MIAMI-DADE MULTIMODAL ACCESSIBILITY-BASED NEEDS ASSESSMENT

PREPARED FOR:

Miami-Dade Transportation Planning Organization



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Introduction

The Miami-Dade TPO has long been an innovator in planning process and results, playing a leadership role in the Southeast Florida region and beyond through the development and implementation of technical and procedural techniques to continuously improve its plans. The TPO's Long Range Transportation Plan (LRTP) has showcased those innovations over the years. The LRTP is due to be updated in October 2019 and the TPO has elected to develop and test a multimodal accessibility-based needs assessment methodology in anticipation of the actual plan update process. The initial testing of the methodology was completed in the context of the 2040 Long Range Transportation Plan. Needs assessment is the principal technical procedure used to develop a program of transportation improvements to be included in the plan and has historically been informed by the SouthEast Regional Planning Model (SERPM). In spite of its advanced capability to simulate time-constrained activity patterns there are some limitations of the SERPM, including its inability to simulate non-motorized trips and the time and effort involved in running the model.

The multimodal accessibility-based process described in detail below provides a complementary tool to support the LRTP. Used in coordination with the SERPM, it offers a new approach, complete with new metrics and a new perspective on transportation planning. Multimodal accessibility provides analytics for all four primary modes of travel, which include walking, biking, transit, and personal automobile but, rather than focusing on levels of service at the link or segment level, it offers a more comprehensive view of performance inclusive of level of service, network connectivity, and land use. Because accessibility analysis is multimodal in nature and comprehensive, the performance measures that can be derived from it add enormous value to the planning process, particularly in light of federal requirements to incorporate performance in plan development and system monitoring.

What is Accessibility?

The concept of accessibility can be defined simply as access to opportunities, where access is defined as the ability to reach those opportunities by some mode of travel. Opportunities are defined either broadly, in terms of non-residential places, or more specifically, in terms of particular types of destinations, like hospitals or food stores. The consideration of land use is the primary differentiator of accessibility analysis, relative to conventional travel demand analysis. Accessibility analysis inherently and necessarily involves the simultaneous reflection of both transportation



networks and underlying land uses. Accessibility analytics inform a comprehensive metric in long range transportation planning, as they account for mobility, network connectivity,





economic vitality, livability, and environmental issues, including the distinction of nonmotorized, transit, and automobile-oriented accessibility.

The relevance of accessibility to the Goals and Objectives (G&O) of the 2040 Long Range Transportation Plan (LRTP) is plainly evident in six of the eight LRTP Goals depicted in Figure 1, supporting the use of accessibility as an overall framework to inform the LRTP needs assessment process. The specific goals addressed by multimodal accessibility include the following:

 Goal 1 - Improve System & Travel: Mobility – Travel time, aka mobility, is one of the direct influencers of accessibility, particularly for motorized modes of travel.



Figure 1. 2040 LRTP Goals and Objectives

- Goal 2 Increase Safety Multimodal safety is directly enhanced by network-derived improvements to accessibility.
- Goal 4 Support Economic Vitality A fundamental measure of accessibility is access to jobs, which is one of the central objectives in the Economic Vitality goal.
- Goal 5 Environment/Quality of Life Livability and environmental improvements are reflected in improved multimodal accessibility, in terms of better walk access to opportunities and mode shift from motorized to non-motorized, respectively.
- Goal 6 Enhance Connectivity Network connectivity is one of the direct influencers of accessibility for all modes of travel.





 Goal 8 - Preserve Existing System – Accessibility analysis supports targeted network improvements and land use strategies that inherently minimize the need for major capacity improvements and focusing on maximizing the existing system.

Accessibility Measurement

Traditional metrics like roadway congestion, vehicle miles traveled, and transit ridership to assess transportation performance implicitly account for travel demand, but they merely represent the performance of a particular link, segment, or system, without explicit reflection of the trip making that is contributing to that performance. The focus on network link performance is thus not very informative of broader system performance as it relates to demand and ultimately, travel. Accessibility, on the other hand, gets to the "heart of the matter" in terms of the fundamental objective of trip making and travel demand, which is to move from one place to another to reach opportunities. The concept of opportunities is analogous to trip purpose in the travel demand model but can be much more specific and targeted in accessibility analysis due to the nature and input data used in the analytical process.

One of the key advantages of accessibility analysis is that it is very customizable and can be utilized to test specific equity or land use planning questions. An example of equity analysis in the context of accessibility might involve the quantification of multimodal access to food markets in a disadvantaged area. Such analysis can be designed to test both land use and nonmotorized network solutions to determine their respective accessibility benefits. The results can be utilized in a number of ways, including the identification of food deserts, or accessibility deficiencies, the identification of areas of high multimodal accessibility where a focus on safety or comfort improvements to the multimodal infrastructure may be beneficial, or to inform a return on investment, or other performance metric.

The software used to perform accessibility analysis for this study is Citilabs' Sugar Access. There are three primary inputs into the Sugar Access software, including land use, infrastructure, and distance decay. All three of the inputs are easily manipulated to test various scenarios, although the distance decay should remain a constant in testing infrastructure and/or land use scenarios and should only be manipulated to test the tool itself. Each of the three inputs is described in detail below.

Land use – The Citilabs Sugar Access software package includes land use datasets called Points of Interest (POI). The POI data is organized in 70 categories of land use types, enabling customization of the definition of opportunities. For the purpose of the needs assessment study, two categories of opportunities are used. The first is total jobs and the second is a customized list of points of interest consisting of essential destinations. The latter category includes the following types of land uses:





- Health care
- Food stores
- Government offices
- Educational institutions
- Cultural/recreational facilities
- Shopping centers

The advantage of using specific categories of land use, whether it is essential destinations or some other type of super-category, is the ability to test particular equity or policy issues.

Transportation networks – The roadway network input used in the Sugar Access software is the HERE network, which includes all roadways in Miami-Dade County, including minor collectors and minor roads in residential subdivisions. The richness of the roadway network is crucial to the walk and bike accessibility simulations. The transit network is a modified version of the General Transit Feed Specification (GTFS) dataset obtained from the Miami-Dade County Department of Transportation and Public Works. GTFS datasets include important operational characteristics of the transit network, including timed transfers, schedule-based frequencies, and accurate routing paths.

Travel time decay – Accessibility is "decayed" in the tool by travel time, meaning the longer it takes to reach an opportunity, the less accessible it is. In mathematical terms, the tool literally considers some destinations as fractions of opportunities. The curves in **Figure 2** display the relationship of travel time to the value of opportunities. While fractions of opportunities are conceptual in nature, the accessibility scores represent an aggregate number of opportunities.



Figure 2. Modal Time Decay Curves



Accessibility Diagnostics

Accessibility scores, as they are defined in the toolset used in this study, are comprehensive, in that they represent an aggregate measure of all the primary sources of inefficiency that stand between travel origins and destinations. These inefficiencies, or impedances, include congestion on the roadways (mobility); circuitous nature of the network for all modes (connectivity); and the proximity of destinations to where people live. These are the three pillars of accessibility for personal automobile or public transit bus travel. For walk and bike accessibility, the mobility impedance is not relevant.

Accessibility scores, respective to travel mode, can be skewed by any of the three factors, although proximity of destinations is often the most influential. Both the accessibility scores, whether averaged for the County or for sub-aggregate geographical areas, and heat maps depicting them are very useful in the identification of areas in need of improvement. The nature of needed improvements, however, whether they include land use or network interventions, is more nuanced. Because accessibility is comprehensive, raw scores alone are not sufficient to inform specific needs. For example, the identification of roadway capacity versus the need for better network connections requires a diagnostic tool in addition to the raw scores. There are two network diagnostic tools that can be used to distinguish the primary influencers of accessibility scores. The two diagnostics are designed to isolate the impacts of network connectivity on accessibility scores.

Mobility Diagnostic – The impact of congestion on personal automobile and bus accessibility is measured through a ratio of accessibility scores in congested conditions to accessibility scores in uncongested conditions. The two scenarios of accessibility are run using two different versions of the roadway network from the SERPM. The first uses the PM peak period congested network and the second uses the free-flow uncongested network. The ratio of the two distinct sets of accessibility scores represents the impact of congestion on accessibility. For example, if the number of destinations that are accessible in a given area in congested conditions is ten and the destinations accessible from the same area in uncongested conditions is twenty, the impact of congestion is that it reduces accessibility by 50%. In another area, the ratio might be 25%, meaning that congestion is only half as impactful. **Figure 3** illustrates the concept of the mobility diagnostic ratio.





Figure 4 depicts a map of the mobility ratio in Miami-Dade County, clearly highlighting the areas with the greatest impact of congestion. An interesting conclusion that can be drawn from this map is the fact that congestion in the Dolphin Expressway corridor and the I-95 corridor and in downtown Miami do not have a great impact on accessibility. In fact, the highest

mobility ratios are in the Dolphin corridor west of the Miami International Airport. The reason for this is that congestion is outweighed by other factors like network connectivity and land use. It can be said that, in areas with a high degree of accessibility resulting from those other factors, congestion is simply not as important or as impactful. In other words, if destinations are nearby and they are well connected via infrastructure, the effect of congestion is not as great because geographical proximity of destinations, combined with effective connectivity make travel speed almost irrelevant. By way of example, traveling to a destination by automobile that is only two miles away would take ten minutes in severely congested conditions, traveling at an average velocity of twelve miles per hour. That destination is accessible in spite of the



Figure 4. Mobility Diagnostic Ratio Map

congestion because it is effectively only ten minutes away. A different scenario in which a destination is thirty miles away would take almost an hour traveling at an average velocity of





forty miles per hour in uncongested conditions. The former scenario has a far greater level of accessibility due to proximity of land uses and network connectivity, in spite of traffic congestion.

Connectivity Diagnostic – The impact of network connectivity on accessibility can be measured through a ratio of accessibility scores using the actual network to accessibility scores using a synthetic "crow-fly" network for all modes. The crowfly network scenario is synthetic in that it does not represent any version of an actual network; rather, it assumes that all zones can be accessed from all zones "as the crow flies" and therefore not limited by network connectivity inefficiencies. The idea of the crowfly network is not that it be used as a viable network scenario, but that it be used to isolate the impact of connectivity, or lack thereof, on accessibility. The lower the ratio of actual to crowfly based accessibility, the more network connectivity limitations are playing a role in the accessibility score. **Figure 5** below illustrates the concept of the connectivity ratio.



The connectivity ratio for auto, walk, and bike accessibility uses the same actual : crowfly ratio concept. For transit, however, which is by its nature much more limited in terms of connectivity relative to the other modes, a ratio of actual transit : actual auto networks was used. The fact that the auto mode is the dominant mode of travel makes it an attractive measure against which to measure the connectivity of the transit network, while still maintaining some semblance of a plausible comparison, albeit still synthetic. The auto and transit connectivity ratio scenarios are depicted in **figures 6** and **7**, respectively.

It is evident in **Figure 6** that the southwest area, coastal areas south of downtown Miami and the beach communities are most limited by network connectivity, while areas along the major highway arteries and the majority of the City of Miami are least affected by network connectivity. These are interesting and in fact predictable results, as the limited infrastructure connecting the south part of the County to the major activity centers to the north and the





islands to the mainland are and have always been significant challenges. The transit connectivity plot in **Figure 7** tells more or less the same story, with a larger portion of the County experiencing accessibility challenges related to transit network connectivity. The fixed guideway Metrorail corridor predictably demonstrates the highest levels of connectivity ratio, given its direct connection to the largest activity center in the region in downtown Miami.

Other Diagnostics – A land use balance diagnostic is another potential tool to determine the extent to which existing land use and land use policy impacts accessibility. Such a diagnostic was not developed as part of this study, but it is recommended as part of the LRTP update scenario planning process to inform potential land use scenarios.



Figure 6. Auto Connectivity Diagnostic Ratio Map



Figure 7. Transit Connectivity Diagnostic Ratio Map

2040 LRTP Accessibility Analysis

As described above, the intent of this study is to develop a needs assessment methodology to inform the 2045 LRTP update. The development of any technical methodology is greatly enhanced by testing on real-world scenarios to confirm its value and identify needed adjustments. The scenarios developed to test the accessibility needs assessment emanated from the 2040 LRTP Cost Feasible Plan, which consists of a broad array of non-motorized, transit, and roadway improvements ideal for a comprehensive accounting of both the value and pitfalls of applying a new needs assessment framework. One of the most difficult aspects of



LRTP

systems planning is the technical challenge of analytics with respect to specific improvements, with consideration of the inevitable symbiotic relationships of improvement strategies consisting of multiple improvements. A scenario testing framework was established to facilitate this process and provide results that can be attributed to specific improvements.

