



Message from the MPO Chair



Councilmember Bryan Caletka MPO Chair Davie

The Broward Metropolitan Planning Organization's (MPO) commitment is to move people and goods, create jobs, and strengthen communities throughout the Broward region. Through the recently-adopted *Commitment 2045* Metropolitan Transportation Plan (MTP), we have made great progress in planning transportation investments to help meet these goals.

Broward Vision: The Path to 2100 takes these efforts to the next level by laying out an unconstrained vision and advocating a paradigm shift to smarter growth, more strategic land use, and a more balanced multimodal transportation system.

Please join us in supporting this shift, which will put the Broward region on the right path to the year 2100.





Message from the MPO Executive Director

make the Broward Vision become a reality.

The MPO's vision has guided the region to be a vibrant hub for commerce while maintaining a unique balance that makes this region a great place to live, work, and play. The MPO has been at the forefront of the region's transformation and is ready to collaborate with its partners to face and solve the many challenges our region will face through the remainder of the 21st century.

Our Board, staff, and partners embrace change, and significant change is necessary to lead a paradigm shift away from "business as usual" to a profound commitment to targeting growth and investment that will reinforce the vision to which we aspire.

I invite you to join us in accepting the Call to Action outlined in this document and to work collaboratively with the MPO and its partners to

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Gregory StuartMPO Executive Director
Broward MPO

MPO Board of Directors

The voting members of the MPO Board are elected officials who represent the Broward County Board of County Commissioners, the 31 Broward municipalities, the South Florida Regional Transportation Authority (SFRTA), and the Broward County School Board. Below is the membership at the time of this publication.

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Broward Vision: The Path to 2100 is an aspirational vision conceived to facilitate a paradigm shift from the historical approach to growth, development, and transportation investments that are not achieving the desired outcomes for the community. With this vision, we are illustrating what that paradigm shift should look like and what the MPO and its partners can begin doing today to move the Broward region along the desired path to the year 2100.

STARTED Plan (Strategic Transportation and Regional Transit Economic Development Plan) – provides the history of how the MPO and its plans have evolved over the past four decades to where the MPO is today.

Commitment 2045 Metropolitan Transportation

Plan (MTP) - the 25-year transportation plan identifies and prioritizes transportation improvements that can be funded with resources projected to be available from 2020 through 2045. The MTP provides the policies and strategies to guide all other activities of the MPO.



The Broward MPO's commitment to the Broward region is communicated through three key planning documents.

THE PERSON NAMED IN

Broward Vision: The Path to

2100 – describes and illustrates the vision for Broward in 2100, intended to be aspirational, identifying and illustrating opportunities that leverage new and emerging technologies to increase transportation options, resiliency, and quality of life.







Our Challenges



Growing Population - We are the 5th largest metropolitan area in the US and adding 1,000 residents per day.



Changing Climate – Sea-level rise and severe weather events must be addressed in Resiliency Plans.



Increasing Cost of Transportation and Housing – On average, 63% of income is spent on housing and transportation in Broward County.



Restricted Revenue – 93% of MPO transportation revenues have little flexibility in how they are allocated to transportation projects (mostly roadway improvements).



Limited Access - We need to change our development patterns to a denser, smartgrowth approach that is more cost-efficient for infrastructure and generates more tax revenue.



Funding Shortfall - The cost of multimodal transportation needs in the three-county region exceeds funding by an estimated \$7 billion between today and 2045.

Why Vision 2100?

Why do we need such a long-term vision? The reality is that we as a community and region have had limited success in responding to the challenges indicated above. The *Broward Vision* provides an opportunity for the MPO and its partners to take a more proactive approach to how we plan and manage growth and transportation investments.

Collaboration—We Must Work Together

The MPO must collaborate with its partners throughout the Broward region to proactively plan for and respond to these challenges and work together on *The Path to 2100*.































