



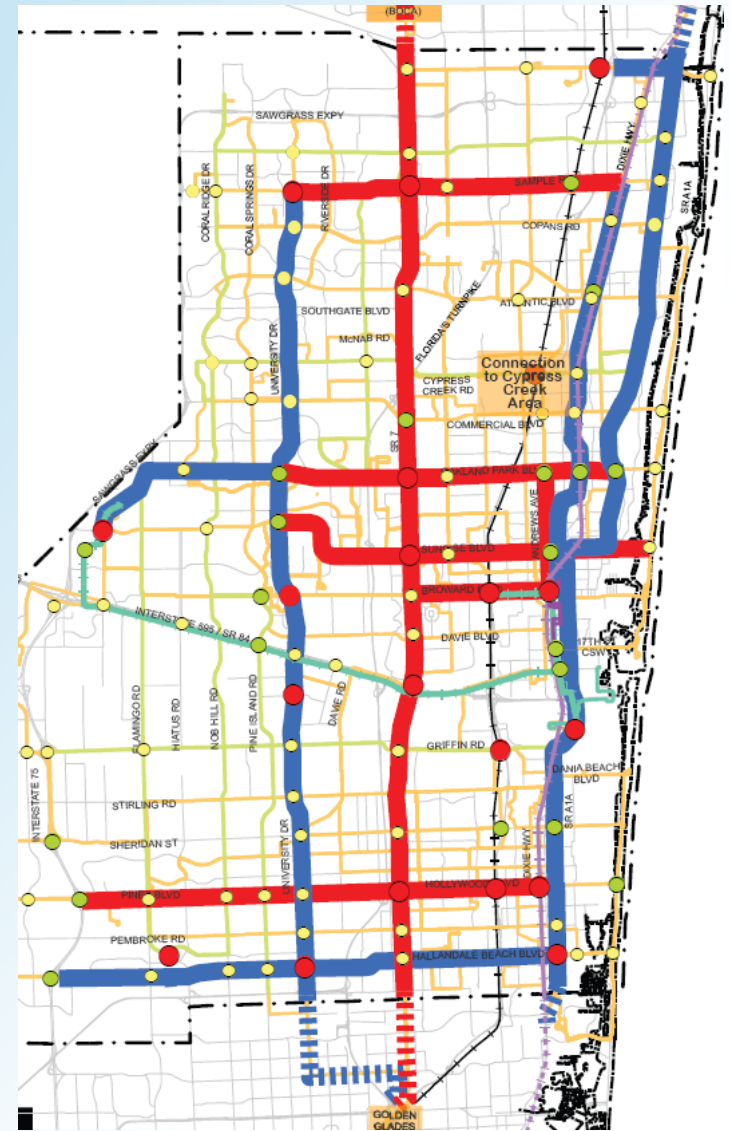
University Drive Mobility Improvements Planning Study

