

Transportation Solutions

Public Transit

Buses

Improve or add more shelters and stop furniture, providing real-time information, and adding pull-out bays, which allow buses to move out of traffic flow at stops.



Bus Rapid Transit (BRT)

Buses that operate in a dedicated lane for most of their route, allowing higher speed service. Benefits include improvements to or additional shelters, providing real-time information, and allowing advance fare payments to shorten boarding times.



Rail Transit

Light Rail



Monorail



Heavy Rail (Subways)



Automated Transit



Commuter Rail



Streetcars



Alternative Solutions

Car Sharing

Allows transit users to rent cars for local trips, which can either be returned to the pick-up station or to another designated location.



Park and Ride

Parking areas adjacent to transit stations where riders can leave their personal vehicles.



Flextime

Employers allow flexible work schedules, such as four 10-hour days, or flexible shifts to reduce the number of vehicles on the road during peak travel periods.

Telecommuting

Employees are allowed to work from home or locations closer to their homes to limit commute time and frequency.

Roadways

New Roads/Widening

Constructing new roadways or widening existing roads to increase the number of lanes.



Managed Lanes

Currently being constructed on I-95 between Miami-Dade and Broward Counties, one or more lanes are converted into "express lanes" meaning that entrance to and exit from the lanes are controlled at specific points. Another example is the proposed reversible lanes on I-595, where the traffic flow will be directional based on demand.

Congestion Pricing

Also being used in the I-95 Managed Lanes project, roadway users are charged a fee/toll which will vary as traffic conditions change. For example, the more congested the roadway, the higher the toll. The purpose is to encourage travel alternatives such as using public transportation, identifying alternative routes, and ridesharing.

Signal Coordination

Traffic lights along a corridor or within a system are coordinated to ensure optimal traffic flow.

Ridesharing

Carpooling: Where two or more people ride together.

Vanpooling: Where one person drives a van provided by a transportation agency, and picks up other commuters in their area along their route, and drops them at their place of work.

Intelligent Transportation Systems (ITS)

Designed to reduce congestion and other problems by alerting drivers of accidents or other road conditions that may cause delays.

Centralized Parking Facilities

Encourages the use of alternative means of travel in congested areas, such as downtowns. Uses parking garages on the edges or in the center of these areas, while other parking in the area is either restricted or metered. Public transit is used to circulate people throughout the area. This typically includes improvements to pedestrian/bicycle facilities.

Pedestrians & Bicycles

Connectivity

Improving pedestrian and bicycle connections throughout the area by constructing new sidewalks and paths or striping roads to include bike lanes.

Urban Design Elements

Reconstructing roadways or adding specific elements to roadways that encourage pedestrian and bicycle use, including:

- ◆ Narrowing vehicular travel lanes to reduce speeds
- ◆ Taking one lane in each direction out of operation and using it for on-street parking or for bicycle and pedestrian facilities or landscaping
- ◆ Providing shade and/or protection from rain by adding awnings to buildings or planting trees
- ◆ Moving parking to the rear or side of buildings to improve access by pedestrians
- ◆ Providing secure bicycle parking areas.



Bicycle Parking Facilities & Bike Lockers

Offering additional bike racks or large bicycle lockers that provide protection from the elements and are more secure than conventional bike racks.



Shower and Locker Facilities

Particularly in Florida, one impediment to increased walking and bicycling to work is the hot and humid climate. If employers provided showers and changing rooms, more people may be willing to walk or bike to work sometimes.

Innovative Wheeled Alternatives

Communities can provide electric technologies for public rental.

Electricity Charging Stations



Segways



Scoters



Safety & Security

Traffic Calming

- ◆ Roundabouts
- ◆ Speed Tables
- ◆ Radar Speed Signs



Security Guards

- ◆ On Transit
- ◆ Transit Stops
- ◆ Park and Ride
- ◆ Parking Garages

Cameras/Video Detection Systems

- ◆ On Transit
- ◆ Transit Stops
- ◆ Park and Ride
- ◆ Parking Garages

Traffic Management Cameras

- ◆ Red light crossing detection



Railroad Crossings

- ◆ Improved crossing controls and maintenance

Lighting

- ◆ Pedestrian Areas
- ◆ Streets
- ◆ Transit Stops/Stations



Service Patrols

- ◆ Minimize disruption of incidents and maximize service flow
- ◆ Equipped to handle emergencies