Move People & Goods



Create Jobs



Strengthen Communities



• 3 goals

- 6 outcomes
- 1 Call to Action in three areas





Mobility



Accessibility



Safety



Equity



Resiliency



Economic Vitality





Policy



Funding



Commitment

What We 3
Want for the
Broward Region

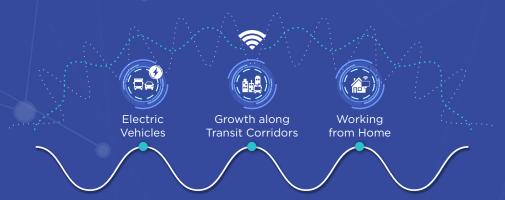




The MPO uses Scenario Planning to evaluate the best ways to respond to extreme issues. What we learn from these scenarios is then applied to develop long range plans that offer the best features from each scenario.

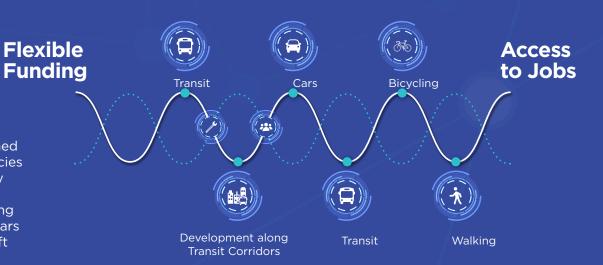
MTP Scenario Planning

We learned from this exercise how important implementing autonomous and connected vehicle technology and an electric vehicle fleet are to improving congestion, safety, and air quality. Additional advances in technology that enable more people to work from home enhance these benefits. We also learned the significance of focusing growth on transit corridors for improved accessibility to jobs.



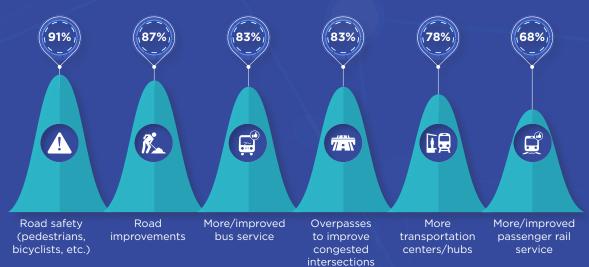
Regional Transportation Scenario Planning

The scenarios for the 2045 Regional
Transportation Plan (RTP) are focused on
investment and growth policies. What we learned
from the RTP scenarios is that changes in policies
that (1) allow for more flexible use of roadway
funding for transit and other improvements
and (2) focus growth and development along
transit corridors would shift people from cars
to transit, bicycling, and walking. This shift
allows for more accessibility to jobs.



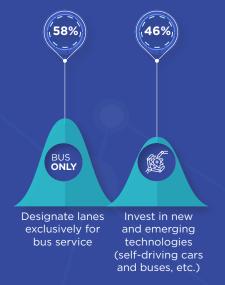
Safety is our #1 priority, followed by various roadway and public transportation investments.

Priority Transportation Improvements



Exclusive bus lanes and technology integration are growing in popularity, especially with the younger generation.

Good Ideas



We have work to do to increase the awareness of the Broward MPO and Broward Vision: The Path to 2100.





Survey of 503

Randomly-Selected Registered Voters in

Broward County (November 2018)





New and Different Approach

We need a new and different approach—a paradigm shift in our approach to how we move people and goods, create jobs, and strengthen communities.



Leaving a Legacy

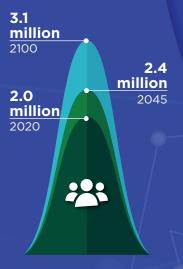


Projected Population Growth

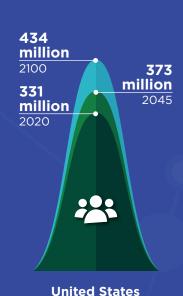
Most of the Broward region developed following World War II in the age of the automobile. In addition, development of the western communities in Broward occurred predominantly in the 1990s. As a result, our land use patterns make travel by car the most convenient option. Our existing development pattern, which focuses on large areas of single uses such as residential subdivisions, office parks, or commercial strip centers, are a challenge to overcome.