Public Workshop Presentation
June 25, 27 and July 9, 2013



Why We are Doing This Study

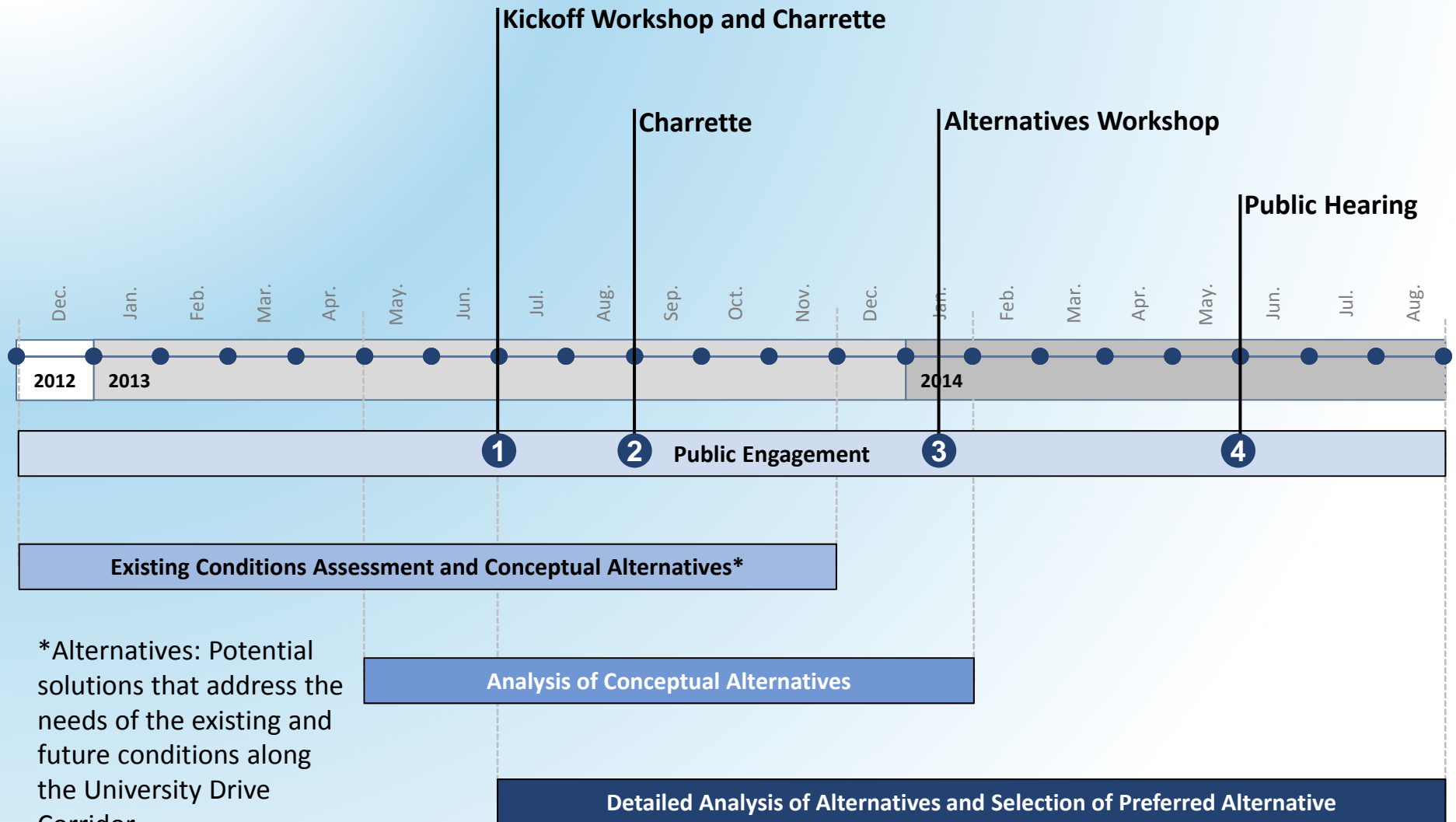
- University Drive has experienced steady growth over last 20+ years
- Identified as Premium Transit Corridor in 2035 Broward Transformation LRTP
- Served by Mobility Hubs identified in 2035 Plan
- Received a Transit Study Grant from the Federal Transit Administration (FTA) in 2011



