



NERPM-AB 2.0 Update

June 2020

Presentation Outline

- Summary of Updates
- Parcel to Microzone
- Population Synthesis
- Model Calibration and Validation
- DaySim Data Editing
- Running the Model
- System Requirements



Model training webinars, slides and documentation can be found here -

http://northfloridatpo.com/modelwiki/Support/Training









Model Platform Updates

- Base year updated from 2010 to 2015
- Re-built all land use inputs for 2015 and future
 - Population Enrollment
 - Employment Parking
- Switched from parcels to microzones to ease data preparation
 - From ~700k parcels to ~50k microzones
- Re-built population synthesis
 - Switched from PopGen to PopulationSim



Model Platform Updates (Continued)

• Updated the highway network to 2015 (NFTPO)

• Updated the transit network to 2016 (JTA)

 Updated external traffic volumes and distributions based on Bluetooth OD data (FDOT)



Model Platform Updates (Continued)

- Upgraded from the NFTPO specific version of DaySim to the multiple-agency (a.k.a. core) version
 - Faster, more stable, and includes new features such as Transportation Network Companies (TNC) mode (i.e. Uber and Lyft)

- Updated future year scenarios
 - Interim Year: 2025 to 2030
 - Horizon Year: 2040 to 2045







Parcel to MAZ - Summary

County	Number of Parcels	% Freq	Number of MAZ	% Freq	Number of TAZ	% Freq
Baker	12,490	1.78	1,735	3.14	29	1.56
Clay	84,529	12.02	7,796	14.13	184	9.88
Duval	355,805	50.59	28,263	51.22	1,281	68.80
Nassau	47,443	6.75	4,455	8.07	108	5.80
Putnam	102,053	14.51	6,652	12.05	44	2.36
St. Johns	100,950	14.35	6,283	11.39	216	11.60
Total	703,270	100.00	55,184	100.00	1,862	100.00

TAZ – Traffic Analysis Zone MAZ - Microzone



MAZ Layer













PopulationSim

- PopulationSim is an open platform for population synthesis
- Replaced PopGen in this version of NERPM-AB
- Has better demographic and geographic methods compared to PopGen
- Actively maintained by the travel modeling community
- Run only when there are major changes in the landuse data

https://activitysim.github.io/populationsim/



Validation of Results

Standard deviation (SDEV) of the percentage difference





Validation of Results

Percentage root mean square error (RMSE)

MAZ - Total Households -		•	
TAZ - Household Size: 1 person HH -		•	
TAZ - Household Size: 2 person HH			
TAZ - Household Size: 3 person HH -			
TAZ - Household Size: 4+ person HH -		•	
TAZ - Householder Age: 15-44 years -		•	
TAZ - Householder Age: 45-64 years -		•	
TAZ - Householder Age: >=65 years -		•	
TAZ - Household Workers: 0 worker HH -		•	
TAZ - Household Workers: 1 worker HH -		•	
TAZ - Household Workers: 2 worker HH -		•	
TAZ - Household Workers: 3+ worker HH -		+	
TAZ - Household Income: (-Inf,24999) -		•	
TAZ - Household Income: (24999,59999) -		•	
TAZ - Household Income: (59999,99999) -		•	
TAZ - Household Income: (99999,+Inf)		•	
SCOUNTY - Person Sex: Male			
SCOUNTY - Person Sex: Female -		1- 0	
SCOUNTY - Person Age: 0-4 years -		•	
SCOUNTY - Person Age: 5-17 years -		Han 1	
SCOUNTY - Person Age: 18-24 years -		H	
SCOUNTY - Person Age: 25-54 years -		H	
SCOUNTY - Person Age: >=55 years -		H	
-50	-25 Percentag	0 ge Difference [+/- PRMS	25 50 E]

JAX PopulationSim Controls Validation



PopulationSim Wiki

https://activitysim.github.io/populationsim/







Model Calibration and Validation



Calibration and Validation Target Data

- Household travel demand models
 → 2017 North Florida Travel Survey
- Transit models
 → 2016 Onboard Rider Demographic Survey
- Highway models
 - \rightarrow Traffic counts from FDOT



Baker, Clay, Duval, Nassau Putnam and St. Johns Counties







Population and Employment

County	2015 Population	2015 Employment	BEA 2015	2030 Population	2030 Employment 2	045 Population	2045 Employment
Baker	23,138	9,649	9,695	32,340	15,876	37,723	20,123
Clay	189,600	68,871	69,317	263,882	120,166	321,984	156,073
Duval	854,757	624,952	623,596	1,078,136	786,052	1,231,564	888,333
Nassau	76,672	30,948	31,086	97,500	49,367	116,024	60,801
Putnam	71,687	22,605	22,780	78,328	34,695	84,790	38,102
St Johns	202,375	105,077	104,983	318,041	197,421	412,811	287,415
Grand Total	1,418,229	862,102	861,457	1,868,227	1,203,577	2,204,896	1,450,847



Tour Generation





Tour Generation Results

TOURS BY PURPOSE

Purpose	Survey	Model	Diff	% Diff
work	502,629	486,489	-16,140	-3%
school	220,485	247,492	27,007	12%
escort	226,101	261,698	35,597	16%
pers.bus	174,945	230,061	55,116	32%
shop	152,201	198,419	46,218	30%
meal	60,801	75,273	14,472	24%
soc/rec	182,200	224,374	42,174	23%
workbased	42,429	44,651	2,222	5%
Total	1,561,792	1,768,457	206,665	13%

TOUR RATES BY PURPOSE

Survey	Model	Diff	% Diff
0.38	0.34	-0.04	-9%
0.17	0.17	0.01	5%
0.17	0.18	0.01	8%
0.13	0.16	0.03	23%
0.11	0.14	0.03	22%
0.05	0.05	0.01	16%
0.14	0.16	0.02	15%
0.03	0.03	0.00	-2%
1.18	1.25	0.07	6%

TOURS BY PERSONTYPE

TOUR RATES BY PERSONTYPE

Persontype	Survey	Model	Diff	% Diff	Survey	Model	Diff	% Diff
ft worker	719,760	747,789	28,029	4%	1.33	1.42	0.09	7%
pt worker	70,475	104,871	34,396	49%	1.19	1.22	0.02	2%
retired	192,184	182,550	-9,634	-5%	1.11	1.22	0.11	9%
nonworker	202,860	266,531	63,671	31%	1.00	1.08	0.09	9%
univ.stud	47,126	54,164	7,038	15%	1.07	0.92	-0.16	-15%
stud 16+	42,652	60,017	17,365	41%	1.13	1.22	0.10	9%
stud.5-15	203,943	234,171	30,228	15%	1.10	1.18	0.08	7%
under 5	82,792	118,364	35,572	43%	0.99	1.16	0.16	17%
Total	1,561,792	1,768,457	206,665	13%	1.18	1.25	0.07	6%



Work and School Location Results





Tour Destination Distances Results





Tour Destination Distances Results (2)





Tour Mode Choice Results



Tour Mode Choice



Trip Mode Choice Results



Trip Mode Choice



Highway Assignment Results







Transit Assignment Results

MEASURE	OBSERVED	ABM	DIFF	% DIFF
boardings	42,058	44,302	2,244	5%
trips	25,707	26,958	1,251	5%
boarding rate	1.60	1.64	(0.04)	0%









