



**MetroPlan Orlando**

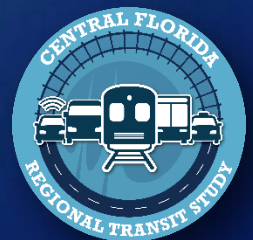
**TAC Meeting**

**MetroPlan Orlando Offices**

**April 27, 2018**

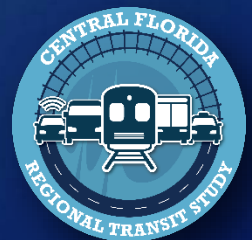
# AGENDA

- Introductions
- Study Purpose & Scope
- Study Benefits & Schedule
- Coordination with Other Studies & Plans
- Travel Pattern and Market Analysis
  - MPO / TPO – urbanized area
  - County to County
  - Top 10 Major Activity Centers
- Identification of High Capacity Corridors – Local Context
- Summary of Work Completed to Date
- Initial Presentation of Conceptual Regional Transit Vision Framework
- Next Steps



# STUDY PURPOSE

- 1 • **Establish a Base Transit Condition / Identify Gaps**
- 2 • Identify Existing and Future Funding Gaps
  - Identify Potential Funding Sources
- 3 • Analyze Existing Transit Supportive Plans and Policies
- 4 • Estimate Regional Desire Lines
  - Estimate Transit Market Demand-Patronage Forecast Ranges (2040/2060)
  - Identify Strong Candidate Corridors for Higher Capacity Transit
- 5 • Identify of the Conceptual Regional Transit Vision Framework
  - Identify Interim and Long Term High Priority Transit Investments
  - Develop Strategies for Advancing Conceptual Regional Transit Vision Framework



# Study Scope

- Task 1: Data Collection
- Task 2: Transit Investment And Policy Assessment
- Task 3: Regional Travel Pattern And Market Analysis
- Task 4: Regional Transit Vision Framework
- Task 5: Study Coordination/Meetings



# RTS Benefits

- *Assist in implementing new MPO coordination and tourism regulations*
- *Identify and coordinate cross-jurisdictional regional transit projects*
- *Establish base future transit projects (2030)*
- *Identify future (2040/2060) transit projects and gap between base and future*
- *Provide a reasonable method to identify "buildable" transit projects*
- *Provide a suggested strategy to prioritize and implement regional transit projects*
- *Provide information and analysis that will assist immediate projects with FTA new/small starts process (land use/finance)*



# RTS Schedule

Project Task	2016										2017										2018							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25			
	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M			
<b>Regional Transit Study</b>											[Red bar spanning Dec 2016 to Nov 2017]																	
<b>Notice to Proceed</b>										N																		
<b>Task 1: Data Collection</b>											[Red bar spanning Dec 2016 to Feb 2017]																	
<b>Task 2: Transit Investment and Policy Assessment</b>											[Red bar spanning Dec 2016 to Nov 2017]																	
<b>Task 3: Regional Travel Pattern and Market Analysis</b>											[Red bar spanning Dec 2016 to Apr 2017]																	
<b>Task 4: Regional Transit Vision Framework</b>											[Red bar spanning Dec 2016 to Nov 2017]																	

Legend	
Notice to Proceed	[Blue box with 'N']
Duration of Task for RTS	[Red bar]



# Project Advisory Group (PAG)

7

Name	Agency / Organization	Title
Virginia Whittington	MetroPlan Orlando	Director of Regional Partnerships
Harry Barley	MetroPlan Orlando	Executive Director
Bob Kamm	Space Coast TPO	Executive Director
Lois Bollenback	River to Sea TPO	Executive Director
Michael Daniels	Ocala Marion TPO	Executive Director
Mike Woods	Lake~Sumter MPO	Executive Director
Ronnie Blackshear	Polk TPO	Director
Jennifer Carver	FDOT - Central Office Representative	Statewide Growth Management Coordinator
Brenda Young	FDOT - District Five Representative	Passenger Operations Manager
Paul Simmons	FDOT - District One Representative	Intermodal System Development Manager

# Meeting

PAG Meeting	Date	Alliance Meeting
Kick-Off	October 14, 2016	*
2	January 13, 2016	*
3	April 21, 2017	*
4	July 14, 2017	
5	October 3, 2017	
6	January 19, 2018	*



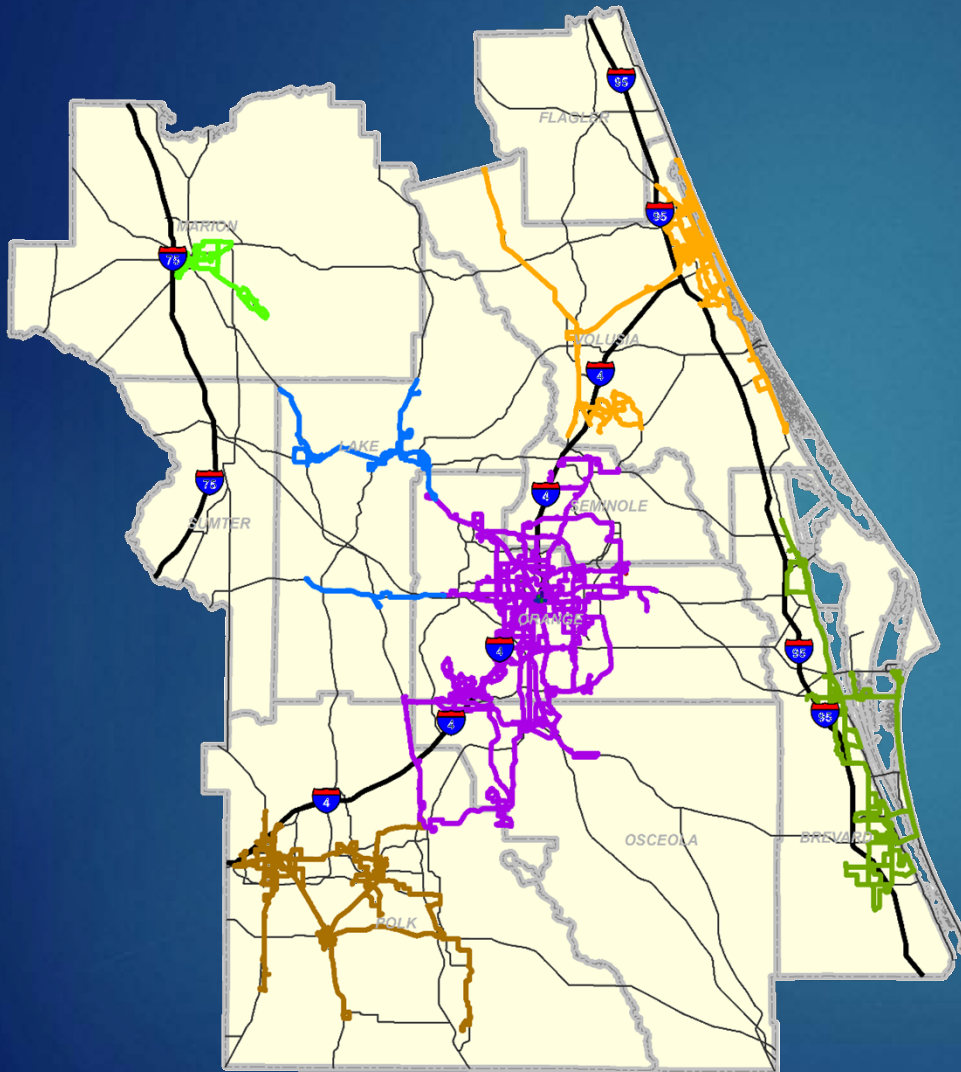


# Coordination with Other Studies & Plans

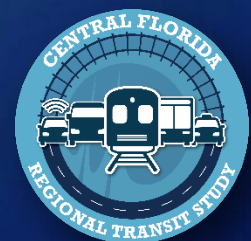
- MPO/TPO LRTP – Cost Feasible / Needs Networks
- Transit Agency Transit Development Plans
- East Central Florida Corridor Evaluation Study
- Districtwide Multimodal Assessment
- SIS Needs Plan
- How Shall We Grow: A Shared Vision for Central Florida
- FDOT – Intercity Bus Services
- Comprehensive Plans
- North Ranch Master Plan



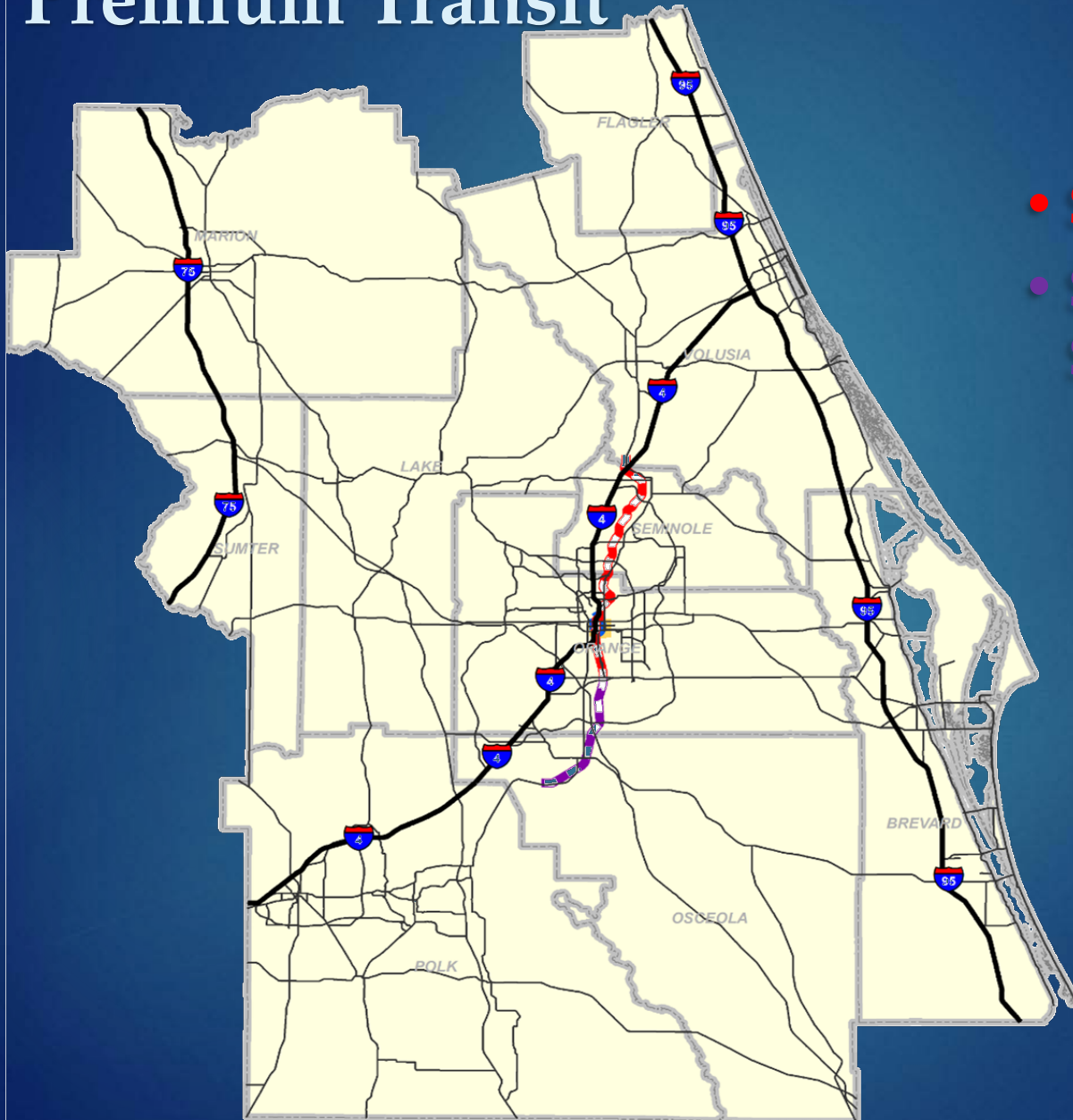
# Existing Transit Routes



- SunTran - Marion
- Votran - Volusia
- LakeXpress – Lake
- Sumter County Transit
- LYNX – Seminole, Orange & Osceola
- Winter Haven Area Transit
- Citrus Connection
- Space Coast Area Transit



