

**SERPM8.0 TRAVEL DEMAND MODEL UPDATE**  
**DATA AVAILABILITY AND NEEDS**  
**UPDATED JANUARY 18 2017 - UPDATES IN RED**

DATA ITEM		DESCRIPTION/COMMENTS	AGENCY/DETAILS/TIMING	DATA STATUS
<b>ZONAL DATA</b>				
A1	Geographies for development	2010 TAZ, MAZ, and TAD will serve as the geographies for the overall work program	<b>Agency:</b> FDOT <b>Timing:</b> done	2010 TAZ and MAZ shape files provided in model distribution  Are TADs provided in model distribution?
A2	Census and American Community Survey Data	Both census data from 2010 and the latest 3- and 5-year ACS datasets (variables as needed)	<b>Agency:</b> CS <b>Timing:</b> As needed	
A3	Population	Population control totals at MAZ, TAZ, and PUMA	<b>Agency:</b> <ul style="list-style-type: none"> <li>• MPOs</li> <li>• CS to validate</li> </ul> <b>Timing:</b> 2/1/2017	
A4	InfoGroup data	Used to produce MAZ level employment	<b>Agency:</b> FDOT <b>Timing:</b> done	2014 data currently available, 2015 may not be made available
A5	ES-202 employment data	Used to produce MAZ level employment	<b>Agency:</b> FDOT <b>Timing:</b> done	2015 data available
A6	Commercial space usage	Building gross floor area, property lease rates, and employee per square foot factor(s) - to be used to validate employment data.	<b>Agency:</b> MPOs <b>Timing:</b> 2/1/2017	
A7	Vehicle ownership by TAZ	Motor vehicle registration dataset	<b>Agency:</b> <ul style="list-style-type: none"> <li>• FDOT - raw data</li> <li>• CS - by TAZ</li> </ul> <b>Timing:</b> 2/1/2017	
A8	Hotel and motel rooms	MAZ level with regional occupancy rate and business/leisure splits	<b>Agency:</b> MPOs <b>Timing:</b> 2/1/2017	

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A9	School enrollment and location	<p>MAZ level</p> <p>Enrollment: K-8; 9-12; Major College; Other College; Adult School District: Elementary school; High school</p> <p>School districts boundaries</p> <p>Private school locations (?)</p>	<p>Agency:</p> <ul style="list-style-type: none"> <li>MPOs to provide districts, enrollment and locations</li> <li>CS to compile and geocode</li> </ul> <p>Timing: 2/1/2017</p>	
A10	University Data	<p>Data from FIU, University of Miami, and Nova Southeastern University</p> <ul style="list-style-type: none"> <li>2015 faculty and staff count (may be on website)</li> <li>2015 enrollment (may be on website)</li> <li>2015 on-campus vs. off-campus student count (may be available via website)</li> <li>2015 geocoded off-campus student address data (local address, not "home" address. Data may need to be anonymized)</li> </ul> <p>Are there any other sizeable universities that need to be considered?</p>	<p>Agency: MPOs</p> <p>Timing: 2/1/2017</p>	
A11	Parking supply and cost	<p>MAZ level</p> <p>By hourly / daily / monthly:</p> <ul style="list-style-type: none"> <li>Parking availability for same or other MAZ</li> <li>Average cost for same or other MAZ</li> </ul> <p>Free parking time limits</p>	<p>Agency: MPOs</p> <p>Timing: 2/1/2017</p>	
A12	Airport enplanements	TAZ level daily enplanements	<p>Agency: MPOs</p> <p>Timing: 2/1/2017</p>	Recent air passenger travel surveys?
A13	Seaport activity	TAZ level	<p>Agency: MPOs</p> <p>Timing: 2/1/2017</p>	
A14	Cruise ship passenger activity	TAZ level	<p>Agency: MPOs</p> <p>Timing: 2/1/2017</p>	
A15	Special Generators	<p>MAZ level</p> <ul style="list-style-type: none"> <li>Shopping mall</li> <li>Beach (with acres)</li> </ul>	<p>Agency: MPOs</p> <p>Timing: 2/1/2017</p>	
<b>ROADWAY DATA</b>				

DATA ITEM		DESCRIPTION/COMMENTS	AGENCY/DETAILS/TIMING	DATA STATUS
B1	Baseline 2010 roadway network layer	Baseline roadway network to modify	Agency: FDOT Timing: done	E+C Rev 03112014 is available – used as a reference, but 2045 E+C should be built off of 2015
B2	Baseline future year roadway network(s) in Cube	Baseline forecast roadway networks to modify	Agency: FDOT Timing: 1/15/2016	
B3	2015 project networks	Will be used to compare and guide development of the 2015 network	Agency: FDOT Timing: 2/1/2017	
B4	Completed roadway projects (2010-2015)	List of highway projects completed in the region with details on changes that will impact static highway network	Agency: FDOT Timing: 2/1/2017	
B5	Pedestrian and Bicycle facility locations and attributes	Bike lanes, cycle-tracks; sidewalk quality	Agency: FDOT Timing: 2/15/2017	
B6	Intersection and roadway median attributes		Agency: FDOT Timing: 2/15/2017	
B7	Traffic signal timing, phasing, and progression coordination	GPS location of traffic signals with associated attributes to be attached to the network	Agency: FDOT Timing: 2/15/2017	