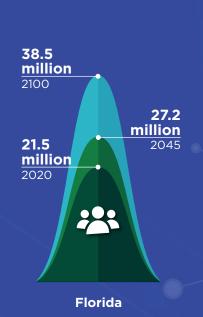
If we want to continue to thrive economically, we need to change these patterns in the areas of our region that we want to grow. Large office parks and commercial strip centers can be redeveloped as mixed-use areas that combine housing with supportive retail and job opportunities.

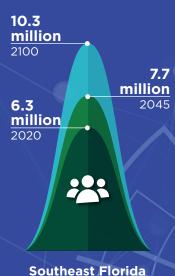
Growth will be limited by the availability of supporting infrastructure, including transportation facilities, potable water, and sanitary sewer. Thus, growth should be focused along corridors that are identified for premium transit investment and in communities that are willing and able to invest in additional capacity for water and sewer systems.











Living, Working, =



Land Use and Urban Design

To accommodate the anticipated growth through the year 2100, communities desiring growth must adjust their land development codes to allow for high-density residential with complementary land uses. A key component of these changes is parking requirements. Changes in automobile use and ownership and improvements in transit services are needed to make it possible for areas to redevelop and accommodate the needed residential and non-residential uses.

These changes to our development pattern must consider our tropical environment and what makes it an attractive place to visit and live. We must encourage green spaces where people can enjoy the weather and sunshine. We can also continue to protect the natural environment by ensuring that growth does not adversely impact environmentally sensitive areas.





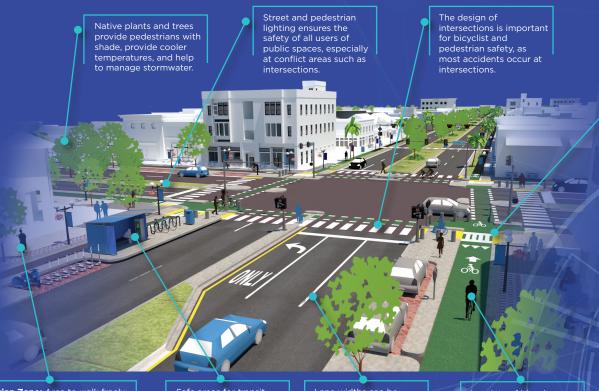
Complete Streets

Design for the Needs of Transportation Users

Consistent with national best practices, transportation facilities can be designed to meet the needs of their anticipated users. FDOT's context classification system describes the general characteristics of the land use, development patterns, and roadway connectivity, all of which help identify the likely users of the transportation facility (pedestrians, transit riders, auto and truck drivers, etc.). Designing accordingly helps ensure safe and comfortable travel for the anticipated users.

Paradigm Shift Requires New Transportation Design

In our pursuit of the *Broward Vision*, we must change land use and development patterns and fully integrate new and emerging technologies. As a result, we must be mindful of the implications that these changes will have for the design of transportation facilities in the future.



Complete Streets are designed to be compliant with the Americans with Disabilities Act (ADA).

Pedestrian Zone: Area to walk freely.

Furnishing Zone: Provides a buffer for pedestrians.

Frontage Zone: Area that is inviting to pedestrians; street cafes and store fronts are found in this zone.

Safe areas for transit riders to wait that provide comfortable facilities such as shelters.

Lane widths can be reduced, and the same number of cars can travel through the area, causing no changes for the driver. A variety of bicycle facilities can be incorporated in Complete Streets designs. Living, Working, & Playing