The scenarios are multi-dimensional, in terms of varying improvement strategies in pre-defined geographic areas. The three dimensions used to define the scenarios include:

- Corridor defined as ten primary corridors
- Primary Mode defined as transit, limited access roadway, or non-limited access roadway
- Access Mode defined as bicycle, pedestrian, or roadway

There are numerous north-south travel corridors in Miami-Dade County, serving local, regional, and inter-regional travel needs in the US-1, SR 826, and I-95/Turnpike corridors, respectively. There are also several east-west corridors serving primarily local and regional travel markets, including the Kendall Drive and SR 836 corridors. Six of these corridors are slated for premium transit service in the Miami-Dade Strategic Miami Area Rapid Transit (SMART) plan. These and other corridor definitions for accessibility scenario testing are broadly defined as three to five mile wide areas centered on major facilities within the County. A depiction of corridor boundaries is included in **Figure 8**.

The dimensional variables were used to define a total of 16 scenarios tested in six corridors. The remaining five corridors were not tested, as the results of the analysis on the tested corridors are sufficient to establish the usefulness of the framework. For the tested corridors, not all primary and access modes are relevant to every corridor. For example, Corridor 4, which is an east/west corridor centered on the Palmetto Expressway, does not include premium transit improvements in the 2040 LRTP Cost Feasible Plan. Both of the scenarios tested in Corridor 4, then, are roadway improvement strategies, as defined in scenario three and four templates.

The scenario types are organized in terms of four combinations of primary and access mode, specifically designed to enable analysis of respective benefits for different travel markets and the combined



Figure 8. Corridors





benefits of primary and access modes. The combined accessibility benefit, for example, of a premium transit improvement strategy and a multimodal strategy improving walk access to transit stations in the corridor, can be assessed and compared across strategies, as outlined in the scenario definitions.

Projects in 2040 Cost Feasible Plan

Improvements in the 2040 Cost Feasible Plan (CFP) include three distinct categories defined as priorities two, three, and four, which correspond to five- or ten-year time bands between the years 2021-2025, 2026-2030, and 2031-2040, respectively. The improvements in the CFP were bundled, without regard for particular priority category, into modal improvement strategies within each corridor as described above. Project bundles by corridor are included in **Appendix A** for reference. The pool of projects included in the CFP include a total of 463 improvements, broken down as follows:

- 124 roadway projects
- 118 transit projects
- 202 bike/ped projects
- 19 freight projects

Future Year Inputs Development

Networks – The base roadway networks used for the 2040 accessibility runs are the HERE local roads network with Existing plus Committed (E+C) model network congested speeds ported to the HERE network. For scenario improvement runs, the congested speeds from the cost feasible network were ported to the HERE network for improved links in the scenario. Initial testing indicated the likelihood of reduced speeds on improved links in the cost feasible scenario due to induced demand. To mitigate this effect, speeds on parallel facility links were ported in addition to the improved links. Parallel facilities include at

least one non-local roadway on either side of the improved facility.

Land use – The definition of opportunities or destinations in the future year scenarios is number of jobs in the 2040 MAZ dataset developed for the 2040 LRTP. The points of interest data provided in the Sugar Access









and the second s

software were used to evaluate base scenario accessibility to essential destinations, but were not carried forward into future year scenarios.

Diagnostics – The network inputs used for the diagnostic analysis include the uncongested, or free-flow, and PM peak period congested networks from the SERPM E+C model scenario for the mobility diagnostic. The connectivity diagnostic calls for a synthetic scenario that simulates a "crowfly" connection between all zones in the region, thus representing a "perfectly connected" network against which to compare the actual network. The travel times associated with the crowfly network were estimated by computing distances between all MAZs. This was done by taking the difference of the X,Y coordinates of the centroids of all zones and using the Pythagorean theorem to compute the straight line distance between them. For non-motorized modes a static speed of 3 miles per hour for walking and 9.6 miles per hour for biking were used to mirror the assumptions used in CUBE's Sugar Access to compute travel time across the straight-line. For auto, average congested speed between the MAZs (using speed skims from Sugar) were used to compute travel time across the straight line.

Future Year Accessibility Results

The base case, or no-build, network scenario for future year accessibility testing is the Existing plus Committed (E+C) network, which can be characterized as a short term minimum investment scenario that includes improvements programmed in the first five years of the 2040 LRTP. The raw accessibility scores are defined in two principal ways, as access to jobs and access to essential destinations. For the purpose of overall needs assessment and the needs evaluation framework access to jobs was used as a surrogate for general accessibility. Access to essential destinations is a much more specific type of accessibility that should be reserved for specific testing of improvements tailored to the particular travel markets included in the definition of essential destinations. The E+C scenario accessibility results presented in the following figures nevertheless include representations of both work accessibility and essential destinations accessibility, both of which present noteworthy and interesting results.

The essential destinations results are summarized in percentage terms to facilitate the aggregation of distinct categories of destinations. The reason is that if the total number of essential destinations is used as a metric, that number could be weighted to one or another particular type of destination within the category of essential destinations. In percentage terms, the measure reflects the proportion of different types of essential destinations that are accessible. So, a score for example of 50% indicates that only half of the destinations types are accessible.





Figure 9. Walk Access to Jobs

Figure 10. Walk Access to Essential Destinations The walk access to jobs and essential

destinations in **figures 9** and **10** display a predictable pattern of high walk accessibility in the central and east central portions of the County, and along the I-95, US 27, SR 836, Kendall and US1 corridors with a countywide average jobs accessibility score of 5,500 and 6,200 in Title VI areas. The fringes of the County to the north, south and west are relative accessibility deserts, with the exception of Homestead. The low accessibility area between Homestead and Dadeland along the US1 corridor indicates a relative lack of significant activity units. The essential destination accessibility in **Figure 10** tells a slightly different story, with a much higher degree of accessibility in the southern part of the County, relative to the north. This is partly due to the different metric described above for essential destinations, which favors smaller urban areas that do not necessarily include concentrations of destination types, but rather a broader array of destination types within a walkable area.

Bike accessibility follows generally the same patterns as walk, but with a much broader range, therefore improving the scores dramatically. The bike access to essential destinations map in **Figure 12** reflects this in a much more even distribution of the high accessibility areas, relative to the walk results. The countywide average work accessibility for bike is 49,400, and 55,300 in Title VI areas. The essential destination average is 66% countywide and in Title VI areas.





Accessibility-Based Needs Assessment



Figure 11. Bike Access to Jobs

Figure 12. Bike Access to Essential Destinations





Figure 13. Transit Access to Jobs

Figure 14. Transit Access to Essential Destinations

The transit accessibility scores are depicted for employment and essential destinations in **figures 13** and **14**, with countywide and Title VI area averages of 288,200 and 312,300 for employment and 34% for essential destinations both countywide and in Title VI areas.





Figure 15. Auto Access to Jobs

Figure 16. Auto Access to Essential Destinations

Auto accessibility scores depicted for employment and essential destinations in **figures 15** and **16**, respectively, indicate a clear dividing line between the north and south parts of the County in the, particularly with respect to employment accessibility. The countywide average for employment accessibility is 1,184,000 and for essential destinations, the highest of all modes at 88% countywide average and 87% in Title VI areas.

The raw accessibility scores presented in the figures and statistics above are informative as to the areas of the County that have high levels of accessibility, by mode, and the areas that are comparatively less accessible. Applying the mobility and connectivity diagnostics at the corridor level yields more actionable information about the principal contributors to the accessibility scores across the County. The bubble chart in **Figure 17** provides a snapshot of the walk accessibility connectivity diagnostic in each of the corridors. The chart depicts both the raw scores in the size of the bubbles, and the diagnostic ratios on the X-axis. Also depicted are the average values of the County at large and downtown Miami in the dotted and vertical lines, respectively, as a point of reference. Connectivity bubble charts for the other modes and an auto mobility chart are included in Appendix C.





LRTP







Needs Evaluation Framework

Performance based planning requirements in federal transportation legislation call for the development of quantitative metrics that effectively measure and monitor system performance. The project evaluation and prioritization process to be undertaken in the development of a cost feasible plan can be informed almost entirely by the accessibility results developed in this study. The specific goals to which accessibility applies, either directly or indirectly, include:

- **Goal 1. Improve System and Travel** One of the primary objectives this goal is to reduce congestion.
- **Goal 4. Support Economic Vitality** One of the primary objectives of this goal is to increase access to employment.
- Goal 5. Protect and Preserve the Environment and Quality of Life Some of the core objectives of this goal are to support livable communities and reduce environmental impacts of transportation.
- **Goal 6. Enhance Connectivity** The core objective of this goal is to improve the connectivity of the transportation system.

Evaluation metrics for goals 1 and 6 are based on the mobility and connectivity diagnostic ratios, respectively. The change in those ratios resulting from investment scenarios described above is a direct measure of mobility and connectivity improvement, as measured through an accessibility lens. The metric for goal 4 represents perhaps the most direct relationship of accessibility to the objective(s) of the goal. The change in the number of jobs accessible, by mode of travel, is that metric and the specific application of the metric for Title VI populations facilitates an equity measure that, while not explicit in the LRTP goals and objectives, is an important consideration. The environmental metric for goal 5 is derived through ratios of the modal accessibility scores. The relationship of auto and transit accessibility, for example, can be directly related to mode share. The quantitative representation of this relationship is the ratio of transit accessibility to auto accessibility scores, and wall/bike to auto, both of which are directly proportional to potential mode shift from auto to transit and bike/ped. In turn, the transit to auto ratio (TAR) and walk/bike to auto ratio (WAR) are logical variables that measure both environmental and livability impacts of transportation investment scenarios. Each of the aforementioned goals are presented below in light of the scenario strategies associated with the six tested corridors.

Project bundle tables in Appendix A provide a key to associate scenarios with specific improvements from the LRTP Cost Feasible Plan.





LRTP

Goal 1. Improve System and Travel

The mobility ratio delta associated with improvement strategies serves as a mobility metric, isolating the impact of congestion on accessibility. Most of the scenarios 1 and 2 in the six tested corridors do not have an impact on congestion, as scenario 1 is a transit and multimodal improvement scenario and scenario 2 a transit and auto access to transit focus. Of the remaining scenario scores in Figure 18, scenario 3 in both corridors four and five have the highest mobility deltas, reflecting express lane improvements in both corridors and a limited access roadway extension in corridor five. Corridor eight includes express lane improvements on SR 836, scoring highly, but with only 50% of the mobility improvement relative to corridor four, which includes express lanes on SR 826. The primary reason for the difference in mobility gains is that congestion is not as impactful to mobility in the SR 836 corridor. While that particular facility experiences high levels of peak period congestion, it also traverses an area rich in "destinations" and in network connectivity. It therefore stands to reason that highway capacity improvements are more valuable in the SR 826 corridor relative to SR 836, from an accessibility standpoint.

| CORRIDOR DELTA | MOBILITY - cong. ratio delta Auto |
|-------------------|---|
| Corridor 1 | |
| Scenario 1 | - |
| Scenario 2 | - |
| Scenario 4 | 0.0008 |
| Corridor 2 | |
| Scenario 1 | - |
| Scenario 2 | - |
| Scenario 4 | 0.0022 |
| Corridor 3 | |
| Scenario 1 | - |
| Scenario 2 | - |
| Scenario 4 | 0.0032 |
| Corridor 4 | |
| Scenario 3 | 0.0160 |
| Scenario 4 | 0.0016 |
| Corridor 5 | |
| Scenario 3 | 0.0115 |
| Scenario 4 | 0.0025 |
| Corridor 8 | |
| Scenario 2 | 0.0075 |
| Scenario 3 | 0.0075 |
| Scenario 4 | 0.0014 |
| Corridor N | |

Figure 18. Mobility

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| CORRIDOR DELTA | ECONOMIC | VITALITY - ad | ccess to jobs | delta |
|-------------------|----------|---------------|---------------|--------|
| | Auto | Transit | Bike/Ped | TOTAL |
| Corridor 1 | | | | |
| Scenario 1 | 0 | 13,800 | 1,200 | 15,000 |
| Scenario 2 | 0 | 13,800 | 1,200 | 15,000 |
| Scenario 4 | 1,200 | 6,500 | 1,200 | 8,900 |
| Corridor 2 | | | | |
| Scenario 1 | 0 | 3,800 | 700 | 4,500 |
| Scenario 2 | 0 | 5,600 | 800 | 6,400 |
| Scenario 4 | 2,800 | 0 | 800 | 3,600 |
| Corridor 3 | | | | |
| Scenario 1 | 0 | 16,500 | 900 | 17,400 |
| Scenario 2 | 2,300 | 17,000 | 900 | 20,200 |
| Scenario 4 | 4,600 | 1,100 | 1,000 | 6,700 |
| Corridor 4 | | | | |
| Scenario 3 | 24,000 | 0 | 0 | 24,000 |
| Scenario 4 | 2,400 | 300 | 100 | 2,800 |
| Corridor 5 | | | | |
| Scenario 3 | 15,400 | 0 | 0 | 15,400 |
| Scenario 4 | 2,300 | 800 | 1,200 | 4,300 |
| Corridor 8 | | | | |
| Scenario 2 | 100 | 3,000 | 700 | 3,800 |
| Scenario 3 | 10,200 | 0 | 0 | 10,200 |
| Scenario 4 | 1,500 | 300 | 1,100 | 2,900 |
| Corridor N | | | | |

Goal 4. Support Economic Vitality

The economic vitality goal is the most directly measureable of the LRTP goals using accessibility. The metric is the average number of jobs accessible by mode, or in aggregate, resulting from the improvement strategies. The highest scoring alternative for this metric is the limited access roadway scenario tested for corridor 4, which includes capacity and operational improvements on the Turnpike, the HEFT, SR 826 and the Golden Glades Interchange, which is one of the largest interchanges and intermodal facilities in the County. Second highest for the aggregate access to jobs change is in scenario 2 of corridor 3, driven by east/west and north/south premium transit improvements increasing transit connectivity across Biscayne Bay and along Biscayne Blvd and NW 7th Avenue, respectively. With the barrier islands experiencing one of the lowest connectivity ratios in the County, these

Figure 19. Economic Vitality

transit connectivity improvements yield competitive access to jobs scores.