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B8	School zones	Speed restrictions by roadway link	Agency: FDOT Timing: 2/1/2017	
B9	Toll information	Toll schedule for Turnpike, MDX facilities, bridges and express lane operating policies	Agency: FDOT Timing: 2/1/2017	
B10	Ramp metering	Operating policies and data from operation	Agency: FDOT Timing: 2/1/2017	
B11	Traffic Count Data	Traffic count data, including time of day and vehicle class information as available.	Agency: • FDOT • MPOs Timing: MD: 2/15/2017	FDOT, Broward and Palm Beach available online Miami-Dade is combining and processing with 2016 traffic count data

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B12	Traffic Count Seasonal Adjustment Factors	Seasonal adjustment factors. The procedure that picks validation counts outputs both raw and adjusted counts.	<b>Agency:</b> CS – look into developing conversion factors <b>Timing:</b> 1/1/2017	SERP5 used AADT – deemed appropriate given seasonal variations, model forecasts demands on weekdays. Could a regional / county-level factor be used? Could use NHTS data for conversions?  What is the availability of the raw count data to estimate TOD and AWDT factors?
B13	External Station Data	Traffic count data at each external station with vehicle classifications and time of day detail.	<b>Agency:</b> FDOT <b>Timing:</b> 1/15/2017	FDOT has provided information on estimated IE model  FDOT to provide data from external survey
B14	Travel Time/Speed Data	Data from SERPM7 validation Speed from ITS and traffic counters Data from online traffic data sources	<b>Agency:</b> FDOT <b>Timing:</b> 1/1/2017	FDOT has TMC shape file and has done some work processing HERE data CS to determine data format/dates/times to use – will meet at this point
<b>TRANSIT DATA</b>				
C1	2015 transit operating data	Route layout, schedule, and fares	<b>Agency:</b> Transit Operators, CTG to collect <b>Timing:</b> 1/1/2017	CTG to confirm what additional data is needed
C2	Forecast Year Route Assumptions / route system	One or more forecast year transit route systems coded on the corresponding forecast year roadway network(s).	<b>Agency:</b> Transit Operators <b>Timing:</b> 2/15/2017	

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C3	Ridership Data	Systemwide ridership data, including: <ul style="list-style-type: none"> <li>Total average daily ridership for 2015</li> <li>Boardings by transit route</li> <li>Estimated number of boardings per trip (i.e., average number of transfers) based on farebox data</li> <li>Any other detailed data as available (e.g., stop-level data, PnR usage)</li> <li>Average paid fare data, including most passholders, but excluding university passes</li> </ul>	Agency: Transit agencies Timing: 1/1/2017	CTG to confirm availability of data
<b>TRAVEL BEHAVIOR DATA</b>				
D1	Household Survey Data	Complete survey dataset, survey documentation including data dictionaries, information about any recent analysis and/or re-expansion of the survey dataset	Agency: FDOT Timing: May 2017	Critical path item, need to track closely
D2	On-board transit survey	Complete dataset, including raw data, processed/cleaned data, weighting and expansion factors, and documentation. Also, please provide any documentation and data related to recent analysis or adjustments/ revisions.  Including the Palm Tran, BCT, MDT, 95 Express, and Tri-Rail	Agency: Transit agencies Timing: 1/1/2017	CTG to confirm availability of data
D3	2000 SE Florida Travel Characteristics study		Agency: FDOT Timing: As needed	
D4	NHTS	National Household Travel Survey for the SERPM area	Agency: CS Timing: As needed	
D5	CTPP Dataset	Census Transportation Planning Products (CTPP) data for the SERPM area	Agency: CS Timing: As needed	
D6	SunPass user data		Agency: FDOT Timing: 2/15/2017	Leaning towards removing this component from the model. If data is readily available, we will review and conclude.
D7	Streetlight data	2015 / 2016 data with 200 zones for trucks, 100 for passengers, select link analysis at key roadways, select zone around airports and freight locations.	Agency: Timing: TBD	
<b>GIS DATA</b>				

DATA ITEM		DESCRIPTION/COMMENTS	AGENCY/DETAILS/TIMING	DATA STATUS
E1	GIS base layers	Base layers as available including: <ul style="list-style-type: none"> <li>• Street centerline</li> <li>• City limits</li> <li>• Planning areas</li> <li>• County boundaries</li> <li>• District boundaries</li> <li>• Public lands</li> <li>• School locations</li> <li>• Water features (lakes/rivers/streams)</li> <li>• Non-motorized facilities (e.g., sidewalks, bike lanes/paths, bicycle/pedestrian prohibitions)</li> </ul>	Agency: FDOT Timing: 1/15/2017	Districts, county, city limits are available on website
E2	Aerial Photography	Aerial photography suitable for loading into ArcGIS	Agency: FDOT Timing: 1/15/2017	
<b>FREIGHT DATA</b>				
F1	Goods volumes and truck traffic counts	For a defined list of “major freight distribution centers”	Agency: MPOs Timing: 2/1/2017	Need to identify major freight distribution centers
<b>MODEL DATA</b>				
G1	Existing Travel Model Program	Resource code, model Add-In, model documentation <i>Version 7.062 available</i>	Agency: FDOT Timing: Next version?	<ul style="list-style-type: none"> <li>• Current version 7.062</li> </ul> Ongoing tasks (PB): <ul style="list-style-type: none"> <li>• Methodology for adding TAZs and MAZs</li> </ul>
G2	Existing Travel Model Data/Scenarios	Base, interim, and forecast scenarios (including SED, area type, TAZ layer, networks, etc.). This will include inputs, outputs, and summary files.	Agency: FDOT Timing: done – 7.062	
G3	Travel Model screenline definitions	The current or proposed screenlines.	Agency: FDOT Timing: 2/1/2017	