Model Directory Structure





• Network Data Preparation (*Network_DataPrepv2.exe*)

Function: This step calculates "nearby" pairs of microzones for shortest distance path calculations

• Shortest Path Update (*DTALite64.exe*)

Function: DTALite, a dynamic traffic assignment software, is used to generate node-tonode shortest path distances using the all streets network

• Buffering Microzones (*DSBuffTool.exe*)

Function: This step calculates the new Microzone buffer measures to be used in DaySim

Projects > Clients > FL_NFTPO > Models > NERPMABv2.0 > User.prg > DaySim_Data_Tools							
Name	Date modified	Туре	Size				
DSBuffTool.exe	1/24/2020 8:52 AM	Application	62 KB				
DTALite64.exe	1/24/2020 8:52 AM	Application	867 KB				
Network_DataPrepv2.exe	3/17/2020 6:32 PM	Application	348 KB				



Network Data Preparation

- Tool: Network_DataPrepv2.exe
- Directory: \User.prg\DaySim_Data_Tools

Inputs:

- input_node.csv (Node x, y from an all-streets network)
- nftpo_MAZs_year.dat (The coordinates of the newly developed microzones)
- nftpo_netprep.ctl (Network prep control file)

Output:

input_od_pairs.csv (for input to shortest path update tool)



Shortest Path Update

Tool: DTALite64.exe Directory: \User.prg\DaySim_Data_Tools

Inputs:

- input_od_pairs.csv (from the Network Data Preparation tool)
- input_node.csv (from all-street network)
- input_link_type.csv (from all-street network)
- input_link.csv (from all-street network)
- DTASettings.ini (settings file)

Output:

output_shortest_path.txt (for input to Buffering microzones)



Buffering micro-zones

Tool: DSBuffTool.exe Directory: \User.prg\DaySim_Data_Tools

Inputs:

- nftpo_microzones_2015.csv (Base Microzone file)
- nftpo_Intersections.csv (Street intersections file)
- nftpo_transitstops.csv (Transit stops file)
- nftpo_openspaces.csv (Open spaces/parks file)
- input_node.csv (All-street Network nodes file)

output_shortest_path.txt (Node-to-node shortest path distance file)

Output:

- buffered_microzone_2015.dat (to be used in DaySim)
- microzonenode.dat (to be used in DaySim)
- output_shortest_path.txt.bin (Change extension using batch file)
- output_shortest_path.txt.index (Change extension using batch file)



Changing Model Inputs

- Landuse Data
 - Open and edit the base microzone file (nftpo_microzones_{year}.csv)
 - Run DaySim Data Tools
 - Run PopulationSim (if required)
 - Copy outputs to the model input directory
 - Update the emp_year.dbf file (using Cube)
- Highway Network
 - Open and edit the MicroCodedHnet42.net file in Cube
- Transit Network
 - Open and edit the TROUTE_{YEAR}.LIN file for routes, stops, headways
 - Open and edit the TFARES_{YEAR}.FAR file for fares





Running Population Synthesis



Running PopulationSim

- For any changes in the household and population attribute, update control totals -
 - control_totals_maz.csv
 - control_totals_taz.csv
 - control_totals_county.csv

Projects > Clients > FL_NFTPO > Models >	NERPMABv2.0 > User.prg	Population_Synthematics	esis > data
Name	Date modified	Туре	Size
.gitignore	1/24/2020 9:06 AM	Text Document	1 KB
control_totals_county.csv	1/24/2020 9:06 AM	Microsoft Excel C	1 KB
control_totals_maz.csv	1/24/2020 9:06 AM	Microsoft Excel C	1,647 KB
control_totals_taz.csv	1/24/2020 9:06 AM	Microsoft Excel C	132 KB
geo_cross_walk.csv	1/24/2020 9:06 AM	Microsoft Excel C	2,874 KB
seed_households.csv	1/24/2020 9:06 AM	Microsoft Excel C	15,338 KB
seed_persons.csv	1/24/2020 9:06 AM	Microsoft Excel C	47,233 KB



Running PopulationSim

Step 1: Run PopulationSim

- Open command window in the *Population_Synthesis* directory
- run RunPopulationSim.bat file

N	Determined in the	T	C
Name	Date modified	Туре	Size
Anaconda2	5/13/2020 1:05 PM	File folder	
configs	5/13/2020 1:05 PM	File folder	
🔜 data	5/13/2020 1:05 PM	File folder	
📙 output	6/26/2020 8:13 PM	File folder	
popsim_to_daysim	5/13/2020 1:05 PM	File folder	
🐻 run_populationsim.py	1/24/2020 8:54 AM	PY File	3 KE
RunPopulationSim.bat	1/24/2020 8:54 AM	Windows Batch File	2 KE

5/13/2020 1:05 PM	File folder							
5/13/2020 1:05 PM	File folder							
5/13/2020 1:05 PM	File folder							
6/26/2020 8:13 PM	File folder							
5/13/2020 1:05 PM	File folder							
1/24/2020 8:54 AM	PY File	3	3 KB					
1/24/2020 8:54 AM	Windows Batch File	2	2 KB					
stem32\cmd.exe						_		
	5/13/2020 1:05 PM 5/13/2020 1:05 PM 6/26/2020 8:13 PM 5/13/2020 1:05 PM 1/24/2020 8:54 AM 1/24/2020 8:54 AM	5/13/2020 1:05 PM File folder 5/13/2020 1:05 PM File folder 6/26/2020 8:13 PM File folder 5/13/2020 1:05 PM File folder 1/24/2020 8:54 AM PY File 1/24/2020 8:54 AM Windows Batch File	5/13/2020 1:05 PM File folder 5/13/2020 1:05 PM File folder 6/26/2020 8:13 PM File folder 5/13/2020 1:05 PM File folder 1/24/2020 8:54 AM PY File 1/24/2020 8:54 AM Windows Batch File	5/13/2020 1:05 PM File folder 5/13/2020 1:05 PM File folder 6/26/2020 8:13 PM File folder 5/13/2020 1:05 PM File folder 1/24/2020 8:54 AM PY File 3 KB 1/24/2020 8:54 AM Windows Batch File 2 KB stem32\cmd.exe	5/13/2020 1:05 PM File folder 5/13/2020 1:05 PM File folder 6/26/2020 8:13 PM File folder 5/13/2020 1:05 PM File folder 1/24/2020 8:54 AM PY File 3 KB 1/24/2020 8:54 AM Windows Batch File 2 KB	5/13/2020 1:05 PM File folder 5/13/2020 1:05 PM File folder 6/26/2020 8:13 PM File folder 5/13/2020 1:05 PM File folder 1/24/2020 8:54 AM PY File 3 KB 1/24/2020 8:54 AM Windows Batch File 2 KB stem32\cmd.exe	5/13/2020 1:05 PM File folder 5/13/2020 1:05 PM File folder 6/26/2020 8:13 PM File folder 5/13/2020 1:05 PM File folder 1/24/2020 8:54 AM PY File 3 KB 1/24/2020 8:54 AM Windows Batch File 2 KB	5/13/2020 1:05 PM File folder 5/13/2020 1:05 PM File folder 6/26/2020 8:13 PM File folder 5/13/2020 1:05 PM File folder 1/24/2020 8:54 AM PY File 3 KB 1/24/2020 8:54 AM 1/24/2020 8:54 AM Windows Batch File stem32\cmd.exe –