Study Partners

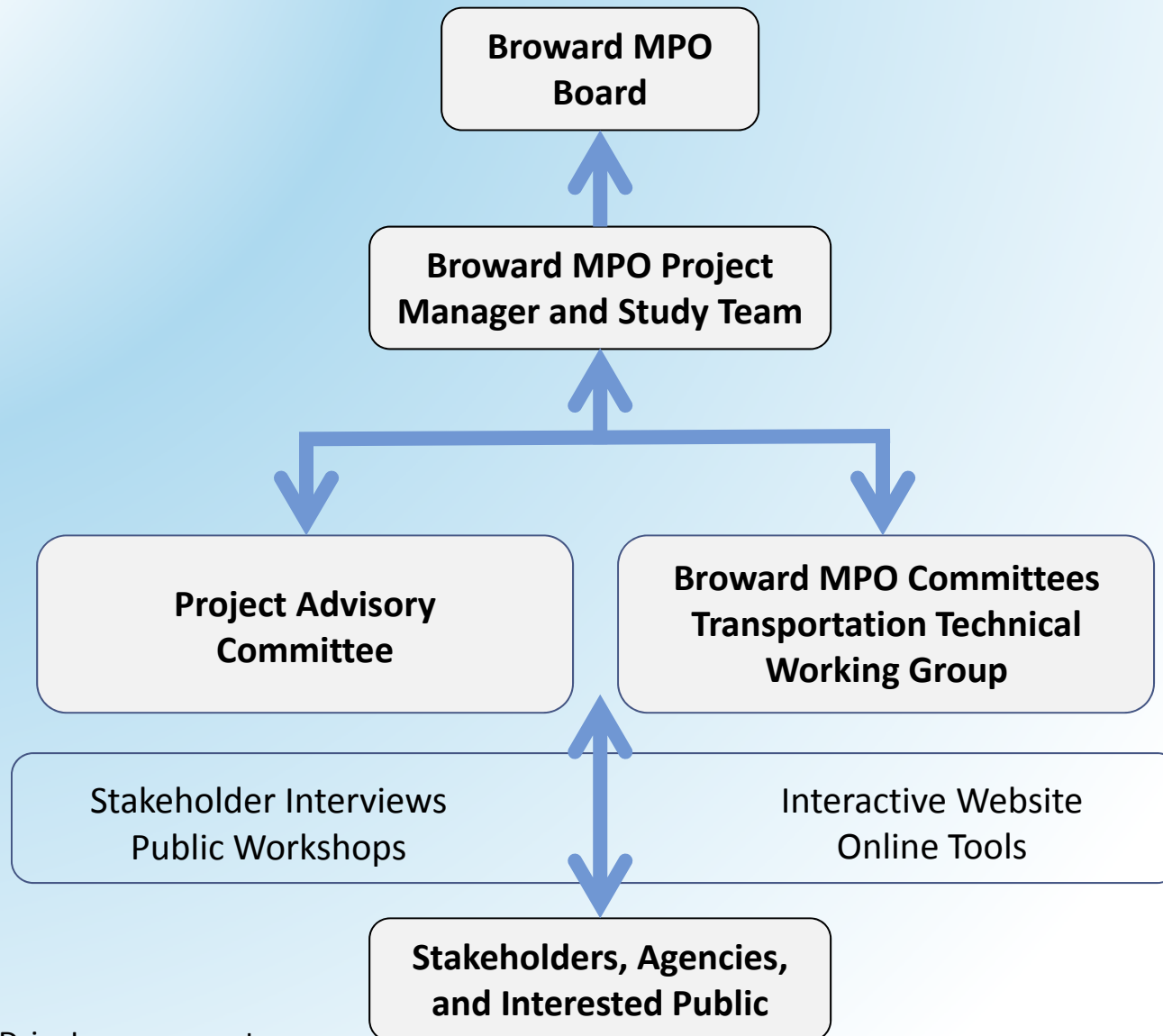
1. Broward Metropolitan Planning Organization
2. Florida Department of Transportation
3. Federal Transit Administration
4. Broward County
5. Broward County Transit
6. Broward County Planning Council
7. South Florida Regional Planning Council
8. Miami-Dade Transit
9. City of Cooper City
10. City of Coral Springs
11. Town of Davie
12. City of Hollywood
13. City of Lauderhill
14. City of Margate
15. City of Miami Gardens
16. City of Miramar
17. City of Parkland
18. City of Pembroke Pines
19. City of Plantation
20. South Florida Education Center Transportation Management Association
21. City of Sunrise
22. City of Tamarac