From a modal investment standpoint, it is noteworthy that the average aggregate improvement for roadway-oriented scenarios (scenarios 3, 4) is just under 9,000, while the average for transit-oriented scenarios (scenarios 1, 2) is almost 50% higher, at just over 12,000. The increased transit accessibility from the barrier islands to the mainland is the primary driver of this, resolving a significant accessibility problem between the beaches and the mainland. The accessibility perspective yields a very different result than a focus on link congestion or level of service, which would not even result in a demonstrable improvement in the transit scenarios.



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Goal 5. Protect and Preserve the Environment and Quality of Life

The environment and quality of life goal is measured with accessibility as the ratios of transit to auto accessibility and walk/bike to auto accessibility as a surrogate for mode share. The use of those ratios is supported in the household survey data used to estimate the distance decay curves described above as a statistically significant predictive variable for mode shift. The data suggest that the higher those ratios, the higher the respective transit and walk/bike mode share.

The ratio deltas in **Figure 20** demonstrate the predictable result of transit-oriented scenarios scoring highly. Roadway-oriented scenarios, on the other hand, experience negative change in these ratios, as they tend to improve auto accessibility, but not necessarily transit and multimodal accessibility.

| CORRIDOR | CONNECTIVITY - cr | owfly ratio | delta | |
|------------|-------------------|-------------|----------|--------|
| DELIA | Auto | Transit | Bike/Ped | TOTAL |
| Corridor 1 | | | | |
| Scenario 1 | - | 0.0086 | 0.0128 | 0.0214 |
| Scenario 2 | - | 0.0086 | 0.0128 | 0.0214 |
| Scenario 4 | 0.0007 | 0.0017 | 0.0128 | 0.0152 |
| Corridor 2 | | | | |
| Scenario 1 | - | 0.0014 | 0.0156 | 0.0170 |
| Scenario 2 | - | 0.0014 | 0.0156 | 0.0170 |
| Scenario 4 | 0.0019 | - | 0.0156 | 0.0174 |
| Corridor 3 | | | | |
| Scenario 1 | - | 0.0128 | 0.0010 | 0.0137 |
| Scenario 2 | - | 0.0133 | 0.0010 | 0.0143 |
| Scenario 4 | 0.0027 | - | - | 0.0027 |
| Corridor 4 | | | | |
| Scenario 3 | 0.0140 | - | - | 0.0140 |
| Scenario 4 | - | - | 0.0004 | 0.0004 |
| Corridor 5 | | | | |
| Scenario 3 | 0.0099 | - | - | 0.0099 |
| Scenario 4 | 0.0021 | - | 0.0167 | 0.0188 |
| Corridor 8 | | | | |
| Scenario 2 | - | - | 0.0090 | 0.0090 |
| Scenario 3 | 0.0064 | - | - | 0.0064 |
| Scenario 4 | - | - | 0.0088 | 0.0088 |
| Corridor N | | | | |

Figure 21. Connectivity

| CORRIDOR DELTA | ENVIRONMENT | AL - modal ratio del | ta |
|-------------------|----------------|----------------------|----------|
| | Transit : Auto | Walk/Bike : Auto | TOTAL |
| Corridor 1 | | | |
| Scenario 1 | 0.013 | 0.00110 | 0.01369 |
| Scenario 2 | 0.016 | 0.00110 | 0.01734 |
| Scenario 4 | 0.006 | 0.00102 | 0.00664 |
| Corridor 2 | | | |
| Scenario 1 | 0.0032 | 0.00059 | 0.00376 |
| Scenario 2 | 0.0048 | 0.00067 | 0.00543 |
| Scenario 4 | -0.0007 | 0.00051 | -0.00022 |
| Corridor 3 | | | |
| Scenario 1 | 0.013 | 0.00073 | 0.01420 |
| Scenario 2 | 0.022 | 0.00064 | 0.02290 |
| Scenario 4 | 0.000 | 0.00062 | 0.00044 |
| Corridor 4 | | | |
| Scenario 3 | -0.0033 | -0.00051 | -0.00378 |
| Scenario 4 | -0.0001 | 0.00003 | -0.00007 |
| Corridor 5 | | | |
| Scenario 3 | -0.0026 | -0.00052 | -0.00311 |
| Scenario 4 | 0.0002 | 0.00088 | 0.00106 |
| Corridor 8 | | | |
| Scenario 2 | 0.0023 | 0.00054 | 0.00284 |
| Scenario 3 | -0.0024 | -0.00055 | -0.00295 |
| Scenario 4 | -0.0001 | 0.00077 | 0.00065 |
| Corridor N | | | |

Figure 20. Environmental

Goal 6. Enhance Connectivity

Connectivity ratio deltas, presented by mode in Figure 21, can be used to evaluate mode-specific improvements by focusing on the modal connectivity delta, or in aggregate to evaluate improvement strategy scenarios. The results indicate the transit improvement scenarios (1 and 2) employed in Corridor 1 yield the greatest improvement in connectivity across all modes. This is the result of the combined benefits associated with the transit and non-motorized improvements tested in these scenarios. By comparison, isolating the transit connectivity ratio improvement points to Corridor 3, which includes multiple premium transit improvements on the 79th Street Causeway, NW 7th Avenue and Biscayne Boulevard, improving



transit connectivity of Miami Beach to the mainland. By contrast, improvement strategies scoring relatively low against the connectivity metric are the capacity-oriented strategies tested in corridors 4 and 8, which do not result in any appreciable connectivity improvement.

Other goals supported by accessibility principals include the Safety, System Preservation, and Optimize Investment goals. Multimodal safety is implicitly supported through the increased accessibility associated with improving the non-motorized network. System preservation and optimization of investment also are implicit in the accessibility-based planning process. The network connectivity benefit, for example, of a ramp connection between two limited access facilities relative to the significantly more costly widening of one of those facilities is an example of the value of a quantitative connectivity metric that can be used in the context of benefit cost analysis.

The accessibility-based metrics can be summarized to inform a single comprehensive score, but because the individual metric scores have different units of measurement, the scores are orders of magnitude different from one another. For example, the change in connectivity diagnostic ratios ranges from hundredths to thousandths of one, while the access to jobs score deltas number in the thousands or tens of thousands. Each of the individual metrics, then, must be normalized to the highest score across all scenarios, meaning that the score for each scenario or improvement is a function of the score for the highest scores. The evaluation matrix with normalized scores for the six tested corridors is presented in **Figure 22**.



| | CONNECTIV | ONNECTIVITY - crowfly ratio delta | | | | ENVIRONMENTA | ENVIRONMENTAL - modal ratio delta | | | modal ratio delta ECONOMIC VITALITY - access to jobs delta (in Title VI areas) | | | | elta | TOTAL Score | |
|------------|-----------|-----------------------------------|----------|-------|------|----------------|-----------------------------------|-------|------|--|----------|-------|---------|-----------|-------------|--------------|
| (norm.) | Auto | Transit | Bike/Ped | TOTAL | Auto | Transit : Auto | Walk/Bike : Auto | TOTAL | Auto | Transit | Bike/Ped | TOTAL | Transit | Walk/Bike | TOTAL | (unweightea) |
| Corridor 1 | | | | | | | | | | | | | | | | |
| Scenario 1 | - | 0.64 | 0.76 | 1.41 | - | 0.57 | 1.00 | 1.57 | 0.00 | 0.81 | 1.00 | 1.81 | 0.72 | 0.43 | 1.15 | 5.94 |
| Scenario 2 | - | 0.64 | 0.76 | 1.41 | - | 0.73 | 1.00 | 1.73 | 0.00 | 0.81 | 1.00 | 1.81 | 0.72 | 0.43 | 1.15 | 6.10 |
| Scenario 4 | 0.05 | 0.13 | 0.76 | 0.94 | 0.05 | 0.25 | 0.94 | 1.19 | 0.05 | 0.38 | 1.00 | 1.43 | 0.19 | 0.43 | 0.62 | 4.23 |
| Corridor 2 | | | | | | | | | | | | | | | | |
| Scenario 1 | - | 0.11 | 0.93 | 1.04 | - | 0.14 | 0.53 | 0.68 | 0.00 | 0.22 | 0.58 | 0.81 | 0.19 | 0.29 | 0.47 | 2.99 |
| Scenario 2 | - | 0.11 | 0.93 | 1.04 | - | 0.21 | 0.61 | 0.82 | 0.00 | 0.33 | 0.67 | 1.00 | 0.19 | 0.29 | 0.47 | 3.33 |
| Scenario 4 | 0.13 | - | 0.93 | 1.06 | 0.14 | -0.03 | 0.47 | 0.44 | 0.12 | 0.00 | 0.67 | 0.78 | 0.00 | 0.29 | 0.29 | 2.71 |
| Corridor 3 | | | | | | | | | | | | | | | | |
| Scenario 1 | - | 0.96 | 0.06 | 1.02 | - | 0.60 | 0.67 | 1.28 | 0.00 | 0.97 | 0.75 | 1.72 | 0.95 | 0.14 | 1.09 | 5.10 |
| Scenario 2 | - | 1.00 | 0.06 | 1.06 | - | 1.00 | 0.58 | 1.58 | 0.10 | 1.00 | 0.75 | 1.85 | 1.00 | 0.14 | 1.14 | 5.63 |
| Scenario 4 | 0.19 | - | - | 0.19 | 0.20 | -0.01 | 0.57 | 0.56 | 0.19 | 0.06 | 0.83 | 1.09 | 0.08 | 0.14 | 0.22 | 2.26 |
| Corridor 4 | | | | | | | | | | | | | | | | |
| Scenario 3 | 1.00 | - | - | 1.00 | 1.00 | -0.15 | -0.47 | -0.61 | 1.00 | 0.00 | 0.00 | 1.00 | 0.07 | 0.00 | 0.07 | 2.45 |
| Scenario 4 | - | - | 0.02 | 0.02 | 0.10 | 0.00 | 0.03 | 0.02 | 0.10 | 0.02 | 0.08 | 0.20 | 0.08 | 0.14 | 0.22 | 0.57 |
| Corridor 5 | | | | | | | | | | | | | | | | |
| Scenario 3 | 0.71 | - | - | 0.71 | 0.72 | -0.12 | -0.48 | -0.59 | 0.64 | 0.00 | 0.00 | 0.64 | 0.08 | 0.00 | 0.08 | 1.55 |
| Scenario 4 | 0.15 | - | 1.00 | 1.15 | 0.16 | 0.01 | 0.81 | 0.81 | 0.10 | 0.05 | 1.00 | 1.14 | 0.11 | 0.86 | 0.96 | 4.23 |
| Corridor 8 | | | | | | | | | | | | | | | | |
| Scenario 2 | - | - | 0.54 | 0.54 | 0.47 | 0.10 | 0.49 | 0.60 | 0.00 | 0.18 | 0.58 | 0.76 | 0.28 | 0.71 | 0.99 | 3.36 |
| Scenario 3 | 0.46 | - | - | 0.46 | 0.47 | -0.11 | -0.50 | -0.61 | 0.43 | 0.00 | 0.00 | 0.43 | 0.00 | 0.00 | 0.00 | 0.74 |
| Scenario 4 | - | - | 0.53 | 0.53 | 0.09 | -0.01 | 0.71 | 0.70 | 0.06 | 0.02 | 0.92 | 1.00 | 0.01 | 1.00 | 1.01 | 3.32 |

Values represent normalized scores, reflecting a proportion of the highest value for each respective metric

Scenario 1: Premium Transit with Bike/Ped transit access improvements

Scenario 2: Premium Transit with Bike/Ped and Roadway transit access improvments

Scenario 3: Limited Access Roadway improvements

Scenario 4: Arterial/Collector and Bike/Ped improvements

Figure 22. Needs Evaluation Matrix





Conclusions and Recommendations

The process, technical tools, and results of the accessibility-based needs assessment all point to a reliable and effective tool to inform the technical portion of the LRTP update. Some of the unique features of the process include its inclusion of non-motorized and motorized analysis; an integrated approach facilitating scenario planning; unique performance metrics to support a performance-based planning process; and a comprehensive streamlined project evaluation framework reflecting most of the LRTP goals. One other key feature of the methodology is the fact that it can easily be customized and adjusted to both improve the process and add specialized metrics for specific policy issues. Recommendations below are suggestions for the 2045 LRTP update process.