Running PopulationSim

Step 2: popsim_to_daysim

- Open PopSim_to_DaySim.R file in Rstudio.
- Check the output file names in the script
- Run the script

121 ### Set daysim input files as output 122 hhoutfile <- file.path(basedir, "output/household_2015.dat") 123 peroutfile <- file.path(basedir,"output/person_2015.dat")</pre>

174

ects > Clients > FL_NFTPO > Models > NERPMABv2.0 > User.prg > Population_Synthesis > popsim_to_daysin						
Name	Date modified	Туре	Size			
data	5/13/2020 1:05 PM	File folder				
output	5/13/2020 1:05 PM	File folder				
gitignore	1/24/2020 9:06 AM	Text Document	1 KB			
.Rhistory	6/26/2020 7:09 PM	RHISTORY File	3 KB			
PopSim_to_DaySim.R	1/24/2020 9:06 AM	R File	8 KB			







To add 100 additional households to an MAZ, the user needs to run the DaySim data tools, PopulationSim, and the model

- 1. Update the base microzone file (nftpo_microzones_year.csv)
- 2. Run DaySim data tools (DSBuffTool.exe)
- 3. Copy outputs (buffered_maz_year.csv) to the model scenario input directory
- 4. Update PopulationSim controls (control_totals_maz.csv, control_total_taz.csv, control_totals_county.csv)
- 5. Run PopulationSim
- 6. Run PopSim_to_DaySim.R
- 7. Copy outputs to the model scenario input directory
- 8. Run the model



1. Update the base microzone file (nftpo_microzones_year.csv)

Projects > Clients > FL NFTPO > Models > NERPMABv2.0 > User.prg > DaySim Data Tools Size Name Date modified Type DSBuffTool.exe Application 1/24/2020 8:52 AM 62 KB DTALite64.exe 867 KB 1/24/2020 8:52 AM Application Network_DataPrepv2.exe Application 348 KB 3/17/2020 6:32 PM Configuration sett... DTASettings.ini 2 KB 7/7/2020 2:41 PM nftpo_netprep.ctl 6/26/2020 3:47 PM CTL File 2 KB XII buffered_maz_2015.dat 4/27/2020 5:19 PM DAT File 23,004 KB XII buffered_maz_2030.dat 4/27/2020 6:31 PM DAT File 23,110 KB XII buffered_maz_2045.dat DAT File 7/7/2020 3:02 PM 23,158 KB XII microzonenode.dat 686 KB 7/7/2020 2:51 PM DAT File XII netout.dat 7/7/2020 2:25 PM DAT File 2,184 KB XII nftpo_MAZs_2015.dat 1/24/2020 8:53 AM DAT File 1,175 KB XI output shortest path txt bin.dat 7/7/2020 3:02 PM DAT File 1,509,646 KB XII output_shortest_path_txt_index.dat DAT File 2.395 KB 7/7/2020 3:02 PM MAZ_2015_2045_2030.dbf 1/24/2020 8:53 AM DBF File 30,936 KB Microsoft Excel C... input_link.csv 1/24/2020 8:52 AM 7,468 KB input_link_type.csv 1/24/2020 8:52 AM Microsoft Excel C... 1 KB input_node.csv 1/24/2020 8:52 AM Microsoft Excel C... 2,156 KB input_od_pairs.csv 7/7/2020 2:41 PM Microsoft Excel C... 4,222,276 KB amaz_15_30_45.csv 8,428 KB 1/24/2020 8:53 AM Microsoft Excel C... anftpo_Intersections.csv 1/24/2020 8:53 AM Microsoft Excel C... 2,996 KB nftpo_microzones_2015.csv 3,829 KB 4/27/2020 5:06 PM Microsoft Excel C... - D 2 22 C 1/2 ----. ... e. = . .



	NERPMABv2.0 > User.pr	g → DaySim_Data_Too	ls	
	Name	Date modified	Туре	Size
2a. Run DaySim data tools	DSBuffTool.exe	1/24/2020 8:52 AM	Application	62 KB
(DSBuffTool.exe)	TALite64.exe	1/24/2020 8:52 AM	Application	867 KB
	Network_DataPrepv2.exe	3/17/2020 6:32 PM	Application	348 KB
	DTASettings.ini	7/7/2020 2:41 PM	Configuration sett	2 KB
	nftpo_netprep.ctl	6/26/2020 3:47 PM	CTL File	2 KB
	🛛 buffered_maz_2015.dat	4/27/2020 5:19 PM	DAT File	23,004 KB
	🛛 buffered_maz_2030.dat	4/27/2020 6:31 PM	DAT File	23,110 KB
	🛛 buffered_maz_2045.dat	7/7/2020 3:02 PM	DAT File	23,158 KB
	🛛 microzonenode.dat	7/7/2020 2:51 PM	DAT File	686 KB
	XII netout.dat	7/7/2020 2:25 PM	DAT File	2,184 KB
	Nftpo_MAZs_2015.dat	1/24/2020 8:53 AM	DAT File	1,175 KB
	I output_shortest_path_txt_bin.dat	7/7/2020 3:02 PM	DAT File	1,509,646 KB
	🛛 output_shortest_path_txt_index.dat	7/7/2020 3:02 PM	DAT File	2,395 KB
	MAZ_2015_2045_2030.dbf	1/24/2020 8:53 AM	DBF File	30,936 KB
	input_link.csv	1/24/2020 8:52 AM	Microsoft Excel C	7,468 KB
	input_link_type.csv	1/24/2020 8:52 AM	Microsoft Excel C	1 KB
	input_node.csv	1/24/2020 8:52 AM	Microsoft Excel C	2,156 KB
	input_od_pairs.csv	7/7/2020 2:41 PM	Microsoft Excel C	4,222,276 KB
	a maz_15_30_45.csv	1/24/2020 8:53 AM	Microsoft Excel C	8,428 KB
	Intpo_Intersections.csv	1/24/2020 8:53 AM	Microsoft Excel C	2,996 KB
	nftpo_microzones_2015.csv	4/27/2020 5:06 PM	Microsoft Excel C	3,829 KB
	* C C C C C C C C C C	1 (07) (0000 C 4 C D) 4	1 C C C C C C C C C C C C C C C C C C C	0.000.000



2b. Run DaySim data tools (DSBuffTool.exe)

saysin burening tool			
Read XML Input			
XML Input File	E:\Projects\Clients\FL_NFTPO\Mo	dels\NERPMABv2.0\User.prg\DaySim_Data_Tools\nftpo	_r Brows
NPUT			
Distance Calulation O Euc	lidean 🔿 Circuity 💿 Node-to	-Node	
Parcel Data File	nftpo_microzones_2015.csv		Brows
Intersection Data File	nftpo_Intersections.csv		Brows
Transit Stops File	nftpo_transitstops.csv		Brows
Open Spaces File	nftpo_openspaces.csv		Brows
Circuity Data File			Brows
Node Distance File Format	Lite Output 🔿 DaySim Format		
Node Data File	input_node.csv		Brows
Node to Node Distance File	output_shortest_path.txt		Brows
Parcel-Node Correspondence File (Intermediate File)	microzonenode.dat		Brows
Open Spaces-Node Correspondence Fil (Intermediate File)	e parksnode.dat		Brows
Buffer Type O Flat	O Logistic decay O Expone	ential decay	
Buffer 1 Distance (ft)	660	Buffer 2 Distance (ft)	1320
Buffer 1 Decay Slope	0.76	Buffer 2 Decay Slope	0.76
Buffer 1 Offset	2640	Buffer 2 Offset	2640
Buffer 1 Exponential Decay Parameter	-2.5205	Buffer 2 Exponential Decay Parameter).4365
DUTPUT			
Buffered Output File	buffered_maz_2015.dat		Brows
Output XML file (optional)	nftpo_mz_allstreets.xml		Brows