Study Schedule

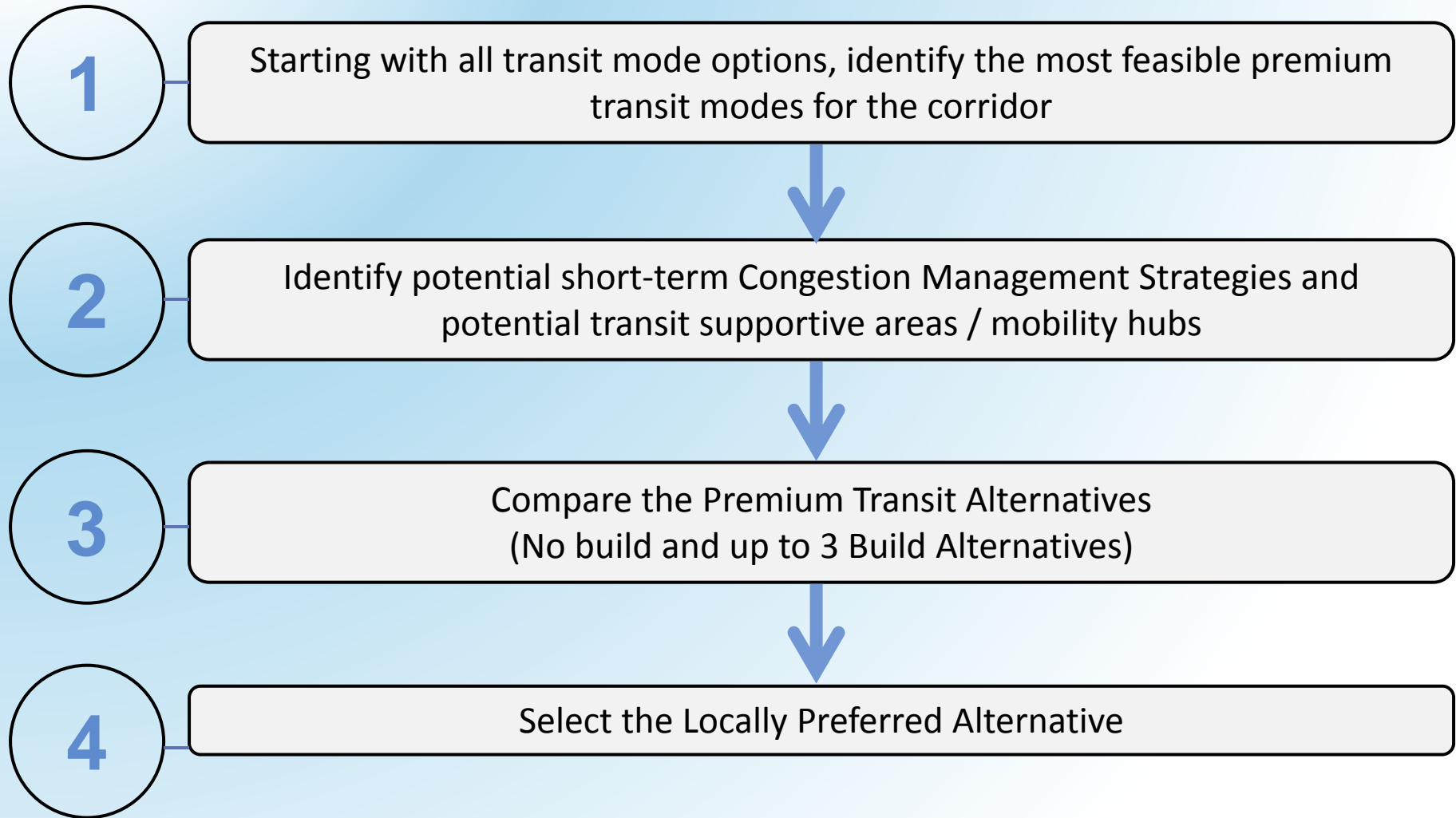


*Alternatives: Potential solutions that address the needs of the existing and future conditions along the University Drive Corridor