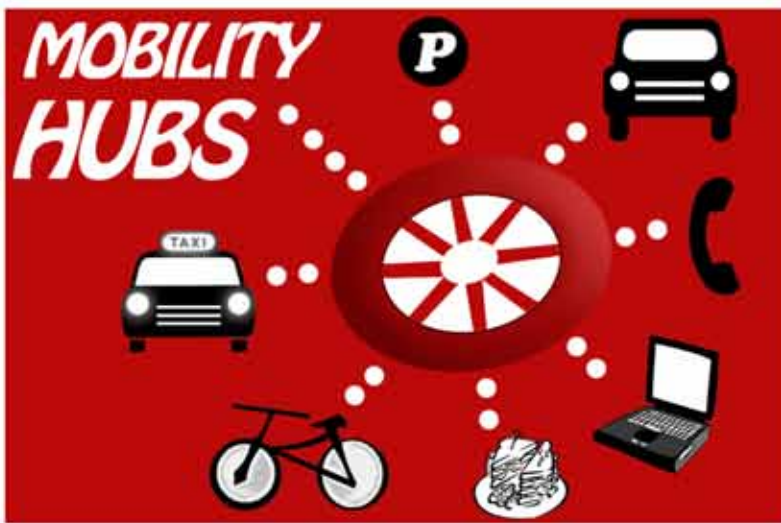


Airport and Seaport Safety and Security Programs

- ◆ Passenger screening
- ◆ Baggage/Cargo screening
- ◆ Operational & management plans



MOBILITY HUBS



Gateway Hubs



Gateway Hubs are defined by the following:

- Exhibit high boardings and alightings or transfers within the overall transit network;
- Area surrounded by higher density mixed use developments including downtown areas, transit oriented corridors (TOCs) and transit oriented developments (TODs) defined in the Broward County Future Land Use Plan;
- Provide connections for two or more high capacity (BRT, Rail) lines.

Strategies for Gateway Hubs include:

- Enclosed shelters for travelers;
- Real time passenger information systems;
- Unique architecture and signage;
- Surface or structured parking as appropriate;
- Integration with surrounding development;
- Pedestrian linkage improvements within a 1 mile radius;
- Bicycle linkage improvements within 2 mile radius;
- Restrooms and community spaces as appropriate;
- Public art;
- Access priority to bike/pedestrian and transit patrons over other modes;
- Secure and weather protected waiting areas;
- Accommodations for potential bike share/car share programs;
- Pre-board ticketing options; and
- Taxi bays.

Community Hubs



Community Hubs are defined by the following:

- Area served by Rapid Bus services; and
- Attract more local trips than regional trips

Strategies for Community Hubs include:

- Partially-enclosed shelters for travelers;
- Real time passenger information systems (in locations where the infrastructure is readily available);
- Pedestrian and bicycle linkage improvements within a 1 mile radius;
- Lighted waiting areas; and
- Timed transfers for connecting transit services "FastConnects."

Anchor Hubs



Anchor Hubs are defined by the following:

- Exhibit moderate to high boardings and alightings or transfers within the overall transit network;
- Area served by at least one high capacity transit line (BRT, Rail); and
- Located near major institutions, employment centers, town centers, regional shopping centers that are analogous to the local activity centers (LACs), and/or regional activity centers (RACs) identified by various local jurisdictions in Broward County and that have potential to accommodate new transit and pedestrian oriented development.

Strategies for Anchor Hubs include:

- Enclosed or partially-enclosed shelters for travelers;
- Real time passenger information systems;
- Unique architecture and signage;
- Surface or structured parking as appropriate;
- Integration with surrounding development;
- Pedestrian linkage improvements within 1 mile radius;
- Bicycle linkage improvements within 1 mile radius
- Access priority to bike/pedestrian and transit patrons over other modes;
- Lighted waiting areas;
- Accommodations for potential bike share programs;
- Pre-board ticketing;
- Free phone for taxi services; and
- Kiss-n-ride and taxi areas.