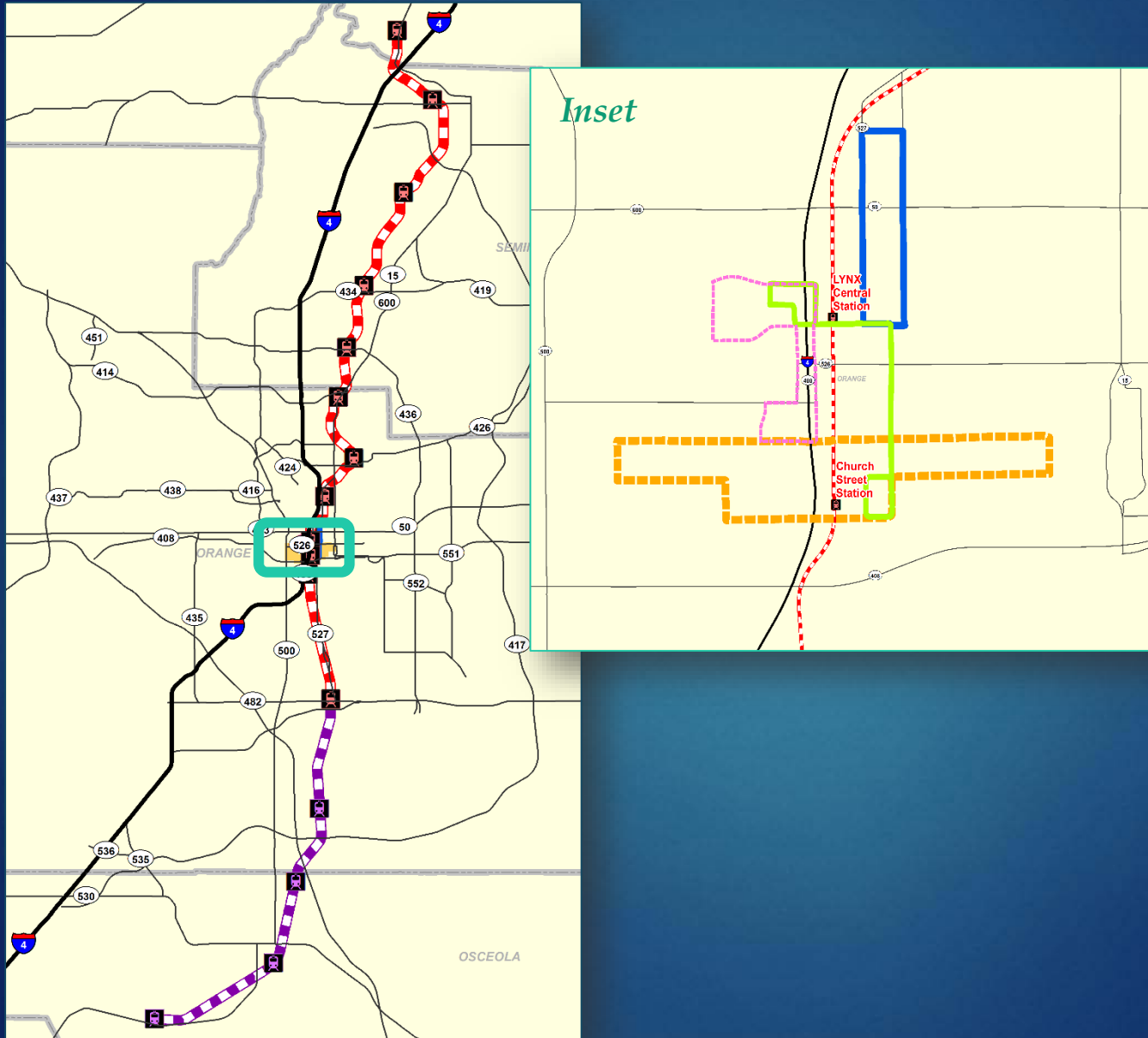
# Premium Transit



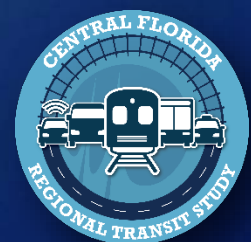
- SunRail Phase 1
- SunRail Phase 2 South



# Premium Transit



- SunRail Phase 1
- SunRail Phase 2 South
- LYMMO Lime
- LYMMO Orange Downtown
- LYMMO Orange North Quarter
- LYMMO Grapefruit



# Cost Feasible Network

13

## Ocala / Marion TPO

- SE LRT
- SE Commuter Rail
- SE BRT CR 464
- SE BRT US 27 / US 441

## MetroPlan Orlando

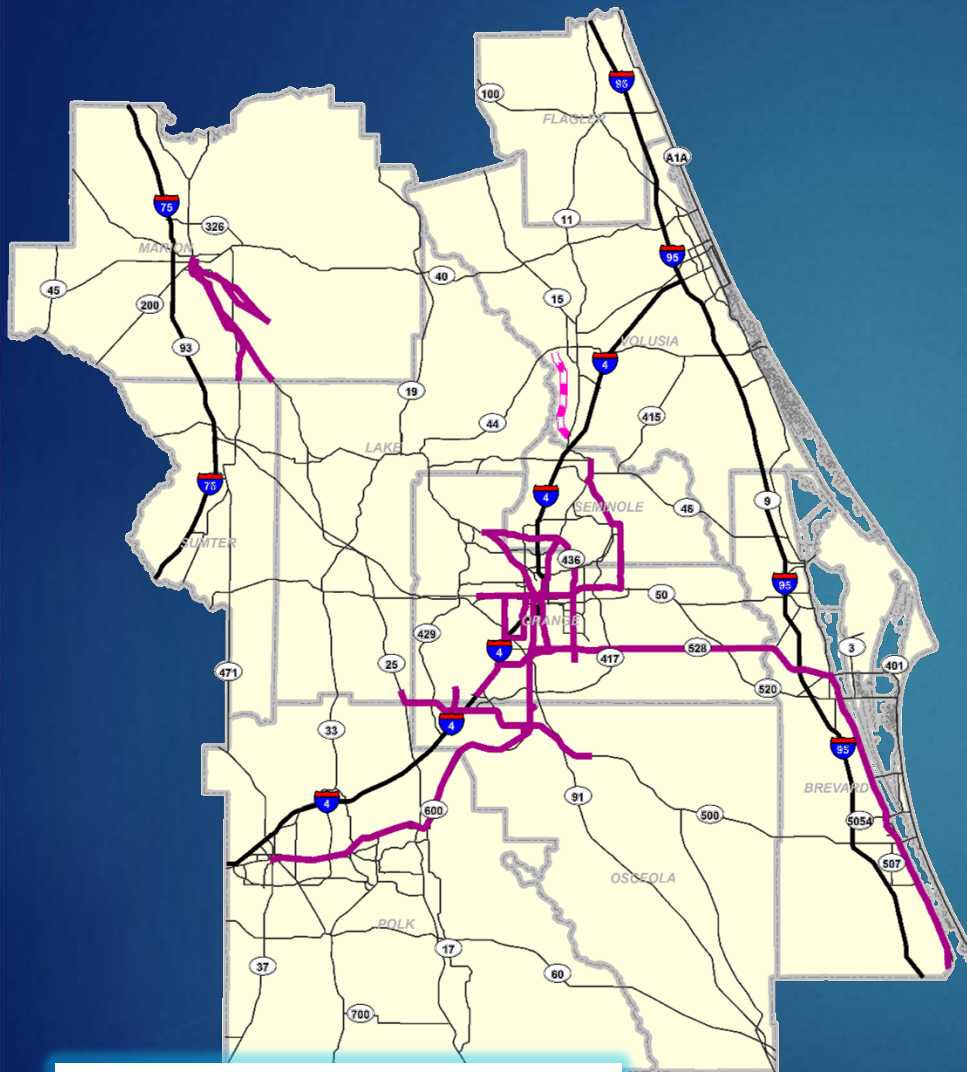
- 2030 LYNX Vision Corridors – high capacity only
- US 192
- US 441
- SR 436
- SR 50
- OIA Connector
- BrightLine (private)

## River To Sea TPO

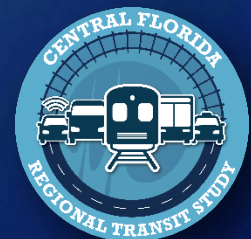
- SunRail Phase 2 North

## Polk County TPO

- SunRail Extension to Lakeland

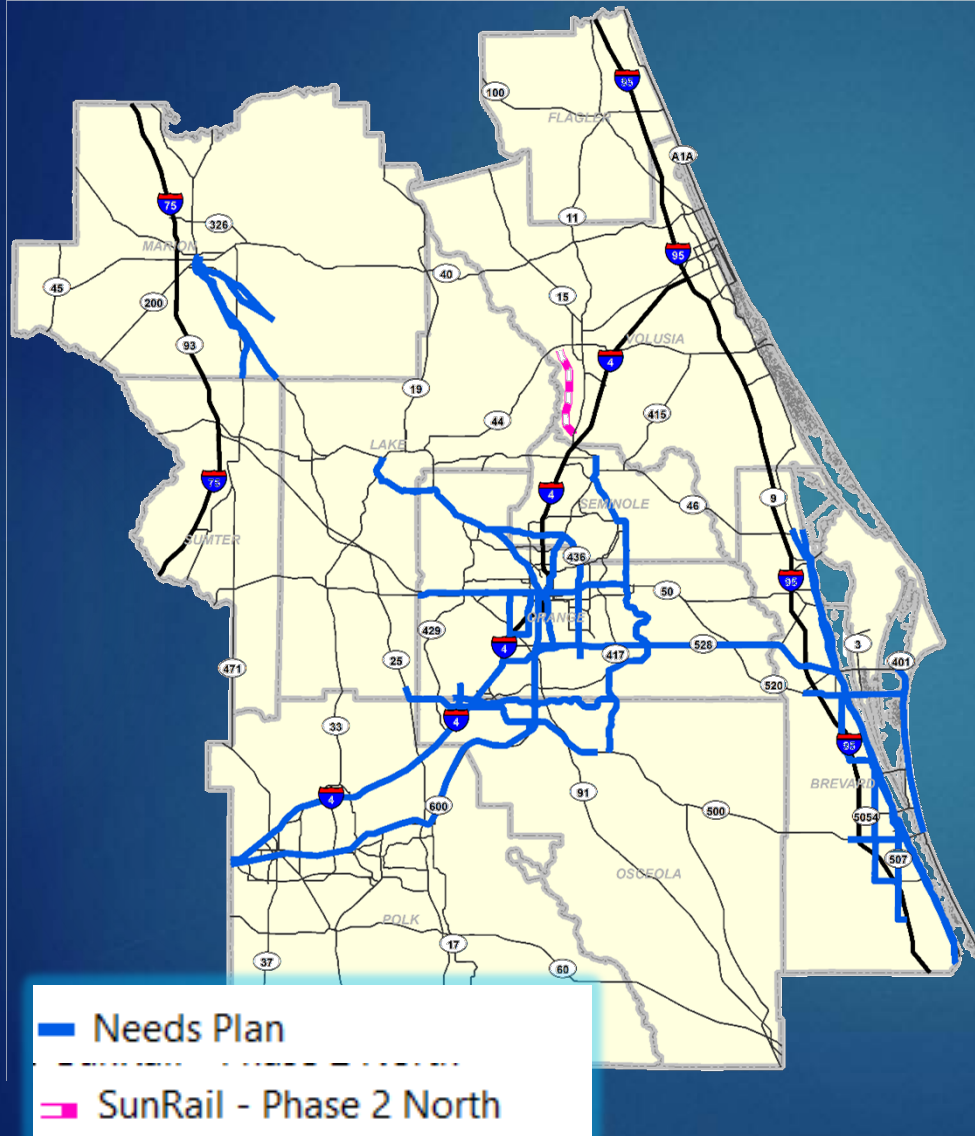


- Cost Feasible Network
- ▬ SunRail - Phase 2 North



# Needs Network

14



## MetroPlan Orlando

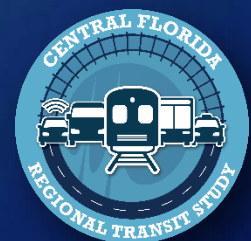
- NW Corridor Extension to Tavares
- HSR Orlando to Tampa