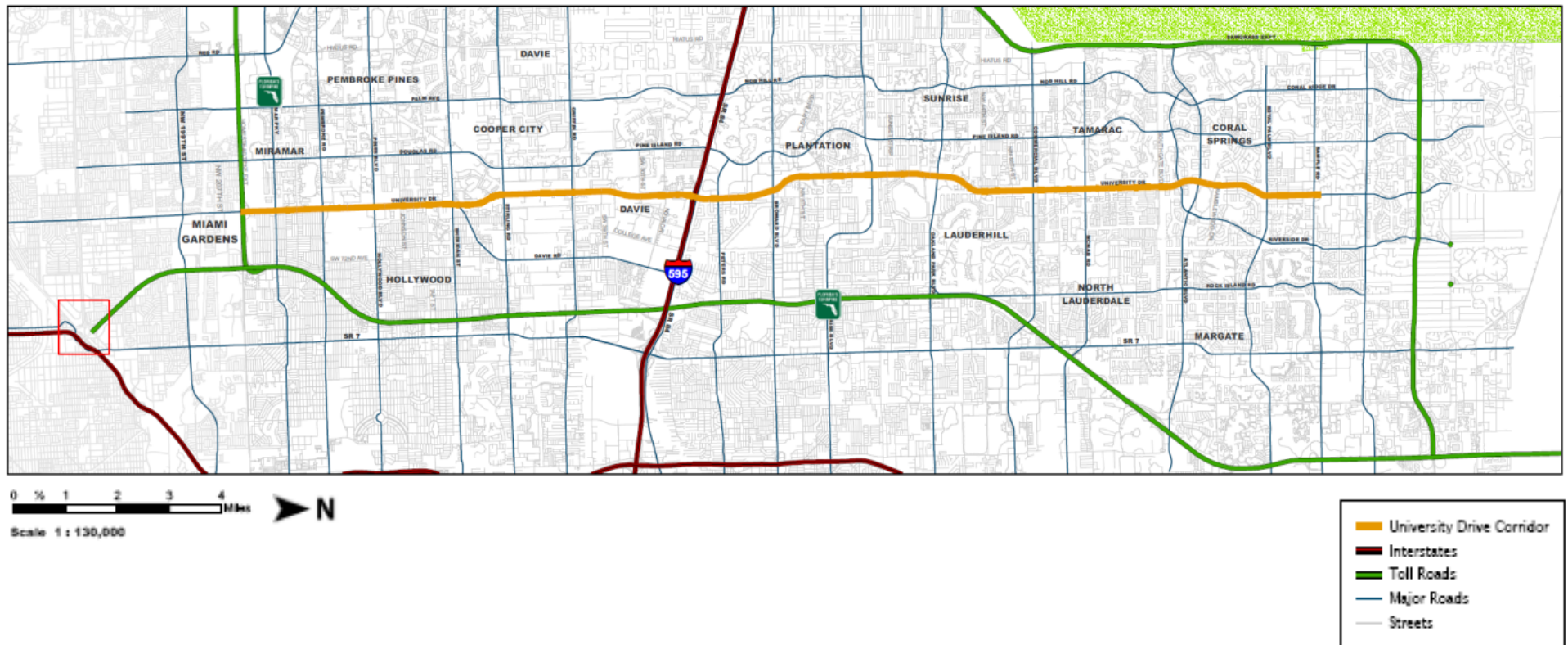
Study Decision-Making Framework



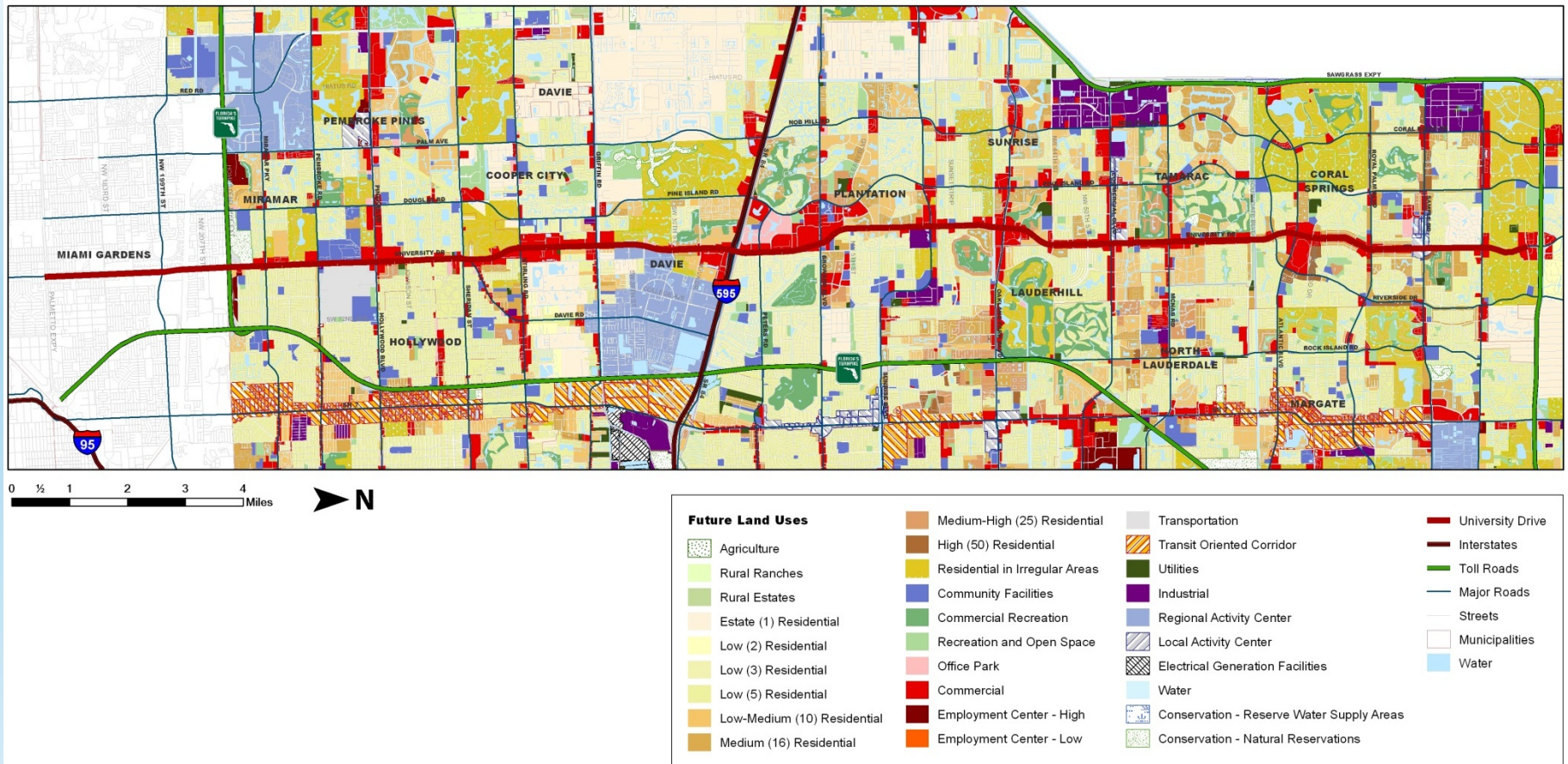
Study Evaluation Framework



Study Area

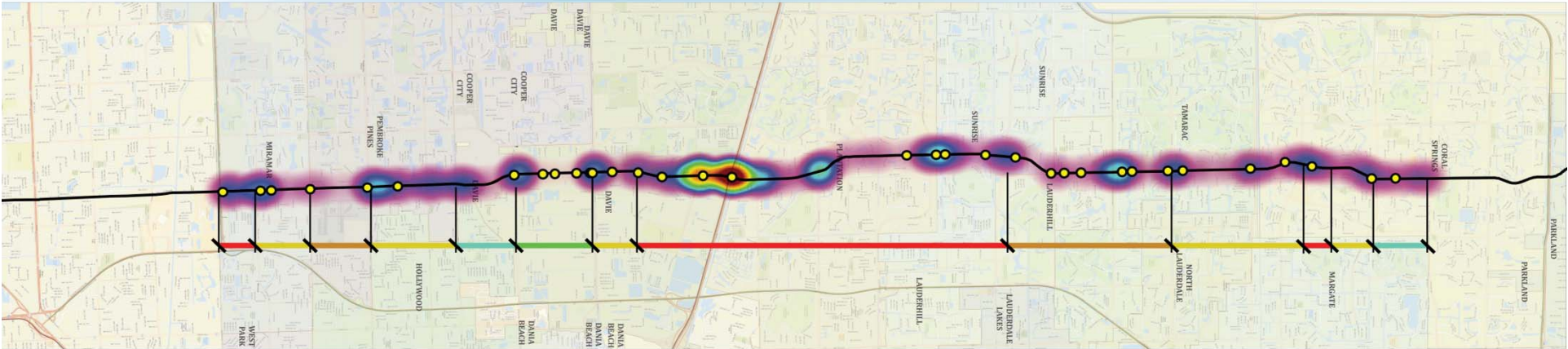


Corridor Conditions – Land Use



Sources: Broward Planning Council; Miami-Dade County