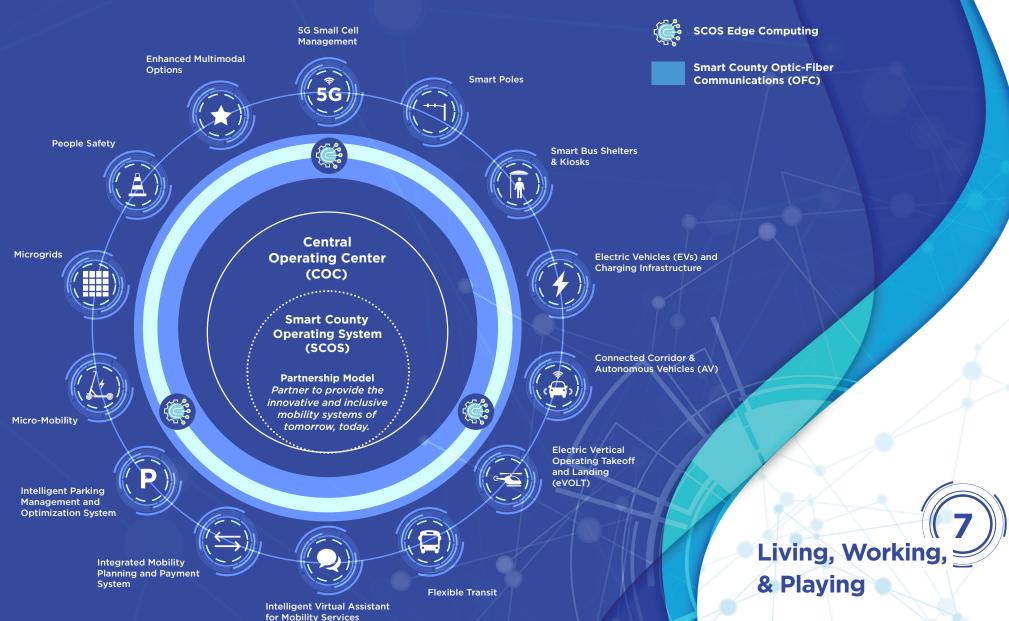






Smart Cities/Smart Corridor Strategies

The Broward Smart Corridor Strategy includes a suite of smart solutions that address the current and future needs faced by Broward County.







Harden infrastructure, such as raising roadways prone to flooding or burying power lines to make them less susceptible to hurricanes and wind damage.

Resiliency

Resiliency has many different meanings. We can be resilient to changing economic conditions as well as to sea-level rise and other changes in our climate. Given that our economy is based on tourism, our ability to plan for sea-level rise and climate change helps sustain our economic base. We have made substantial investments in buildings and infrastructure that we need to protect from changing conditions. We may find that some investments are not worth preserving, whereas others may warrant preservation regardless of the financial burden. Some examples of actions we can take to become more resilient including the following:



Increase the availability of sidewalks, bicycle lanes, multiuse paths, and other more sustainable transportation options.



Advance water management strategies and infrastructure improvements to mitigate the potential adverse impacts of climate change and sea level rise on water supplies, water and wastewater infrastructure, and water management systems.



Elevate transit systems to ensure continued operations during periodic or longer-term flooding.

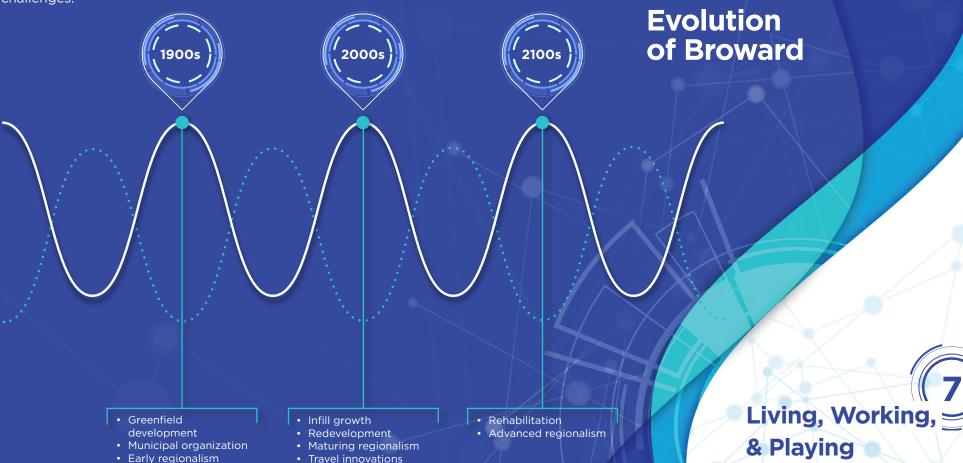


Revise building codes to ensure that new development in areas impacted by sea-level rise is constructed to withstand storm surge by raising the level of habitable space or requiring "breakaway" first floors.