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3. Copy outputs (buffered_maz_year.csv) to the model scenario input directory

Name	Date modified	Type ^	Size	Name	✓ Date modified	Type	Size
DSBuffTool.exe	1/24/2020 8:52 AM	Application	62 KB		4/27/2020 5-10 DM	DATEL	22.004 KB
📧 DTALite64.exe	1/24/2620 8:52 AM	Application	867 KB	buffered_maz_2015.dat	4/2//2020 5:19 PM	DAT File	23,004 KB
Network_DataPrepv2.exe	3/17/2020 6:32 PM	Application	348 KB	emp_2015.dbf	4/27/2020 5:22 PM	DBF File	268 KB
DTASettings.ini	7/7/2020 2:41 PM	Configuration sett	2 KB	Hotel_Motel_TAZ_summary.txt	1/24/2020 8:49 AM	Text Document	2 KB
nftpo_netprep.ctl	6/26/2020 3:47 PM	CTL File	2 KB				
📲 buffered_maz_2015.dat	4/27/2020 5:19 PM	DAT File	23,004 KB				
💵 buffered_maz_2030.dat	4/27/2020 6:31 PM	DAT File	23,110 KB				
💵 buffered_maz_2045.dat	7/7/2020 3:02 PM	DAT File	23,158 KB				
🗴 🗓 microzonenode.dat	7/7/2020 2:51 PM	DAT File	686 KB				
X∎ netout.dat	7/7/2020 2:25 PM	DAT File	2,184 KB				
💵 nftpo_MAZs_2015.dat	1/24/2020 8:53 AM	DAT File	1,175 KB				
💵 output_shortest_path_txt_bin.dat	7/7/2020 3:02 PM	DAT File	1,509,646 KB				
💵 output_shortest_path_txt_index.dat	7/7/2020 3:02 PM	DAT File	2,395 KB				
MAZ_2015_2045_2030.dbf	1/24/2020 8:53 AM	DBF File	30,936 KB				
🔒 input_link.csv	1/24/2020 8:52 AM	Microsoft Excel C	7,468 KB				
input_link_type.csv	1/24/2020 8:52 AM	Microsoft Excel C	1 KB				
🔊 input_node.csv	1/24/2020 8:52 AM	Microsoft Excel C	2,156 KB				
input_od_pairs.csv	7/7/2020 2:41 PM	Microsoft Excel C	4,222,276 KB				
🕼 maz_15_30_45.csv	1/24/2020 8:53 AM	Microsoft Excel C	8,428 KB				
lntersections.csv	1/24/2020 8:53 AM	Microsoft Excel C	2,996 KB				
🕼 nftpo_microzones_2015.csv	4/27/2020 5:06 PM	Microsoft Excel C	3,829 KB				
C : 2000	10000000000000	10 00 10	0.000 000				



4. Update PopulationSim controls (control_totals_maz.csv, control_total_taz.csv, control_totals_county.csv)

Projects > Clients > FL_NFTPO > Models >	NERPMABv2.0 > User.prg	> Population_Synthematics	esis > data
Name	Date modified	Туре	Size
.gitignore	1/24/2020 9:06 AM	Text Document	1 KB
control_totals_county.csv	1/24/2020 9:06 AM	Microsoft Excel C	1 KB
control_totals_maz.csv	1/24/2020 9:06 AM	Microsoft Excel C	1,647 KB
control_totals_taz.csv	1/24/2020 9:06 AM	Microsoft Excel C	132 KB
geo_cross_walk.csv	1/24/2020 9:06 AM	Microsoft Excel C	2,874 KB
🔊 seed_households.csv	1/24/2020 9:06 AM	Microsoft Excel C	15,338 KB
seed_persons.csv	1/24/2020 9:06 AM	Microsoft Excel C	47,233 KB



5. Run PopulationSim

No	Data and King I	т	C :				
Name	Date modified	Туре	Size				
Anaconda2	5/13/2020 1:05 PM	File folder					
configs	5/13/2020 1:05 PM	File folder					
data	5/13/2020 1:05 PM	File folder					
output	7/7/2020 3:43 PM	File folder					
popsim_to_daysim	5/13/2020 1:05 PM	File folder					
😸 run_populationsim.py	1/24/2020 8:54 AM	PY File	3	KB			
RunPopulationSim.bat	1/24/2020 8:54 AM	Windows Batch File	2	KB			
C:\Windows\system32\cmd.es	(e					_	
E:\Projects\Clients\FL_N	IFIPO\Models\NERPMABV2.	.0\User.prg\Popul	Lation_	Synthesis>Ru	nPopulatio	nSim.bat	



6. Run PopSim_to_DaySim.R

Projects > Clients > FL_NFTPO > Models > NERPMABv2.0 > User.prg > Population_Synthesis > popsim_to_daysim							
Name	Date modified	Туре	Size				
data	6/29/2020 2:08 PM	File folder					
output	6/29/2020 2:17 PM	File folder					
gitignore	1/24/2020 9:06 AM	Text Document	1 KB				
🗋 .Rhistory	6/26/2020 7:09 PM	RHISTORY File	3 KB				
PopSim_to_DaySim.R	6/29/2020 2:16 PM	R File	8 KB				