## Polk County TPO

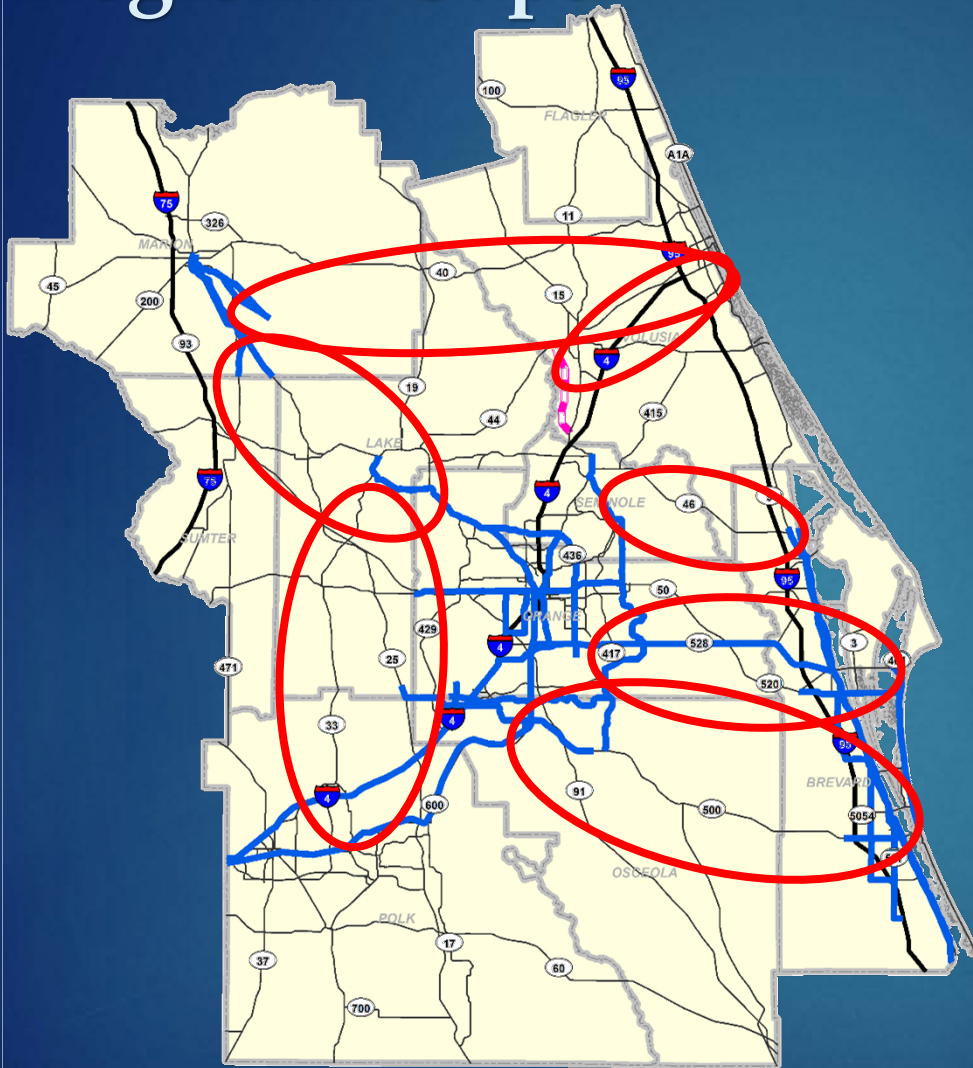
- SunRail Extension to Hillsborough County Line
- HSR Orlando to Tampa

## Space Coast TPO

- US 1 / FEC Commuter Rail
- US 1 BRT
- SR 520 BRT
- Fiske/Stadium BRT
- Wickham/Minton BRT
- Babcock BRT
- SR A1A BRT
- US 192 BRT



# Regional Gaps



- Ocala / Marion - Lake / Orange County
- Ocala / Marion - Volusia County
- East-West Volusia County
- Seminole County - Brevard County
- Orange County - Brevard County
- Osceola County - Brevard County
- Polk County - Lake County

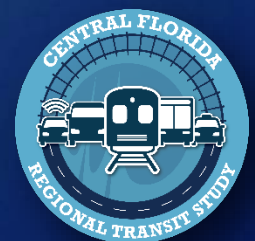
— Needs Plan

— SunRail - Phase 2 North



# TRAVEL PATTERN AND MARKET ANALYSIS

- 2040 / 2060 Travel Market Demand (Source: CFRPM v6.1)
- 2040 and 2060 Regional Desire Lines - 3 Levels of Travel Analysis
  - MPO/TPO Urbanized Area
  - County to County
  - Top 10 Major Activity Centers

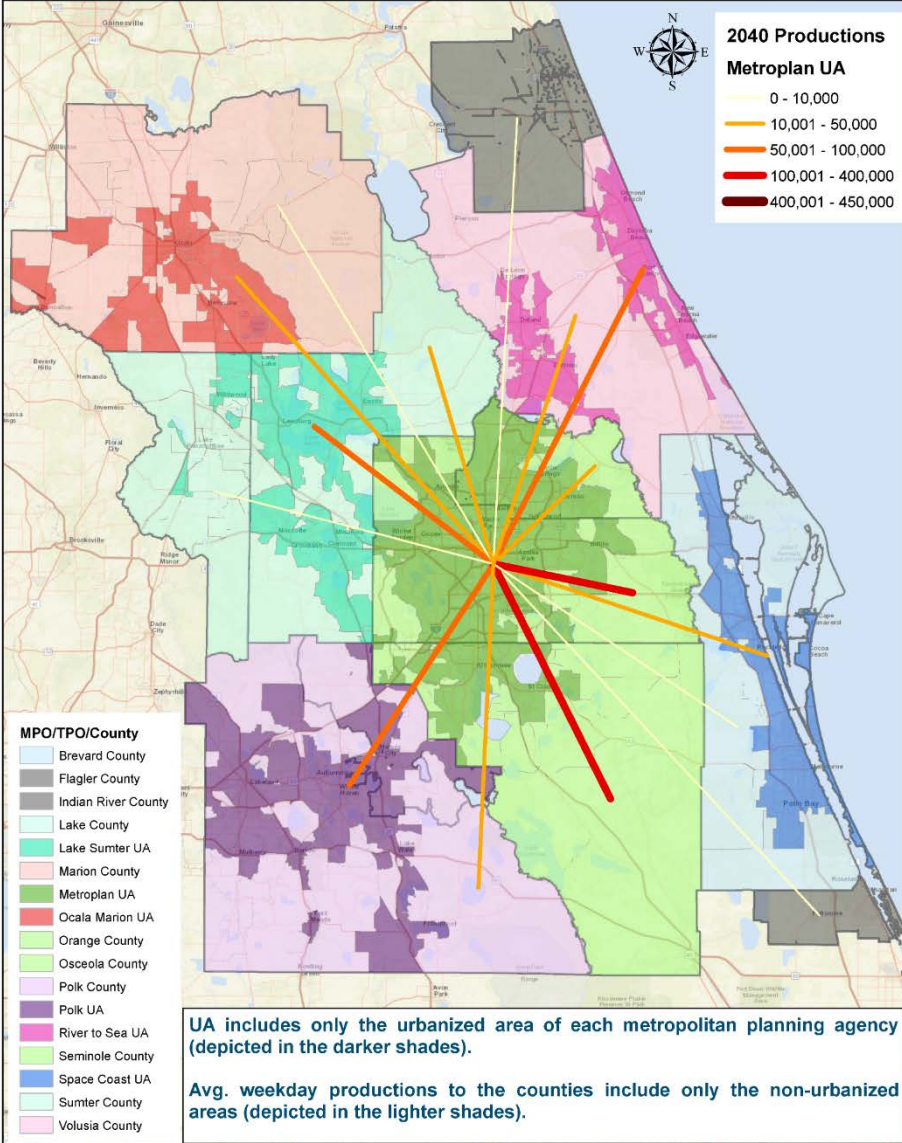




# 2040 Average Weekday Productions from MetroPlan Urbanized Area (UA)\*

SCALE: 0 5 10 20 Miles

Date: 7/11/2017



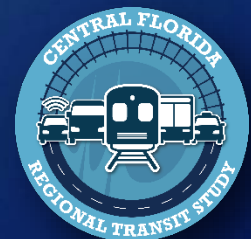
\* 2040 Metroplan UA to Metroplan UA avg. weekday productions = 7,506,188

Source: CFRPM v6.1

# MPO/TPO Urbanized Area

17

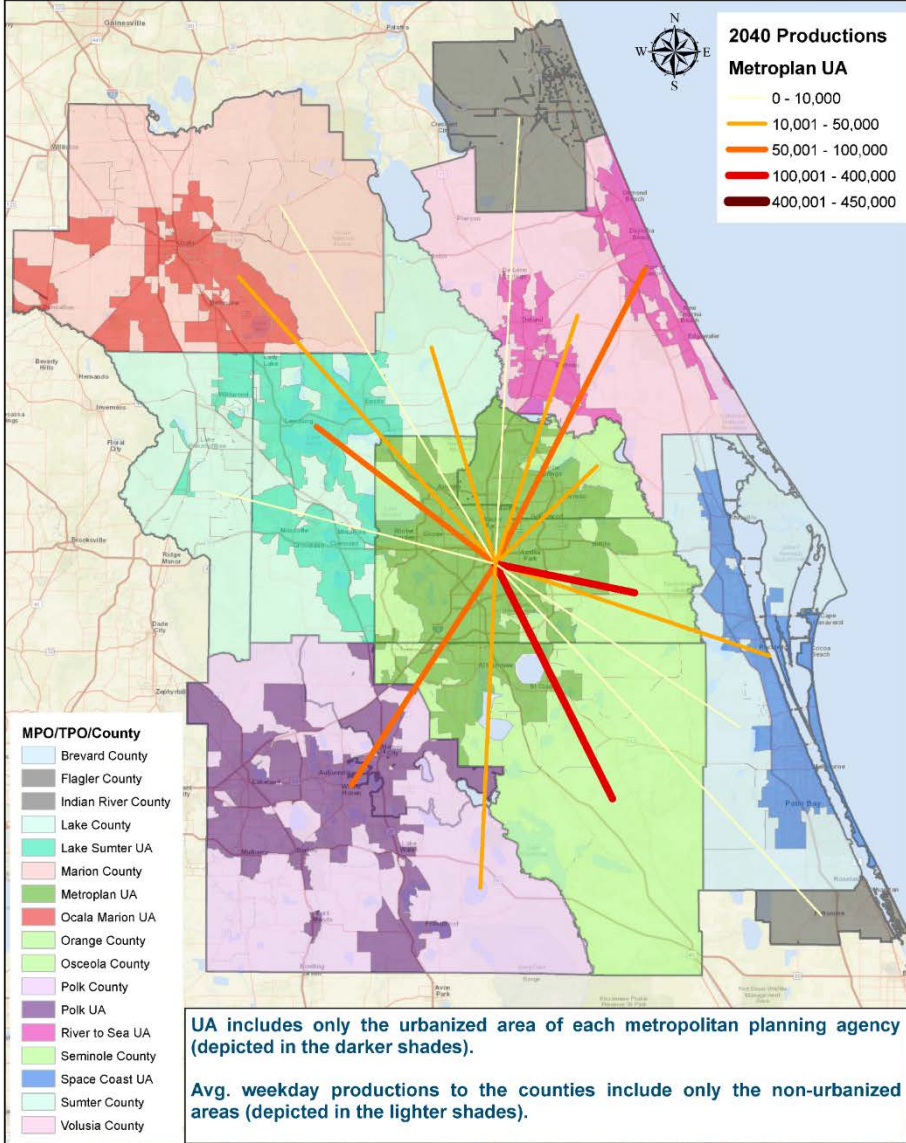
- MPO/TPO Urbanized Areas to:
  - Non-Urbanized Area (Counties)
  - Other Urbanized Areas
- Intra MetroPlan Urbanized Area Trip Volumes noted at bottom of maps
- 2040 & 2060 Trip Productions