Community Partnership

The opportunities and challenges facing Broward require us to adjust our current approach. Traditionally, each jurisdiction provides its own services or cooperates with neighboring jurisdictions to provide those services. Opportunities such as autonomous and connected vehicles and focusing growth along transit corridors requires a greater degree of cooperation among all partners. Similarly, addressing the challenges of sea-level rise and climate change cannot be addressed by individual communities and requires a broader effort that expands beyond the Broward region. Entities such as the Southeast Florida Climate Change Compact already provide opportunities for cooperation, collaboration, and guidance. As we move toward 2100, we must examine all existing agencies and partnerships, and determine if there are ways to optimize them to effectively and efficiently address our opportunities and challenges.



 Automobile ascendance



Mobility of the Future— What Could Transportation Look Like in 2100?



Limitless Power (Fusion Power)

As the vehicle fleet continues to electrify, the potential to shift to cleaner, cheaper sources of energy is crucial. This shift can eliminate carbon from our transportation system, significantly lower the cost of energy, and ultimately lower the cost of mobility.



Ultimate Storage (High-Capacity Batteries)

As the vehicle fleet continues to electrify, technologies that shorten charging time, increase energy density, and increase battery life are likely to accelerate the adoption of electrified mobility. Advances in energy storage are essential for the adoption of renewable power sources such as wind, solar, and tidal, helping to balance the power distribution of these sources to accommodate fluctuation in generation and demand while delivering consistent energy to the transportation sector.



Exponential Processing (Quantum Computers)

The effect of this technology on our world within 80 years is difficult to predict. Most analysts believe it will accelerate discoveries in cryptology, material sciences, medicine, physics, climatology, and many other scientific fields. For transportation, it could advance Artificial Intelligence (AI) and automation but also be used to optimize our transportation system by allowing every trip to be coordinated across regions, producing the best possible results for individual trips, for congestion, and for the overall function and management of the entire system.



Artificial General Intelligence (AGI)

AGI is a key technology that facilitates the move to fully-automated transportation. The ability to not only sense the environment, but to make sense of the environment, is critical. Autonomous vehicles today can react to objects in their path but do not necessarily understand the reason for their presence, nor their intent. AGI potentially could solve this hurdle. For example, if a ball rolls across the road, a vehicle could react and stop for the ball. But AGI could recognize that the ball is associated with kids playing and that there may be a child following the ball soon after.



Exponential Growth in the Transportation Industry

Progress in technology tends to happen at an exponential rate, and when considering a timescale of 80 years, it is critical to understand exponential growth and what it means for understanding the future of technology.

At its simplest, exponential growth is the periodic doubling of a quantity within a given time increment. This type of growth is deceptive, as it may start small and appear to be making little progress. But once the growth hits what's called the "knee" of the curve, the doubling effects produce tremendous growth in a relatively short amount of time. It is through the lens of exponential growth that we should view the future of technology and transportation to the year 2100. Today's trends that may seem linear are likely to be exponential, and growth in capabilities that may seem unimaginable within 80 years are likely to result in an underestimation of what will actually happen.



The future is automated.

Full vehicle automation will enable vehicle navigation and operation without assistance from a human driver or operator.

Where Are We Heading?



The future is electric.

Simply put, the electrification of the vehicle fleet displaces traditional internal combustion engines in favor of electric motors powered by batteries, ultra-capacitors, or hydrogen.



The future is connected.

Being connected gives us the ability to communicate information in real time between vehicles, infrastructure, users, and any other component critical to transportation and mobility.







Mobility Ecosystem

Emerging Modes



Micromobility

As a solution to the first/last-mile challenge, shared scooters and bicycles (human-powered or electric, docked or dockless) are rising in popularity in dense urban areas. In 2018, people made 84 million trips using shared micromobility in the US, more than double the number of trips in 2017.