INNOVATIVE FINANCING

SOURCE	RATE	ANNUAL REVENUE <small>(in 2009 dollars)</small>
SALES TAX	1% (1 PENNY)	\$287 MILLION
VEHICLE MILES TRAVELED (VMT)	2¢ PER MILE	\$136 MILLION
TAX INCREMENT FINANCING DISTRICT (TIFD)	N/A	\$187-\$496 MILLION <small>(depending on land use and increment captured)</small>

Notes: Estimates are for revenue available in 2035, but are expressed in current year (2009) dollars. Future inflation of 3% assumed. WMT calculation assumes base of 49 million daily VMT in 2035 (from travel mode) with annualization factor of 330 and 10% reduction in travel to due to charge



Tax Increment Financing District

Districts would be defined around Mobility Hubs and Premium Transit Corridors which would be assessed to fund transportation improvements.



Sales Tax

A tax based on the cost of the item purchased. It is collected whenever qualified items are purchased and is shown on the sales receipt. One option is an additional penny per dollar spent.



Vehicle Miles Traveled (VMT) Tax

A tax based on how many miles are traveled. It could be implemented by recording only the distance each vehicle has traveled and charge accordingly. One option is 2 cents per mile traveled by personal vehicle. Those who use public transportation would not be charged this tax. Electric and hybrid cars may receive a discount.

WE'VE LISTENED TO THE PUBLIC

In the summer and fall of 2008 our team:

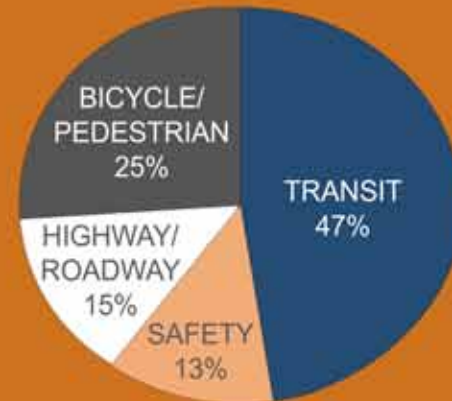
- Collected more than 1,300 surveys,
- Presented to more than 100 people at 5 community workshops; and
- Held 5 interactive public workshops.



We asked you via our survey and at our workshops, how you would allocate transportation improvements in Broward County. You said almost half should be spend on improvements/expansion of public transit.

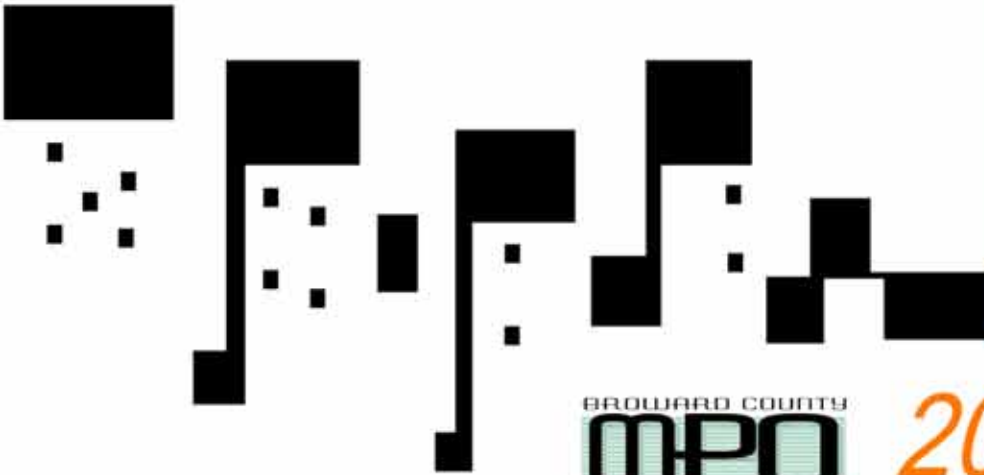
PUBLIC & MPO BOARD SURVEY RESULTS

Allocation of Transportation Dollars by Mode
Results from Public Surveys & Workshops



The MPO Board Agrees with the PUBLIC

On May 28, 2009, the MPO Board Members participated in a LRTP workshop in which they were asked how they would allocate their transportation dollars. Their results were very similar to the public opinion.