7. Copy outputs to the model scenario input directory





8. Run the model

		Step 2		
 applications Doc Input_ParcelData input_SWM Master MAZ_2015_2030_2045 media OMX output_SWM parameters R-3.4.4 User.prg NERPMAB2.cat 	App A	Model Description Alternative Letter (1 Character) Model Year (2 digits) ClusterHandle Number of CPUs (for Cube Cluster Function) Global Feedback Iterations DaySim Parameters (Users shoul Number of processors (DaySim Parallel Processing Parameters) DaySim TAZ Index (Do not begin file name with f, n or r) DaySim Parson File (Do not begin file name with f, n or r) DaySim Person File (Do not begin file name with f, n or r) DaySim Person File (Do not begin file name with f, n or r) DaySim Person File (Do not begin file name with f, n or r) EasySim Person File (Do not begin file name with f, n or r) DaySim Person File (Do not begin file name with f, n or r) EasyS	Base Year 2015 Networks and SE Data A 15 NERRM 4 4 4 4 4 5 El:Projects/Clients/FL_NFTPO/Wodels/WERPMABV1_MAR2020/Master/Base2015/Input/DaySmirput/01_TAZ_Index_Lax_tar_indexes.dat El:Projects/Clients/FL_NFTPO/Wodels/WERPMABV1_MAR2020/Master/Base2015/Input/DaySmirput/02_Parcel/putflered_mar2_2015.dat El:Projects/Clients/FL_NFTPO/Wodels/WERPMABV1_MAR2020/Master/Base2015/Input/DaySmirput/02_Parcel/putflered_mar2_2015.dat El:Projects/Clients/FL_NFTPO/Wodels/WERPMABV1_MAR2020/Master/Base2015/Input/DaySmirput/02_Parcel/putflered_mar2_2015.dat El:Projects/Clients/FL_NFTPO/Wodels/WERPMABV1_MAR20200/Master/Base2015/Input/DaySmirput/05_pro/Lax_uroter_jon/Factors.dat El:Projects/Clients/FL_NFTPO/Wodels/WERPMABV1_MAR20200/Master/Base2015/Input/DaySmirput/05_pro/Lax_uroter_jon/Factors.dat El:Projects/Clients/FL_NFTPO/Wodels/WERPMABV1_MAR20200/Master/Base2015/Input/DaySmirput/05_pro/Lax_uroter_jon/Factors.dat El:Projects/Clients/FL_NFTPO/Wodels/WERPMABV1_MAR20200/Master/Base2015/Input/DaySmirput/05_pro/Lax_uroter_jon.csv El:Projects/Clients/FL_NFTPO/Wodels/WERPMABV1_MAR20200/Master/Base2015/Input/DaySmirput/05_pro/Lax_uroter_jon.csv El:Projects/Clients/FL_NFTPO/Wodels/WERPMABV1_MAR2020/Master/Base2015/Input/DaySmirput/02_Parcel/emp_0016.ddt El:Projects/Clients/FL_NFTPO/Wodels/WERPMABV1_MAR2020/Master/Base2015/Input/DaySmirinput/	Browse Edit Browse Edit
	MicrozoneNode E\\microzonenode.dat ShortestPathin output_shortest_path_t ShortestPathil output_shortest_path_t NOTEC (Note) UDShadow 0 NOTED (Note) DaySimDataTor NOTEA (Note) NOTEB (Note)	PROFILE.MAS Entries (Not Normally C Maximum internal zone number Maximum external zone number	2526 2578 Save Close Next Back Run Store Store	



To add 100 additional employment to an MAZ, the user needs to run the DaySim data tools and the model

- 1. Update the base microzone file (nftpo_microzones_year.csv)
- 2. Run DaySim data tools (DSBuffTool.exe)
- 3. Copy outputs to the model scenario input directory
- 4. Update the emp_year.dbf file
- 5. Run the model



1. Update the base microzone file (nftpo_microzones_year.csv)

Projects > Clients > FL NFTPO > Models > NERPMABv2.0 > User.prg > DaySim Data Tools Size Name Date modified Type DSBuffTool.exe Application 1/24/2020 8:52 AM 62 KB DTALite64.exe 867 KB 1/24/2020 8:52 AM Application Network_DataPrepv2.exe Application 348 KB 3/17/2020 6:32 PM DTASettings.ini Configuration sett... 2 KB 7/7/2020 2:41 PM nftpo_netprep.ctl 6/26/2020 3:47 PM CTL File 2 KB X buffered_maz_2015.dat 4/27/2020 5:19 PM DAT File 23,004 KB XII buffered maz 2030.dat 4/27/2020 6:31 PM DAT File 23,110 KB XII buffered_maz_2045.dat DAT File 7/7/2020 3:02 PM 23,158 KB XII microzonenode.dat 686 KB 7/7/2020 2:51 PM DAT File XII netout.dat 7/7/2020 2:25 PM DAT File 2,184 KB XII nftpo_MAZs_2015.dat 1/24/2020 8:53 AM DAT File 1,175 KB XI output_shortest_path_txt_bin.dat 7/7/2020 3:02 PM DAT File 1,509,646 KB XII output_shortest_path_txt_index.dat 7/7/2020 3:02 PM DAT File 2.395 KB MAZ_2015_2045_2030.dbf 1/24/2020 8:53 AM DBF File 30,936 KB input_link.csv 1/24/2020 8:52 AM Microsoft Excel C... 7,468 KB input_link_type.csv 1/24/2020 8:52 AM Microsoft Excel C... 1 KB input_node.csv 1/24/2020 8:52 AM Microsoft Excel C... 2,156 KB input_od_pairs.csv 7/7/2020 2:41 PM Microsoft Excel C... 4,222,276 KB amaz_15_30_45.csv 8,428 KB 1/24/2020 8:53 AM Microsoft Excel C... anftpo_Intersections.csv 1/24/2020 8:53 AM Microsoft Excel C... 2,996 KB 🔹 nftpo_microzones_2015.csv 3,829 KB 4/27/2020 5:06 PM Microsoft Excel C... - D 2 22 C 1/2 ----. ... e. = . .



	Projects > Clients > FL_NFTPO > Models > NERPMABv2.0 > User.prg > DaySim_Data_Tools					
	Name	Date modified	Туре	Size		
2a. Run DaySim data tools	DSBuffTool.exe	1/24/2020 8:52 AM	Application	62 KB		
(DSBuffTool.exe)	DTALite64.exe	1/24/2020 8:52 AM	Application	867 KB		
(Network_DataPrepv2.exe	3/17/2020 6:32 PM	Application	348 KB		
	DTASettings.ini	7/7/2020 2:41 PM	Configuration sett	2 KB		
	nftpo_netprep.ctl	6/26/2020 3:47 PM	CTL File	2 KB		
	🗴 🗄 buffered_maz_2015.dat	4/27/2020 5:19 PM	DAT File	23,004 KB		
	🛛 buffered_maz_2030.dat	4/27/2020 6:31 PM	DAT File	23,110 KB		
	🗴 🞚 buffered_maz_2045.dat	7/7/2020 3:02 PM	DAT File	23,158 KB		
	XII microzonenode.dat	7/7/2020 2:51 PM	DAT File	686 KB		
	X II netout.dat	7/7/2020 2:25 PM	DAT File	2,184 KB		
	Nftpo_MAZs_2015.dat	1/24/2020 8:53 AM	DAT File	1,175 KB		
	🛛 output_shortest_path_txt_bin.dat	7/7/2020 3:02 PM	DAT File	1,509,646 KB		
	🛛 output_shortest_path_txt_index.dat	7/7/2020 3:02 PM	DAT File	2,395 KB		
	MAZ_2015_2045_2030.dbf	1/24/2020 8:53 AM	DBF File	30,936 KB		
	input_link.csv	1/24/2020 8:52 AM	Microsoft Excel C	7,468 KB		
	input_link_type.csv	1/24/2020 8:52 AM	Microsoft Excel C	1 KB		
	input_node.csv	1/24/2020 8:52 AM	Microsoft Excel C	2,156 KB		
	input_od_pairs.csv	7/7/2020 2:41 PM	Microsoft Excel C	4,222,276 KB		
	🛋 maz_15_30_45.csv	1/24/2020 8:53 AM	Microsoft Excel C	8,428 KB		
	nftpo_Intersections.csv	1/24/2020 8:53 AM	Microsoft Excel C	2,996 KB		
	nftpo_microzones_2015.csv	4/27/2020 5:06 PM	Microsoft Excel C	3,829 KB		
				2 22 4 1/2		