# 2040 Average Weekday Productions from MetroPlan Urbanized Area (UA)\*

SCALE: 0 5 10 20 Miles

Date: 7/11/2017



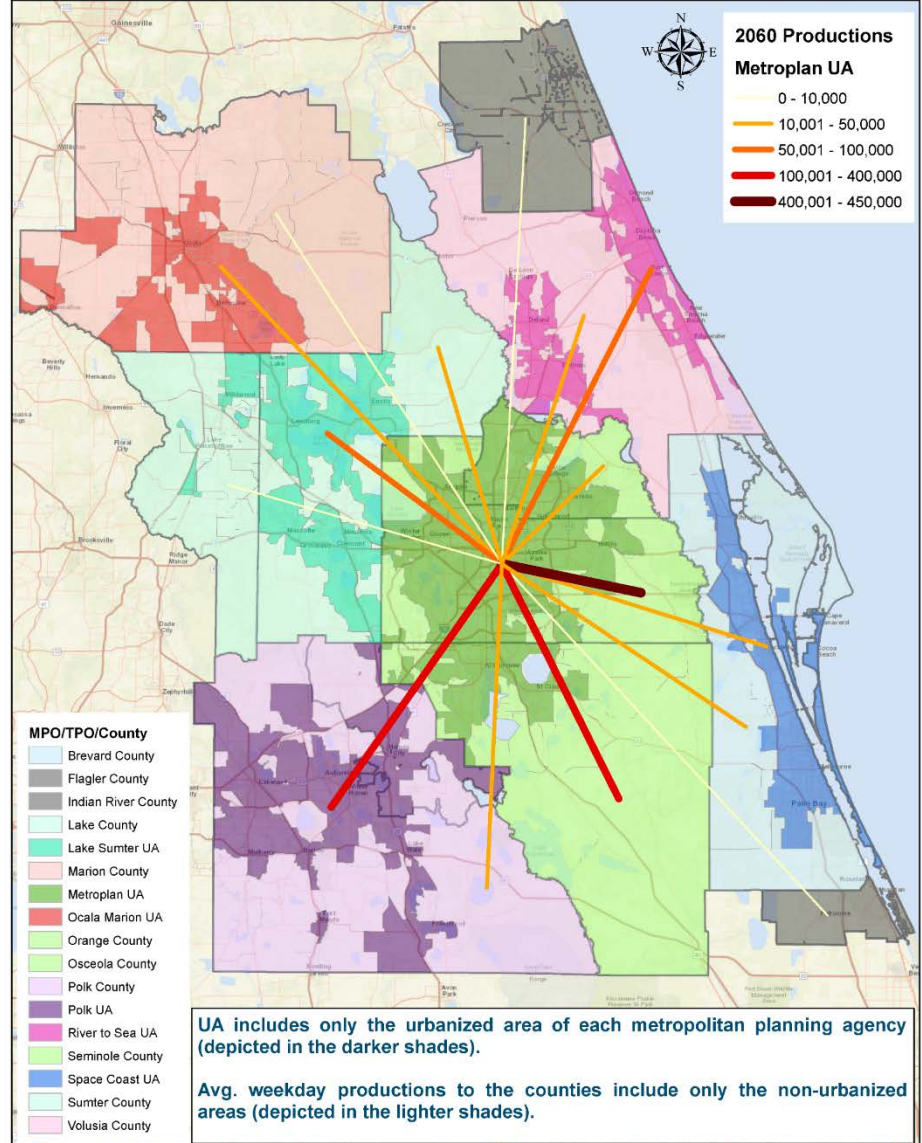
\* 2040 Metroplan UA to Metroplan UA avg. weekday productions = 7,506,188

Source: CFRPM v6.1

# 2060 Average Weekday Productions from MetroPlan Urbanized Area (UA)\*

SCALE: 0 5 10 20 Miles

Date: 7/11/2017



\* 2060 Metroplan UA to Metroplan UA avg. weekday productions = 8,764,942.

2040 Metroplan UA to Metroplan UA avg. weekday productions = 7,506,188.

Source: CFRPM v6.1

# MPO/TPO Urbanized Area 2040 Trip Productions

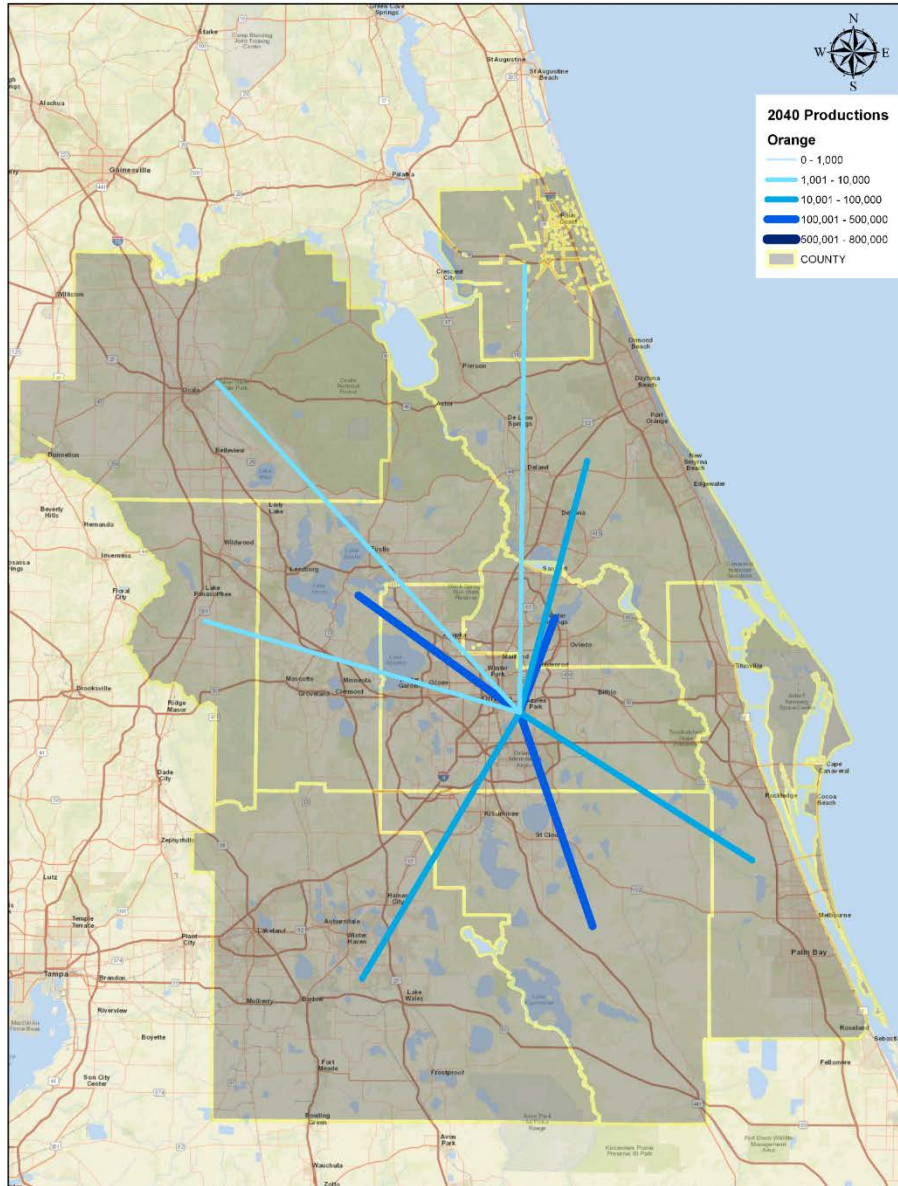
TRIPS	From Urban Area / Non-Urban Area (County)	To Urban Area / Non-Urban Area (County)
332,009	MetroPlan UA	Orange County
261,636	Polk County	Polk UA
249,012	Orange County	MetroPlan UA
241,206	Osceola County	MetroPlan UA
219,020	Polk UA	Polk County
212,235	Space Coast UA	Brevard County
187,301	Brevard County	Space Coast UA
181,223	River To Sea UA	Volusia County
164,532	Marion County	Ocala Marion UA
156,162	Volusia County	River To Sea UA
155,075	Ocala Marion UA	Marion County
144,588	MetroPlan UA	Osceola County
133,203	Lake County	Lake Sumter UA
111,370	Lake Sumter UA	Lake County
104,868	Lake Sumter UA	MetroPlan UA
103,374	River To Sea UA	MetroPlan UA



# 2040 Productions from Orange County\*

SCALE: 0 5 10 20 Miles

Date: 6/2/2017

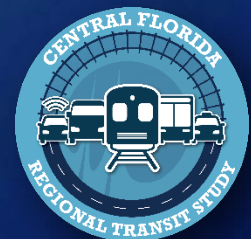


\* Intra county productions = 5,174,696.

## County to County

20

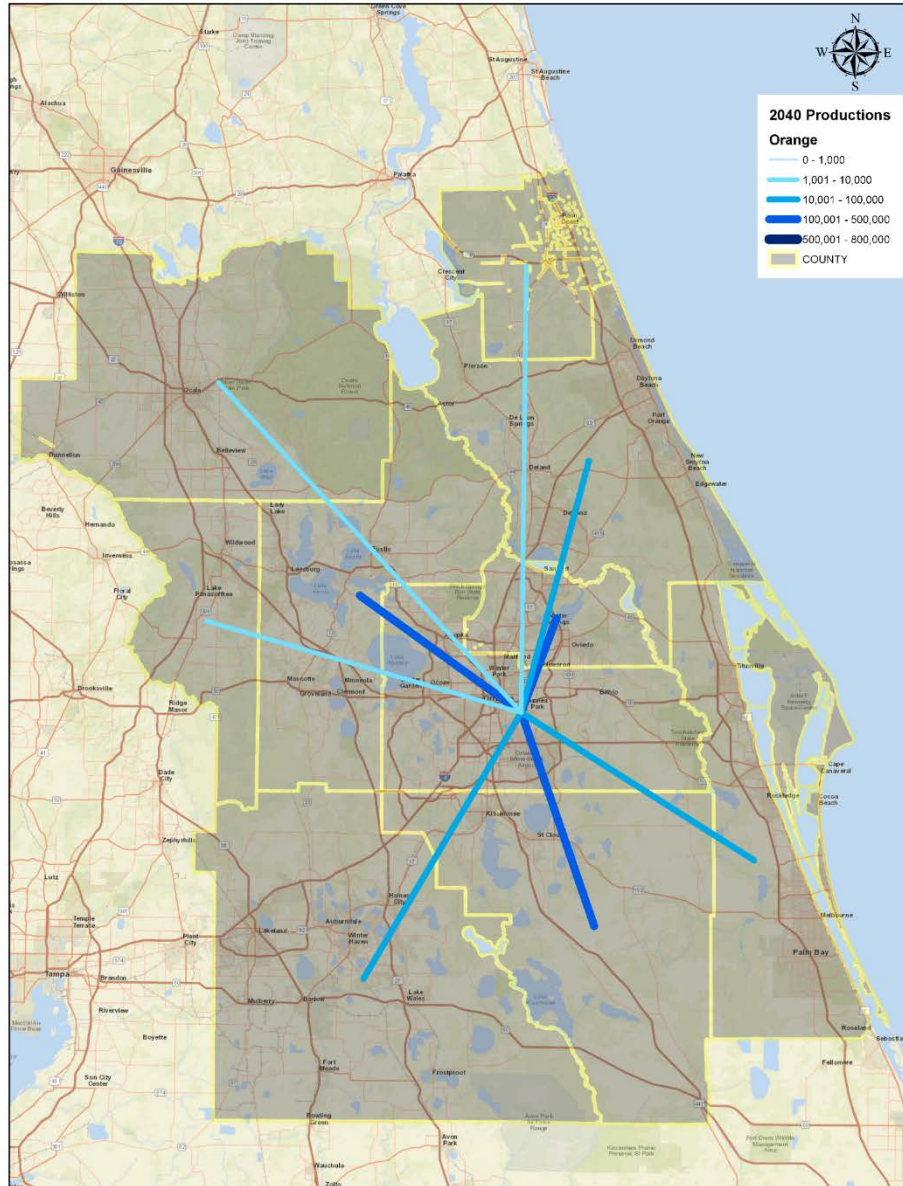
- Inter County Trips
- Intra County Trip Volumes noted at bottom of map
- 2040 & 2060 Trip Productions



