyman	-Aye	Board Member Javier D. Souto	-Aye

The Chairperson thereupon declared the resolution duly passed and approved this 28<sup>th</sup> day of May, 2009.

**METROPOLITAN PLANNING ORGANIZATION**  
**M.P.O.**

By Zainab Salim  
 Zainab Salim, Clerk  
 MPO Secretariat



*Miami-Dade County  
Metropolitan Planning Organization (MPO)*

## **Work Order # GPC III-**

# **Bicycle Rental System and Parking Plan**

### SCOPE OF SERVICES

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#### **OBJECTIVE**

- Evaluate the feasibility of creating an automated bicycle rental system and bicycle parking centers in Miami-Dade County

#### **I. BACKGROUND**

The bicycle is the perfect vehicle for short-distance trips in an urban area. Barriers to the casual use of a bicycle include easy access to a bike and secure parking. Recent improvements in electronics and wireless communications have spawned several automated bicycle rental systems that feature pre-paid memberships and automated bike pick-up and drop-off. These systems allow the user to take a bike from a secured rack that is convenient to their point of origin and return it to the system on a rack at a different location. All the bikes in the system are shared by all the members. Program revenues are generated from memberships, rental fees and advertising on the bikes.

A complementary facility is the bicycle parking transit center that provides high-capacity bike storage at a central location where members can leave their own bikes during the work day or overnight. The facility provides secure parking and regional access if it is located close to a transit station. A bicycle parking transit station improves multimodal travel options for both bicyclists and transit riders. Other services that can be provided at a bicycle parking transit center include changing rooms and showers, the sale of bike-related products, bike repair and cleaning, guided bicycle tours and conventional or automated shared-bike rental.

The basics of effective bicycle parking are a good rack and a good location. In addition to assessing the need for the rental system and center, the plan would also create a uniform design standard for bicycle rack selection and installation. All bicycle racks are not created equal. There is currently no standard for bicycle parking in Miami-Dade County.

#### **II. PREVIOUS WORK**

- The City of Miami Beach has issued a request for proposals for the operation of a "self-service bicycle rental program" and is negotiating with the selected firm.

### **III. METHODOLOGY**

#### **1. Task 1: Agency Coordination**

Form a study advisory committee that includes relevant agencies and departments including Miami-Dade Transit, Miami-Dade Park and Recreation, Miami-Dade Public Works, Miami-Dade Procurement Management, the City of Miami, the City of Miami Beach, the Miami Downtown Development Authority and the Bayfront Park Management Trust. At least three project meetings (kick-off, preliminary recommendations review, and final recommendations review) will be held with the SAC. Presentations on the final recommendations will be made to the Bicycle/Pedestrian Advisory Committee and Transportation Planning Council. Other presentations will be scheduled if necessary.

#### **2. Task 2: Background Research**

Review current information on automated bicycle rental systems and bicycle parking transit centers (including but not limited to the Freewheelin' (Louisville, KY), Smartbike DC (Washington, DC), B-Cycle (Denver), Bikestation (California), Millennium Park Bike Center (Chicago), and the Union Station Bicycle Center (Washington, DC). Review the Puget Sound Regional Council Bikestation Demand Methodology. A review of existing bicycle parking design standards as well as installation location selection within public right-of-way standards will be done. Review standards of cities such as Cambridge, Massachusetts; Portland, Oregon; Oakland, California are models with successful standards.

#### **3. Task 3: Data Collection and Analysis**

Collect data related to transit ridership, employment, residential population, hotel capacity and occupancy and current mode splits for the downtown Miami/Brickell area, and the Health District/Civic Center area. Map locations of trip origins and destinations within the study areas. Assess the current level of service for existing bicycle parking within the study areas. Identify likely routes for trips within the areas. Estimate the size of the potential market for automated bicycle rental system and bicycle parking transit center(s). Prepare a typical footprint for an automated bicycle rental station including general specifications. Prepare spacing and placement standards for short-term and long-term covered bicycle parking. Prepare bicycle rack parking design standards.

#### **4. Task 4: Preliminary Recommendations**

Based on the data collected and analyzed in Tasks 2 and 3 develop preliminary recommendations on the potential market for an automated bicycle rental system, locations for bicycle parking transit center(s), and a uniform county-wide standard for bicycle parking. Present to the SAC and relevant agencies for review and input. Revise as necessary. The consultant will prepare a detailed map of trip origins and destinations, major activity generators, and transit access and transfer locations. Develop recommended dimensions and programming for bicycle parking transit center(s).

#### **5. Task 5: Final Recommendations**

Prepare a final report that documents the project development process, background information, data collection and final recommendations organized by study area and in sufficient detail for implementation.

**IV. DELIVERABLES**

1. Final report (1 electronic, 25 printed copies), executive summary (1 electronic, 25 printed copies) and project overview presentation (1 electronic copy)

**V. SCHEDULE**

The Consultant should complete this work in nine (9) months from the issuance of the Notice to Proceed

**VI. ESTIMATED COST**

The estimated budget for this study is \$55,000 including 10% for contingencies.