- Move forward with methodology in the testing and assessment/evaluation of multimodal improvements across a system of corridors
- Incorporate land use (and other dimensional) scenarios to enable a full accounting of the impacts of land use, relative to infrastructure interventions
- Develop a land use diagnostic to isolate the impact of land use. The diagnostic would require the development or identification of an ideal land use mix, either for the County as a whole, or specific to sub areas of the County.
- Test the prioritization framework across a broad range of corridors and improvements to ensure the appropriate differentiation of improvement benefits.
- Develop a benefit cost component to add to the prioritization framework, taking cost into consideration.





Develop complementary evaluation criteria

 addition to accessibility-based criteria. While the framework presented above
 incorporates the majority of considerations, other issues are best handled separately,
 including security, safety, and system preservation.

The scenario summary sheet in **Figure 23** is a suggested visualization tool for the dissemination of scenario makeups and results. Other sample summary sheets are included in Appendix D.



Appendix A. Project Bundles





| Corridor | Project Mode | | | Facility | From | То | Description | Scen. 1 | Scen. 2 | Scen. 3 | Scen. 4 |
|------------|-----------------|---------|---|---|-------------------------------|----------------------------------|--|---------|---------|---------|---------|
| | | NM11 | 3 | M-Path GreenLink | SW 67 Ave | Miami River Greenway | Trail Improvements | х | X | | Х |
| | Walk | NM53 | 2 | Commodore Trail improvements | Darwin St | Mercy Hospital | Trail Improvements | Х | Х | | Х |
| | | NM90 | 3 | Snapper Creek Trail "B" | SW 94 Ave / K-Land Park | SW 57 Ave | Trail Improvements | Х | Х | | Х |
| | | NM152 | 4 | SW 137 Ave | SW 288 St | SR-821 (HEFT) | Bicycle Facility Improvements | Х | Х | | Х |
| | | NM253 | 3 | SW 25 Road | Brickell Ave | Coral Way | Bicycle Facility Improvements | Х | Х | | Х |
| | Bike | NM145 | 4 | NW 344 St | SW 192 Ave | NW 6 Ave | Bicycle Facility Improvements | Х | Х | | Х |
| | | NM155 | 4 | Blue Road | SW 67 Ave | SW 42 Ave | Bicycle Facility Improvements | Х | Х | | Х |
| | | NM75 | 3 | S 13 St / Coral Way | SW 3 Ave | Brickell Ave | Bicycle Facility Improvements | Х | Х | | Х |
| | | MDT151 | 2 | Douglas Road Corr (37 Ave) Enhanced Bus | US-1 | Miami Intermodal Center (MIC) | Incremental improvement on PTP corridor | Х | Х | | |
| | Transit | MDT189 | 2 | Metrorail Park-and-Ride Facility | At Dadeland South | | Expand Park-and-Ride facility with 1000 parking space garage | | Х | | |
| | Transit | MDT114 | 2 | Busway Park-and-Ride Facility | US-1 Busway | SW 104 St | Park-and-Ride facility with 250-300 surface parking spaces | | Х | | |
| | | MDT186 | 2 | Expand Overcapacity Park-and-Ride lot | at SW 152 St | | New parking garage with 500 parking spaces | | Х | | |
| Corridor 1 | | FDOT129 | 4 | SW 152 St (Coral Reef) | SR-821 (HEFT) | US-1 | Add 2 lanes and reconstruct | | | | Х |
| | | HS100 | 3 | SW 162 Ave (Farm Life) | SW 312 (Campbell) | SW 328 (Lucy) | Add 2 lanes and center turn lane and reconstruct | | | | Х |
| | | PW156 | 4 | SW 312 St (Campbell) | NW 14 Ave/SW 176 Ave | SW 197 Av | Add 2 lanes and reconstruct | | | | Х |
| | | PW136 | 3 | SW 152 Ave | US-1 | SW 312 St (Campbell) | Add 2 lanes and reconstruct | | | | Х |
| | | PW142 | 2 | SW 200 St | US-1 | Quail Roost Dr | Add 2 lanes and reconstruct | | | | Х |
| | | | | | SW 187 Ave | SW 197 Ave | | | | | |
| | Auto | PW145 | 3 | SW 320 St (Mowry) | S. Dixie Hwy | SW 142 Ave | Add 2 lanes and reconstruct | | | | Х |
| | | HS105 | 2 | SW 312 St (Campbell) | SW 152 Ave | SW 137 Ave | Add 2 lanes with left turn lanes and reconstruct | | | | Х |
| | | HS102 | 4 | North Canal Dr | SW 162 Ave | SW 152 Ave | Add 2 lanes and divided roadway with left turn lanes | | | | Х |
| | | | | | SW 197 Ave | SW 187 Ave | | | | | |
| | | HS101 | 2 | SW 320 St (Mowry) | US-1 | SW 142 Ave | Add 2 lanes with left turn lanes and reconstruct | | | | Х |
| | | NP107 | 4 | US-1 | at SW 27 Ave | | Grade separation of US-1 over SW 27 Ave | | | | Х |
| | | FDOT130 | 4 | US-1 | at SW 344 St (Palm) | | Grade separated overpass | | | | Х |
| | | NM51 | 2 | Snapper Creek Trail "A" | K-Land Park / SW 88 St | SW 72 St | Trail Improvements | Х | Х | | Х |
| | Malk | NM90 | 3 | Snapper Creek Trail "B" | SW 94 Ave / K-Land Park | SW 57 Ave | Trail Improvements | Х | Х | | Х |
| | Walk | NM11 | 3 | M-Path GreenLink | SW 67 Ave | Miami River Greenway | Trail Improvements | Х | Х | | Х |
| | | NM53 | 2 | Commodore Trail improvements | Darwin St | Mercy Hospital | Trail Improvements | Х | Х | | Х |
| | | NM144 | 4 | SW 48 St | SW 117 Ave | SW 82 Ave | Bicycle Facility Improvements | Х | Х | | Х |
| | | NM153 | 4 | SW 40 St | SW 117 Ave | SW 57 Ave | Bicycle Facility Improvements | Х | Х | | Х |
| | Bike | NM155 | 4 | Blue Road | SW 67 Ave | SW 42 Ave | Bicycle Facility Improvements | Х | Х | | Х |
| Corridor 2 | | NM75 | 3 | S 13 St / Coral Way | SW 3 Ave | Brickell Ave | Bicycle Facility Improvements | Х | Х | | Х |
| | | NM141 | 4 | SW 137 Ave | SW 152 St | SW 72 St | Bike Boulevard Improvements | Х | Х | | Х |
| | | MDT133 | 2 | Kendall Corridor (Kendall Enhanced Bus) | West Kendall Transit Terminal | Dadeland North Metrorail Station | Incremental improvement on PTP corridor | Х | Х | | |
| | | MDT114 | 2 | Busway Park-and-Ride Facility | US-1 Busway | SW 104 St | Park-and-Ride facility with 250-300 surface parking spaces | | Х | | |
| | Tropolit | NP107 | 4 | US-1 | at SW 27 Ave | | Grade separation of US-1 over SW 27 Ave | | | | Х |
| | ransit | PW149 | 3 | SW 72 St | SW 117 Ave | SW 157 Ave | Add 2 lanes and reconstruct | | | | Х |
| | | PW185 | 4 | SW 104 St | SW 147 Ave | SW 137 Ave | Add 2 lanes and reconstruct | | | | Х |
| | | PW186 | 4 | SW 104 St | Hammocks Blvd | SW 147 Ave | Add 2 lanes and reconstruct | | | | Х |