# 2040 Productions from Orange County\*

SCALE: 0 5 10 20 Miles

Date: 6/2/2017

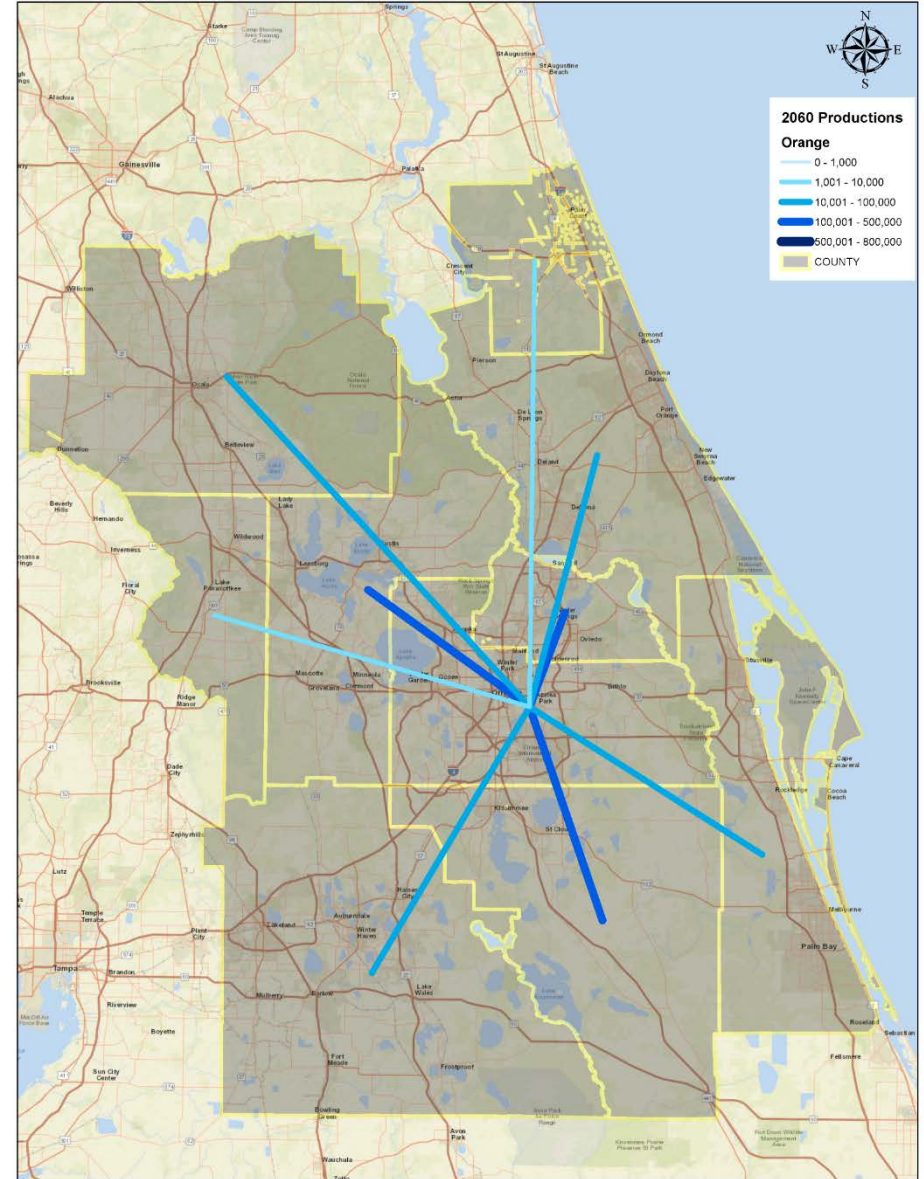


\* Intra county productions = 5,174,696.

# 2060 Productions from Orange County\*

SCALE: 0 5 10 20 Miles

Date: 6/5/2017

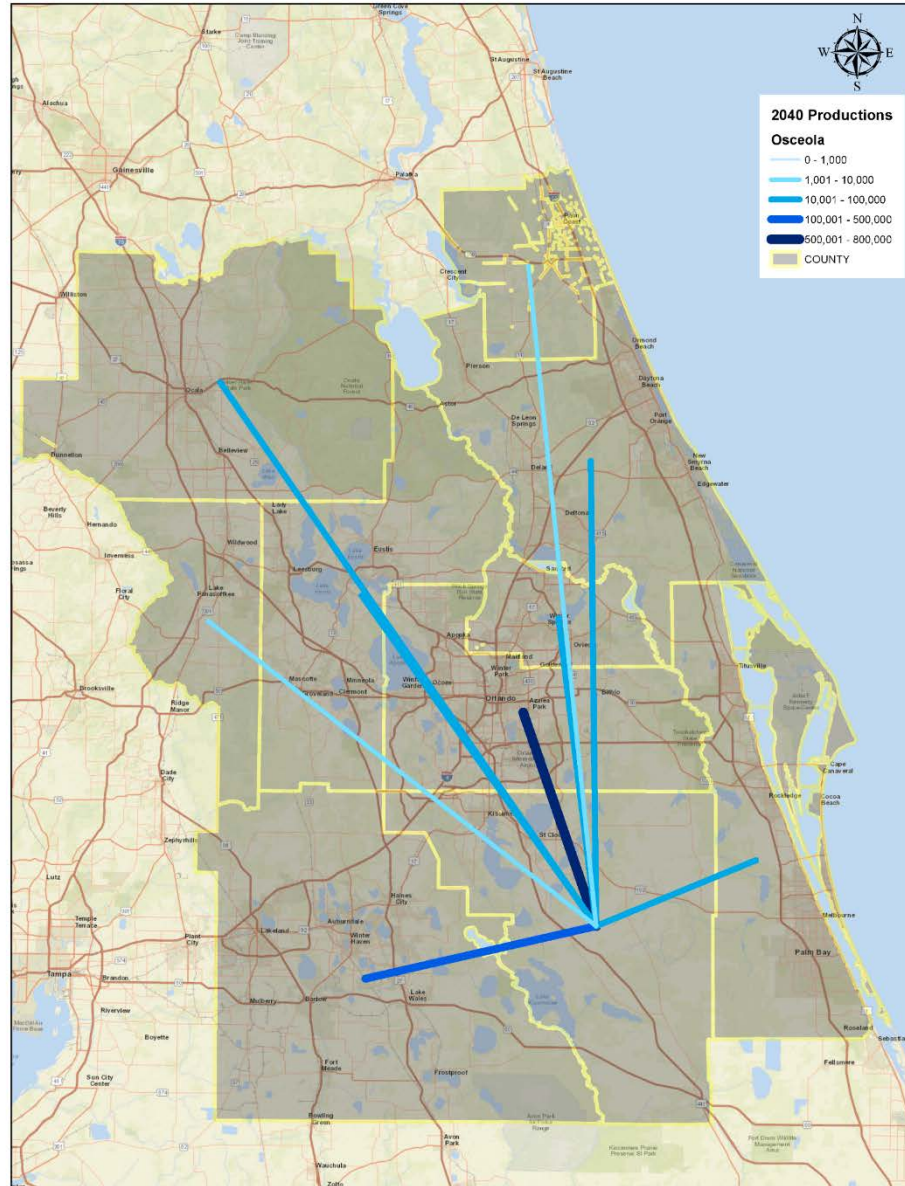


\* Intra county productions = 6,194,108

# 2040 Productions from Osceola County\*

SCALE: 0 5 10 20 Miles

Date: 6/2/2017

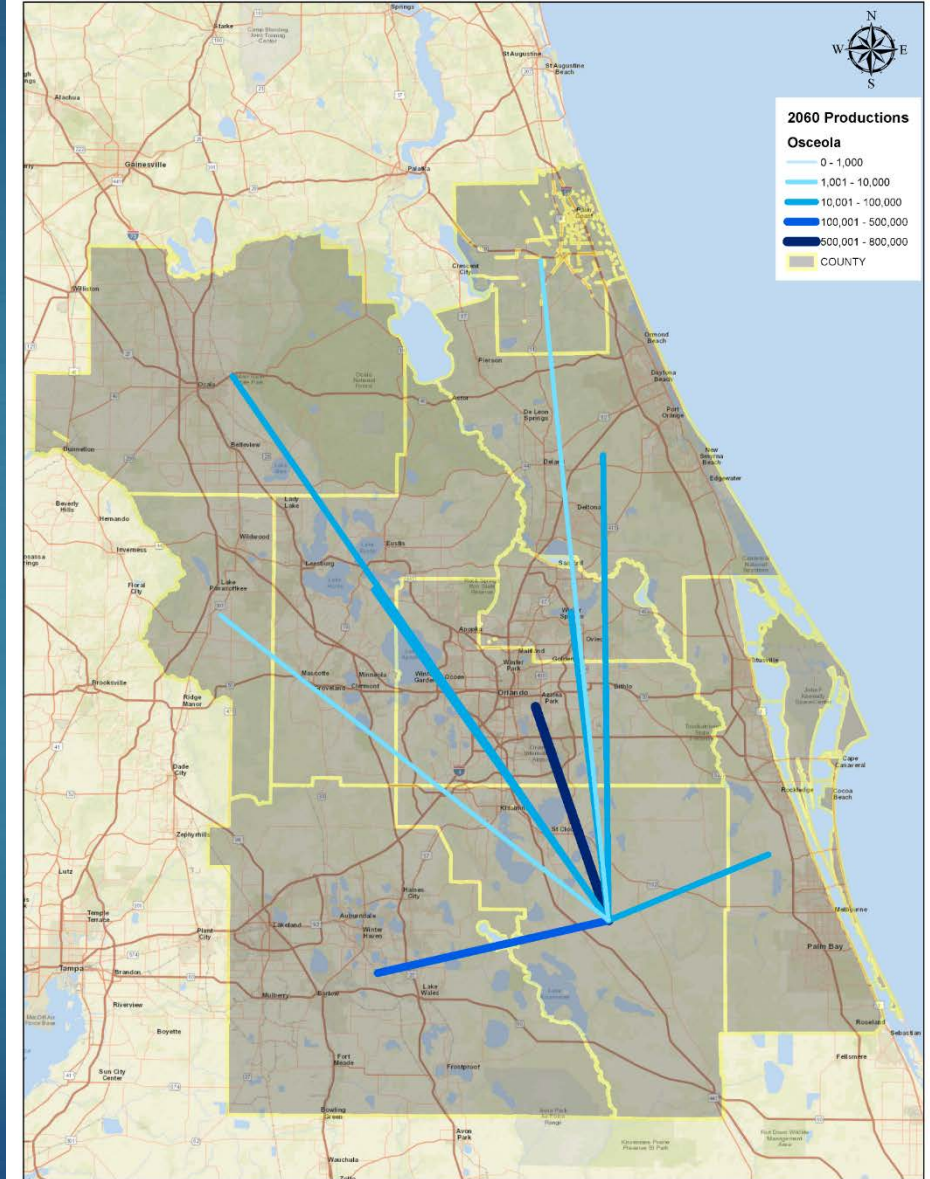


\* Intra county productions = 935,323.