BROWARD COUNTY
MPO
METROPOLITAN PLANNING ORGANIZATION

2035 *BROWARD*
LONG RANGE
TRANSPORTATION PLAN

JACOBS

PREMIUM TRANSIT CORRIDORS & MOBILITY HUBS

LEGEND

PREMIUM TRANSIT PROJECTS

- Premium Rapid Bus
- Premium High Capacity

BROWARD COUNTY TRANSIT SERVICES

- Existing BCT Local Bus Route
- New BCT Local Bus Route

MOBILITY HUBS

- Community Hub
- Anchor Hub
- Gateway Hub

ILLUSTRATIVE PROJECTS

- The Wave (City of Ft. Lauderdale Downtown Circulator)
- Peplemover-Sunport (Airport/Seaport)
- + Central Broward Transit (not final routing)
- + South Florida East Coast Corridor (FEC)

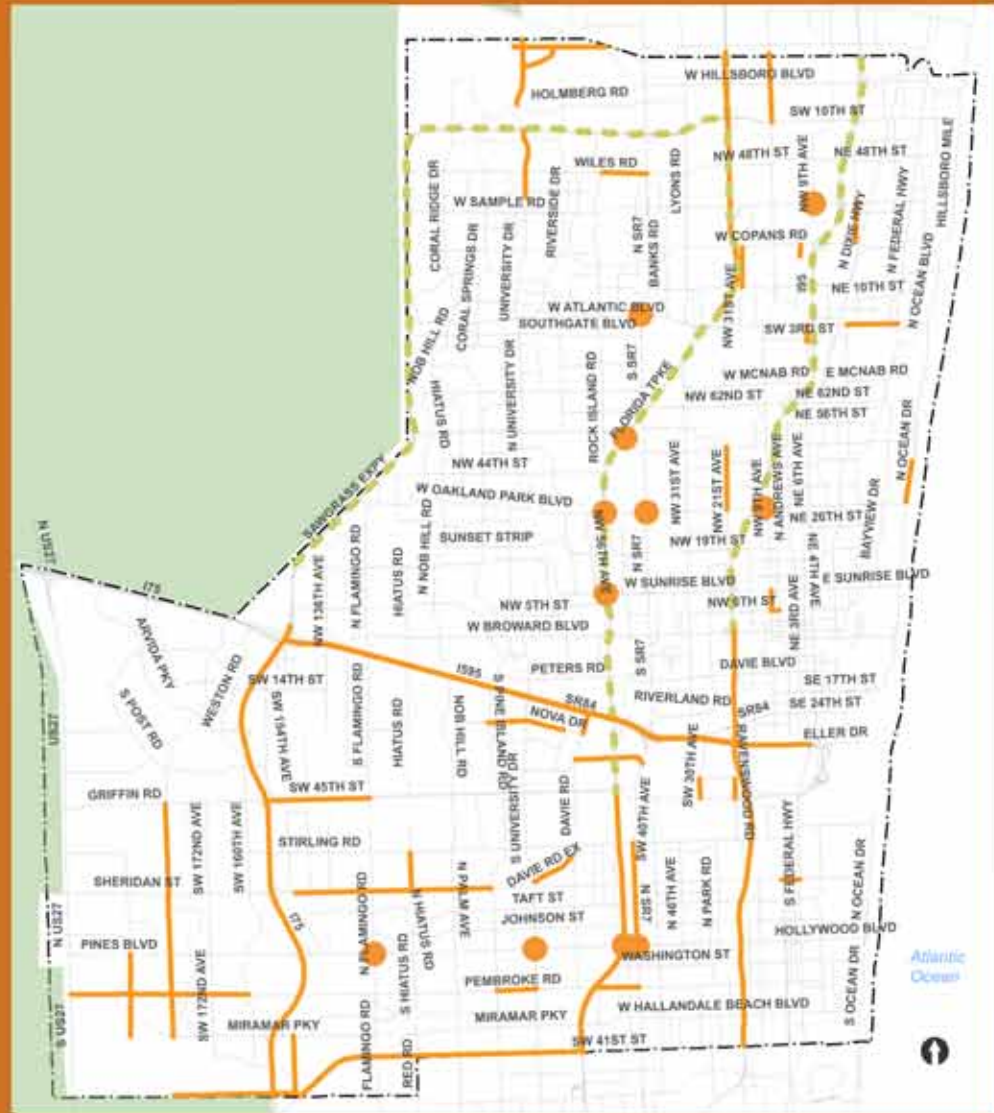


HIGHWAY PROJECTS



LEGEND

- Proposed Cost Feasible Projects
- Proposed Cost Feasible Projects
- - - Illustrative Projects