Working from Home/ Virtual Meetings

Working from home and meeting virtually has increased in recent years and is proving to be a critical part of mitigating the spread of COVID-19. This strategy is undoubtedly an important part of the future mobility ecosystem.



Air Travel

Technological advancements are not limited to ground transportation. Commercial airline companies are investing in the research and development of electric and autonomous aircraft and windowless airplanes.



Delivery & Shipping

With a dramatic shift to online shopping, companies are incorporating new delivery methods, including drones, droids, and driverless vehicles. In the US, the value of drone activity spiked from \$40 million in 2012 to about \$1 billion in 2017. By 2026, it is estimated that commercial drones will have a \$31-\$46 billion annual impact on the country's GDP.



Robotics

Integration of and investment in robotic technology in vehicles is at the forefront of the shift in transportation. Self-driving technology will present a \$556 billion market by 2026, growing at a 39% annual growth rate from \$54 billion in 2019.

High-Speed Travel

Though the technology has yet to be implemented, research is currently being conducted on the feasibility of the construction and operation of "hyperloops," which consists of pods carrying passengers through tubes outfitted with magnetic accelerators.



Smart Streets and Dynamic Pricing

What is a smart street? Smart streets are designed for everyone to use and can include automation and electrification. They are created with all users in mind, including pedestrians, cyclists, motorists, and transit riders of all ages.



Automation – Vehicular automation and the use of artificial intelligence are the wave of the future. Smart streets must be able to accommodate these vehicles in a safe and economic manner.



Electrification – Electric vehicles are replacing traditional combustion engines. These vehicles are more eco-friendly, safer, and have lower maintenance costs. Electric vehicles create minimum noise pollution and have travel costs as little as 3¢ per mile.

Why have smart streets?

- Diversity of use by time of day
- Peak-hour exclusive lanes
- Real-time adaption

What is dynamic pricing?

The concept is to vary the price to manage and spread traffic congestion throughout the day. This approach also supports a "distance-based fee" to help sustain the transportation system.

What Will Streets Look Like in 2100?

How can dynamic pricing be used?

- Toll facilities
- Managed lanes
- Arterial managed lanes

 Signs display costs well before the toll road entrance

Sensors along the road monitor traffic volume

Dynamic Tolling

Prices adjust up or down according to

Moving People & Goods



Moving People & Goods **Existing Transit Service Transit Vision Proposed Stations** Beach Trolley System to System Station Express Bus Commuter Rail (Tri-Rail) Express Bus Coastal Link Station Station (Tri-Rail) Fixed Guideway (<50%)</p> Intermodal Center

Transit Vision 2100

Imagine a future in which every resident and visitor in the Broward region has access to:



Frequent transit service (every 5 minutes in the peak hours) serving destinations throughout the Broward region (24 hours per day, 7 days per week)



Autonomous electric vehicles operating at higher speeds in exclusive lanes



Autonomous electric circulators operating in neighborhoods and downtowns



Smart Mobility Hubs served by a network of transit services in which all transit vehicles are electric



Convenient rail transit using stateof-the-art technologies of the future



Technology corridors in which infrastructure investments are made to accommodate Autonomous, Connected, Electric, and Shared (ACES) transportation technologies



Traveling in Smart Cities and on Smart Streets where technologies are coordinated and optimized for efficient, fast, and convenient transportation

Transit Vison Technology

ACES Corridor

- Fixed Guideway (>50%)
- Automated Fixed Guideway
- Autonomous Community Circulator
- Commuter Rail (Coastal Link)
- SMART Plan (North Corridor)

Systems Management & Safety

As we move towards 2100, we can achieve greater efficiency from our transportation system. Automation, smart streets, and dynamic pricing can lead to greater achievements in systems management and safety.

Other strategies, such as car-sharing where individuals no longer own a single car but instead share ownership of that car with others, can greatly increase system efficiency, resulting in fewer single-occupant vehicle trips. The change in car ownership is possible once fully-automated (self-driving) cars are available to the broader market. These outcomes present opportunities and challenges for system management and safety.