# 2060 Productions from Osceola County\*

SCALE: 0 5 10 20 Miles

Date: 6/5/2017

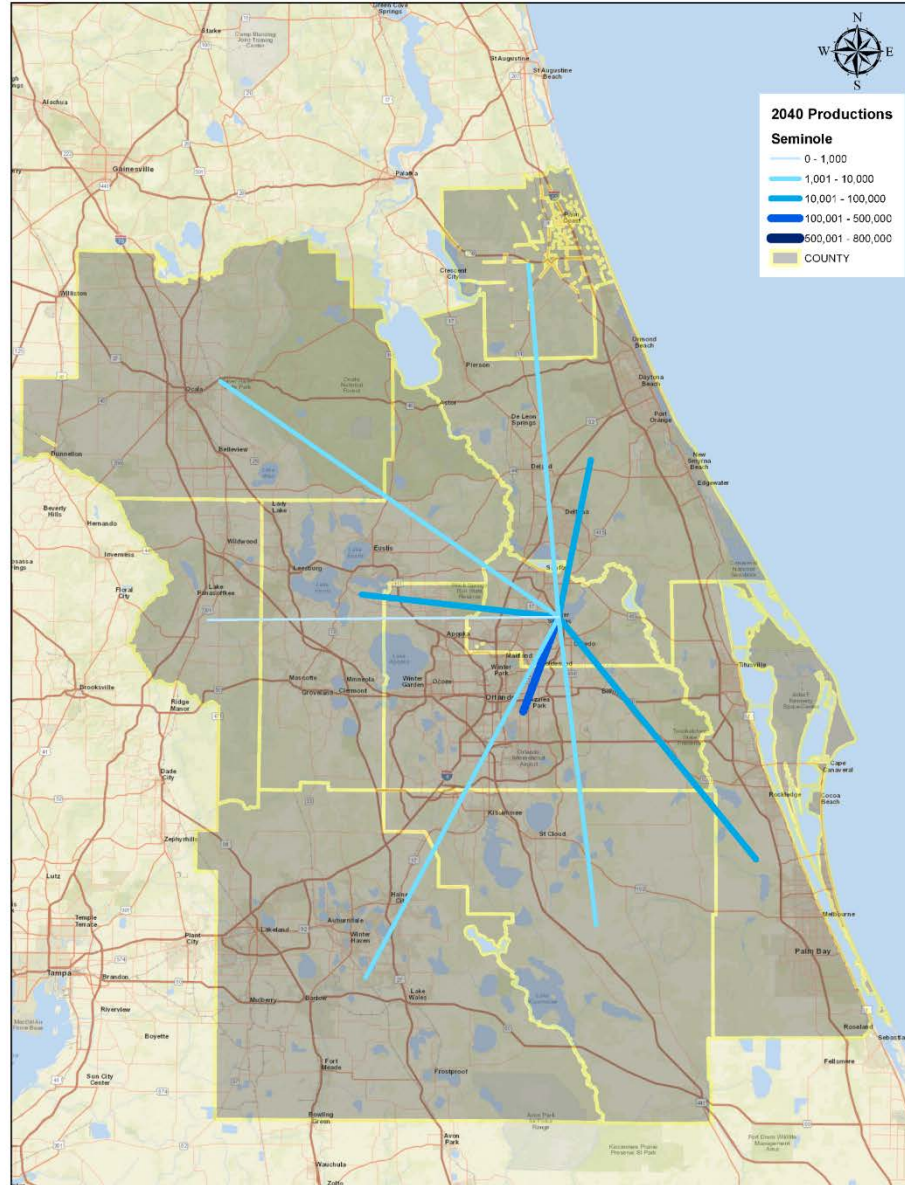


\* Intra county productions = 1,234,264

# 2040 Productions from Seminole County\*

SCALE: 0 5 10 20 Miles

Date: 6/2/2017

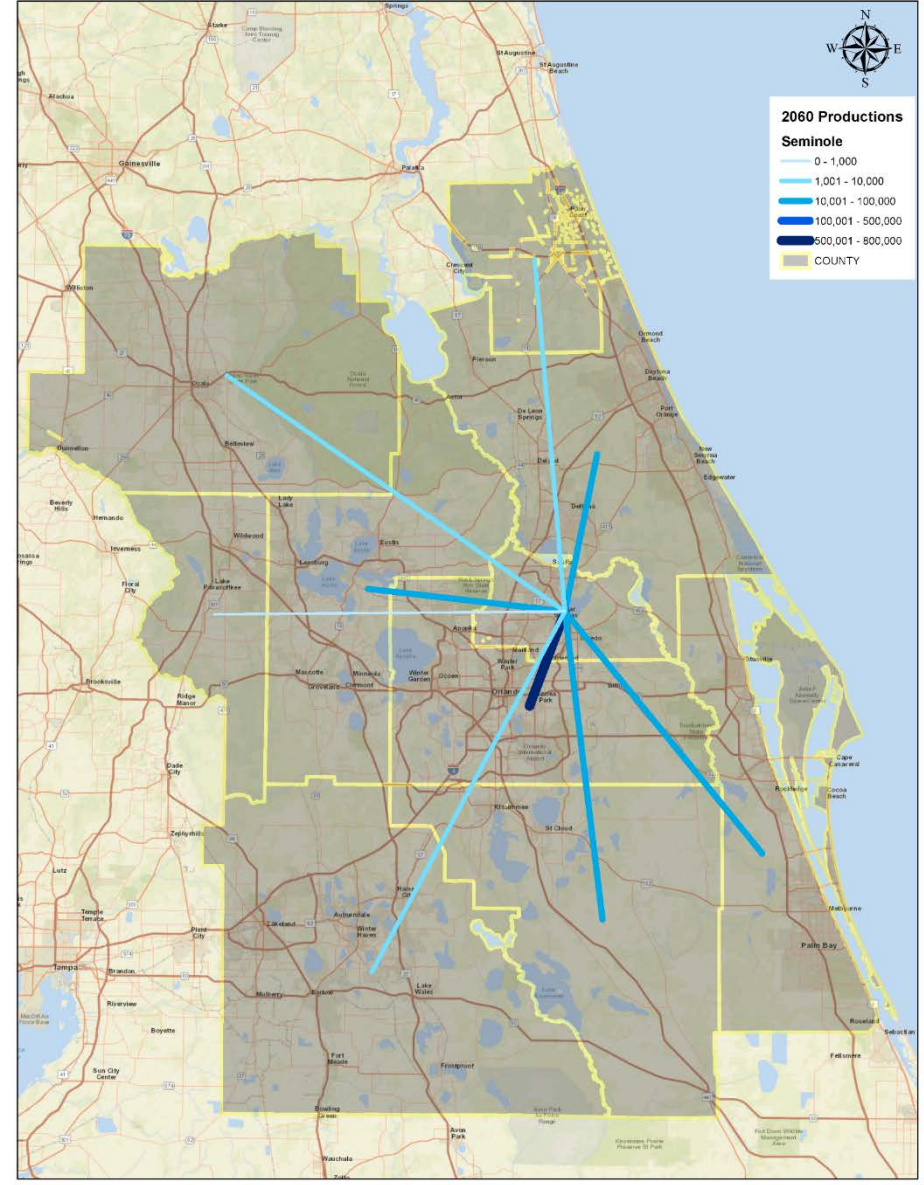


\* Intra county productions = 1,115,172.

# 2060 Productions from Seminole County\*

SCALE: 0 5 10 20 Miles

Date: 6/5/2017



\* Intra county productions = 1,349,554

# County to County 2040 & 2060 Trip Productions > 100K

2040 TRIPS	2060 TRIPS	From County	To County
696,188	799,462	Osceola	Orange
497,545	507,060	Seminole	Orange
359,917	453,139	Orange	Seminole
235,904	315,795	Orange	Osceola
147,885	183,877	Lake	Orange
116,729	147,727	Polk	Orange
111,713	146,392	Osceola	Polk
105,708	133,633	Orange	Lake
103,247	123,878	Flagler	Volusia
<100K	117,627	Sumter	Lake
<100K	101,410	Volusia	Seminole
<100K	100,863	Polk	Osceola

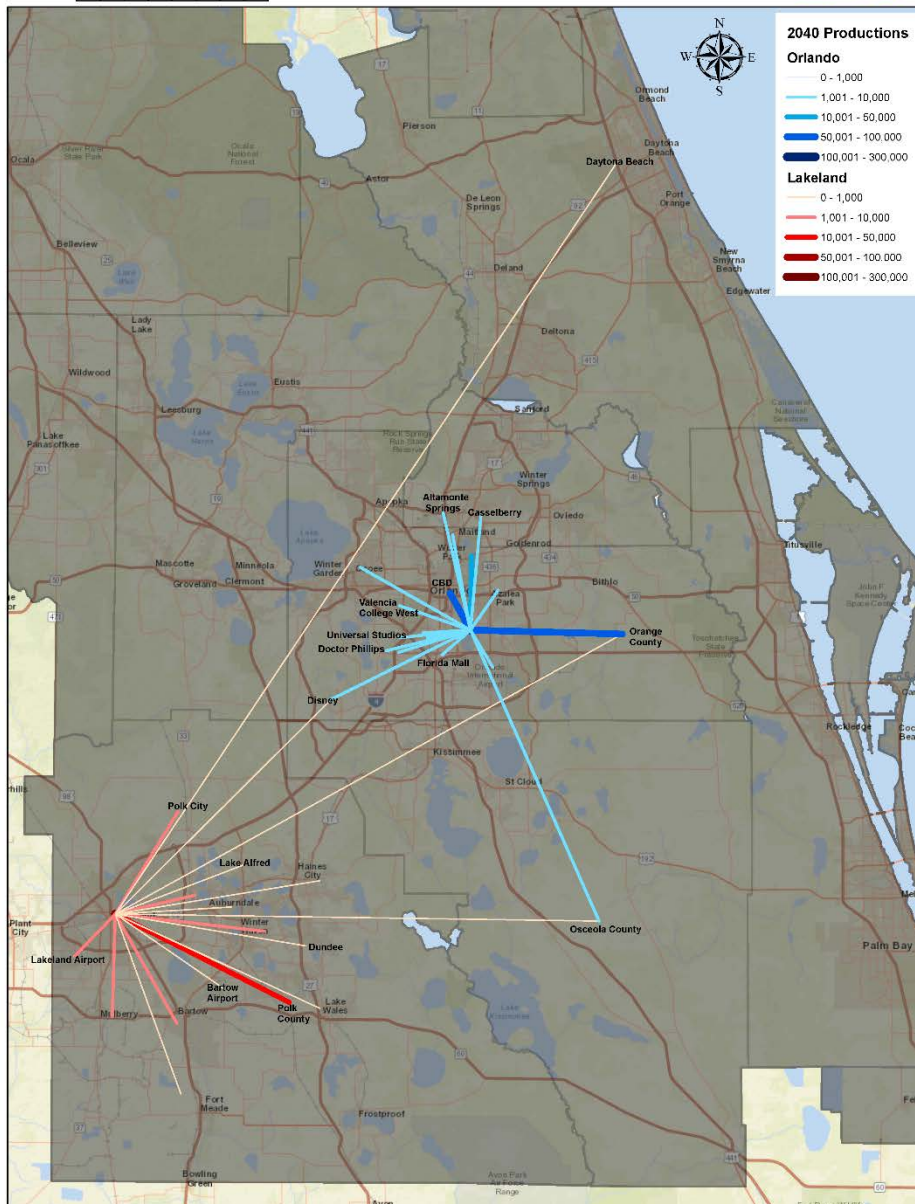




# Top 20 2040 Productions from Orlando<sup>1</sup> and Lakeland<sup>2</sup>

SCALE: 0 5 10 20 Miles

Date: 6/5/2017



## Major Activity Centers

25

### ➤ Top 10 Major Activity Centers

- Top 20 Trip Productions

### ➤ Percentage of person trips represented by all district trips (noted at bottom of map)

### ➤ 2040 & 2060 Trip Productions

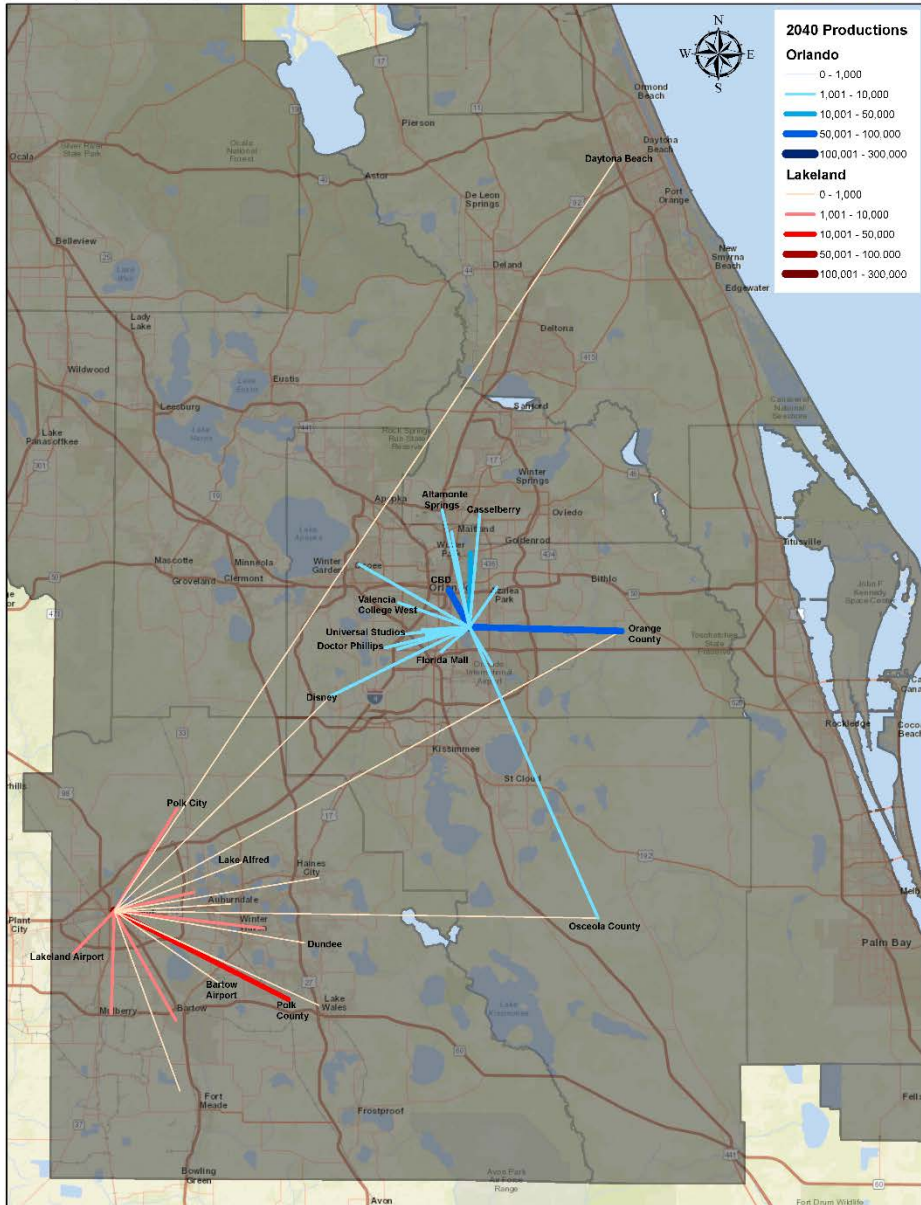
Rank 1 - Represents 94% of person trips from Orlando. Intra district productions = 240,373.  
 Rank 2 - Represents 99% of person trips from Lakeland. Intra district productions = 186,364.