2b. Run DaySim data tools (DSBuffTool.exe)

buyonn bunening roon			
Read XML Input			
XML Input File	E:\Projects\Clients\FL_NFTPO\Mod	lels\NERPMABv2.0\User.prg\DaySim_Data_Tools\nftpo	_r Brows
NPUT			
Distance Calulation O E	uclidean 🔿 Circuity 💿 Node-to-	Node	
Parcel Data File	nftpo_microzones_2015.csv		Brows
Intersection Data File	nftpo_Intersections.csv		Brows
Transit Stops File	nftpo_transitstops.csv		Brows
Open Spaces File	nftpo_openspaces.csv		Brows
Circuity Data File			Brows
Node Distance File Format	TA Lite Output 🔘 DaySim Format		
Node Data File	input_node.csv		Brows
Node to Node Distance File	output_shortest_path.txt		Brows
Parcel-Node Correspondence File (Intermediate File)	microzonenode.dat		Brows
Open Spaces-Node Correspondence (Intermediate File)	File parksnode.dat		Brows
Buffer Type O F	Nat 🖲 Logistic decay 🔿 Expone	ntial decay	
Buffer 1 Distance (ft)	660	Buffer 2 Distance (ft)	1320
Buffer 1 Decay Slope	0.76	Buffer 2 Decay Slope	0.76
Buffer 1 Offset	2640	Buffer 2 Offset	2640
Buffer 1 Exponential Decay Paramete	r -2.5205	Buffer 2 Exponential Decay Parameter).4365
UTPUT			
Buffered Output File	buffered_maz_2015.dat		Brows
Output XML file (optional)	nftpo_mz_allstreets xml		Brows
	Cancel	Run	

53



3. Copy outputs (buffered_maz_year.csv) to the model scenario input directory

Cilents / FL_WFIFO / Models /	NEITEINIADV2.0 / OSEI.prg	J = Daysini_Uma_100		Projects > Clients > FL_NFTPO > Models >	NERPMABv2.0 > Master	> Base2015 → Inp
ne	Date modified	Туре	Size	Name	✓ Date modified	Туре
DSBuffTool.exe	1/24/2020 8:52 AM	Application	62 KB	Will huffered may 2015 dat	4/27/2020 5-10 DM	DAT Eile
DTALite64.exe	1/24/2820 8:52 AM	Application	867 KB		4/27/2020 5.13 PM	DATTIE
Network_DataPrepv2.exe	3/17/2020 6:32 PM	Application	348 KB	emp_2015.dbf	4/2//2020 5:22 PIVI	DBF File
DTASettings.ini	7/7/2020 2:41 PM	Configuration sett	2 KB	Hotel_Motel_TAZ_summary.txt	1/24/2020 8:49 AM	Text Document
nftpo_netprep.ctl	6/26/2020 3:47 PM	CTL File	2 KB			
buffered_maz_2015.dat	4/27/2020 5:19 PM	DAT File	23,004 KB			
buffered_maz_2030.dat	4/27/2020 6:31 PM	DAT File	23,110 KB			
buffered_maz_2045.dat	7/7/2020 3:02 PM	DAT File	23,158 KB			
microzonenode.dat	7/7/2020 2:51 PM	DAT File	686 KB			
netout.dat	7/7/2020 2:25 PM	DAT File	2,184 KB			
nftpo_MAZs_2015.dat	1/24/2020 8:53 AM	DAT File	1,175 KB			
output_shortest_path_txt_bin.dat	7/7/2020 3:02 PM	DAT File	1,509,646 KB			
output_shortest_path_txt_index.dat	7/7/2020 3:02 PM	DAT File	2,395 KB			
MAZ_2015_2045_2030.dbf	1/24/2020 8:53 AM	DBF File	30,936 KB			
input_link.csv	1/24/2020 8:52 AM	Microsoft Excel C	7,468 KB			
input_link_type.csv	1/24/2020 8:52 AM	Microsoft Excel C	1 KB			
input_node.csv	1/24/2020 8:52 AM	Microsoft Excel C	2,156 KB			
input_od_pairs.csv	7/7/2020 2:41 PM	Microsoft Excel C	4,222,276 KB			
maz_15_30_45.csv	1/24/2020 8:53 AM	Microsoft Excel C	8,428 KB			
nftpo_Intersections.csv	1/24/2020 8:53 AM	Microsoft Excel C	2,996 KB			
nftpo_microzones_2015.csv	4/27/2020 5:06 PM	Microsoft Excel C	3,829 KB			



4. Update the emp_year.dbf file

Р	rojects > Clients > FL_NFTPO > Models	> NERPMABv2.0 > Master	> Base2015 → Inp	ut > DaySimInput > 02_Parc	:el
\backslash	Name	✓ Date modified	Туре	Size	
	🗴 buffered_maz_2015.dat	4/27/2020 5:19 PM	DAT File	23,004 KB	
	emp_2015.dbf	4/27/2020 5:22 PM	DBF File	268 KB	
	Hotel_Motel_TAZ_summary.txt	1/24/2020 8:49 AM	Text Document	2 KB	