Delay and Crash Synthesis



Crash Frequency (Total Crashes, 2007-2011)

Value

 High

Low

● Fatalities

Ranges of Delay (i.e. LOS)

■ B - Least Delay

 C

D

E

■ F - Greatest Delay

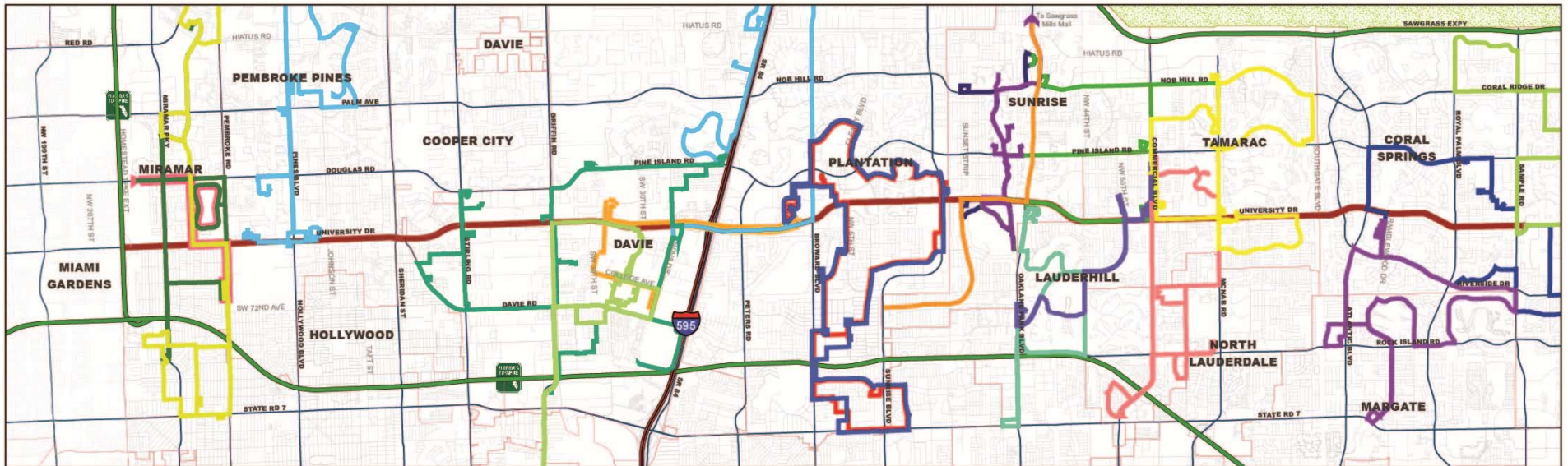
Source: FDOT Crash Analysis Reporting System