# Top 20 2040 Productions from Orlando<sup>1</sup> and Lakeland<sup>2</sup>

SCALE: 0 5 10 20 Miles

Date: 6/5/2017

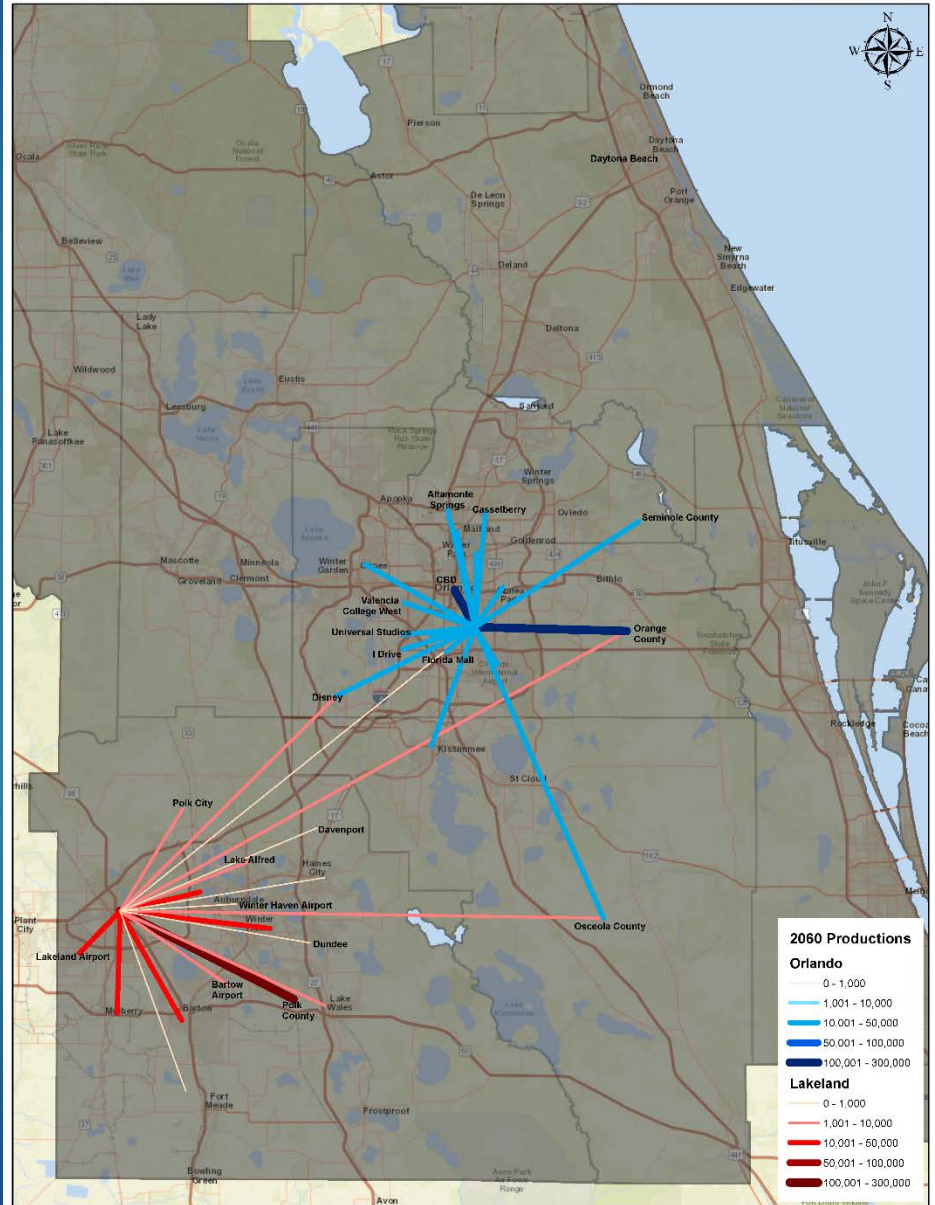


Rank 1 - Represents 94% of person trips from Orlando. Intra district productions = 240,373.  
 Rank 2 - Represents 99% of person trips from Lakeland. Intra district productions = 186,364.

# Top 20 2060 Productions from Orlando<sup>1</sup> and Lakeland<sup>2</sup>

SCALE: 0 5 10 20 Miles

Date: 6/5/2017

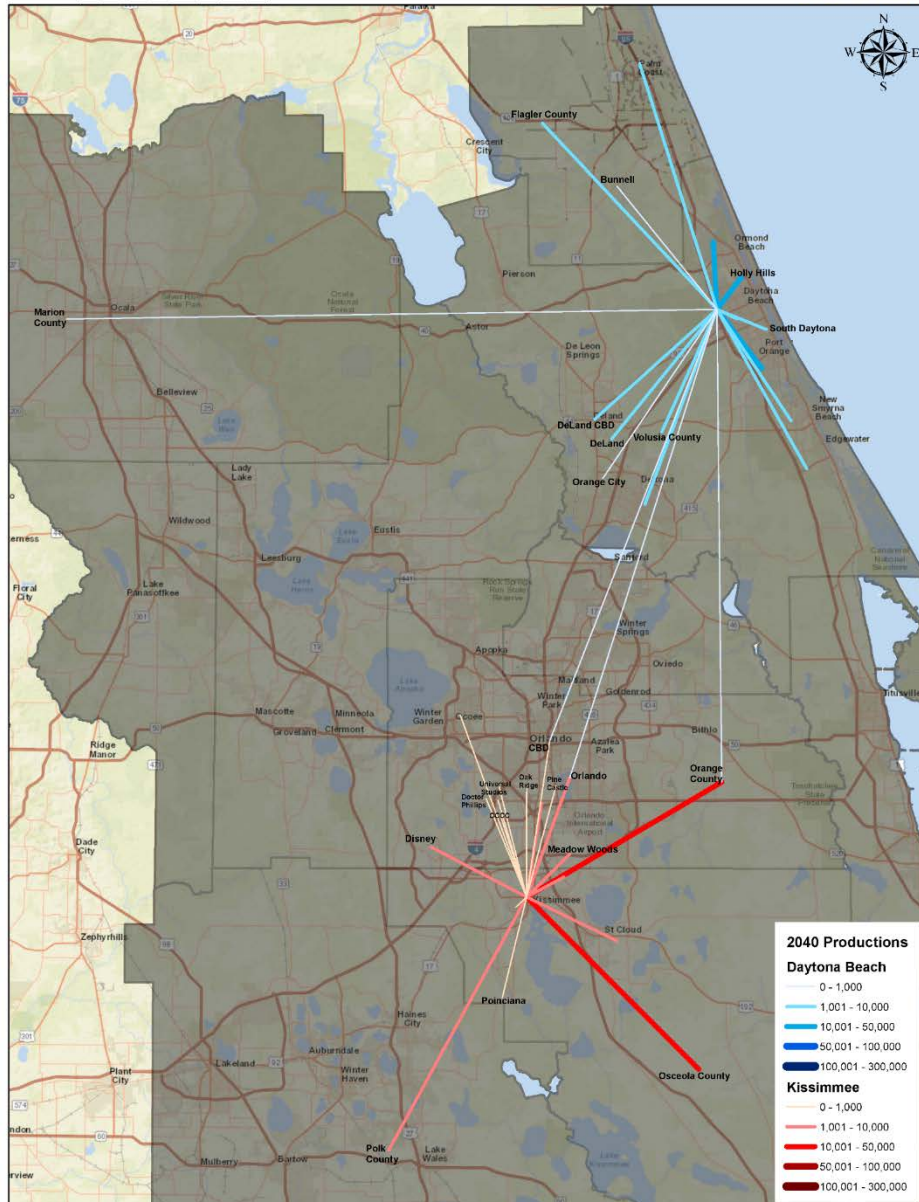


Rank 1 - Represents 91% of person trips from Orlando. Intra district productions = 744,556.  
 Rank 2 - Represents 99% of person trips from Lakeland. Intra district productions = 551,235.

# Top 20 2040 Productions from Daytona Beach<sup>3</sup> and Kissimmee<sup>4</sup>

SCALE: 0 5 10 20 Miles

Date: 6/5/2017

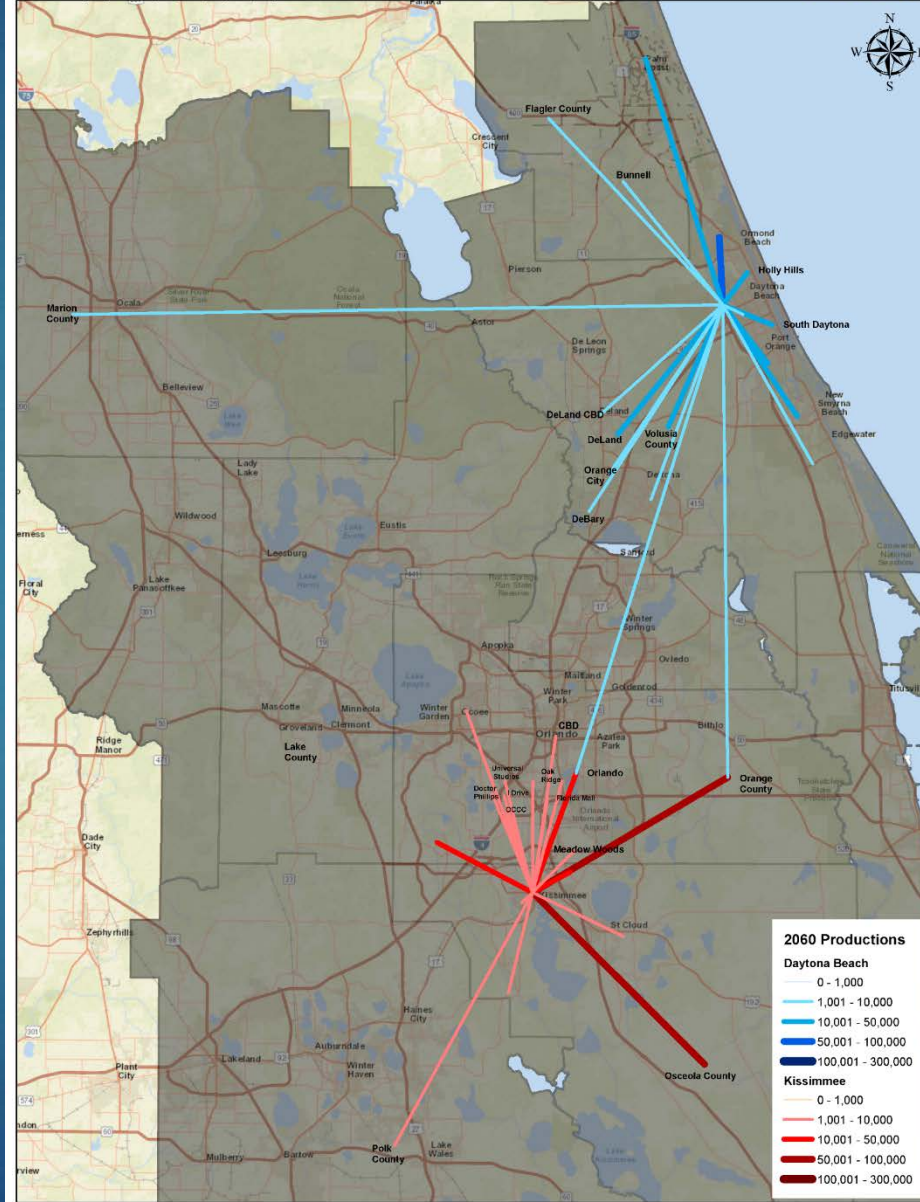


Rank 3 - Represents 96% of person trips from Daytona Beach. Intra district productions = 100,851.  
 Rank 4 - Represents 97% of person trips from Kissimmee. Intra district productions = 64,780.