BICYCLE PROJECTS

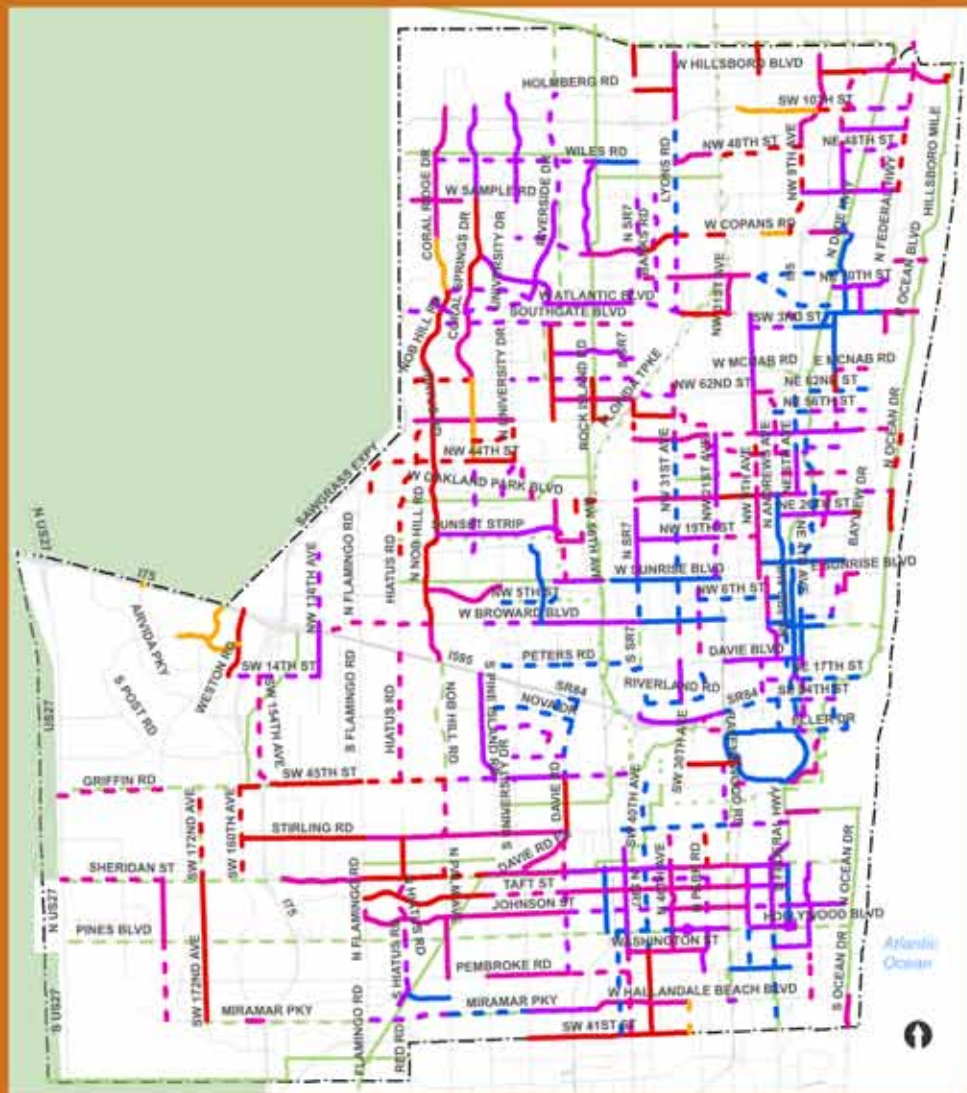
LEGEND

PROJECT RANKING

	1		6
	2		7
	3		8
	4		9
	5		10

GREENWAYS

	Planning Priority 1
	Planning Priority 2
	Planning Priority 3



PEDESTRIAN PROJECTS

LEGEND

PROJECT RANKING

	1		7
	2		8
	3		9
	4		10
	5		11
	6		12

GREENWAYS

	Planning Priority 1
	Planning Priority 2
	Planning Priority 3