Bike / Pedestrian / Transit Synthesis



- Pedestrian Crash Cluster
- Missing Sidewalks
- Bike Crash Cluster
- Missing Bike Lanes
- Highest Bus Transfer Activity
- Very High Transit Ridership
- High Transit Ridership
- Moderate Transit Ridership

Community Shuttles



0 1/4 1 2 3 Miles
Scale 1 : 100,000

Community Shuttle Routes		
■ Coral Springs Blue (CS1B)	■ Miramar Green-East (MMGE)	■ Sunrise Rte 3 & 4 (SUN34)
■ Coral Springs Green (CS1G)	■ Miramar Yellow (MMY)	■ Sunrise Rte 6 - Waterbridge (SUN6W)
■ Davie Blue (DVB)	■ NSU Shuttle	■ Tamarac Red (TMR1)
■ Davie Green (DVG)	■ Plantation A (PLA)	■ Tamarac Yellow (TMY1)
■ SFEC/Tri-Rail Express (DVTR)	■ Plantation B (PLB)	■ University Drive
■ Lauderdale 3 (LH3)	■ Pembroke Pines Blue-East (PPBE)	
■ Lauderdale 4 (LH4)	■ Sunrise Rte 6 (SUN6)	
■ Margate C (MG1C)	■ Sunrise Rte 7 (SUN7)	

Sources: Broward County Transit; Nova Southeastern University

Purpose and Need

Purpose: Provide more and better travel choices and encourage walkable and transit-supportive development along the University Drive corridor.

Needs:

- Improve Transit Travel
 - Improve Level of Service
 - Increase Reliability
 - Improve Connectivity/Transfers
- Improve Pedestrian Travel
 - Provide a Complete Sidewalk Network Along and Immediately Parallel & Perpendicular to University Drive
 - Improve the Pedestrian Environment
- Improve Bicycle Travel
 - Provide a Complete Bicycle Network Along and Immediately Parallel to University Drive
 - Improve the Bicycling Environment

Purpose and Need

Purpose: Provide more and better travel choices and encourage walkable and transit-supportive development along the University Drive corridor.

Needs:

- Improve Automobile Travel
 - Improve Level of Service
 - Increase Reliability
- Improve Safety for All Users
 - Decrease Pedestrian Crashes
 - Decrease Bicycle Crashes
 - Decrease Auto Crashes
- Encourage Walkable and Transit-Supportive Development
 - Strengthen Economic Vitality

Step 1 Evaluation

- Identify a range of viable modal alternatives that will best meet the mobility needs and overall objectives of the University Drive Corridor
- Focus on near to mid-term solutions (10 years)



Local/City Bus



Link 30

- 40 to 75 passengers per vehicle
- Fixed-route and fixed schedule
- Stops every 500 feet to 1 mile, most common spacing is 1,000 to 1,200 feet
- Generally a mix of federal and local funding



Broward County Transit

Enhanced Bus



Albuquerque Rapid Ride Red Line

- Branded Service
- Up to 120 passengers per vehicle
- Runs in mixed-traffic
- Fewer stops; farther apart
- Longer routes, connecting city centers to smaller suburban centers
- May have enhanced stations
- May have transit signal priority
- Typically have strong branding and image
- Regular buses or larger buses
- Peak periods or all-day service

Bus Rapid Transit



- Some portion in exclusive lanes and some in mixed traffic
- Station spacing dependent on land use
- Enhanced stations
- Enhanced ticketing
- Transit signal priority
- Modern vehicle design, but rubber tire vehicles
- Route length varies