Step 2

5. Run the model

- Master Model Description Base Year 2015 Networks and SE Data applications - INT2030 Alternative Letter (1 Character) --- CE2045 Doc Model Year (2 digits) 15 ClusterHandle NERPM Input ParcelData App Ψ× Number of CPUs (for Cube Cluster Function) 48 + Global Feedback Iterations input_SWM Create an Alternative DaySim Parameters (Users should adjust these values correspondingly) - Query Loaded Net Master anod Motwork Number of processors (DaySim Parallel Processing Parameters) 🖧 App Data MAZ 2015 2030 2045 DaySim TAZ Index (Do not begin file name with f, n or r) E: \Projects\Clients\FL_NFTPO\Models\WERPMABv1_MAR2020\Master\Base2015\Input\DaySimInput\01_TAZ_Index_jax_taz_indexes.dat Browse . Edit Keys DaySim parcels (Do not begin file name with f, n or r) E: \Projects\Clients\FL_NFTPO\Models\NERPMABv1_MAR2020\Master\Base2015\Input\DaySimInput\02_Parcel\buffered_maz_2015.dat Browse . Edit ... Value Key media DaySim HH File (Do not begin file name with f, n or r) E: \Projects \Clients \FL_NFTPO \Models \NERPMABv 1_MAR 2020 \Master \Base 2015 \Input \DaySimInput \03_Household \household \2015.dat Browse Edit ... Scen. Name Base2015 DaySim Person File (Do not begin file name with f, n or r) E: \Projects \Clients \FL_NFTPO \Models \WERPMABv 1_MAR2020 \Master \Base 2015 \Input \DaySimInput \04_Person \person_2015.dat Edit DESCR Base Year 2015 Networks Browse . OMX WorkerIXXIFile alt E: \Projects \Clients \FL_NFTPO\Models \WERPMABv1_MAR2020\Master \Base2015 \Input \DaySimInput \05_ixxi _jax_worker_ixxifractions.dat Browse . Edit ... output SWM Year 15 ParkAndRide E: \Projects\Clients\FL_NFTPO\Models\NERPMABv1_MAR2020\Master\Base2015\Input\DaySimInput\05_pnr\jax_p_rNodes.txt Browse . Edit ClusterHandle NERPM Availbility of Mode E: \Projects\Clients\FL_NFTPO\Models\WERPMABv1_MAR2020\Master\Base2015\Input\DaySimInput\06_Roster\roster_jax.csv Edit .. Browse . parameters ClusterNodes 48 DSRosterCombinationFile E:\Projects\Clients\FL NFTPO\Models\NERPMABv1 MAR2020\Master\Base2015\Input\DaySimInput\06 Roster\roster.combinations 15.csv Browse . Edit .. GbIterations 4 R-3.4.4 Employment E: \Projects\Clients\FL_NFTPO\Models\NERPMABv1_MAR2020\Master\Base2015\Input\DaySimInput\02_Parcel\emp_2015.dbf Browse . Edit ... DavSim Parame (Note) SeedShadowFile E: \Projects\Clients\FL_NFTPO\Models\WERPMABv1_MAR2020\Master\Base2015\Input\DaySimInput\09_SeedShadow\shadow_prices_15A.txt Browse ... Edit NProcessors 20 User.prg MicrozoneNode E: \Projects\Clients\FL_NFTPO\Models\NERPMABv1_MAR2020\Master\Base2015\Input\DaySimInput\10_Node_to_Node\microzonenode.dat TAZIndexFile E: ... jax_taz_indexes.dat Browse . Edit .. NERPMAB2.cat ParcelFile buffered_maz_2015.dat ShortestPathIndex E:\Projects\Clients\FL_NFTPO\Models\VERPMABv1_MAR2020\Master\Base2015\Input\DaySimInput\10_Node_to_Node\output_shortest_path_txt_index.dat Browse . Edit\household_2015.dat HouseholdFile ShortestPathBin E: \Projects\Clients\FL_NFTPO\Models\WERPMABv1_MAR2020\Master\Base2015\Input\DaySimInput\10_Node_to_Node\output_shortest_path_txt_bin.dat Edit ... Browse PersonFile E:\...\person_2015.dat Check box below if there are changes in employment distribution and you are running the scenario the first time WorkerIXXIFile _jax_worker_ixxifractions.da Update Shadow Price ParkAndRide E: ... jax_p_rNodes.txt Check box below if there are changes in population synthesis and microzone data DSRosterFile E: ... roster_jax.csv DSRosterComb roster.combinations 15. DaySimDataTools Employment E:\...\emp_2015.dbf User-specified Values Step 1 SeedShadowFil shadow_prices_15A.txt PROFILE.MAS Entries (Not Normally Changed) MicrozoneNode E:\...\microzonenode.dat ShortestPathIn output shortest path t 2526 Maximum internal zone number ¢ ShortestPathBi output shortest path t \$ Maximum external zone number 2578 NOTEC (Note) UDShadow 0 Run | Save Next... Close Step 3 NOTED (Note) DaySimDataTor 0 NOTEA (Note) NOTER Mate



Adding additional Hotel rooms to a TAZ

To add additional hotel rooms to a TAZ, the user needs to -

- 1. Update the Hotel_Motel_TAZ_summary.txt file
- 2. Run the model



Adding additional Hotel rooms to a TAZ

1. Update the Hotel_Motel_TAZ_summary.txt file

Proj	jects > Clients > FL_NFTPO > Models > I	NERPMABv2.0 > Master	> Base2015 > Inpu	ut > DaySimInput > 02_Parc	el
\backslash	Name	Date modified	Туре	Size	
	Duffered_maz_2015.dat	4/27/2020 5:19 PM	DAT File	23,004 KB	
	emp_2015.dbf	4/27/2020 5:22 PM	DBF File	268 KB	
	Hotel_Motel_TAZ_summary.txt	1/24/2020 8:49 AM	Text Document	2 KB	



Adding additional Hotel rooms to a TAZ

2. Run the model

-	Step 2	

	⊡ Master				
times		Model Description	Base Year 2015 Networks and SE Data		
applications	CF2045	Alternative Letter (1 Character)	A		
Doc		Model Year (2 digits)	15		
		ClusterHandle	NERPM		
Input_ParcelData	App Ŧ ×	Number of CPUs (for Cube Cluster Function)	48		\$
input SWM	NERPMAB1 Create an Alternative	Global Feedback Iterations	4		
input_strim	Query Loaded Net	DavSim Parameters (Users shou	Id adjust these values correspondingly)		
Master		Number of processors (DavSim Parallel Processing Parameters)	20		
MAZ 2015 2030 2045		DaySim TAZ Index (Do not begin file name with f, n or r)	E:\Projects\Clients\FL_NFTPO\Models\WERPMABv1_MAR2020\Master\Base2015\Input\DavSimInput\01_TAZ_Index_iax_taz_indexes.dat	Browse	Edit
	{} Keys P	DavSim parcels (Do not begin file name with f, n or r)	E: Projects Olients FL NETPO Wodels WERPMABY 1 MAR 2020 Waster Base 2015 Toput DavSim Toput V2 Parcel Muffered maz 2015, dat	Browse	Edit
media	Key Value	DavSim HH File (Do not begin file name with f. n or r)	E: Projects Clients EI NETPO/Wodels/WERPMARy1 MAR2020/Waster/Base2015/Innut/DavSimInnut/03 Household/bousehold 2015.dat	Browse	Edit
	Scen. Name Base2015	DaySim Person File (Do not begin file name with f in or r)	E-12 rojecto (aliento) E-11 in O Prodelo Vieto MARVI 1 MAD 2020 Master (Bace 2015) [In part (Dav Sim Input (Dd. Derson Derson Derson 2015 dat	Browse	Edit
OMX	alt A	WorkerIXXIFile	F-10-nia-te/cliante/Fill NETDO/Model/NEDDMARu1_MAD2020/Plaster/Base2015/Innut/DaySintinput/05_yet3on_person_2013/Unit	Browse	Edit
output SWM	Year 15	DarkAndDide		Browse	Edit
- output_onni	ClusterHandle NERPM		E. Projeck Gierrish, "The Trade of Microbiology and a set passe of 3 (Microbiology and Microbiology) in the Application of t	Browse	Eur
parameters	ClusterNodes 48	Availability of Mode	E: projects (clients (FL_INFIPO (Models (NEKPMADV I_MAK2020) (Master pase 2015 (Input (Daysimunput (Do _Roster _Jax.csv	Browse	Edit
	GbIterations 4	DSRosterCombinationFile	E: Projects (Clients \FL_NFTPO\Models \NERPMABv1_MAR2020\Master \Base2015 \Lnput\DaySim1nput\D6_Roster \coster.combinations_15.csv	Browse	Edit
K-3.4.4	DaySim Parame (Note)	Employment	F: \Projects\Clients\FL_\NFTPO\Models\WERPMABv1_MAR2020\Master\Base2015\Input\DaySimInput\02_Parcel\emp_2015.dbf	Browse	Edit
User pro	NProcessors 20	SeedShadowFile	E: \Projects \Clients \FL_NFTPO \Models \WERPMABv1_MAR2020 \Master \Base2015 \Input \DaySimInput \09_SeedShadow \shadow _prices_15A.txt	Browse	Edit
osci.prg	TAZIndexFile E: [jax_taz_indexes.dat	MicrozoneNode	E: \Projects\Clients\FL_NFTPO\Models\NERPMABv1_MAR2020\Master\Base2015\Input\DaySimInput\10_Node_to_Node\microzonenode.dat	Browse	Edit
C NERPMAB2.cat	ParcelFile buffered_maz_2015.dat	ShortestPathIndex	E: Projects (Clients/FL_NFTPO/Models/NERPMABv1_MAR2020/Master/Base2015/Input/DaySimInput/10_Node_to_Node/output_shortest_path_txt_index.dat	Browse	Edit
1	HouseholdFile\household_2015.dat	ShortestPathBin	E: \Projects\Clients\FL_NFTPO\Models\NERPMABv1_MAR2020\Master\Base2015\Input\DaySimInput\10_Node_to_Node\output_shortest_path_txt_bin.dat	Browse	Edit
	PersonFile E:\\person_2015.dat	Check box below if there are changes	in employment distribution and you are running the scenario the first time		
	Worker1XXIFile _Jax_worker_IXXIITactions.da	Update Shadow Price			
		Check box below if there are changes	in nonulation synthesis and microzone data		
	DSRosterComb roster.combinations 15		m population of networks and met ocone data		
•	Employment E:\\emp 2015.dbf				
ten 1	SeedShadowFil shadow_prices_15A.txt	User-specified values			
	MicrozoneNode E:\\microzonenode.dat	PROFILE.MAS Entries (Not Normally C	Changed)		
	ShortestPathIn output_shortest_path_t:	Maximum internal zone number	2526		\$
	ShortestPathBi output_shortest_path_t	Maximum external zone number	2578		•
	NOTEC (Note)				
UDShadow 0		Save Close Next Back Run			
	NOTED (Note)			an 2	
	DaySimDataToc 0		- 31	eps	
	NOTEA (Note)				
	LNOTER (Mate)				