| Nerview Note 2 Biosym Suddewid N E 351 Nerview Pediation failing improvements N | Corridor | Project Mode | | | Facility | From | То | Description | Scen. 1 | Scen. 2 | Scen. 3 | Scen. 4 |
|--|------------|-----------------|-----------|---|--|--------------------------------|------------------------------------|--|--------------|---------|---------|----------|
| Next Name Name <t< td=""><td></td><td></td><td>NM66</td><td>2</td><td>Biscayne Boulevard</td><td>NE 191 St</td><td>Aventura Boulevard</td><td>Pedestrian Facility Improvements</td><td>Х</td><td>Х</td><td></td><td>Х</td></t<> | | | NM66 | 2 | Biscayne Boulevard | NE 191 St | Aventura Boulevard | Pedestrian Facility Improvements | Х | Х | | Х |
| Math Math S </td <td></td> <td></td> <td>NM69</td> <td>2</td> <td>Lehman Causeway Pedestrian Facility</td> <td>Aventura</td> <td>Sunny Isles Beach</td> <td>Pedestrian Facility Improvements</td> <td>Х</td> <td>Х</td> <td></td> <td>Х</td> | | | NM69 | 2 | Lehman Causeway Pedestrian Facility | Aventura | Sunny Isles Beach | Pedestrian Facility Improvements | Х | Х | | Х |
| Nerview Mark North Store Park Total Improvements North North < | | Walk | NM92 | 3 | NW 3 Court | NW 2nSt | NW 8 St | Pedestrian Facility Improvements | Х | Х | | Х |
| No. No. A Abatas Carl(norm free/norme/no/ne/norme/ne/no/ne | | | NM150 | 4 | Atlantic Trail (north of Miami Beach) | North Shore Park | Haulover Park | Trail Improvements | Х | Х | | Х |
| Kernel No No <th< td=""><td></td><td></td><td>NM151</td><td>4</td><td>Atlantic Trail (north of Haulover Park)</td><td>Haulover Park</td><td>Broward County Line</td><td>Trail Improvements</td><td>Х</td><td>Х</td><td></td><td>Х</td></th<> | | | NM151 | 4 | Atlantic Trail (north of Haulover Park) | Haulover Park | Broward County Line | Trail Improvements | Х | Х | | Х |
| Normal Normal Normal Normal Second Se | | | NM82 | 3 | NE 62 St | Biscayne Boulevard | NE 2nd Ave | Bicycle Facility Improvements | Х | Х | | Х |
| Network Number Sign/NV Like Sign/Sign Number Sign/Sign Sign/Sign/Sign Sign/Sign/Sign/Sign/Sign/Sign/Sign/Sign/ | | | NM89 | 3 | NW 5 Ave | NW 4 St | NW 11 St | Bicycle Facility Improvements | Х | Х | | Х |
| Num Num <td></td> <td></td> <td>NM103</td> <td>3</td> <td>SW/NW 1 Ave</td> <td>SW 2 St</td> <td>NW 11 St</td> <td>Bicycle Facility Improvements</td> <td>Х</td> <td>Х</td> <td></td> <td>Х</td> | | | NM103 | 3 | SW/NW 1 Ave | SW 2 St | NW 11 St | Bicycle Facility Improvements | Х | Х | | Х |
| Kernet Numb 2 No < | | | NM132 | 4 | Biscayne Road | NE 187 St | NE 191 St | Pedestrian Facility Improvements | Х | Х | | Х |
| Bite Mag 2. N.2. Ave N.0.2 S1 West Little Net Cana/NE 495. Bitycle Failtly improvements X | | | NM48 | 2 | NE 2 Ave | NE 20 St | NE 36 St | Bicycle Facility Improvements | Х | Х | | Х |
| Kerr Kerr <th< td=""><td></td><td>Bike</td><td>NM49</td><td>2</td><td>NE 2 Ave</td><td>NE 62 St</td><td>West Little River Canal/NE 84 St</td><td>Bicycle Facility Improvements</td><td>Х</td><td>Х</td><td></td><td>Х</td></th<> | | Bike | NM49 | 2 | NE 2 Ave | NE 62 St | West Little River Canal/NE 84 St | Bicycle Facility Improvements | Х | Х | | Х |
| Corridor 3 MMS4 2. Albanit Frail d000 Block / Indian Park Fold Biopher / Allison Park Trail Improvements Improvements <th< td=""><td></td><td></td><td>NM61</td><td>2</td><td>NW 2 Ave</td><td>NW 20 St</td><td>NW 79 St</td><td>Bicycle Facility Improvements</td><td>Х</td><td>Х</td><td></td><td>Х</td></th<> | | | NM61 | 2 | NW 2 Ave | NW 20 St | NW 79 St | Bicycle Facility Improvements | Х | Х | | Х |
| Conder 3 NetBox 3 North Main Ave / NE Lat Ave NW 55 WW 125 Bicycle Facility Improvements Col Col X NM 56 4 Pine Tree Drive/La Gorce 251 6501 Mod / India Reach Park Trail Improvements Col X X Col X | | | NM54 | 2 | Atlantic Trail | 4600 Block / Indian Beach Park | 6400 Block / Allison Park | Trail Improvements | | | | Х |
| NM139 4 Alfanit: Tail (Boardwalk Replacement Project) 251 4000 block / Indian Beach Park Tail Improvements Improvements </td <td>Corridor 3</td> <td></td> <td>NM80</td> <td>3</td> <td>North Miami Ave / NE 1st Ave</td> <td>NW 5 St</td> <td>NW 17 St</td> <td>Bicycle Facility Improvements</td> <td></td> <td></td> <td></td> <td>Х</td> | Corridor 3 | | NM80 | 3 | North Miami Ave / NE 1st Ave | NW 5 St | NW 17 St | Bicycle Facility Improvements | | | | Х |
| NM156 4 Pine Tree Drive/La Gorce 32 St 63 St Bityde Facility Improvements | | | NM139 | 4 | Atlantic Trail (Boardwalk Replacement Project) | 23 St | 4600 Block / Indian Beach Park | Trail Improvements | | | | Х |
| Frank MDT3:0 2 2793 Caseway (JKC wy) Enhanced Bus Northside Merida Maim Beach Convention Center Improve/Implement transit service X | | | NM156 | 4 | Pine Tree Drive/La Gorce | 23 St | 63 St | Bicycle Facility Improvements | 1 | | | Х |
| Frankit MDT171 3 NW2 kee Enhanced Bus** Mamin Golden Glades Interchange Terminal Incremental improvements service X <td></td> <td></td> <td>MDT150</td> <td>2</td> <td>79 St Causeway (JFK Cwy) Enhanced Bus</td> <td>Northside Metrorail Station</td> <td>Miami Beach Convention Center</td> <td>Improve/implement transit service</td> <td>Х</td> <td>Х</td> <td></td> <td></td> | | | MDT150 | 2 | 79 St Causeway (JFK Cwy) Enhanced Bus | Northside Metrorail Station | Miami Beach Convention Center | Improve/implement transit service | Х | Х | | |
| M07233 2 North Corridor (Biscayne) Enhanced Bus** Main Downtown Terminal Aventura Terminal Incremental improvements on PTP corridor X X K </td <td></td> <td>Transit</td> <td>MDT171</td> <td>3</td> <td>NW 7 Ave Enhanced Bus</td> <td>Downtown Miami</td> <td>Golden Glades Interchange Terminal</td> <td>Premium limited stop transit service</td> <td>Х</td> <td>Х</td> <td></td> <td></td> | | Transit | MDT171 | 3 | NW 7 Ave Enhanced Bus | Downtown Miami | Golden Glades Interchange Terminal | Premium limited stop transit service | Х | Х | | |
| Key COM105 4 NV 95 y/NV 81 St/NW 82 St NV 12 Cr Biscome Bay Capacity improvements Improvements N Improvements Aub 2 NW2 Dist NW 27 Ave 1-95 Rodaws infrastructure improvements N X V X <td< td=""><td></td><td></td><td>MDT283</td><td>2</td><td>North Corridor (Biscayne) Enhanced Bus**</td><td>Miami Downtown Terminal</td><td>Aventura Terminal</td><td>Incremental improvement on PTP corridor</td><td>Х</td><td>Х</td><td></td><td></td></td<> | | | MDT283 | 2 | North Corridor (Biscayne) Enhanced Bus** | Miami Downtown Terminal | Aventura Terminal | Incremental improvement on PTP corridor | Х | Х | | |
| Kato COMI07 2 NV 20 St NW 27 Ave 1-95 Roadway infrastructure improvements Image: Comparison of the compa | | | COM105 | 4 | NW 79 St/NW 81 St/NW 82 St | NW 13 Ct | Biscayne Bay | Capacity improvements | | Х | | |
| Auto PW169 2 W like Hwy NE 163 St NE 175 St Widen to 4 Lanes M | | | COM107 | 2 | NW 20 St | NW 27 Ave | 1-95 | Roadway infrastructure improvements | | Х | | |
| Auto $\frac{PW154}{PV104}$ 2 Venetian Causeway Bridge Bayshore Dr Purdy Ave Bridge replacement M | | | PW169 | 2 | W Dixie Hwy | NE 163 St | NE 175 St | Widen to 4 Lanes | | Х | | Х |
| Auto PW104 3 NE 151 St NE 10th Ave West Dixle Highway Add 2 lanes and reconstruct M X M D PW105 4 NE 159 St NE 6 Ave West Dixle Highway Add 2 lanes and reconstruct X | | | PW154 | 2 | Venetian Causeway Bridge | Bayshore Dr | Purdy Ave | Bridge replacement | | Х | | |
| PW105 4 NE 159 St NE 6 Ave West Dixie Highway Add 2 lanes and reconstruct M X I PW180 4 N.Miami Ave NW 14 St Miami City Limitis Roadway improvements X </td <td></td> <td>Auto</td> <td>PW104</td> <td>3</td> <td>NE 151 St</td> <td>NE 10th Ave</td> <td>West Dixie Highway</td> <td>Add 2 lanes and reconstruct</td> <td> </td> <td>Х</td> <td></td> <td></td> | | Auto | PW104 | 3 | NE 151 St | NE 10th Ave | West Dixie Highway | Add 2 lanes and reconstruct | | Х | | |
| PW180 4 N. Miami Ave NW14 St Miami City Limitis Roadway improvements X X X X PV184 4 NW14 St Civic Center US-1 Widen to 3 lanes and resurface X | | | PW105 | 4 | NE 159 St | NE 6 Ave | West Dixie Highway | Add 2 lanes and reconstruct | | Х | | |
| PW184 4 NW14 St Civic Center US-1 Widen to 3 lanes and resurface X X X X Nuk NM106 3 SR-9 Extension Frontage Road NW 27th Ave SR 9 Extension Pedestrian Facility Improvements X X X X Bike NM59 2 NW 22 Ave NW 115 X NW 183 St Bicycle Facility Improvements (Restripng) X X X FW105 4 NE 159 St NE 6 Ave West Dixie Highway Add 2 lanes and resortant X X X TP114 4 SR-821 (HEFT) NW 57 Ave (Red) Turmpike (Mainline) Widen to 8 lanes X | | | PW180 | 4 | N. Miami Ave | NW 14 St | Miami City Limitis | Roadway improvements | | Х | | Х |
| Walk NM106 3 SR-9 Extension Frontage Road NW 27th Ave SR 9 Extension Pedestrian Facility Improvements Im | | | PW184 | 4 | NW 14 St | Civic Center | US-1 | Widen to 3 lanes and resurface | | Х | | |
| Bike NM59 2 NW 2Ave NW 111 St NW 183 St Bicycle Facility Improvements (Restriping) Improvements (R | | Walk | NM106 | 3 | SR-9 Extension Frontage Road | NW 27th Ave | SR 9 Extension | Pedestrian Facility Improvements | | | | Х |
| Print 4 NE 159 St NE 6 Ave West Dixie Highway Add 2 lanes and reconstruct Ne X TP114 4 SR-821 (HEFT) NW 57 Ave (Red) Turnpike (Mainline) Widen to 8 lanes X X TP105 4 SR-821 (HEFT) I-75 NW 57 St (Red) Widen to 8 lanes X X 101 3 Turnpike (Mainline) Golden Glades Interchange SR-821 (HEFT) Widen to 8 lanes X X 927 3 SR-826 NW 154 St NW 17 Ave Managed Lanes X X 930 4 SR-826 NW 103 St NW 154 St Widen with Express lanes X X 1272 3 Golden Gladed Interchange SB Turnpike SB I-95 at NW 135 St Modify Interchange X X 1273 3 Golden Gladed Interchange: SR-826 NW 17 Ave Golden Glades Interchange X X 1273 3 Golden Gladed Interchange: SR-826 NW 17 Ave Golden Glades Interchange Managed Lanes X < | | Bike | NM59 | 2 | NW 22 Ave | NW 111 St | NW 183 St | Bicycle Facility Improvements (Restriping) | | | | Х |
| Corridor 4 FP114 4 SR-821 (HEFT) NW 57 Ave (Red) Turnpike (Mainline) Widen to 8 lanes Image: Control of 8 and the state of | | | PW105 | 4 | NE 159 St | NE 6 Ave | West Dixie Highway | Add 2 lanes and reconstruct | | | | Х |
| Auto TP105 4 SR-821 (HEFT) I-75 NW 57 St (Red) Widen to 8 lanes Image: SR-821 (HEFT) X Image: SR-821 (H | | | TP114 | 4 | SR-821 (HEFT) | NW 57 Ave (Red) | Turnpike (Mainline) | Widen to 8 lanes | | | Х | |
| Corridor 4 TP101 3 Turnpike (Mainline) Golden Glades Interchange SR-821 (HEFT) Widen to 8 lanes M X M 927 3 SR-826 NW 154 St NW 17 Ave Managed Lanes X X 930 4 SR-826 NW 103 St NW 154 St Widen with Express lanes X X 1272 3 Golden Gladed Interchange SB Turnpike SB 1-95 at NW 135 St Modify Interchange X X 1273 3 Golden Gladed Interchange: SR-826 NW 17 Ave at SR-826 NB 1-95 at NW 183 St Modify Interchange X X DT4283582 2 Golden Gladed Interchange: SR-826 NW 17 Ave Golden Glades Interchange Managed lanes X X DT4283585 2 Golden Gladed Interchange: I-95 Biscayne River Canal Miami Garden Dr Add 2 auxiliary lanes X X DT4283583 2 Golden Gladed Interchange: SR-826 At 1-95 Neuropic Add 2 auxiliary lanes X X DT4283583 2 Golden Gladed I | | | TP105 | 4 | SR-821 (HEFT) | 1-75 | NW 57 St (Red) | Widen to 8 lanes | | | Х | |
| Porridor 4 927 3 SR-826 NW 154 St NW 17 Ave Managed Lanes | | | TP101 | 3 | Turnpike (Mainline) | Golden Glades Interchange | SR-821 (HEFT) | Widen to 8 lanes | | | Х | |
| Corridor 4 930 4 SR-826 NW 103 St NW 154 St Widen with Express lanes X 1272 3 Golden Gladed Interchange SB Turnpike SB Turnpike SB 1-95 at NW 135 St Modify Interchange X X 1273 3 Golden Gladed Interchange: SR-826 NW 17 Ave at SR-826 NB 1-95 at NW 183 St Modify Interchange X X DT4283582 2 Golden Gladed Interchange: SR-826 NW 17 Ave at SR-826 NB 1-95 at NW 183 St Modify Interchange X X DT4283585 2 Golden Gladed Interchange: SR-826 NW 17 Ave Golden Glades Interchange Managed lanes X X DT4283583 2 Golden Gladed Interchange: SR-826 At 1-95 Main Garden Dr Add 2 auxiliary lanes X X DT4283583 2 Golden Gladed Interchange: SR-826 At 1-95 New express lane ramps on 1-95 X X | | | 927 | 3 | SR-826 | NW 154 St | NW 17 Ave | Managed Lanes | | | Х | |
| Auto 1272 3 Golden Gladed Interchange SB Turnpike SB I-95 at NW 135 St Modify Interchange Modify Interchange X X 1273 3 Golden Gladed Interchange: SR-826 NW 17 Ave at SR-826 NB I-95 at NW 135 St Modify Interchange X X DT4283582 2 Golden Gladed Interchange: SR-826 NW 17 Ave at SR-826 NB I-95 at NW 183 St Modify Interchange X X DT4283582 2 Golden Gladed Interchange: SR-826 NW 17 Ave Golden Glades Interchange Managed Ianes X X DT4283583 2 Golden Gladed Interchange: I-95 Biscayne River Canal Miami Garden Dr Add 2 auxiliary Ianes X X DT4283583 2 Golden Gladed Interchange: SR-826 At I-95 New express lane ramps on I-95 X X DT4283583 2 Golden Gladed Interchange: SR-826 At I-95 New express lane ramps on I-95 X X | Corridor 4 | | 930 | 4 | SR-826 | NW 103 St | NW 154 St | Widen with Express lanes | | | Х | |
| 1273 3 Golden Gladed Interchange: SR-826 NW 17 Ave at SR-826 NB I-95 at NW 183 St Modify Interchange Modify Interchange X DT4283582 2 Golden Gladed Interchange: SR-826 NW 17 Ave Golden Glades Interchange Managed Ianes X X DT4283585 2 Golden Gladed Interchange: I-95 Biscayne River Canal Miami Garden Dr Add 2 auxiliary Ianes X X DT4283583 2 Golden Gladed Interchange: SR-826 At I-95 New express Iane ramps on I-95 X X TP126 2 Turneiko (Mainling) Calden Glades Interchange Add 20 muse ramps on I-95 X X | | Auto | 1272 | 3 | Golden Gladed Interchange | SB Turnpike | SB I-95 at NW 135 St | Modify Interchange | | | Х | |
| DT4283582 2 Golden Gladed Interchange: SR-826 NW 17 Ave Golden Glades Interchange Managed lanes X DT4283585 2 Golden Gladed Interchange: I-95 Biscayne River Canal Miami Garden Dr Add 2 auxiliary lanes X DT4283583 2 Golden Gladed Interchange: SR-826 At I-95 New express lane ramps on I-95 X DT4283583 2 Golden Gladed Interchange: SR-826 At I-95 New express lane ramps on I-95 X | | | 1273 | 3 | Golden Gladed Interchange: SR-826 | NW 17 Ave at SR-826 | NB I-95 at NW 183 St | Modify Interchange | | | Х | |
| DT4283585 2 Golden Gladed Interchange: I-95 Biscayne River Canal Miami Garden Dr Add 2 auxiliary lanes X DT4283583 2 Golden Gladed Interchange: SR-826 At I-95 New express lane ramps on I-95 X TP126 2 Turneike (Mainline) Colden Glades Interchange Colden Glades Interchange X | | | DT4283582 | 2 | Golden Gladed Interchange: SR-826 | NW 17 Ave | Golden Glades Interchange | Managed lanes | | | X | |
| DT4283583 2 Golden Gladed Interchange: SR-826 At I-95 New express lane ramps on I-95 X TP12C 2 Turneiko (Mainling) Colden Clades Interchange X | | | DT4283585 | 2 | Golden Gladed Interchange: I-95 | Biscayne River Canal | Miami Garden Dr | Add 2 auxiliary lanes | | | Х | 1 |
| | | | DT4283583 | 2 | Golden Gladed Interchange: SR-826 | At I-95 | | New express lane ramps on I-95 | | | X | <u> </u> |
| | | | TP126 | 3 | Turnpike (Mainline) | Golden Glades Interchange | | Add SB ramp capacity | | | X | <u> </u> |