Automated vehicles that are able to connect to each other can improve safety by reducing, if not eliminating, crashes.



Dynamic pricing limits the number of personal vehicles able to use congested facilities, thereby modifying people's travel behavior, resulting in greater use of transit, telecommuting, and/or adjusted travel periods (e.g., not during the peak travel periods of 6:00-9:00 am and 4:00-6:00 pm).



Smart Streets will communicate with these automated and connected vehicles to alert drivers of changing road conditions such as congestion and offer alternative routing options that can save time.







Moving Freight

The evolution of the internet has changed the way most of us get our durable goods. Instead of visiting a retail location, we shop online and merchandise is delivered, from groceries to furniture and appliances. This results in more deliveries in residential areas, necessitating smaller freight vehicles.

As we move towards 2100, freight vehicles will be replaced by delivery drones when appropriate. To achieve this future, distribution centers will become fulfillment centers and be located in major metropolitan areas, especially to meet same-day delivery needs. For goods that cannot be delivered by drones, more emphasis will be needed on curb management to ensure that goods can be delivered without creating additional congestion. Long-haul goods movement will evolve to rely on autonomous and connected vehicles that will enhance safety and efficiency.



Land Use, Density, & Multimodal Transportation Investment

As a community, we must do a better job of coordinating transportation and land use throughout the Broward region. Key concepts that we must follow include the following:



Community Land Use and Growth Objectives Support land use, growth, and multimodal transportation investment objectives of our communities.



Corridor and Activity Center Investments Reinforce multimodal transportation and corresponding infrastructure investments along corridors and within activity centers targeted for dense population and employment growth.



Multimodal Transportation Investment

Leverage and support multimodal transportation investments in communities that plan and prepare for growth and high-density development.



Collaboration with Partners

Work collaboratively with FDOT, Broward County, the 31 municipalities, and other MPO agency partners to target multimodal transportation investments consistent with the above.



Moving People & Goods



There is a solution, but it isn't wider roads—it's a different system.

New policies are needed to lay the foundation for improving access, equity, and mobility throughout Southeast Florida, and ultimately make alternative modes more attractive to residents and visitors. The following critical issues for the Broward Region can be addressed through new/revised policies:



Regional Transit System -

Investing in a well-connected, high-capacity transit system doubles access to places and triples transit ridership.



New Revenue Sources - To build our multimodal transportation system, we need to invest in it at all levels (Federal, State, local, and private).



Complementary Land Use -

High-capacity transit investment requires complementary land uses and first/last-mile connections to maximize their value.



New and Emerging Technologies

- We need to be smarter, more innovative, and more proactive in integrating new and emerging technologies.



Shifting Existing Resources to Multimodal Transportation

- Shifting current spending in Florida can create a \$9 billion investment opportunity for multimodal transportation rather than roads.



Regulatory Framework -

We need a regulatory framework to manage future seamless freight, transit, and personal mobility. In addition, we must evaluate transportation investments based on measures of accessibility and not solely on vehicle congestion.



UNCHANGED FUTURE



ALTERNATIVE FUTURE





Call to Action

To advance our transportation investment and policy priorities, the MPO adopted a Call to Action as part of *Broward Vision: The Path to 2100*. The Call to Action is organized into three key areas—Policy, Funding, and Commitment.





Support Community Growth - Support land use, urban design, and economic development policies that reinforce the *Broward Vision* and respond to Broward communities and their priorities for growth and quality of life (from communities that desire high growth and density to suburban and rural communities that have different lifestyle objectives).



Support Smart Growth and Complete Streets – Support communities throughout the Broward region with smart growth and Complete Streets principles that reinforce their respective growth and development objectives.



Align Transportation Investments - Match appropriate multimodal transportation investments with land use, development character, and anticipated users of the resulting transportation facilities and services.



Support Resiliency - Conduct resiliency studies, adopt applicable policies, and implement resulting projects and mitigation measures in collaboration with Broward County and its 31 municipalities.