# Top 20 2060 Productions from Daytona Beach<sup>3</sup> and Kissimmee<sup>5</sup>

SCALE: 0 5 10 20 Miles

Date: 6/5/2017



Rank 3 - Represents 95% of person trips from Daytona Beach. Intra district productions = 339,917.  
 Rank 5 - Represents 95% of person trips from Kissimmee. Intra district productions = 206,765.

# Top 10 Major Activity Centers

## Year 2040

1. Orlando
2. Lakeland
3. Daytona Beach
4. Kissimmee
5. Palm Bay
6. Winter Haven
7. Disney
8. Palm Coast
9. Ocala
10. Melbourne

## Year 2060

1. Orlando
2. Lakeland
3. Daytona Beach
4. Disney
5. Kissimmee
6. Palm Bay
7. Winter Haven
8. Ocala
9. Palm Coast
10. Leesburg

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13. Leesburg

12. Melbourne



# Top 10 Major Activity Centers

Year 2040: 125,449 Trips – Orange County to Orlando

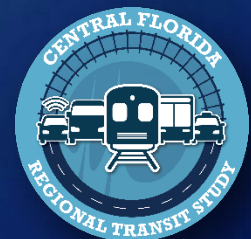
Year 2060: 12 Activity Center to Activity Center > 100K

2040 TRIPS	2060 TRIPS	From Activity Center	To Activity Center
125,449	397,062	Orange County	Orlando
<100K	280,440	Orlando	Orange County
<100K	207,029	Marion County	Ocala
<100K	198,460	Polk County	Lakeland
<100K	181,099	Osceola County	Orange County
<100K	169,134	Orange County	Disney
<100K	143,611	Orlando	Orlando CBD
<100K	137,452	Osceola County	Disney
<100K	120,877	Lakeland	Polk County
<100K	114,649	Osceola County	Kissimmee
<100K	104,489	Ocala	Marion County
<100K	102,729	Orange County	Orlando CBD



# Findings

- No significant Regional Travel Markets justifying Major 10 County Transit Capital Investment
  - No regional travel markets exceeding 100k daily trips threshold
- Regional Service Demand valid for supportive transit services
  - Enhance Regional and Local bus networks
  - Support Current and Future Private Providers
  - Enhance network with sub-regional and market driven capital infrastructure investments
- Significant Local Travel Markets within urbanized areas
  - Several localized urban area to county travel markets exceeding 100k daily trips threshold
- Existing SunRail corridor support future Orlando Urban Area and Regional north-south demands
  - Build upon this corridor investment for significant Intra-Urban area investments



# Summary of Work Completed to Date

1. Base Conditions/Databases
2. Assessment of MPO/TPO Plans and Programs
3. Assessment of Transit Agency Plans and Programs
4. Projected 2040/2060 Travel Desire Lines between:
  - MPO/TPOs
  - Counties
  - Major Activity Centers
5. Assessment of Local Land Use Plans and Land Development Policies
6. Assessment of Transit Funding and Presentation of Potential Sources



# Conceptual Regional Transit Vision Framework

## SUNRAIL

- The extension of the SunRail commuter rail system into Polk County, with future stations at Haines City, Auburndale and Lakeland.
- The extension of SunRail to DeLand in Volusia County.

## BRIGHTLINE

- From a local standpoint, possible commuter rail along the FEC corridor, with the Brevard TPO plan proposed regional commuter rail stops at the rail stations in Titusville, Cocoa, Eau Gallie, Melbourne and Palm Bay; and potential new station locations at Melbourne International Airport and the Space Coast Regional Airport in Titusville.
- For the Regional Transit Vision Framework, a future Brightline intercity rail station near Cocoa (possibly at the Brevard identified Clearlake Road location), and another near midpoint along SR 528 to serve the Northeast Sector/Ranch development.

## PRIVATE BUS

- As noted in MPO/TPO plans in handout.

## MPO/TPO ELEMENTS

- 2040/2060 Graphics on screen and handout.





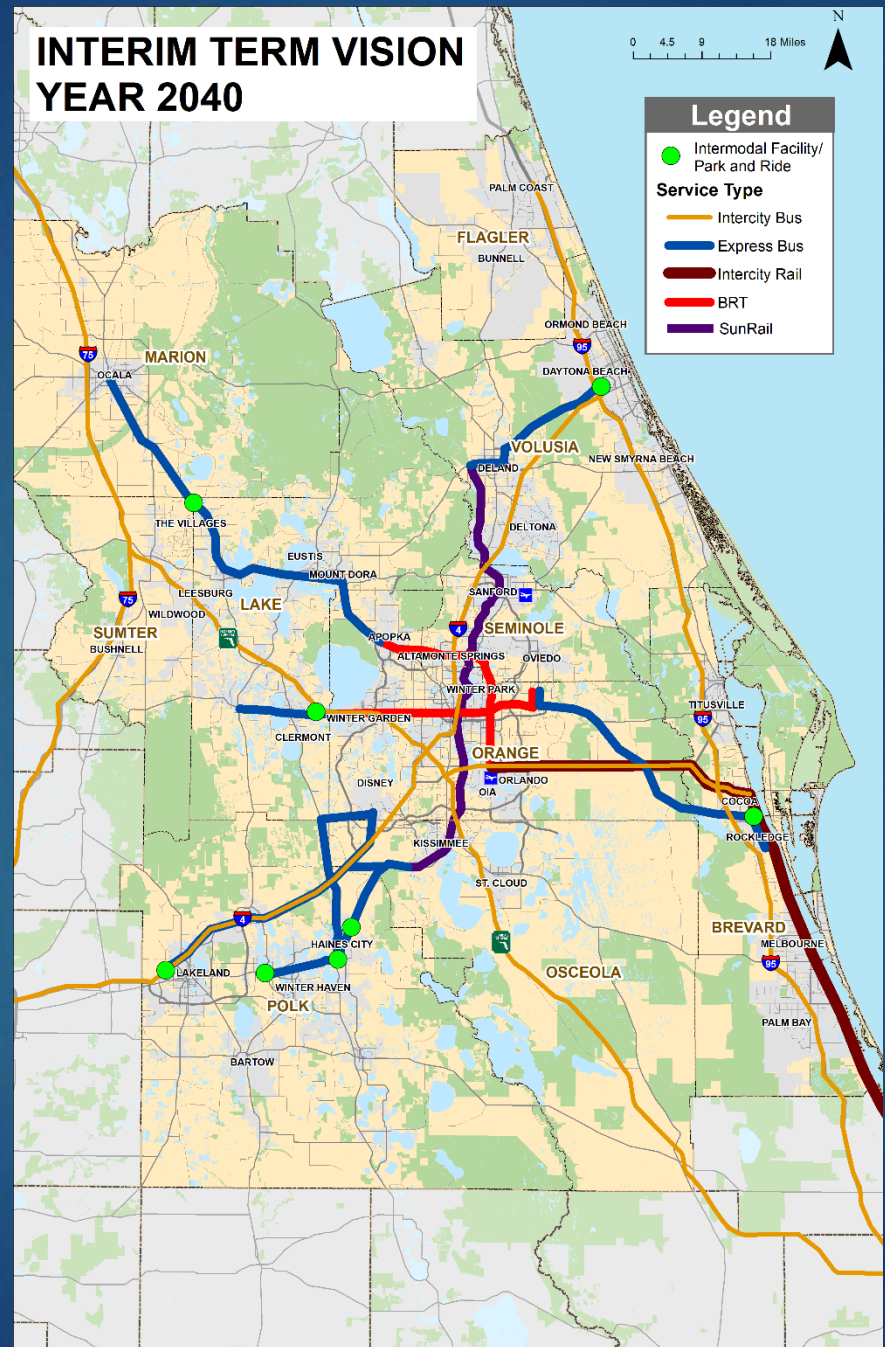
# INTERIM TERM VISION YEAR 2040

0 4.5 9 18 Miles



## Legend

- Intermodal Facility/  
Park and Ride
- Intercity Bus
- Express Bus
- Intercity Rail
- BRT
- SunRail



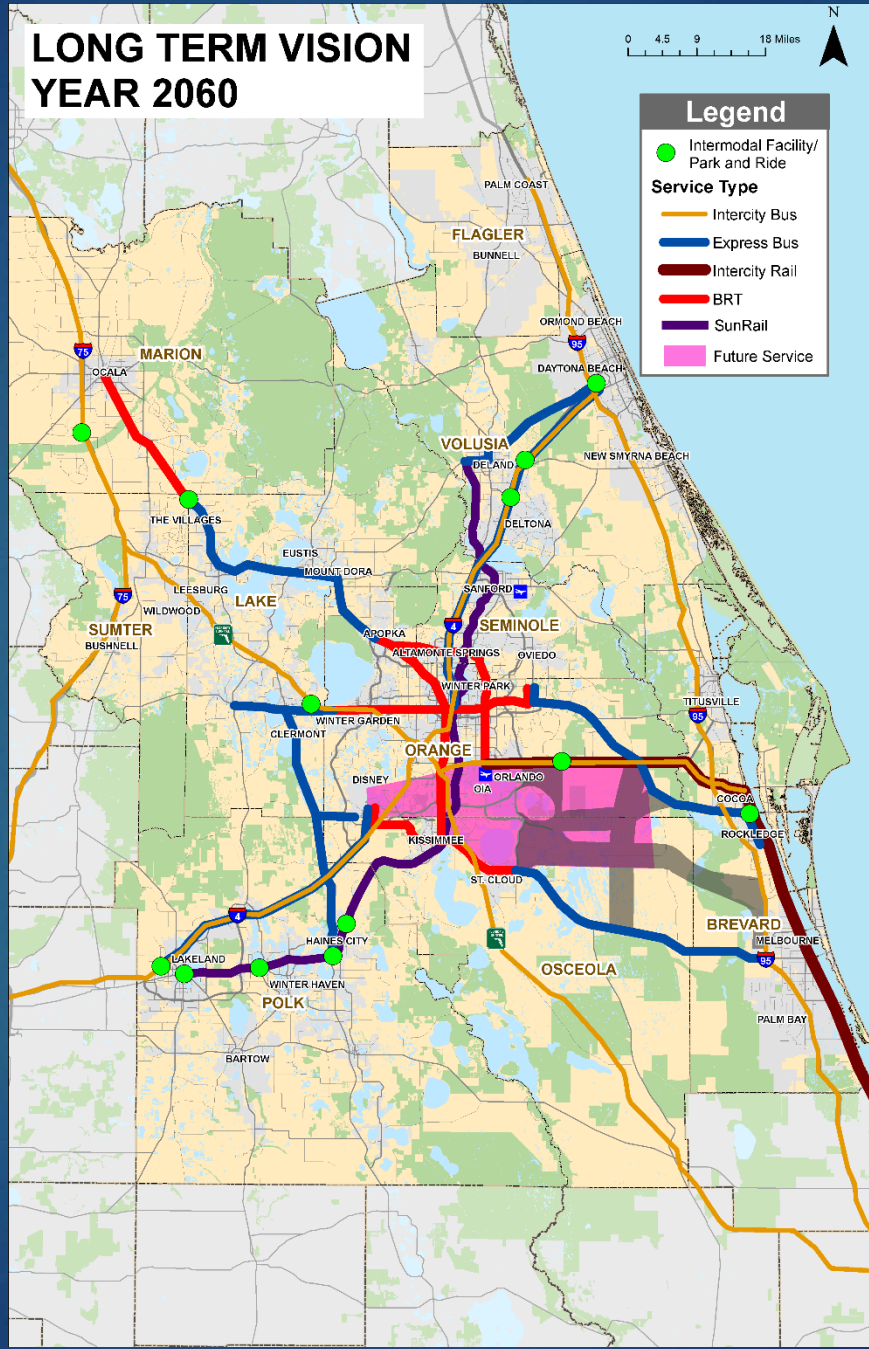
# LONG TERM VISION YEAR 2060

0 4.5 9 18 Miles



## Legend

- Intermodal Facility/  
Park and Ride
- Service Type**
- Intercity Bus
- Express Bus
- Intercity Rail
- BRT
- SunRail
- Future Service



# Next Steps/Path Forward

- Present to MPO/TPO Boards
- Produce Final Draft for PAG Review
- Present Final Plan to PAG; then MPO Alliance



# Thank You!