| Corridor | Project Mode | | | Facility | From | То | Description | Scen. 1 | Scen. 2 | Scen. 3 | Scen. 4 |
|------------|-----------------------|---------|---|--|-----------------------------|------------------------------------|---|---------|---------|----------|---------|
| | Walk | NM65 | 2 | NW 103 St | W 28 Ave | W 24 Ave | Pedestrian Facility Improvements | | | | Х |
| | Walk | NM94 | 3 | W Okeechobee Road | NW 103 St | W 18 Ave | Pedestrian Facility Improvements | | | | Х |
| | | MDX110 | 3 | SR-836 (Dolphin) Managed Lanes | SR-821 (HEFT) | SR-826/SR-836 Interchange | Two new managed lanes within the ROW of SR 836 (Dolphin) | | | Х | |
| | | 927 | 3 | SR-826 (Palmetto) | NW 154 St | NW 17 Ave | Managed lanes | | | Х | |
| | | 929 | 4 | I-75 | SR-826 (Palmetto) | NW 170 St | Widen with express lanes | | | Х | |
| Corridor E | | 930 | 4 | SR-826 (Palmetto) | NW 103 St | NW 154 St | Widen with express lanes | | | Х | |
| Corridor 5 | Auto | 1200 | 4 | SR-826 (Palmetto) | SR-836 (Dolphin) | NW 103 St | Add 4 special use lanes | | | Х | |
| | Auto | MDX109 | 2 | SR-924 Gratigny West Extension | SR-826 (Palmetto)/I-75 | SR-821 (HEFT) | Extend SR-924 to SR-821 (HEFT) with connections to I-75 and SR-826 | | | Х | |
| | | H106 | 3 | I-75 Ramp | At NW 87 Ave | | Construct an off ramp from SB I-75 to SB W 28 Ave/NW 87 Ave | | | Х | |
| | | FP1028 | 2 | NW 12 St | NW 107 Ave | SR-826 (Palmetto) | Widening | | | | Х |
| | | FP1059 | 2 | NW South River Dr | NW 107 Ave | NW 74 Ave | Roadway and operational improvements | | | | Х |
| | | NP105 | 4 | NW 36 St | At NW 72 Ave (Milam Dairy) | | Grade separation of NW 36 St over NW 72 Ave | | | | Х |
| | Walk/Bike | NM94 | 3 | W Okeechobee Road | NW 103 St | W 18 Ave | Pedestrian Facility Improvements | | | | Х |
| | | H104 | 3 | SR-826 (Palmetto) | NW 138 St | NW 103 St/W 49 St | Add a braided off ramp to W 68 St/NW 122 St | | | Х | |
| | | 927 | 3 | SR-826 (Palmetto) | NW 154 St | NW 17 Ave | Managed Lanes | | | Х | |
| | | 930 | 4 | SR-826 (Palmetto) | NW 103 St | NW 154 St | Widen with Express lanes | | | Х | |
| | | 1200 | 4 | SR-826 (Palmetto) | SR-836 (Dolphin) | NW 103 St | Add 4 special use lanes | | | Х | |
| | | FP1020 | 2 | Medley Freight Access Roadway Improvements | US-27 (Okeechobee) | Medley | Bridge widening and canal improvements | | | | x |
| | | FP1015 | 2 | NW/12 Ave (Leleune) | IIS-27 (Okeechobee) | | Improve advance signage for intersection lane alignment | | | <u> </u> | × × |
| Corridor 6 | Auto | FP1013 | 3 | NW 72nd Ave (Milam Dainy) | Hislesh Expy | | Operational improvements | | | <u> </u> | × |
| | Auto | FP1022 | 3 | IS-27 (Okeechobee) | | | Improve access at intersection | | | <u> </u> | × |
| | | FP1072 | 3 | US-27 (Okeechobee) | SR-826 (Palmetto) | | Operational improvements | | | <u> </u> | × |
| | | EDOT250 | | US-27 (Okechobee) / SR-826Interchange | W 95 St | W 16 Ave | Ramp improvements | | | <u> </u> | × |
| | | 1001230 | 4 | 05-27 (Okechobee)/ 5K-620interchange | W 93 31 | 10,10,10 | | | | <u> </u> | |
| | | FP1018 | 2 | Medley Bridge/Canal Improvement Program | | | Improvements at; NW 121 Way, NW 116 Way, NW 105 Way, NW 79 Ave | | | | x |
| | | 1127 | 4 | US-27 (Okeechobee) | SR-826 (Palmetto) | SR 997 (Krome) | Operational/Capacity improvements with grade separated intersection | 1 | | | х |
| | | 1128 | 4 | NW 74 St | SR-826 (Palmetto) | FEC Intermodal Yard | Modify connector | | | | Х |
| | | NM49 | 2 | NE 2 Ave | NE 62 St | West Little River Canal/NE 84 St | Bicycle Facility Improvements | Х | Х | | Х |
| | D ¹ | NM60 | 2 | NW 22 Ave | NW 36 St | NW 111 St | Bicycle Facility Improvements / Road Diet | Х | Х | | Х |
| | ыке | NM61 | 2 | NW 2 Ave | NW 20 St | NW 79 St | Bicycle Facility Improvements | Х | Х | | Х |
| | | NM249 | 4 | Bike Boulevard Demonstration Project | NW 32 Ave/NW 41 St | NW 11 Ave/Little River Drive | Bike Boulevard Improvements | Х | Х | | Х |
| Corridor 7 | | MDT150 | 2 | 79 St Causeway (JFK Cwy) Enhanced Bus | Northside Metrorail Station | Miami Beach Convention Center | Improve/implement transit service | Х | Х | | |
| | Transit | MDT171 | 3 | NW 7 Ave Enhanced Bus | Downtown Miami | Golden Glades Interchange Terminal | Premium limited stop transit service | Х | Х | | |
| | | MDT283 | 2 | North Corridor (Biscayne) Enhanced Bus | Miami Downtown Terminal | Aventura Terminal | Incremental improvement on PTP corridor | Х | Х | | |
| | A | COM105 | 4 | NW 79 St/NW 81 St/NW 82 St | NW 13 Ct | Biscayne Bay | Capacity improvements | | Х | | Х |
| | Auto | PW180 | 4 | N. Miami Ave | NW 14 St | Miami City Limitis | Roadway improvements | | Х | | Х |



| Corridor | Project Mode | | | Facility | From | То | Description | Scen. 1 | Scen. 2 | Scen. 3 | Scen. 4 |
|------------|-----------------|-------------------|----------|----------------------------------|----------------------------------|----------------------------------|---|---------|---------|---------|---------|
| | | NM92 | 3 | NW 3 Court | NW 2nSt | NW 8 St | Pedestrian Facility Improvements | | Х | | |
| | Walk | NM91 | 3 | SW 117 Ave | SW 17th St | SW 8 St | Pedestrian Facility Improvements | | | | Х |
| | | NM68 | 2 | Miami River Greenway | NW 36 St | NW 12 Ave | Trail Improvements | | Х | | Х |
| | | NM79 | 3 | North Miami Ave | NW 17 St | NW 29 St | Bicycle Facility Improvements | | | | Х |
| | | NM154 | 4 | NW 22 Ave | SW 22 St | Airport Expyway/ SR -12 | Bicycle Facility Improvements | | | | Х |
| | | NM80 | 3 | North Miami Ave / NE 1st Ave | NW 5 St | NW 17 St | Bicycle Facility Improvements | | | | Х |
| | | NM76 | 3 | Tamiami Canal Road | West Flagler St | NW 7 St | Bicycle Facility Improvements | | | | Х |
| | Bike | NM88 | 3 | Tamiami Canal Road | SW 8 St | West Flagler St | Bicycle Facility Improvements | | | | Х |
| | | NM143 | 4 | SW 16 St | SW 107 Ave | SW 82 Ave | Bicycle Facility Improvements | | | | Х |
| Corridor 8 | | NM75 | 3 | S 13 St / Coral Way | SW 3 Ave | Brickell Ave | Bicycle Facility Improvements | | | | X |
| | | NM89 | 3 | NW 5 Ave | NW 4 St | NW 11 St | Bicycle Facility Improvements | | Х | | |
| | | NM103 | 3 | SW/NW 1 Ave | SW 2 St | NW 11 St | Bicycle Facility Improvements | | X | | 1 |
| | Transit | MDT103 | 2 | Dolphin Station Transit Terminal | West of SR-821 & N of NW 12 St | | PnR facility with kiss-and-ride 12 bus bays and 1000 parking spaces | | X | | |
| | Transie | COM107 | 2 | NW 20 St | | 1-95 | Roadway infrastructure improvements | | X | | |
| | | DW184 | <u> </u> | NW 14 St | Civic Center | 115-1 | Widen to 3 lanes and resurface | | X | | - |
| | Auto | | 4 | SP 826 Managod Lanos | | lust West of 27 Ave | Two now managed langs within the right of way of SP 826 | | ~ | v | + |
| | Auto | | 3 0 | SR-830 Wanaged Lanes | SR-820/SR-830 | SP 826/SP 826 Interchange | Two new managed lanes within the POW of SP 826 | | | × | + |
| | | 1200 | 3 | | SR-821 (HEFT) | NW 103 St | | | | X | |
| | | 1200 | 4 | | | | | | | Λ | |
| | | NM51 | 2 | Snapper Creek Trail "A" | K-Land Park / SW 88 St | SW /2 St | Irail Improvements | | | | X |
| | | NM52 | 2 | Snapper Creek Trail "A" | SW /2 St | SW 8 St / FIU | Irail Improvements | | | | X |
| | | NM70 | 2 | | Larry and Penny Thompson Park | | Irail Improvements | | | | X |
| | | NIVI91 | 3 | SW 117 AVE | | SW 8 SL | Pedestrian Facility Improvements | | | | × |
| | Walk | NIVI138 | 4 | SW 137 AVE | | SW 184 St | | | | | X |
| | | | 4 | SW 137 AVE | SW 132 St | SW 72 St | Dia de Cocility Improvements | | | | |
| | | | 4 | SW 137 AVE | SW 50 St | SW 8 SL | Bicycle Facility Improvements | | | | |
| | | NIVI144 NIM152 | 4 | SW 48 St | SW 117 AVE SW 298 St | SVV 82 AVE | Ricycle Facility Improvements | | | | |
| | | NIVI152 | 4 | SW 10 St | SW 200 St | SN-621 (HEFT) | Ricycle Facility Improvements | | | | |
| | Transit | MDT103 | - 4 | Transit | Dolphin Station Transit Terminal | West of SR-821 and N of NW 12 St | | | | x | |
| | Transie | TP107 | | SR-821 (HEET) | SB-874 (Don Shula) | Killian Pkwy | Widen to 10 lanes | | | X | |
| | | TP106 | - | SR-821 (HEFT) | SW 288 St | SW 137 Ave (Speedway) | Widen to 8 lanes | | | X | |
| | | TP102 | 3 | SR-821 (HEFT) | SW 137 Ave | SW 216 St | Widen to 8 Janes Include Express Janes portions of project length | | | X | - |
| | | TP100 | 3 | SR-821 (HEFT) | SW 312 (Campbell Dr) | SW 288 St | Widen to 6 Janes | | | X | |
| | | TP103 | 4 | SR-821 (HEFT) | SW 88 St (Kendall) | SW 40 St (Bird) | Transportation System Management and Operation (TSM&O) | | | X | |
| Corridor 9 | | FDOT130 | 4 | US-1 | SW 344 St (Palm) | | Grade separated overpass | | | ~ | X |
| | | FDOT129 | 4 | SW 152 St (Coral Reef) | SR-821 (HEFT) | US-1 | Add 2 lanes and reconstruct | | | | X |
| | | FP1024 | 2 | NW 107 Ave | NW 12 St | NW 74 St | Operational and capacity improvements where feasible | | | | X |
| | | HS100 | 3 | SW 162 Ave (Farm Life) | SW 312 (Campbell) | SW 328 (Lucy) | Add 2 lanes and center turn lane and reconstruct | | | | X |
| | | PW170 | 4 | SW 120 St | SW 137 Ave | SW 117 Ave | Add 2 lanes and reconstruct | | | | Х |
| | | PW168 | 4 | SW 137 Ave | US-1 | SW 184 St | Add 2 lanes and reconstruct | | | | Х |
| | Auto | PW107 | 3 | NW 107 Ave | 1,000 feet North of W 122 St | US-27 (Okeechobee) | Widen bridge over Miami Canal | | | | Х |
| | | PW110 | 4 | NW 107 Ave | NW 170 St | Broward County line | Extend NW 107 Ave to the County Line | | | | Х |
| | | PW130 | 3 | SW 107 Ave | Quail Roost Dr | SW 160 St | Add 2 lanes and reconstruct | | | | Х |
| | | PW133 | 2 | SW 127 Ave | SW 120 St | SW 144 St | Add 2 lanes and new 4 lane road construction | | | | Х |
| | | PW135 | 3 | SW 147 Ave | SW 184 St (Eureka) | SW 152 St (Coral Reef) | Add 2 lanes and reconstruct | | | | Х |
| | | PW136 | 3 | SW 152 Ave | US-1 | SW 312 St (Campbell) | Add 2 lanes and reconstruct | | | | Х |
| | | PW139 | 4 | SW 157 Ave | SW 8 St (Tamiami) | SW 42 St | Add 2 lanes and construct new 4 lane road | | | | Х |
| | | PW142 | 2 | SW 200 St | US-1 | Quail Roost Dr | Add 2 lanes and reconstruct | | | | Х |
| | | PW146 | 4 | SW 40 St | SW 157 Ave | SW 167 Ave | New 2 lane road construction | | | | Х |
| | | PW183 | 4 | SW 42 St | SW 162 Ave | SW 157 Ave | Add 2 lanes and reconstruct | | | | Х |
| | | PW185 | 4 | SW 104 St | SW 147 Ave | SW 137 Ave | Add 2 lanes and reconstruct | | | | Х |
| 方の | | | | | | | | | | | |