Step 1







Running Scenarios

				T			
	applications	⊡ · Master Base 2 INT20. CF204	015 30 5	Model Description Alternative Letter (1 Character) Model Year (2 digits)	Base Year 2015 Networks and SE Data A 15		
	Input ParcelData	400		ClusterHandle	NERPM		
			T A	Number of CPUs (for Cube Cluster Function)	48		<u> </u>
	input_SWM	Create an	Alternative	Global Feedback Iterations			
	Master	Query Loa	ded Net	DaySim Parameters (Users shou	ld adjust these values correspondingly)		
	Waster	🖧 App	📰 Data	Number of processors (DaySim Parallel Processing Parameters)	20		
	MAZ_2015_2030_2045	{} Kevs	ņ	DaySim TAZ Index (Do not begin file name with f, n or r)	E: \Projects\Clients\FL_NFTPO\Models\WERPMABv1_MAR2020\Master\Base2015\Input\DaySimInput\01_TAZ_Index_jax_taz_indexes.dat	Browse	Edit
		Key	Value ^	DaySim parcels (Do not begin file name with f, n or r)	E: \Projects\Clients\FL_NFTPO\Models\WERPMABv1_MAR2020\Master\Base2015\Input\DaySimInput\02_Parcel\buffered_maz_2015.dat	Browse	Edit
	media	Scen. Name	Base2015	DaySim HH File (Do not begin file name with f, n or r)	E:\Projects\Clients\FL_NFTPO\Models\WERPMABv1_MAR2020\Master\Base2015\Input\DaySimInput\03_Household\household_2015.dat	Browse	Edit
	- OMX	DESCR	Base Year 2015 Networks	DaySim Person File (Do not begin file name with f, n or r)	E: \Projects \Clients \FL_NFTPO \Models \WERPMABv 1_MAR 2020 \Master \Base 2015 \Input \DaySimInput \04_Person \person \2015.dat	Browse	Edit
		alt	A	WorkerIXXIFile	E: \Projects\Clients\FL_NFTPO\Models\WERPMABv1_MAR2020\Master\Base2015\Input\DaySimInput\D5_ixxi_jax_worker_ixxifractions.dat	Browse	Edit
	output_SWM	Year	15	ParkAndRide	E:\Projects\Clients\FL_NFTPO\Models\WERPMABv1_MAR2020\Master\Base2015\Lnput\DaySimInput\05_pnr\jax_p_rNodes.txt	Browse	Edit
	naramaters.	ClusterHandle	NERPM	Availbility of Mode	E:\Projects\Clients\FL_NFTPO\Models\WERPMABv1_MAR2020\Master\Base2015\Lnput\DaySimInput\06_Roster\roster_jax.csv	Browse	Edit
	parameters	ClusterNodes	48	DSRosterCombinationFile	E: \Projects\Clients\FL_NFTPO\Models\WERPMABv1_MAR2020\Master\Base2015\Irput\DaySimInput\06_Roster\roster.combinations_15.csv	Browse	Edit
	R-3.4.4	DaySim Param	4 s (Note)	Employment	E:\Projects\Clients\FL_NFTPO\Models\WERPMABv1_MAR2020\Master\Base2015\irput\DaySimInput\02_Parcel\emp_2015.dbf	Browse	Edit
		NProcessors	20	SeedShadowFile	E: \Projects\Clients\FL_NFTPO\Models\WERPMABv1_MAR2020\Master\Base2015\Lrput\DaySimInput\09_SeedShadow\shadow_prices_15A.txt	Browse	Edit
	User.prg	TAZIndexFile	E: jax_taz_indexes.dat	MicrozoneNode	E:\Projects\Clients\FL_NFTPO\Models\VERPMABv1_MAR2020\Master\Base2015\irput\DaySimInput\10_Node_to_Node\microzonenode.dat	Browse	Edit
	NERPMAR2 cat	ParcelFile	buffered_maz_2015.dat	ShortestPathIndex	E:\Projects\Clients\FL_NFTPO\Models\VERPMABv1_MAR2020\Master\Base2015\input\DaySimInput\10_Node_to_Node\output_shortest_path_txt_index.dat	Browse	Edit
	V HEIGH MADEleat	HouseholdFile	\household_2015.dat	ShortestPathBin	E: Projects (Clients/FL NFTPO/Models/WERPMABv1 MAR2020) Master (Base 2015) [rnput(DaySimInput(10 Node to Node(output shortest path txt bin.dat	Browse	Edit
		PersonFile	E:\\person_2015.dat	Check box below if there are changes	in employment distribution and you are running the scenario the first time		
		WorkerIXXIFil	e _jax_worker_ixxifractions.da	Indate Shadow Price	······································		
		ParkAndRide	E: jax_p_rNodes.txt	Check hav below if there are changes	in population synthesis and misrozono data		
DSRosterFile E: [[roster_jax.csv		E: [Voster_Jax.csv	Check box below in there are changes in population synthesis and microzone data				
		Employment	F:\\emp_2015.dbf	DaysimData i ools			
St	en 1	SeedShadowF	i shadow_prices_15A.txt	User-specified Values			
		MicrozoneNod	e E:\\microzonenode.dat	PROFILE.MAS Entries (Not Normally C	Changed)		
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		ShortestPath	ii output_shortest_path_t	Maximum external zone number	2578		•
		NOTEC	(Note)				_
		UDShadow	0		Save Close Next Back Run		
		NOTED	(Note)			n^2	
		(Note)	Step 3				
		NOTEA	(more)				

• Videos at http://northfloridatpo.com/modelwiki/Support/Training









System Requirements

Software Version Used for Model Development:

- Cube 6.4.4 with Cluster
- DaySim
- R (bundled with model setup)

Recommended Hardware Minimum:

- RAM 8 GB
- 4 Core Processors
- 100 GB of Storage





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