Modern Street Car



Ft Lauderdale Wave Streetcar



Portland Streetcar

- Exclusive Lanes or mixed traffic
- Runs on embedded steel rail tracks
- Typical station spacing is between ½ mile to 1 mile
- Historic trolleys or modern street car
- Short segments, typically less than 5 miles within urban core and neighborhoods
- Typically slower in speeds than LRT, but Modern Streetcars are faster than historic streetcar

Screening Matrix

Step 1 Screening Criteria		Evaluation Rating			
		Local/ City Bus	Enhanced Bus	Bus Rapid Transit	Modern Streetcar
Population and Employment Density ¹	Density to support transit mode (Yes/No)	Yes	Yes	Yes	No
Average Trip Length	Does mode serve trip length (Yes/No)	Yes	Yes	Yes	Yes
Peak Hour Ridership ¹	Ridership supports mode (Yes/No)	Yes	Yes	Yes	Yes
Capital Costs	Low (less than \$5m/mi) Medium (\$5-25m/mi) High (greater than \$25m/mi)	Low	Low	Medium	Medium
Operating Costs	Low (less than \$10/rev-mi) Medium (\$10-20/rev-mi) High (greater than \$20/rev-mi)	Low	Low	Medium	Medium/ High
Right-of-Way Impacts	Need for additional right-of-way (low, medium, high)	Low	Low	Medium	Medium
Potential Economic Development Impact	Potential to enhance economic activity (low, medium, high)	Low	Low	Medium	Medium
Potential Environmental Impacts	Anticipated environmental impacts (low, medium, high)	Low	Low	Medium	Medium
Requirement to be Elevated	Does the mode need to be elevated (Yes/No)	No	No	No	No
Screening Results		Yes	Yes	Yes	Yes

Note: Light Rail, Commuter Rail, Heavy Rail, Monorail / People Mover, and High Speed Rail Transit Modes were deleted due to low population and employment densities, high capital costs, high operating costs, and high ROW impacts. 1. Considers existing and potential future conditions

Step 1 Recommendation

Based on existing and anticipated future conditions, the **most viable transit modes recommended for further study** include:

- Local/City Bus
- Enhanced Bus
- Bus Rapid Transit
- Modern Streetcar



Questions?

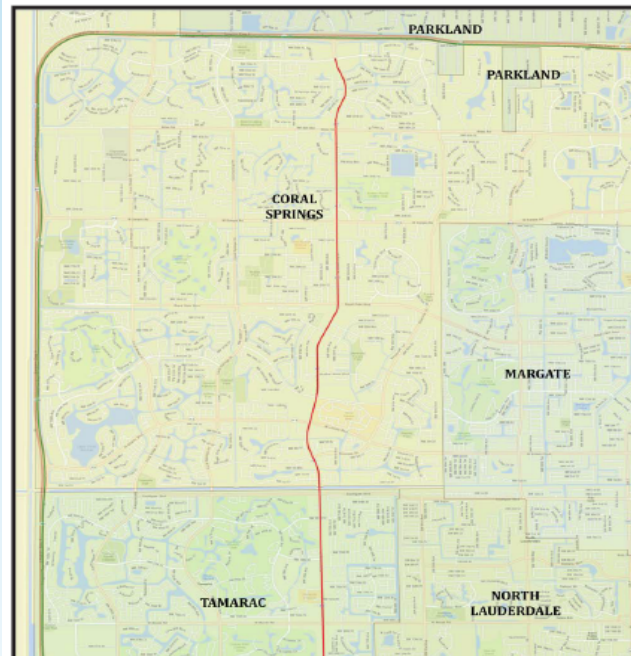


Please Tell Us What You Think

1. At Table Sessions
2. Online at the Stations
3. On Comment Forms

1 Map Your Thoughts.

Use the Icon Stickers to specifically map where you would like to see changes or improvements.



2 Tell Us What Issues/Opportunities are Most Important to You.

Early discussions with local government leaders and business owners along University Dr. & research indicate the following issues and opportunities in the University Drive Corridor:

Please identify the issue/opportunity that is most important to you by adding a colored dot adjacent to the issue/opportunity.

Please add issues/opportunities that you don't see on this list by writing them in the space provided below the list.

More Travel Choices

More Predictable Transit Travel

More or Better Landscaping

More or Wider Sidewalks

More or Wider Bike Lanes

More Predictable Auto Travel

More Walkable Places

Stronger Economic Conditions