Advance New and Emerging
Technologies - Demonstrate and
advance new and emerging
technologies, such as Smart Cities,
Smart Streets, ACES vehicles,
and dynamic pricing, among
others.



Support Regional Policies - Support policies and recommendations of the 2045 Regional Transportation Plan.









Align Funding Policy - Align transportation funding policy with the needs and vision for the Broward region.

- Correct Funding Imbalance Correct the imbalance between local priorities and State funding policy that emphasizes roadway capacity projects over multimodal investments.
- Implement New Local Revenues Explore opportunities and implement new local revenue sources to support unfunded multimodal transportation needs.



Complement Existing Investments - Maximize allocation of transportation funding to complement existing investments in the region.

- Match Funding with Policy Use the six MTP funding programs for projects that match transportation investments with MPO Board policy direction and the overall Broward Vision for 2100.
- Optimize Funding Allocation Maximize the impact of funding controlled by the MPO to complement and optimize other transportation funding sources, such as the County's Mobility Advancement Program (1% transportation surtax approved by referendum in November 2018) and FDOT transportation funding.



Target Transportation Investment - Leverage and support multimodal transportation investments in communities that plan and prepare for growth and high-density population and employment. To reinforce this call to action, identify and implement public-private partnerships (P3) to further leverage multimodal transportation investments.



Focus on Corridor-Based Investment - Pursue multimodal transportation and corresponding infrastructure investments along corridors and within activity centers targeted for dense population and employment growth.





Commitment



Work Collaboratively - Work collaboratively and proactively with FDOT, Broward County, the 31 municipalities and other MPO agency partners to deliver projects quickly and efficiently.



Inspire Business and Community Leadership

- Involve business and community leadership in collaborating and inspiring a paradigm shift to a new way of doing business—one that supports the *Broward Vision*.



Secure MPO Commitment and Champions

- Secure MPO commitment to the Broward *Vision 2100* Call to Action and identify public and private champions for advancing the cause.



Establish a Vision 2100 Blue Ribbon

Committee - Establish and convene a Broward Vision 2100 Blue Ribbon Committee (elected officials and stakeholders throughout the Broward region) to lead the development and execution of a more-detailed Call to Action Plan, with specific action items, responsibilities, and milestone dates.



Secure MPO Partner Commitment - Secure resolutions of support for the Broward *Vision 2100* from MPO partners (Broward County, municipalities, and other partner agencies).



Encourage Communication and Education -

Ensure that member governments are working with elected representatives and the public during the identification and prioritization of transportation projects.



VISION 2109





The Path to 2100

A true paradigm shift in how we plan and prepare for the future is difficult and challenging. By adopting Broward Vision: The Path to 2100, the MPO is identifying themes, policies, and a Call to Action to help lead this paradigm shift and put the Broward region on a sustainable path to 2100.

Leaving a Legacy

This is our opportunity to establish a lasting legacy—to think, plan, and grow differently than we have in the past. In 2100, we want our successors to look back and think "Wow, what we've accomplished truly began in 2020 with Broward Vision: The Path to 2100."

Join Us and Accept the Call to Action

Please join us in accepting the Call to Action outlined in the Broward Vision and working collaboratively with the MPO and its partners to make the Broward Vision become a reality.

Acknowledgments

Thank you to the MPO Technical, Citizens, and Freight Advisory Committees for their review and contributions.

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Senior City Transportation Planner

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GIS Data Planner

Fazal Qureshi

Transportation Engineering Project Manager **Christopher Restrepo**

Systems Planning Principal Planner

Marcus Richards II

Senior City Transportation Planner

Andrew Riddle

Surtax Services Manager

John Robertson

Chief Financial Officer

Buffy C. Sanders II

Livability/Mobility Program Principal Planner

Rebecca N. Schultz

Boards Coordinator

Levi Stewart-Figueroa

Senior City Transportation Planner

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Lydia Waring

Purchasing & Procurement Manager

Veleta Williams

Accounting Manager

Alan Gabriel

General Counsel



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