| Corridor | Project Mode | | | Facility | From | То | Description | Scen. 1 | Scen. 2 | Scen. 3 | Scen. 4 |
|-------------|-----------------|--------|---|---|-------------------------------|------------------------------|----------------------------------|---------|---------|---------|---------|
| | | NM106 | 3 | SR-9 Extension Frontage Road | NW 27th Ave | SR 9 Extension | Pedestrian Facility Improvements | Х | Х | | |
| | Walk | NM119 | 4 | NW 71 St | NW 32 Ave | NW 27 Ave | Pedestrian Facility Improvements | Х | Х | | |
| | Walk | NM129 | 4 | NW 167 St | NW 32 Ave | NW 27 Ave | Pedestrian Facility Improvements | Х | Х | | |
| Corridor 11 | | NM93 | 3 | NW 167 St | NW 27 Ave | NW 22 Ave | Pedestrian Facility Improvements | Х | Х | | |
| | Bike | NM249 | 4 | Bike Boulevard Demonstration Project | NW 32 Ave/NW 41 St | NW 11 Ave/Little River Drive | Bike Boulevard Improvements | Х | Х | | |
| | Transit | MDT237 | 4 | North Corridor (NW 27 Ave) BRT (excl ROW) | Miami Intermodal Center (MIC) | NW 215 St | Full bus rapid transit | Х | Х | | |
| | Auto | TP114 | 4 | SR-821 (HEFT) | NW 57 Ave (Red) | Turnpike (Mainline) | Widen to 8 lanes | | | Х | |



Appendix B. Scenario Heat Maps







Corridor 1. Scenario 1. Walk Accessibility Delta



Corridor 1. Scenario 1. Bike Accessibility Delta



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| Project Type |
|---------------------------------------|
| Bicycle/Pedestrian Improvements |
| Transit |
| Major Roads |
| Zero Worker MAZ |
| Difference in jobs accessible by bike |
| 1 - 132 |
| 133 - 380 |
| 381 - 724 |
| 725 - 1,194 |
| 1,195 - 1,771 |
| 1,772 - 2,419 |
| 2,420 - 3,247 |
| 3,248 - 4,399 |
| 4,400 - 6,192 |
| >6,193 |
| |





Corridor 1. Scenario 1. Transit Accessibility Delta



Corridor 1. Scenario 1. Auto Accessibility Delta



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| Bay |
|---------------------------------------|
| Project Type |
| Bicycle/Pedestrian Improvements |
| Transit |
| —— Major Roads |
| Zero Worker MAZ |
| Difference in jobs accessible by auto |
| 1 - 29 |
| 30 - 54 |
| 55 - 85 |
| 86 - 122 |
| 123 - 160 |
| 161 - 219 |
| 220 - 320 |
| 321 - 433 |
| 434 - 589 |
| >590 |
| |





Corridor 1. Scenario 2. Walk Accessibility Delta



Corridor 1. Scenario 2. Bike Accessibility Delta



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| Project Type |
|---------------------------------------|
| Bicycle/Pedestrian Improvements |
| Transit |
| Transit |
| ——— Major Roads |
| Zero Worker MAZ |
| Difference in jobs accessible by bike |
| 1 - 132 |
| 133 - 380 |
| 381 - 724 |
| 725 - 1,194 |
| 1,195 - 1,771 |
| 1,772 - 2,419 |
| 2,420 - 3,247 |
| 3,248 - 4,399 |
| 4,400 - 6,192 |
| >6,193 |
| |




Corridor 1. Scenario 2. Transit Accessibility Delta



Corridor 1. Scenario 2. Auto Accessibility Delta



| Project Type |
|---------------------------------------|
| Bicycle/Pedestrian Improvements |
| Transit |
| Transit |
| —— Major Roads |
| Zero Worker MAZ |
| Difference in jobs accessible by auto |
| 1 - 29 |
| 30 - 54 |
| 55 - 85 |
| 86 - 122 |
| 123 - 160 |
| 161 - 219 |
| 220 - 320 |
| 321 - 433 |
| 434 - 589 |
| >590 |
| |





Corridor 1. Scenario 4. Walk Accessibility Delta



Corridor 1. Scenario 4. Bike Accessibility Delta



| Project Type |
|---------------------------------------|
| Arterial/Collector |
| Bicycle/Pedestrian Improvements |
| Arterial/Collector |
| —— Major Roads |
| Zero Worker MAZ |
| Difference in jobs accessible by bike |
| 1 - 132 |
| 133 - 380 |
| 381 - 724 |
| 725 - 1,194 |
| 1,195 - 1,771 |
| 1,772 - 2,419 |
| 2,420 - 3,247 |
| 3,248 - 4,399 |
| 4,400 - 6,192 |
| >6,193 |
| |





Corridor 1. Scenario 4. Transit Accessibility Delta



Corridor 1. Scenario 4. Auto Accessibility Delta



| Project Type |
|---------------------------------------|
| Arterial/Collector |
| Bicycle/Pedestrian Improvements |
| Arterial/Collector |
| —— Major Roads |
| Zero Worker MAZ |
| Difference in jobs accessible by auto |
| 1 - 115 |
| 116 - 305 |
| 306 - 800 |
| 801 - 1,472 |
| 1,473 - 2,322 |
| 2,323 - 4,041 |
| 4,042 - 6,178 |
| 6,179 - 8,673 |
| 8,674 - 12,049 |
| >12,050 |
| |





Corridor 2. Scenario 1. Walk Accessibility Delta



Corridor 2. Scenario 1. Bike Accessibility Delta



| Project Type |
|---------------------------------------|
| Bicycle/Pedestrian Improvements |
| Transit |
| —— Major Roads |
| Zero Worker MAZ |
| Difference in jobs accessible by bike |
| 1 - 150 |
| 151 - 418 |
| 419 - 778 |
| 779 - 1,233 |
| 1,234 - 1,765 |
| 1,766 - 2,386 |
| 2,387 - 3,177 |
| 3,178 - 4,494 |
| 4,495 - 6,265 |
| >6,266 |
| |





Corridor 2. Scenario 1. Transit Accessibility Delta



Corridor 2. Scenario 1. Auto Accessibility Delta







Corridor 2. Scenario 2. Walk Accessibility Delta



Corridor 2. Scenario 2. Bike Accessibility Delta



| Project Type | |
|---------------------------------------|--|
| Bicycle/Pedestrian Improvements | |
| Transit | |
| Transit | |
| ——— Major Roads | |
| Zero Worker MAZ | |
| Difference in jobs accessible by bike | |
| 1 - 150 | |
| 151 - 418 | |
| 419 - 778 | |
| 779 - 1,233 | |
| 1,234 - 1,765 | |
| 1,766 - 2,386 | |
| 2,387 - 3,177 | |
| 3,178 - 4,494 | |
| 4,495 - 6,265 | |
| >6,266 | |
| | |





Corridor 2. Scenario 2. Transit Accessibility Delta



Corridor 2. Scenario 2. Auto Accessibility Delta







Corridor 2. Scenario 4. Walk Accessibility Delta



Corridor 2. Scenario 4. Bike Accessibility Delta



| Project Type |
|---------------------------------------|
| Arterial/Collector |
| Bicycle/Pedestrian Improvements |
| Arterial/Collector |
| ——— Major Roads |
| Zero Worker MAZ |
| Difference in jobs accessible by bike |
| 1 - 150 |
| 151 - 418 |
| 419 - 778 |
| 779 - 1,233 |
| 1,234 - 1,765 |
| 1,766 - 2,386 |
| 2,387 - 3,177 |
| 3,178 - 4,494 |
| 4,495 - 6,265 |
| >6,266 |
| |





Corridor 2. Scenario 4. Transit Accessibility Delta



Corridor 2. Scenario 4. Auto Accessibility Delta



| Project Type | |
|--------------|----------------------------------|
| | Arterial/Collector |
| - | Bicycle/Pedestrian Improvements |
| 0 | Arterial/Collector |
| | Major Roads |
| | Zero Worker MAZ |
| Diffe | rence in jobs accessible by auto |
| | 1 - 139 |
| | 140 - 289 |
| | 290 - 515 |
| | 516 - 998 |
| | 999 - 2,035 |
| | 2,036 - 4,085 |
| | 4,086 - 7,841 |
| | 7,842 - 15,289 |
| | 15,290 - 24,392 |
| | >24,393 |
| - | |





Corridor 3. Scenario 1. Walk Accessibility Delta



Corridor 3. Scenario 1. Bike Accessibility Delta



| Project Type | |
|---------------------------------------|--|
| Bicycle/Pedestrian Improvements | |
| Transit | |
| —— Major Roads | |
| Zero Worker MAZ | |
| Difference in jobs accessible by bike | |
| 1 - 68 | |
| 69 - 202 | |
| 203 - 397 | |
| 398 - 661 | |
| 662 - 1,006 | |
| 1,007 - 1,496 | |
| 1,497 - 2,069 | |
| 2,070 - 2,759 | |
| 2,760 - 3,659 | |
| >3,660 | |
| | |





Corridor 3. Scenario 1. Transit Accessibility Delta



Corridor 3. Scenario 1. Auto Accessibility Delta



| Рго | ject Type |
|-------------------------|-----------------------------------|
| - | — Bicycle/Pedestrian Improvements |
| - | 🗕 Transit |
| - | — Major Roads |
| $\overline{\mathbb{Z}}$ | Zero Worker MAZ |
| Diff | erence in jobs accessible by auto |
| | 1 - 128 |
| | 129 - 252 |
| | 253 - 430 |
| | 431 - 958 |
| | 959 - 2,078 |
| | 2,079 - 3,883 |
| | 3,884 - 6,249 |
| | 6,250 - 8,618 |
| | 8,619 - 12,051 |
| | ≥12,052 |





Corridor 3. Scenario 2. Walk Accessibility Delta



Corridor 3. Scenario 2. Bike Accessibility Delta



| Project Type |
|---------------------------------------|
| Arterial/Collector |
| Bicycle/Pedestrian Improvements |
| Transit |
| ——— Major Roads |
| Zero Worker MAZ |
| Difference in jobs accessible by bike |
| 1 - 68 |
| 69 - 202 |
| 203 - 396 |
| 397 - 661 |
| 662 - 1,006 |
| 1,007 - 1,450 |
| 1,451 - 1,989 |
| 1,990 - 2,619 |
| 2,620 - 3,626 |
| >3,627 |
| |





Corridor 3. Scenario 2. Transit Accessibility Delta



Corridor 3. Scenario 2. Auto Accessibility Delta



| Project Type |
|---------------------------------------|
| Arterial/Collector |
| Bicycle/Pedestrian Improvements |
| Transit |
| —— Major Roads |
| Zero Worker MAZ |
| Difference in jobs accessible by auto |
| 1 - 426 |
| 427 - 1,157 |
| 1,158 - 2,013 |
| 2,014 - 3,239 |
| 3,240 - 5,156 |
| 5,157 - 7,972 |
| 7,973 - 10,875 |
| 10,876 - 14,347 |
| 14,348 - 19,310 |
| >19,311 |
| |





Corridor 3. Scenario 4. Walk Accessibility Delta



Corridor 3. Scenario 4. Bike Accessibility Delta



| Project Type |
|---------------------------------------|
| Arterial/Collector |
| Bicycle/Pedestrian Improvements |
| —— Major Roads |
| Zero Worker MAZ |
| Difference in jobs accessible by bike |
| 1 - 88 |
| 89 - 265 |
| 266 - 516 |
| 517 - 824 |
| 825 - 1,197 |
| 1,198 - 1,717 |
| 1,718 - 2,286 |
| 2,287 - 2,959 |
| 2,960 - 3,958 |
| >3,959 |
| |





Corridor 3. Scenario 4. Transit Accessibility Delta



Corridor 3. Scenario 4. Auto Accessibility Delta



| Project Type |
|---------------------------------------|
| Arterial/Collector |
| Bicycle/Pedestrian Improvements |
| ——— Major Roads |
| Zero Worker MAZ |
| Difference in jobs accessible by auto |
| 1 - 174 |
| 175 - 425 |
| 426 - 1,067 |
| 1,068 - 2,314 |
| 2,315 - 4,591 |
| 4,592 - 8,980 |
| 8,981 - 16,203 |
| 16,204 - 24,199 |
| 24,200 - 35,603 |
| >35,604 |
| |





Corridor 4. Scenario 3. Walk Accessibility Delta



Corridor 4. Scenario 3. Bike Accessibility Delta







Corridor 4. Scenario 3. Transit Accessibility Delta



Corridor 4. Scenario 3. Auto Accessibility Delta



| Project Type | |
|----------------------------------|--------|
| Freeway | |
| Freeway | |
| —— Major Roads | |
| Zero Worker MAZ | |
| Difference in jobs accessible by | y auto |
| 1 - 1,264 | |
| 1,265 - 2,997 | |
| 2,998 - 4,999 | |
| 5,000 - 6,859 | |
| 6,860 - 9,308 | |
| 9,309 - 12,395 | |
| 12,396 - 16,450 | |
| 16,451 - 23,781 | |
| 23,782 - 32,978 | |
| >32,979 | |
| | |





Corridor 4. Scenario 4. Walk Accessibility Delta



Corridor 4. Scenario 4. Bike Accessibility Delta



| Project Type |
|---------------------------------------|
| Arterial/Collector |
| Bicycle |
| Pedestrian |
| —— Major Roads |
| Zero Worker MAZ |
| Difference in jobs accessible by bike |
| 1 - 27 |
| 28 - 75 |
| 76 - 142 |
| 143 - 233 |
| 234 - 352 |
| 353 - 521 |
| 522 - 757 |
| 758 - 1,135 |
| 1,136 - 1,751 |
| >1,752 |
| |





Corridor 4. Scenario 4. Transit Accessibility Delta



Corridor 4. Scenario 4. Auto Accessibility Delta



| Project Type |
|---------------------------------------|
| Arterial/Collector |
| Bicycle |
| Pedestrian |
| —— Major Roads |
| Zero Worker MAZ |
| Difference in jobs accessible by auto |
| 1 - 29 |
| 30 - 80 |
| 81 - 187 |
| 188 - 449 |
| 450 - 993 |
| 994 - 1,756 |
| 1,757 - 3,236 |
| 3,237 - 6,539 |
| 6,540 - 11,470 |
| >11,471 |
| |





Corridor 5. Scenario 3. Walk Accessibility Delta



Corridor 5. Scenario 3. Bike Accessibility Delta



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Corridor 5. Scenario 3. Transit Accessibility Delta



Corridor 5. Scenario 3. Auto Accessibility Delta



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| Proje | ect Type |
|-------|----------------------------------|
| _ | Freeway |
| | Major Roads |
| 1// | Zero Worker MAZ |
| Diffe | rence in jobs accessible by auto |
| | 1 - 1,060 |
| | 1,061 - 2,514 |
| | 2,515 - 4,751 |
| | 4,752 - 7,881 |
| | 7,882 - 12,400 |
| | 12,401 - 19,743 |
| | 19,744 - 28,661 |
| | 28,662 - 37,985 |
| | 37,986 - 49,085 |
| | >49,086 |





Corridor 5. Scenario 4. Walk Accessibility Delta



Corridor 5. Scenario 4. Bike Accessibility Delta



| Pro | oject Type |
|-----|------------------------------------|
| - | Arterial/Collector |
| - | — Bicycle/Pedestrian Improvements |
| C | Arterial/Collector |
| _ | — Major Roads |
| Z | 🗌 Zero Worker MAZ |
| Dif | ference in jobs accessible by bike |
| | 1 - 265 |
| | 266 - 746 |
| | 747 - 1,378 |
| | 1,379 - 2,330 |
| | 2,331 - 3,652 |
| | 3,653 - 5,589 |
| | 5,590 - 8,494 |
| | 8,495 - 12,884 |
| | 12,885 - 21,946 |
| | >21,947 |





Corridor 5. Scenario 4. Transit Accessibility Delta



Corridor 5. Scenario 4. Auto Accessibility Delta



| Proje | ect Type |
|---------------|--|
| - | Arterial/Collector |
| - | Bicycle/Pedestrian Improvements |
| 0 | Arterial/Collector |
| | Major Roads |
| $\overline{}$ | Zero Worker MAZ |
| Diffe | erence in jobs accessible by auto |
| | 1 - 114 |
| | 115 - 325 |
| | 326 - 891 |
| | 892 - 2,033 |
| | 2,034 - 3,472 |
| | 3,473 - 5,865 |
| | 5,866 - 10,465 |
| | 10,466 - 16,373 |
| | 16,374 - 23,877 |
| | >23,878 |
| - | |





Corridor 8. Scenario 2. Walk Accessibility Delta



Corridor 8. Scenario 2. Bike Accessibility Delta



| Pro | ject Type |
|-----|------------------------------------|
| _ | Bicycle/Pedestrian Improvements |
| | - Transit |
| 0 | Transit |
| _ | — Major Roads |
| 17 | Zero Worker MAZ |
| Dif | ference in jobs accessible by bike |
| | 1 - 98 |
| | 99 - 305 |
| | 306 - 642 |
| | 643 - 1,047 |
| | 1,048 - 1,509 |
| | 1,510 - 2,174 |
| | 2,175 - 3,037 |
| | 3,038 - 4,097 |
| | 4,098 - 5,996 |
| | 5,997 - 9,436 |





Corridor 8. Scenario 2. Transit Accessibility Delta



Corridor 8. Scenario 2. Auto Accessibility Delta



| Pro | ject Type |
|-----|------------------------------------|
| - | Arterial/Collector |
| - | Bicycle/Pedestrian Improvements |
| - | — Major Roads |
| 1 | 🗌 Zero Worker MAZ |
| Dif | ference in jobs accessible by auto |
| | 1 - 23 |
| | 24 - 48 |
| | 49 - 107 |
| | 108 - 246 |
| | 247 - 485 |
| | 486 - 906 |
| | 907 - 1,704 |
| | 1,705 - 2,858 |
| | 2,859 - 5,199 |
| | 5,200 - 9,200 |





Corridor 8. Scenario 3. Walk Accessibility Delta



Corridor 8. Scenario 3. Bike Accessibility Delta



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| Ster B |
|---------------------------------------|
| |
| |
| e Bay |
| |
| Project Type |
| Freeway |
| Major Roads |
| Difference in iche conceible bu bille |
| No Change |
| |





Corridor 8. Scenario 3. Transit Accessibility Delta



Corridor 8. Scenario 3. Auto Accessibility Delta



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| Project Type |
|---------------------------------------|
| Freeway |
| —— Major Roads |
| Zero Worker MAZ |
| Difference in jobs accessible by auto |
| 1 - 1,402 |
| 1,403 - 3,056 |
| 3,057 - 4,991 |
| 4,992 - 7,806 |
| 7,807 - 11,240 |
| 11,241 - 15,144 |
| 15,145 - 20,629 |
| 20,630 - 29,008 |
| 29,009 - 40,738 |
| 40,739 - 67,411 |





Corridor 8. Scenario 4. Walk Accessibility Delta



Corridor 8. Scenario 4. Bike Accessibility Delta



| Pro | oject Type |
|-----|------------------------------------|
| _ | Arterial/Collector |
| - | - Bicycle |
| - | — Bicycle/Pedestrian Improvements |
| _ | — Major Roads |
| 77 | Zero Worker MAZ |
| Dif | ference in jobs accessible by bike |
| | 1 - 133 |
| | 134 - 373 |
| | 374 - 683 |
| | 684 - 1,058 |
| | 1,059 - 1,515 |
| | 1,516 - 2,140 |
| | 2,141 - 3,010 |
| | 3,011 - 4,468 |
| | 4,469 - 6,751 |
| | 6,752 - 9,784 |





Corridor 8. Scenario 4. Transit Accessibility Delta



Corridor 8. Scenario 4. Auto Accessibility Delta



| Pro | oject Type |
|-----|------------------------------------|
| - | Arterial/Collector |
| - | - Bicycle |
| - | — Bicycle/Pedestrian Improvements |
| - | — Major Roads |
| 1 | 🗌 Zero Worker MAZ |
| Dif | ference in jobs accessible by auto |
| | 1 - 123 |
| | 124 - 277 |
| | 278 - 495 |
| | 496 - 828 |
| | 829 - 1,612 |
| | 1,613 - 3,333 |
| | 3,334 - 6,843 |
| | 6,844 - 12,873 |
| | 12,874 - 21,268 |
| | 21,269 - 39,681 |



Appendix C. Corridor Connectivity and Mobility Charts



Accessibility-Based Needs Assessment



Transit Connectivity Ratio by Corridor



Corridor Transit Access to Jobs score

- "X" Cong. : Uncong. ratio
- "Y" Defined Corridors







Auto Connectivity Ratio by Corridor

Accessibility-Based Needs Assessment





Downtown Miami average
 Countywide average
 Corridor Auto Access to Jobs score
 "X" Cong. : Uncong. ratio
 "Y" Defined Corridors



Appendix D. Corridor Summary Sheet Samples





CORRIDOR 1 / SCENARIO 1 WALK ACCESSIBILITY



IMPROVEMENTS INCLUDED IN CORRIDOR 1 / SCENARIO 1:

PEDESTRIAN

- M-Path GreenLink Trail Improvements from SW 67 Avenue to Mami River Greenway
- Commodore Trail Improvements from Darwin Street to Mercy Hospital
 - Snapper Creek Trail "B" Trail Improvements from SW 94 Avenue/K-Land Park to SW 57 Avenue

BICYCLE

10

1000

- SW 137 Avenue Bicycle Facility Improvements from SW 288 Street to SR-821 (HEFT)
 - SW 25 Road Bicycle Facility Improvements from Brickell Avenue to Corol Way
 - NW 344 Street Bicycle Facility Improvements from SW 192 Avenue to NW 6 Avenue
 Blue Road Bicycle Facility Improvements from SW 67 Avenue to SW 42 Avenue
- + S13 Street/Coral Way Bicycle Facility Improvements from SW 3 Avenue to Brickell Avenue

TRANSIT

Douglas Road Condor (SW 37 Avenue) Enhanced Bus – Incremental improvement on PTP conider fromUS-1 to Miami
Intermodol Center (MIC)

EQUITY

7,500

100%

ECON.

17,000

100%

CORRIDOR 3 / SCENARIO 2 TRANSIT ACCESSIBILITY



- NE 159 Street Add 2 Lanes and Reconstruct from NE 6 Avenue to West Dixie Highway
- NW 14 Street Widen to 3 Lanes and Resurface from Civic Center to US-1
CORRIDOR 5 / SCENARIO 3 AUTO ACCESSIBILITY



IMPROVEMENTS INCLUDED IN CORRIDOR 5 / SCENARIO 3:

ROADWAY

- SR 836 Managed Lanes from SR 821 (HEFT) to SR 826 / SR 836 Interchange
- SR 826 Managed Lanes from NW 154 Street to NW 17 Avenue
- SR 826 Widen with Express Lanes from NW 103 Street to NW 154 Street
- SR 826 Add 4 Special Use Lanes from SR 836 to NW 103 Street
- SR 924 Gratigny West Extension from SR 826/I-75 to SR 821 (HEFT)
- + I-75 Widen with Express Lanes from SR 826 to NW 170 Street
- + I-75 Off Ramp from SB I-75 to SB W 28 Avenue/NW 87 Avenue

MIAMI-DADE MULTIMODAL ACCESSIBILITY-BASED NEEDS ASSESSMENT

FEBRUARY 2018

PEPARED FOR:

Miami-Dade Transportation Planning Organization



PEPARED BY:





