



NERPM-AB 2.0 Update

December 2020

Presentation Outline

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

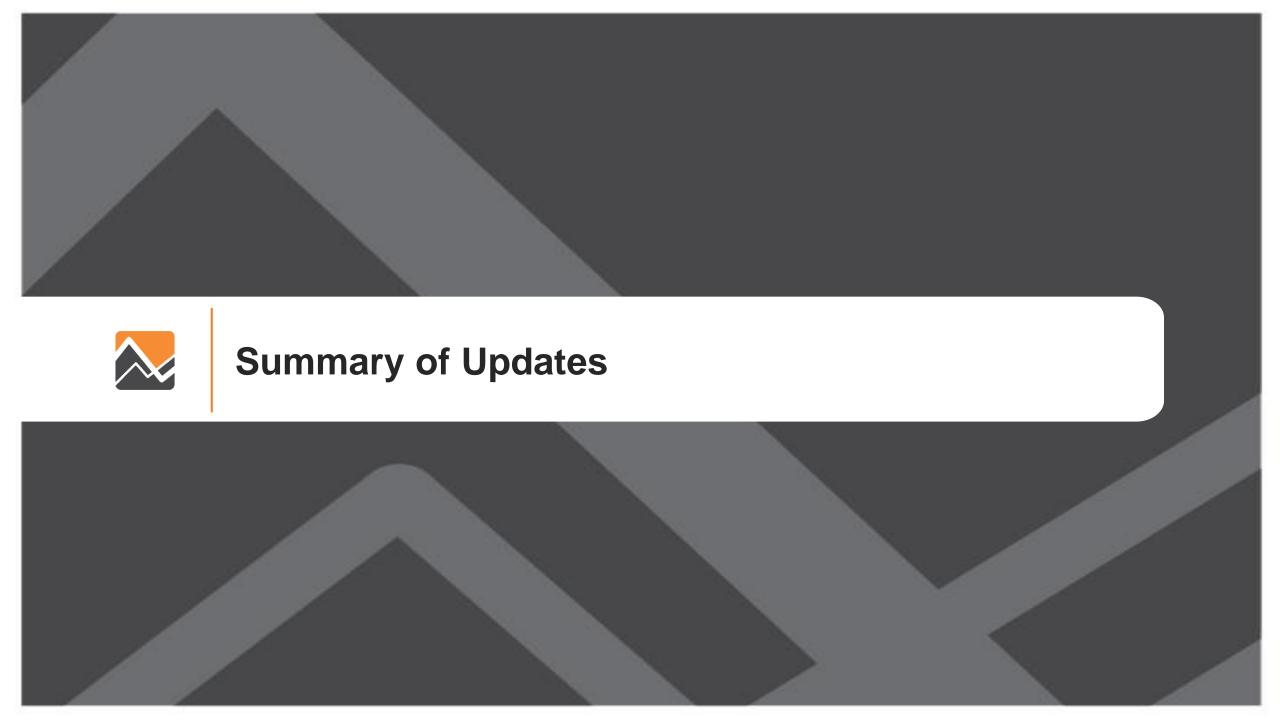


Model Training Resources

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





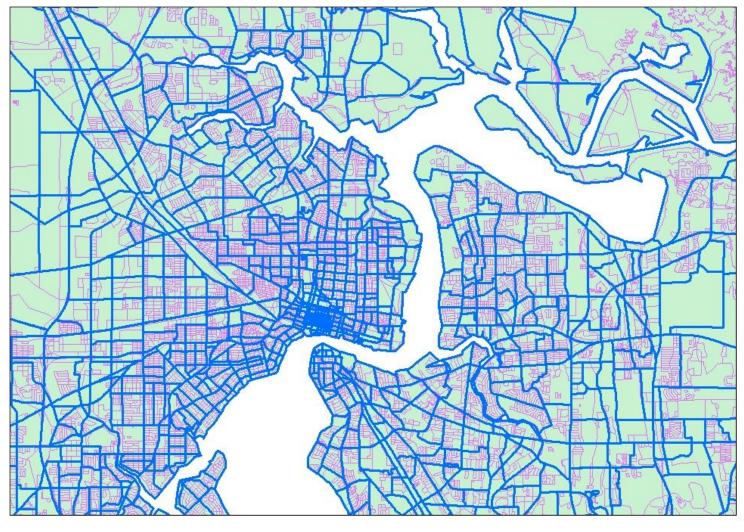
Parcel to MAZ - Summary

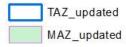
County	Number of Parcels	% Freq	Number of MAZ	% Freq	Number of TAZ	% Freq
Baker	12,490	1.78	1,735	3.14	29	1.56
Clay	84,529	12.02	7,796	14.13	184	9.88
Duval	355,805	50.59	28,263	51.22	1,281	68.80
Nassau	47,443	6.75	4,455	8.07	108	5.80
Putnam	102,053	14.51	6,652	12.05	44	2.36
St. Johns	100,950	14.35	6,283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

TAZ – Traffic Analysis Zone MAZ - Microzone

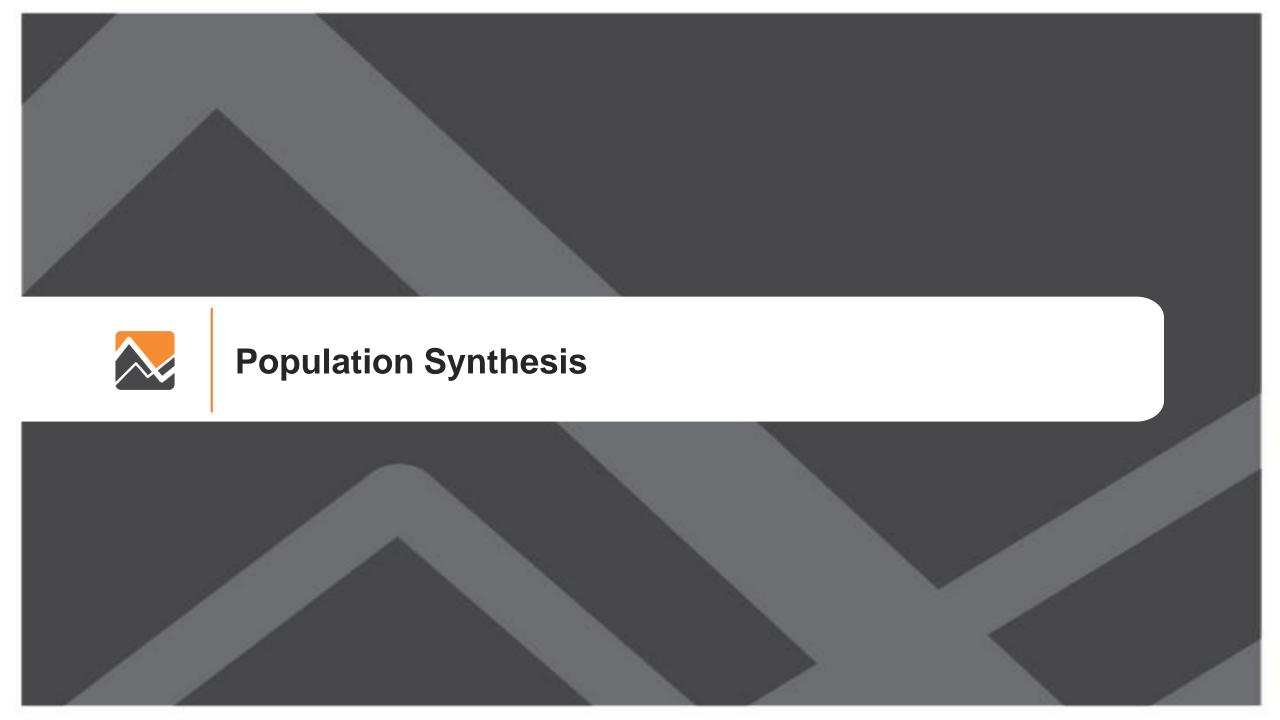


MAZ Layer









PopulationSim

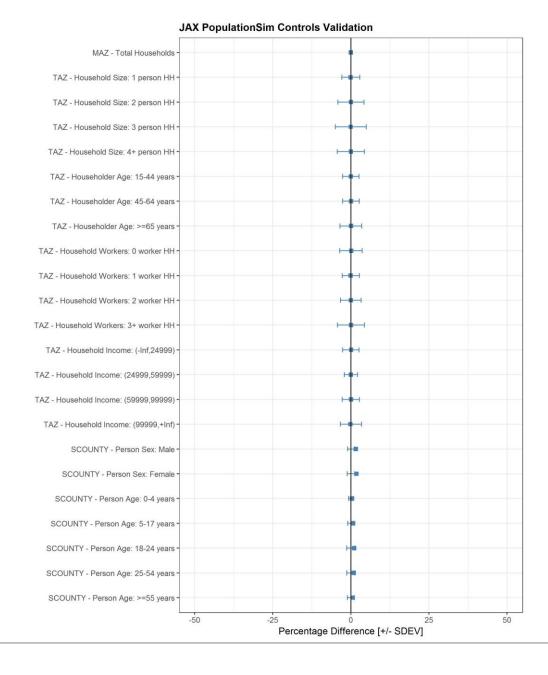
- PopulationSim is an open platform for population synthesis
- Replaced PopGen in this version of NERPM-AB
- Has better demographic and geographic methods compared to PopGen
- Actively maintained by the travel modeling community
- Run only when there are major changes in the landuse data

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



Validation of Results

Standard deviation (SDEV) of the percentage difference





Validation of Results

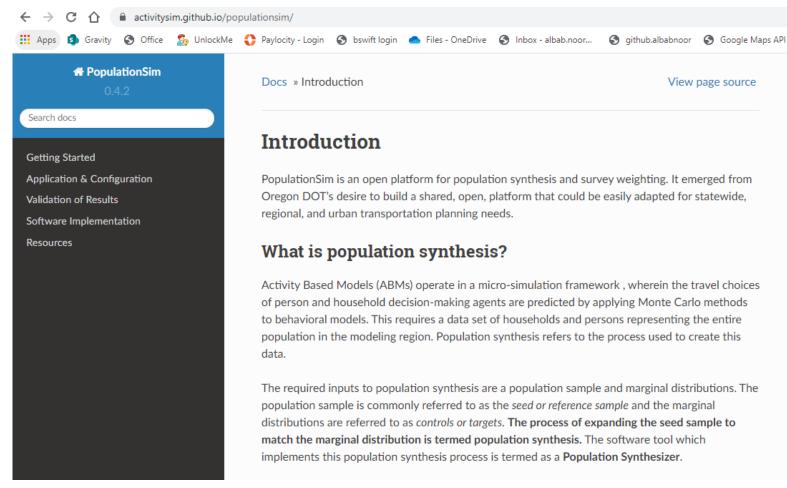
Percentage root mean square error (RMSE)



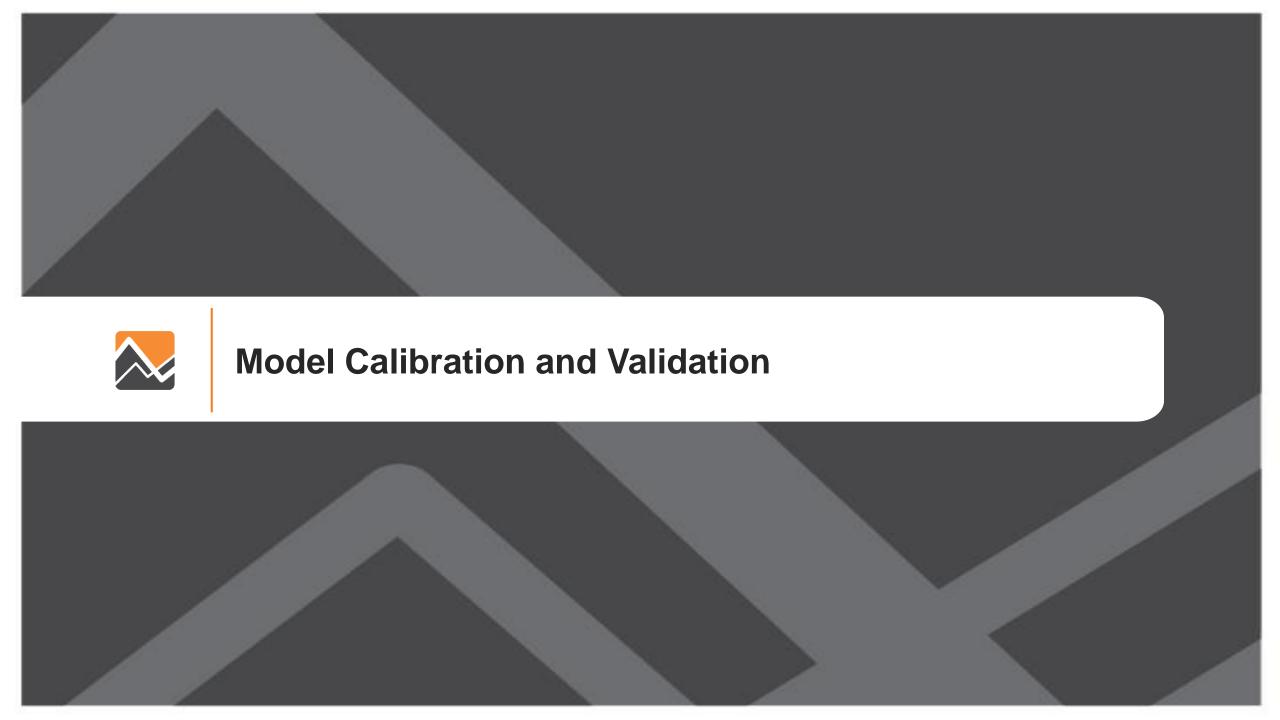


PopulationSim Wiki

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







Calibration and Validation Target Data

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







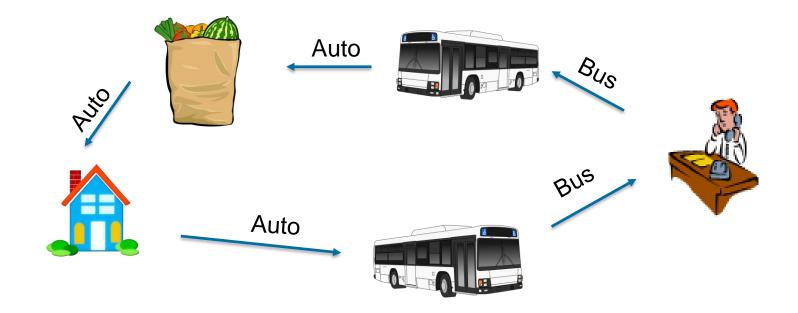


Population and Employment

County	2015 Population	2015 Employment	BEA 2015	2030 Population	2030 Employment 2	2045 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%

TOURS BY PERSONTYPE

Persontype	Survey	Model	Diff	% Diff
ft worker	719,760	747,789	28,029	4%
pt worker	70,475	104,871	34,396	49%
retired	192,184	182,550	-9,634	-5%
nonworker	202,860	266,531	63,671	31%
univ.stud	47,126	54,164	7,038	15%
stud 16+	42,652	60,017	17,365	41%
stud.5-15	203,943	234,171	30,228	15%
under 5	82,792	118,364	35,572	43%
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%

TOUR RATES BY PERSONTYPE

Model	Diff	% Diff
1.42	0.09	7%
1.22	0.02	2%
1.22	0.11	9%
1.08	0.09	9%
0.92	-0.16	-15%
1.22	0.10	9%
1.18	0.08	7%
1.16	0.16	17%
1.25	0.07	6%
	1.42 1.22 1.22 1.08 0.92 1.22 1.18 1.16	1.42 0.09 1.22 0.02 1.22 0.11 1.08 0.09 0.92 -0.16 1.22 0.10 1.18 0.08 1.16 0.16

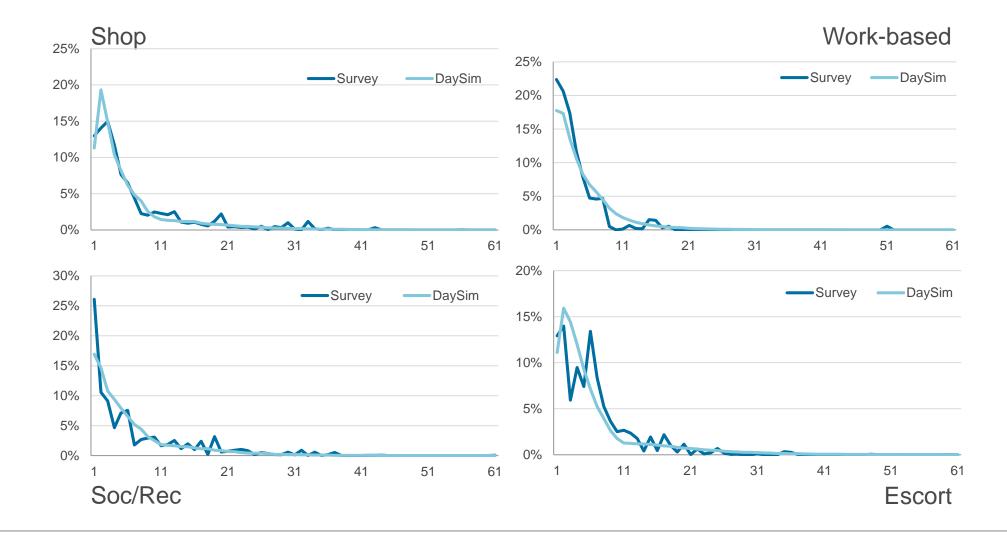


Work and School Location Results



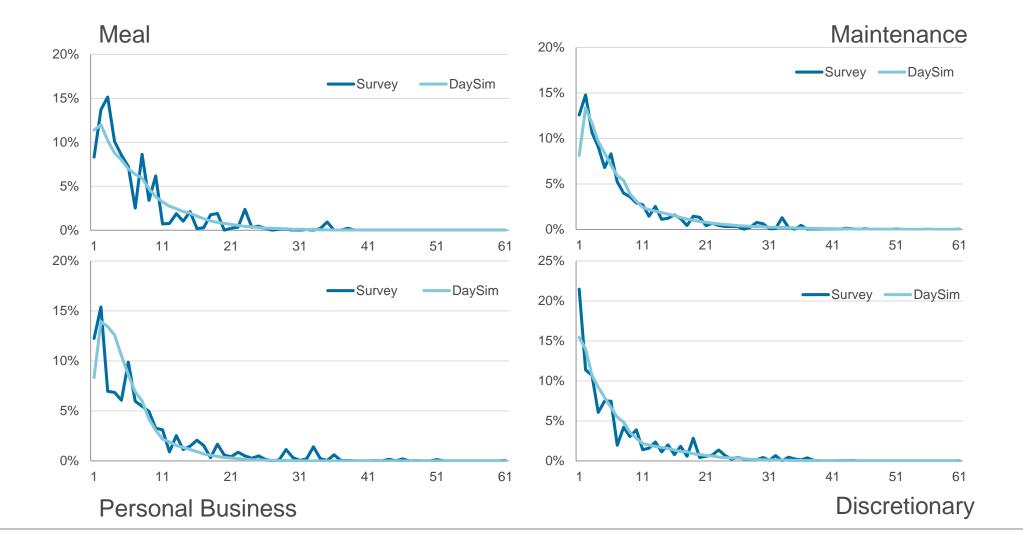


Tour Destination Distances Results



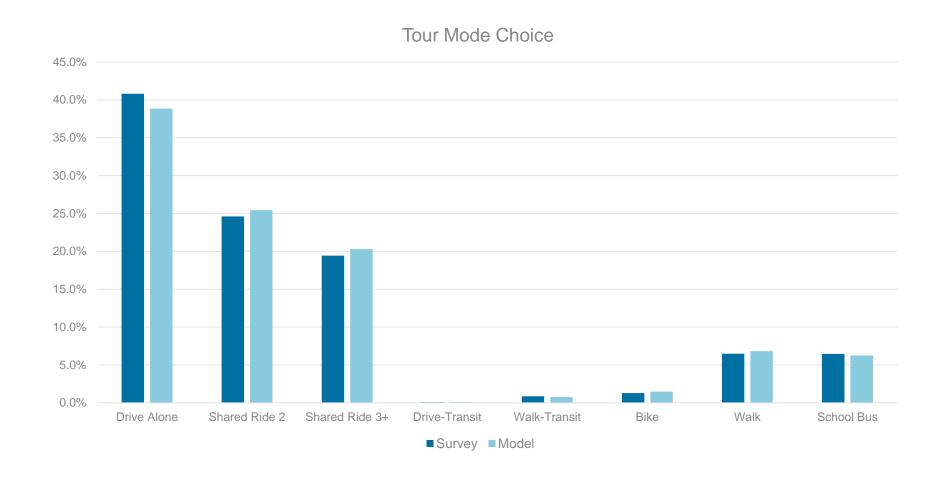


Tour Destination Distances Results (2)





Tour Mode Choice Results





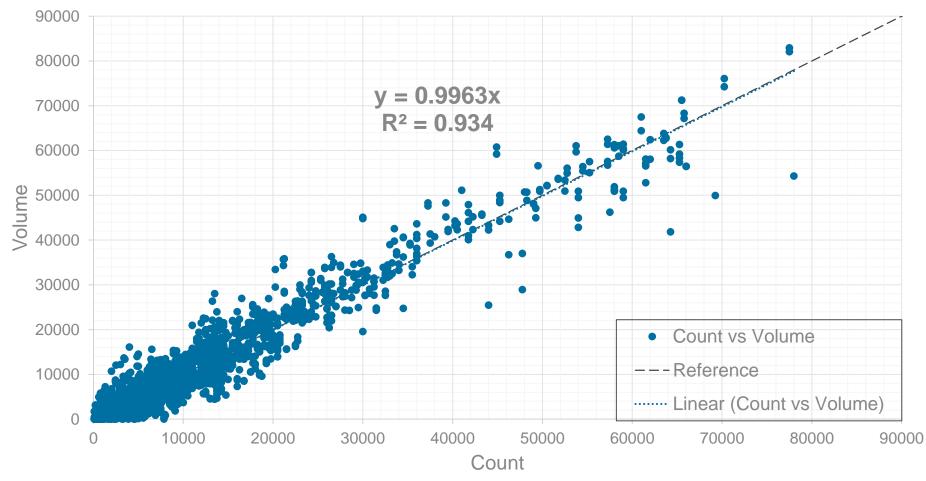
Trip Mode Choice Results





Highway Assignment Results



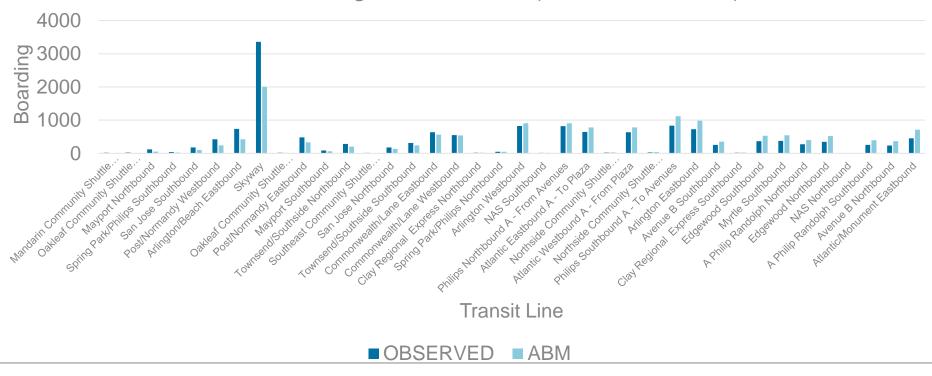




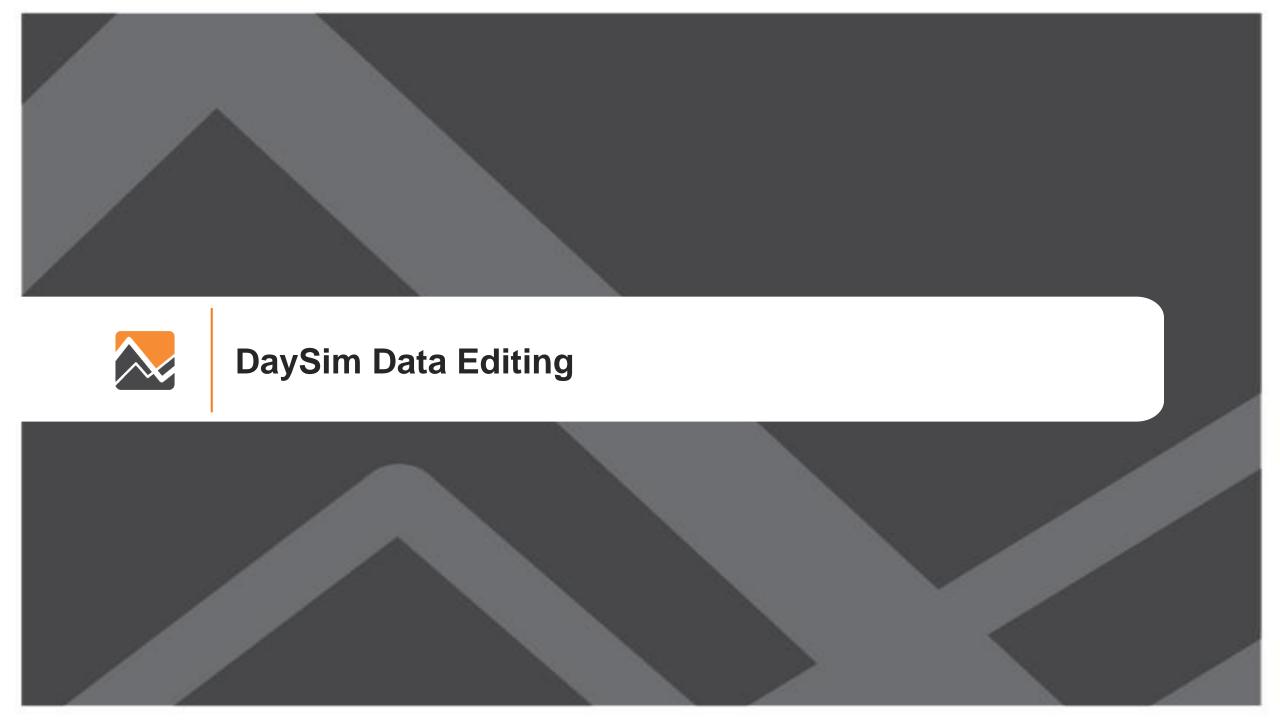
Transit Assignment Results

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%

Transit Boarding for Select Line (Observed vs ABM)







Model Directory Structure

NERPM-ABv2.0	User.prg
applications	DaySim
Doc	DaySim Data Tools
Master	Population Synthesis
parameters	
User.prg	
NERPMAB2.cat	



Network Data Preparation (Network_DataPrepv2.exe)

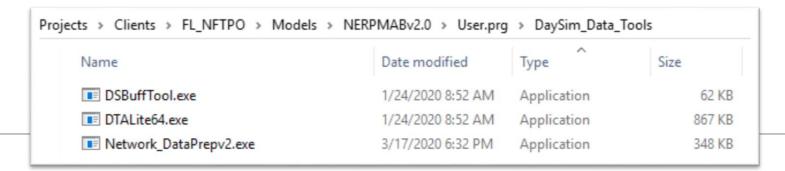
Function: This step calculates "nearby" pairs of microzones for shortest distance path calculations

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





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 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

Name	Date modified	Туре	Size
	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

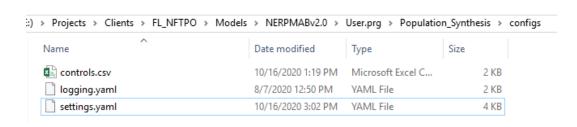


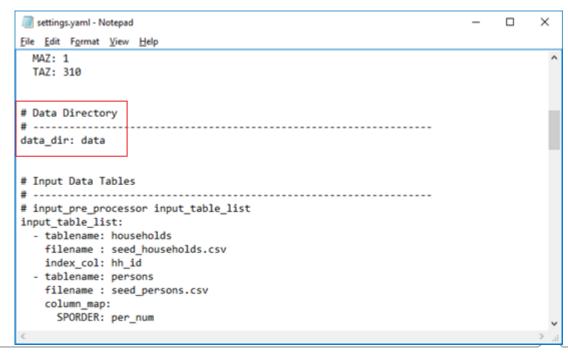
- The controls for different scenarios are stored in following folders
 - 2015 data
 - 2030 data_2030
 - 2045 data_2045

Name	Date modified	Туре	Size
Anaconda2	8/7/2020 12:50 PM	File folder	
configs	10/16/2020 1:19 PM	File folder	
data	10/16/2020 2:41 PM	File folder	
data_2030	10/16/2020 2:58 PM	File folder	
data_2045	10/16/2020 2:42 PM	File folder	
output	10/5/2020 2:35 AM	File folder	
popsim_to_daysim	10/5/2020 1:34 PM	File folder	



- To run the PopulationSim for specific year the data_dir field in the settings.yaml file should be changed accordingly:
 - 2015 data
 - 2030 data_2030
 - 2045 data_2045

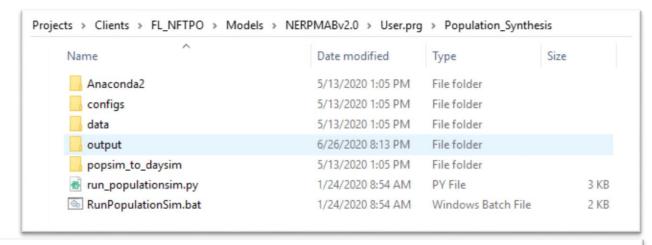


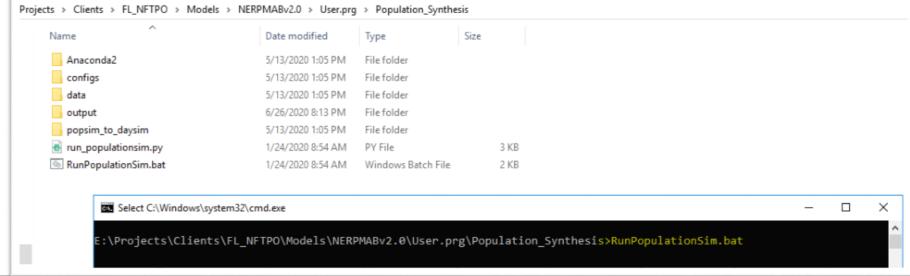




Step 1: Run PopulationSim

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

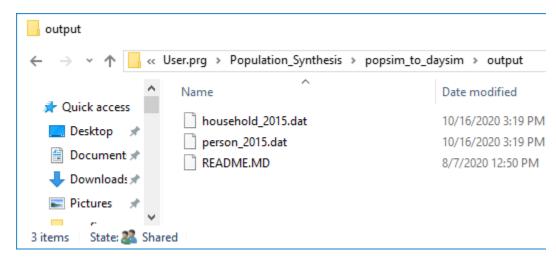


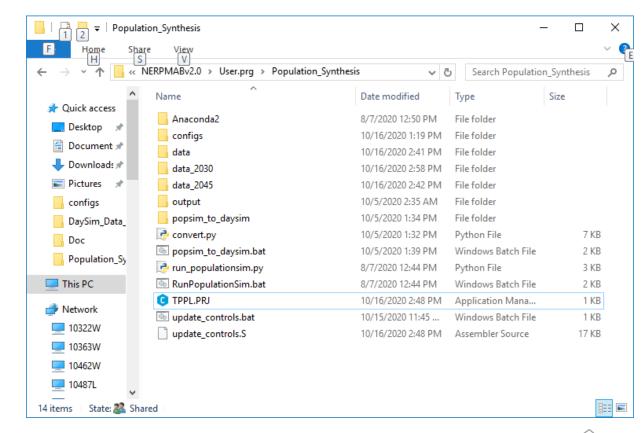




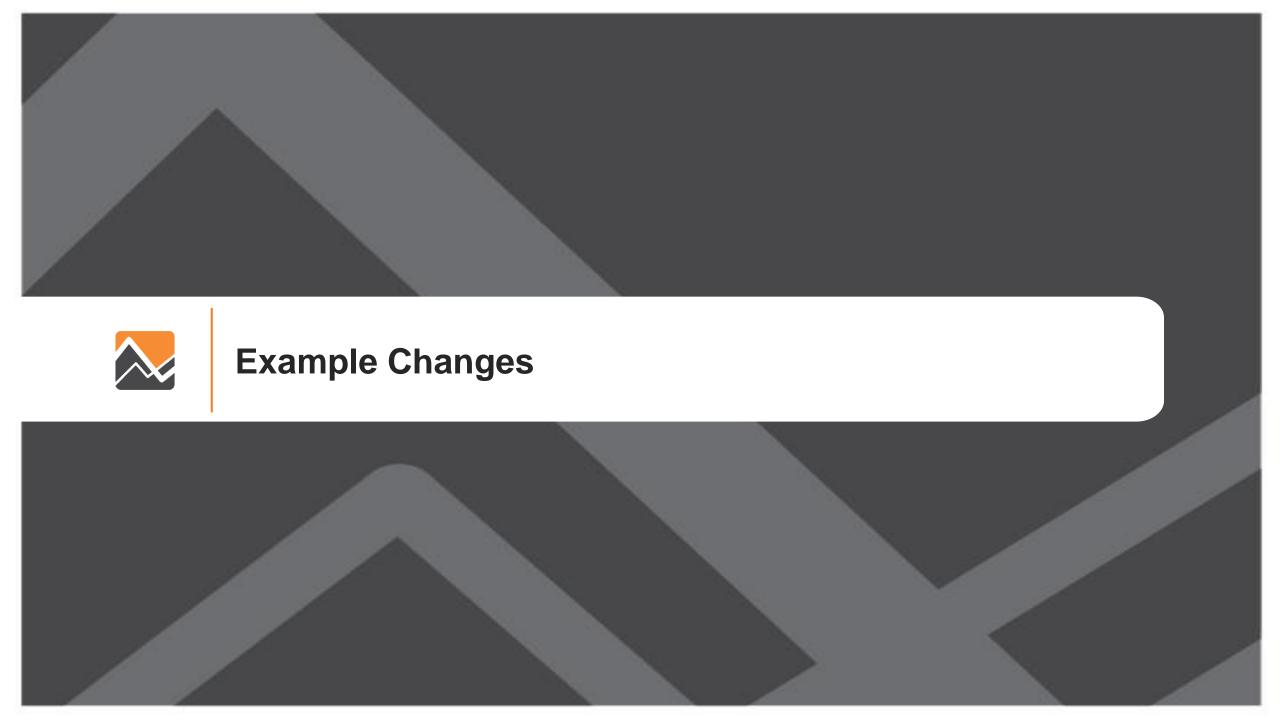
Step 2: popsim_to_daysim

- Run popsim_to_daysim.bat file by double-clicking.
- Rename and copy the household and person file to the appropriate scenario input directory





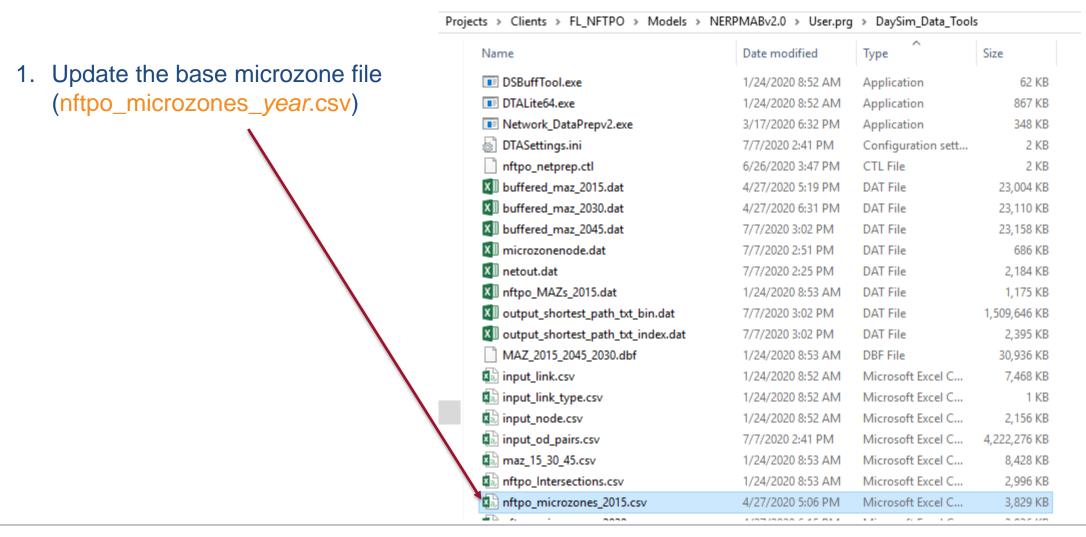




To add 100 additional households to an MAZ, the user needs to run the DaySim data tools, PopulationSim, and the model

- 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 script (update_controls.S)
- 5. Update PopulationSim controls (update_controls.bat)
- 6. Run PopulationSim
- 7. Convert PopulationSim output to DaySim input (popsim_to_daysim.bat)
- 8. Rename the outputs.
- 9. Copy outputs to the model scenario input directory
- 10. Run the model



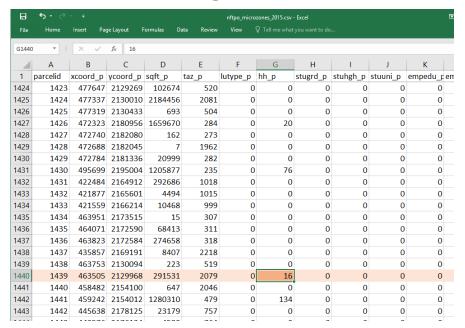




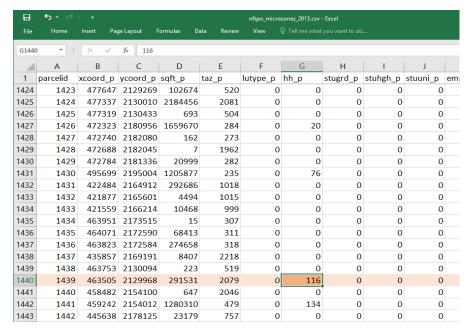
1. Update the base microzone file

(nftpo_microzones_year.csv)

BEFORE



AFTER

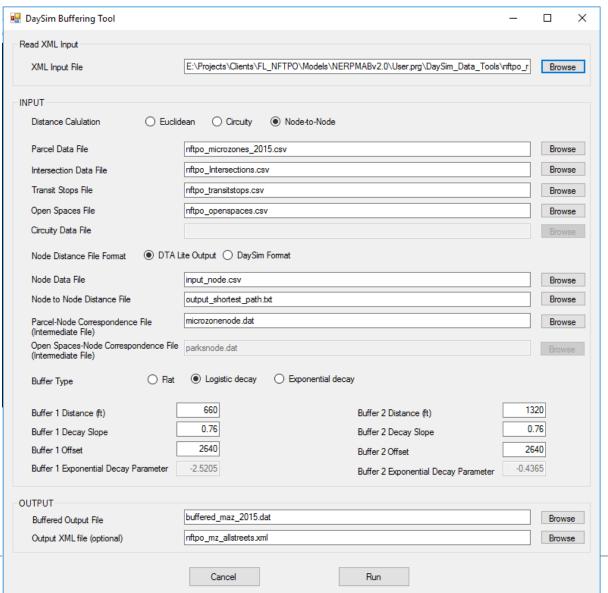




Projects > Clients > FL NFTPO > Models > NERPMABv2.0 > User.prg > DaySim Data Tools Type Size Name Date modified 2a. Run DaySim data tools DSBuffTool.exe Application 1/24/2020 8:52 AM 62 KB (DSBuffTool.exe) DTALite64.exe Application 867 KB 1/24/2020 8:52 AM Network_DataPrepv2.exe Application 348 KB 3/17/2020 6:32 PM 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 XII buffered_maz_2015.dat 4/27/2020 5:19 PM 23,004 KB DAT File XII buffered maz 2030.dat 4/27/2020 6:31 PM DAT File 23,110 KB XII buffered maz 2045.dat 7/7/2020 3:02 PM DAT File 23,158 KB XII microzonenode.dat 7/7/2020 2:51 PM 686 KB 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 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 4,222,276 KB 7/7/2020 2:41 PM Microsoft Excel C... maz_15_30_45.csv Microsoft Excel C... 8,428 KB 1/24/2020 8:53 AM nftpo_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... 2 226 160



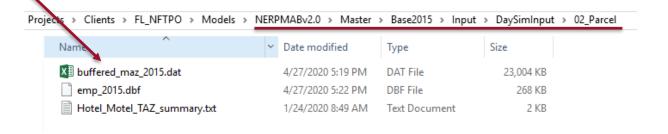
2b. Run DaySim data tools (DSBuffTool.exe)





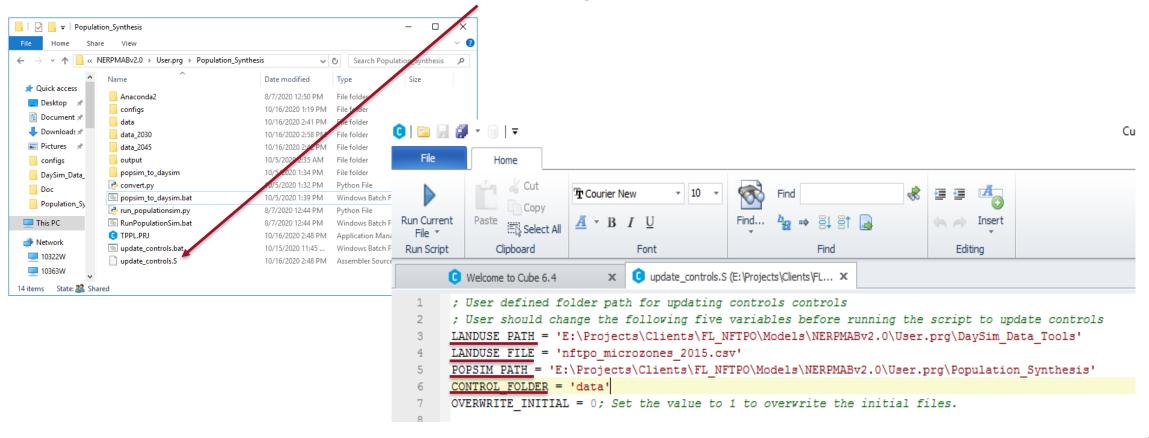
3. Copy outputs (buffered_maz_year.csv) to the model scenario input directory

Name	Date modified	T _p e	Size
■ DSBuffTool.exe	1/24/2020 8:52 AM	Application	62
■ DTALite64.exe	1/24/2020 8:52 AM	Application	867
■ Network_DataPrepv2.exe	3/17/2020 6:32 PM	Application	348
DTASettings.ini	7/7/2020 2:41 PM	Configuration sett	2
nftpo_netprep.ctl	6/26/2020 3:47 PM	CTL File	2
XII buffered_maz_2015.dat	4/27/2020 5:19 PM	DAT File	23,004
🗷 buffered_maz_2030.dat	4/27/2020 6:31 PM	DAT File	23,110
XII buffered_maz_2045.dat	7/7/2020 3:02 PM	DAT File	23,158
XII microzonenode.dat	7/7/2020 2:51 PM	DAT File	686
X netout.dat	7/7/2020 2:25 PM	DAT File	2,184
🗷 nftpo_MAZs_2015.dat	1/24/2020 8:53 AM	DAT File	1,175
🗷 output_shortest_path_txt_bin.dat	7/7/2020 3:02 PM	DAT File	1,509,646
🗷 output_shortest_path_txt_index.dat	7/7/2020 3:02 PM	DAT File	2,395
MAZ_2015_2045_2030.dbf	1/24/2020 8:53 AM	DBF File	30,936
input_link.csv	1/24/2020 8:52 AM	Microsoft Excel C	7,468
input_link_type.csv	1/24/2020 8:52 AM	Microsoft Excel C	1
input_node.csv	1/24/2020 8:52 AM	Microsoft Excel C	2,156
input_od_pairs.csv	7/7/2020 2:41 PM	Microsoft Excel C	4,222,276
maz_15_30_45.csv	1/24/2020 8:53 AM	Microsoft Excel C	8,428
nftpo_Intersections.csv	1/24/2020 8:53 AM	Microsoft Excel C	2,996
nftpo_microzones_2015.csv	4/27/2020 5:06 PM	Microsoft Excel C	3,829



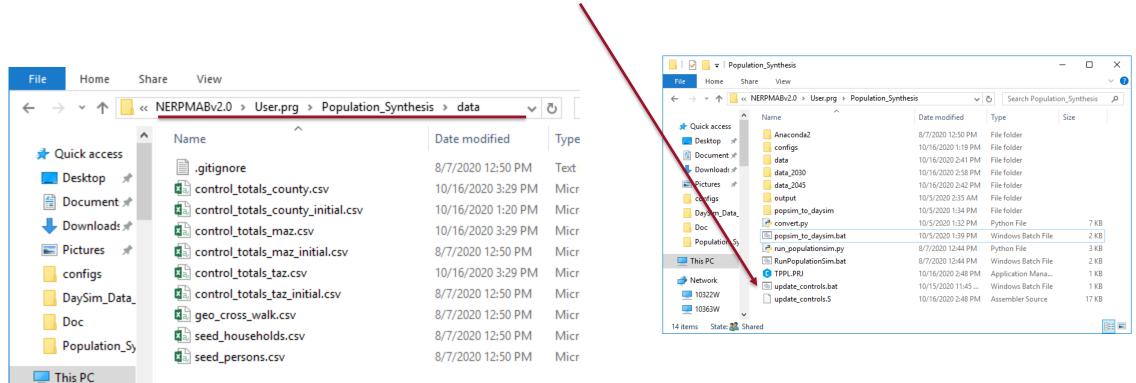


4. Update PopulationSim controls script settings (update_controls.S)



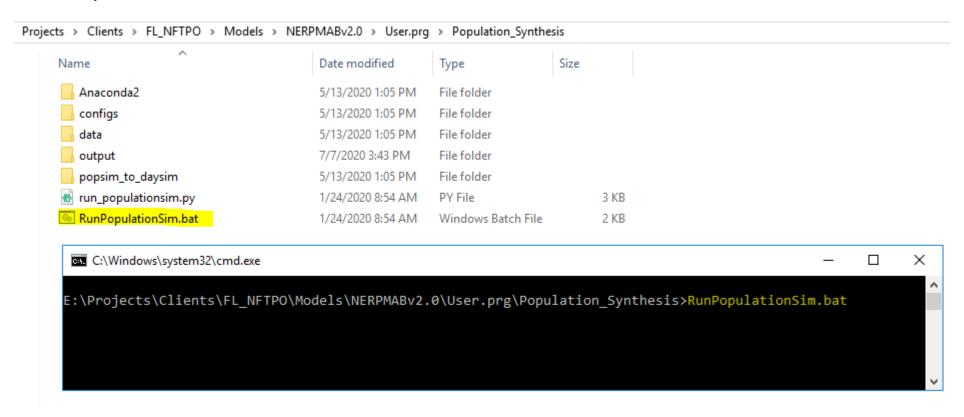


5. Update PopulationSim controls (update_controls.bat)



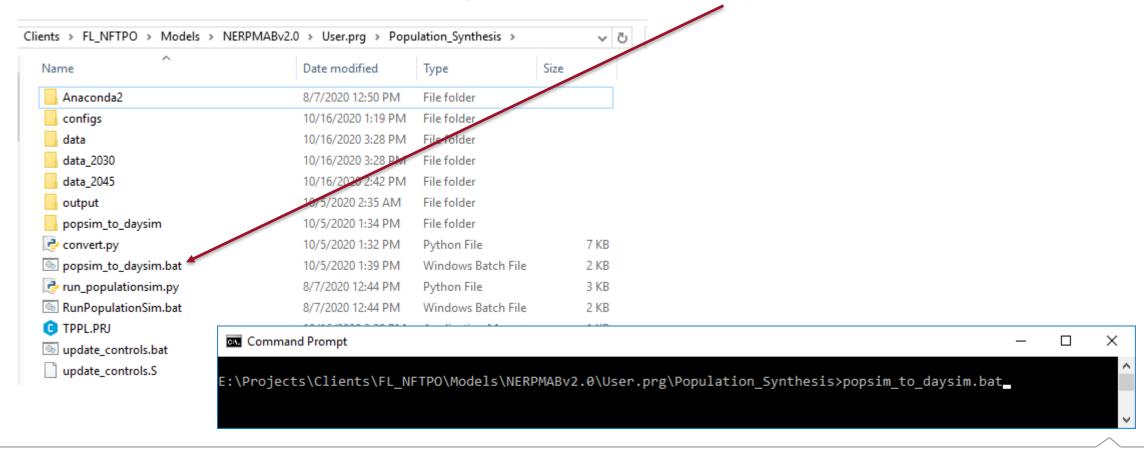


6. Run PopulationSim



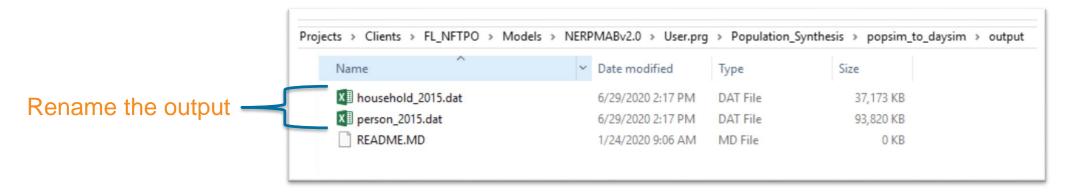


7. Convert PopulationSim output to DaySim input (popsim_to_daysim.bat)





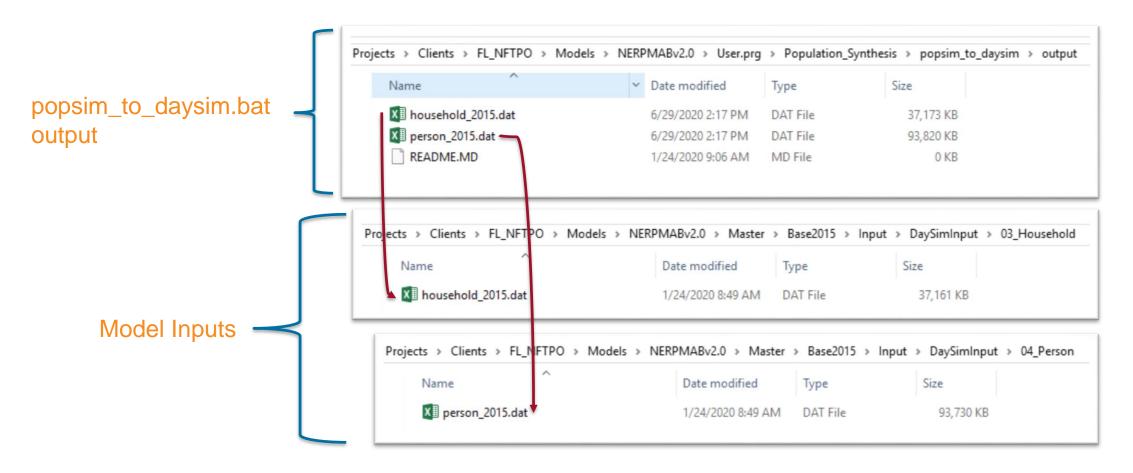
8. Rename the outputs



OUTPUT FILE	RENAME FILE			
	BASE2015	INT2030	CF2045	
household_2015.dat	household_2015.dat	household_2030.dat	household_2045.dat	
person_2015.dat	person_2015.dat	person_2030.dat	person_2045.dat	

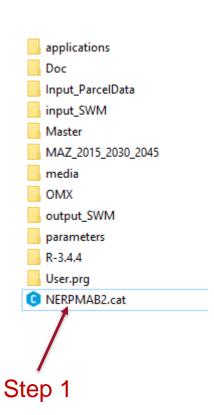


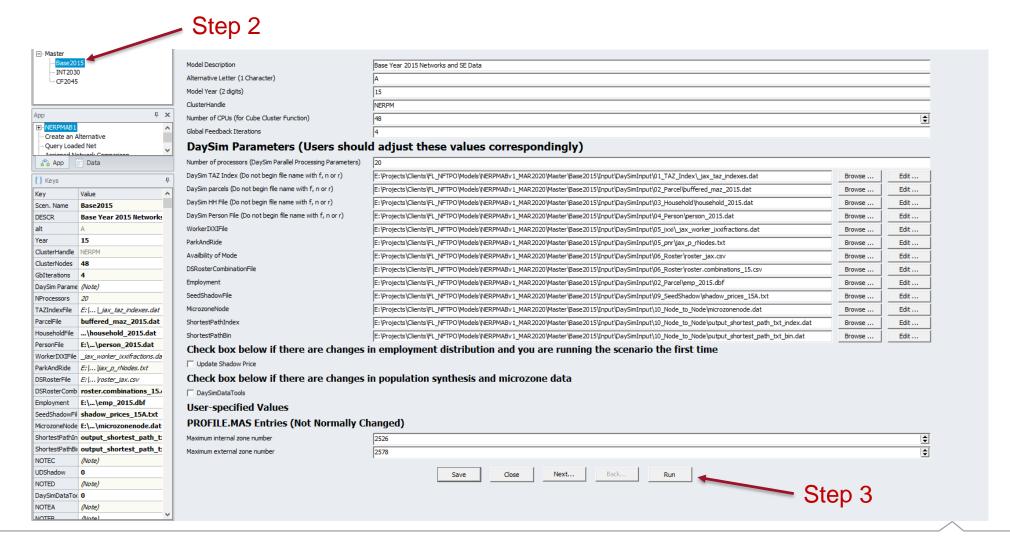
9. Copy outputs to the model scenario input directory





10. Run the model



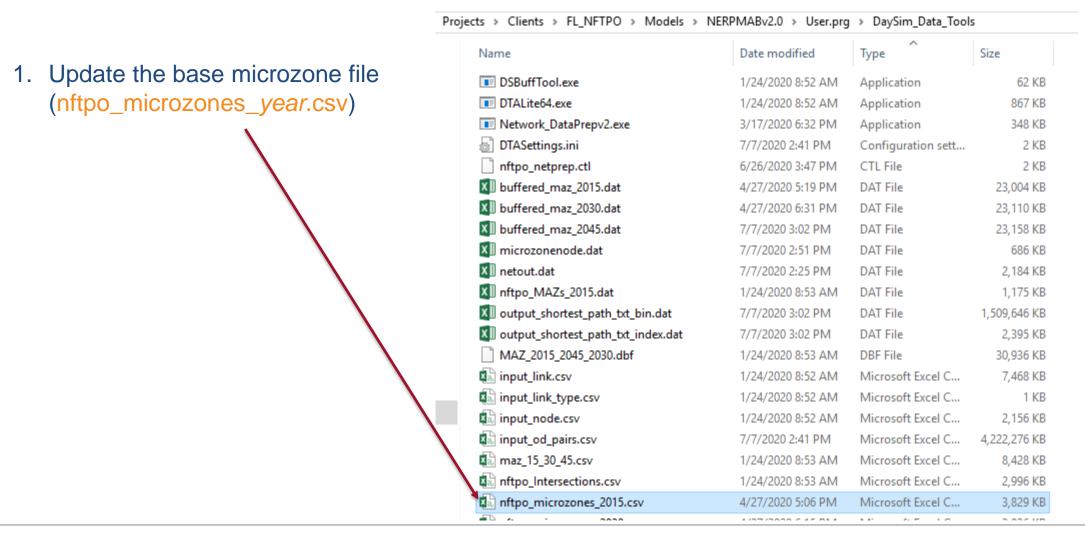




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- 1. Update the base microzone file (nftpo_microzones_year.csv)
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- 3. Copy outputs to the model scenario input directory
- 4. Update the emp_year.dbf file
- 5. Run the model



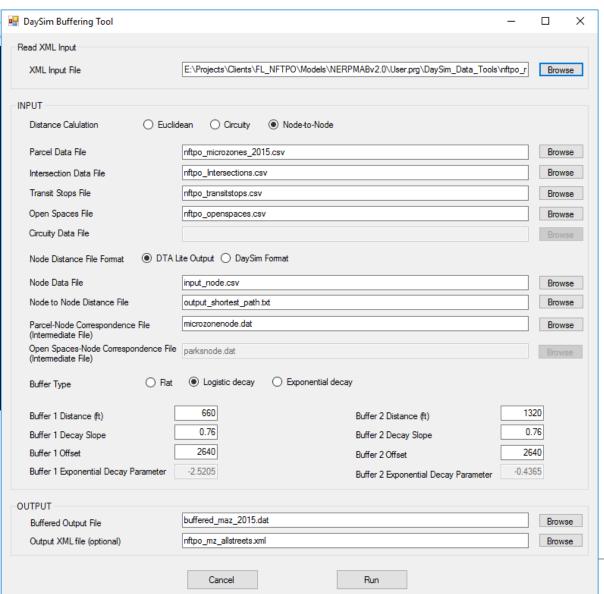




Projects > Clients > FL NFTPO > Models > NERPMABv2.0 > User.prg > DaySim Data Tools Type Size Name Date modified 2a. Run DaySim data tools DSBuffTool.exe Application 1/24/2020 8:52 AM 62 KB (DSBuffTool.exe) DTALite64.exe Application 867 KB 1/24/2020 8:52 AM Network_DataPrepv2.exe Application 348 KB 3/17/2020 6:32 PM 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 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 7/7/2020 3:02 PM DAT File 23,158 KB XII microzonenode.dat 7/7/2020 2:51 PM 686 KB 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 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 4,222,276 KB 7/7/2020 2:41 PM Microsoft Excel C... maz_15_30_45.csv Microsoft Excel C... 8,428 KB 1/24/2020 8:53 AM nftpo_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... 2 226 160



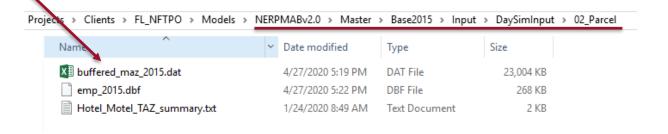
2b. Run DaySim data tools (DSBuffTool.exe)





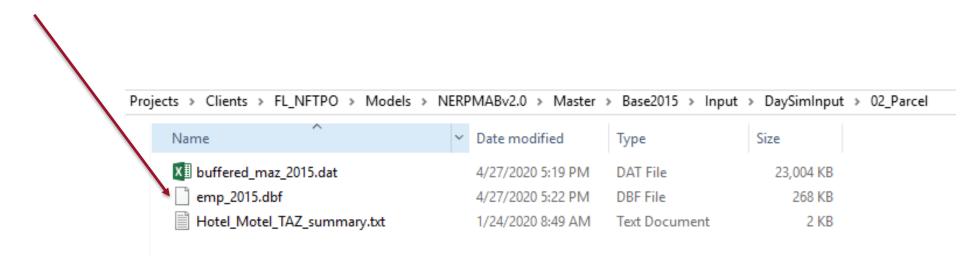
3. Copy outputs (buffered_maz_year.csv) to the model scenario input directory

Name	Date modified	Type	Size
■ DSBuffTool.exe	1/24/2020 8:52 AM	Application	62 KI
■ DTALite64.exe	1/24/2020 8:52 AM	Application	867 KI
■ Network_DataPrepv2.exe	3/17/2020 6:32 PM	Application	348 K
DTASettings.ini	7/7/2020 2:41 PM	Configuration sett	2 K
nftpo_netprep.ctl	6/26/2020 3:47 PM	CTL File	2 K
X buffered_maz_2015.dat	4/27/2020 5:19 PM	DAT File	23,004 K
X buffered_maz_2030.dat	4/27/2020 6:31 PM	DAT File	23,110 K
X buffered_maz_2045.dat	7/7/2020 3:02 PM	DAT File	23,158 K
x microzonenode.dat	7/7/2020 2:51 PM	DAT File	686 K
X netout.dat	7/7/2020 2:25 PM	DAT File	2,184 K
X nftpo_MAZs_2015.dat	1/24/2020 8:53 AM	DAT File	1,175 K
X output_shortest_path_txt_bin.dat	7/7/2020 3:02 PM	DAT File	1,509,646 K
X output_shortest_path_txt_index.dat	7/7/2020 3:02 PM	DAT File	2,395 K
MAZ_2015_2045_2030.dbf	1/24/2020 8:53 AM	DBF File	30,936 K
input_link.csv	1/24/2020 8:52 AM	Microsoft Excel C	7,468 K
input_link_type.csv	1/24/2020 8:52 AM	Microsoft Excel C	1 K
input_node.csv	1/24/2020 8:52 AM	Microsoft Excel C	2,156 K
input_od_pairs.csv	7/7/2020 2:41 PM	Microsoft Excel C	4,222,276 K
maz_15_30_45.csv	1/24/2020 8:53 AM	Microsoft Excel C	8,428 K
nftpo_Intersections.csv	1/24/2020 8:53 AM	Microsoft Excel C	2,996 K
nftpo_microzones_2015.csv	4/27/2020 5:06 PM	Microsoft Excel C	3,829 K

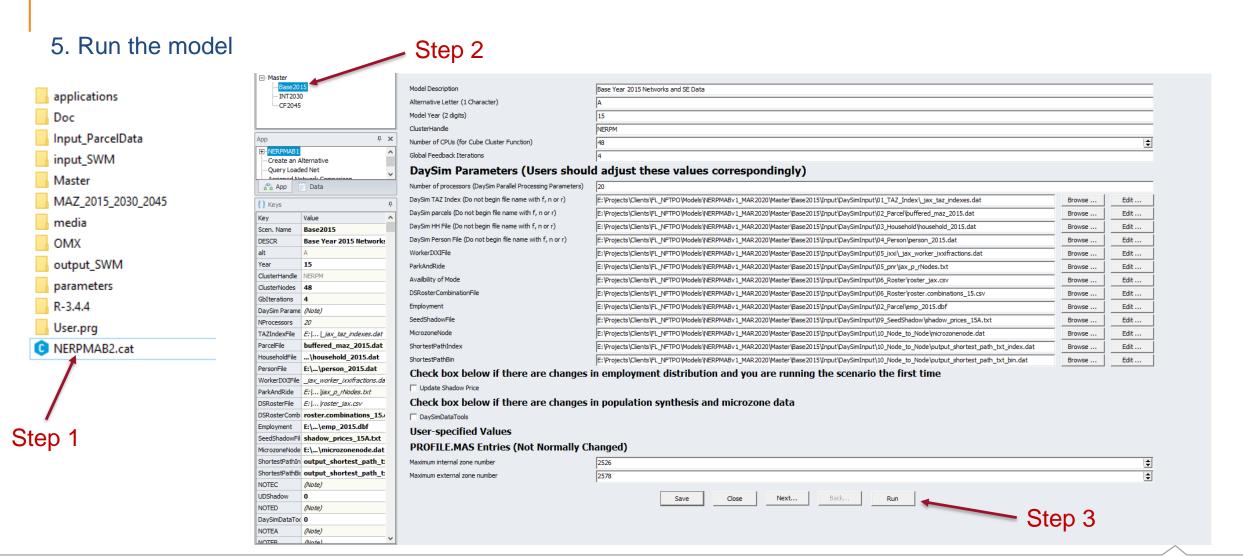




4. Update the emp_year.dbf file









Adding additional Hotel rooms to a TAZ

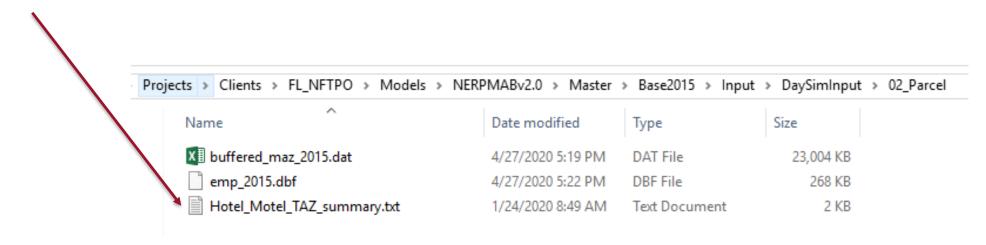
To add additional hotel rooms to a TAZ, the user needs to -

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



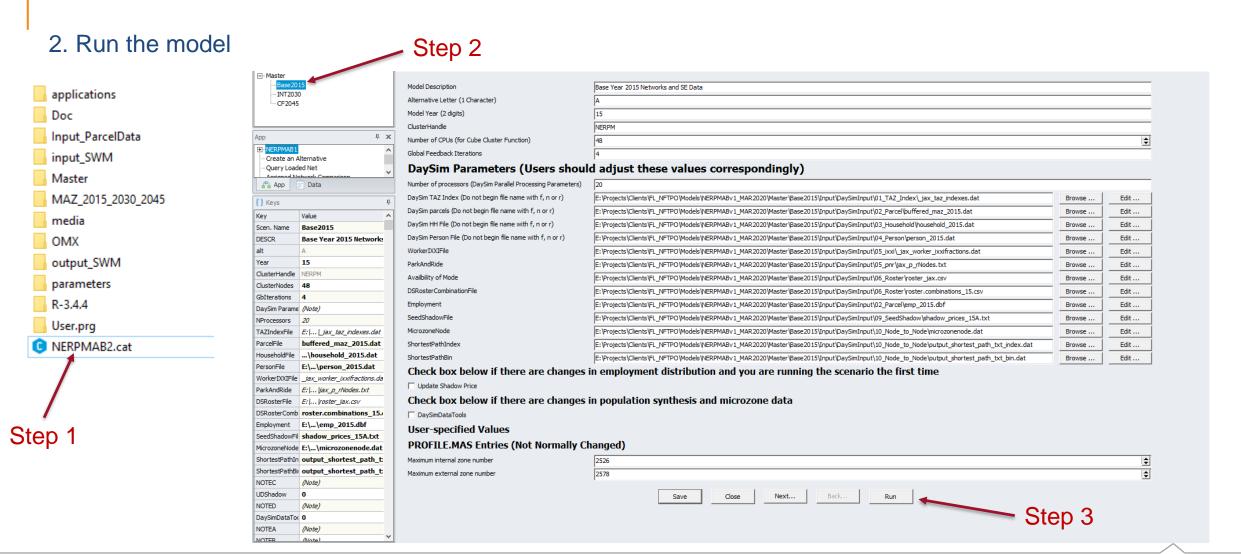
Adding additional Hotel rooms to a TAZ

1. Update the Hotel_Motel_TAZ_summary.txt file

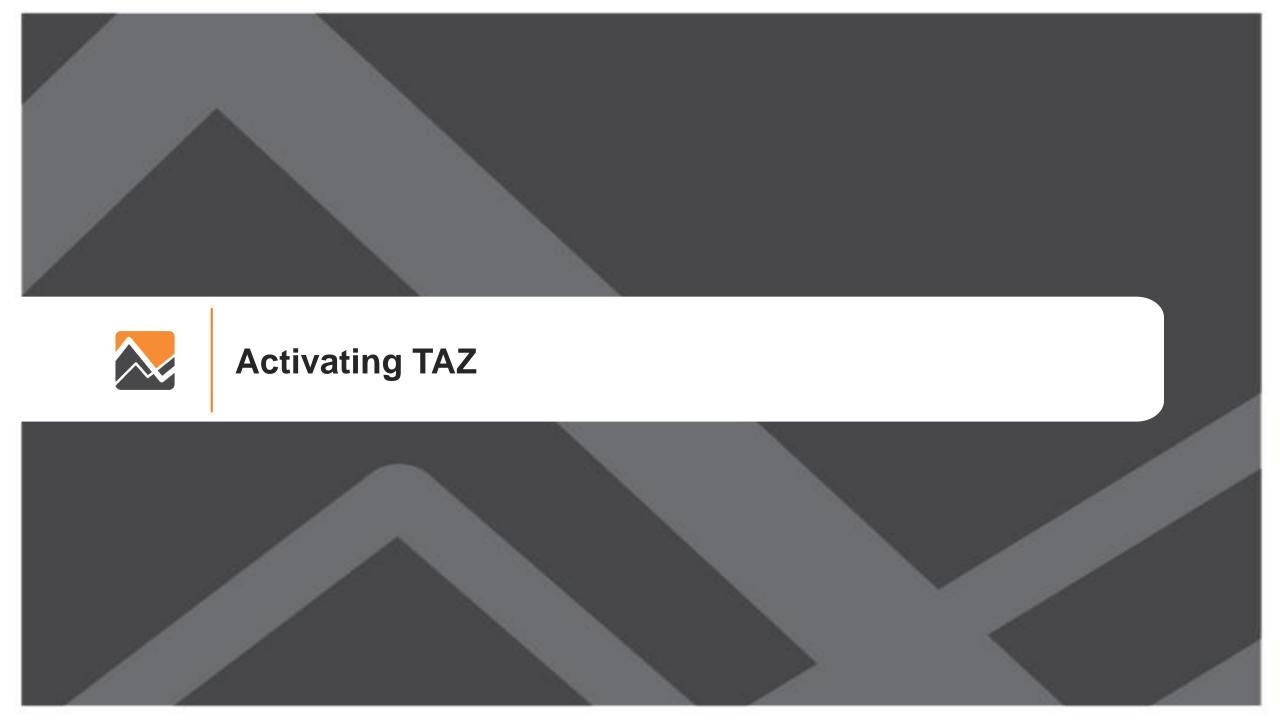




Adding additional Hotel rooms to a TAZ





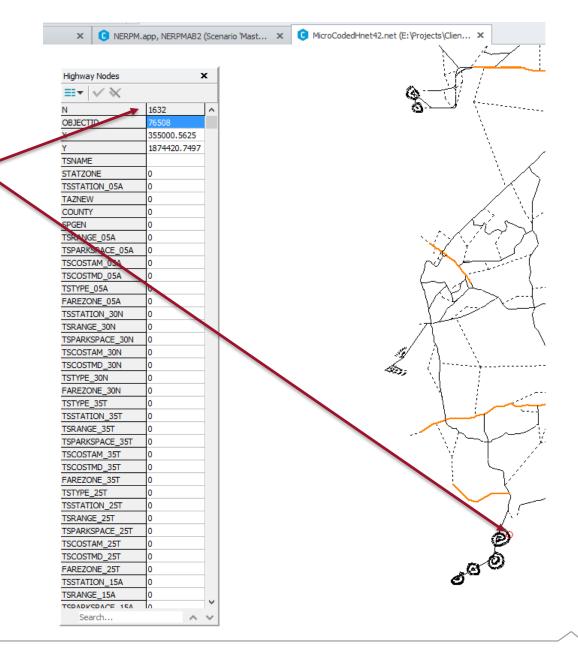


To activate a TAZ the user needs to follow the steps listed:

- 1. Identify the dummy TAZ to be activated
- 2. Update the input network within Cube (MicroCodedHnet42.net)
- 3. Identify the overlap/association between existing MAZs and the new TAZ
- 4. Update the land-use file (nftpo_microzones_year.csv)
- 5. Update the PopulationSim Inputs
- 6. Update scenario input files in "scenario/Input/" folder.
- 7. Run the model

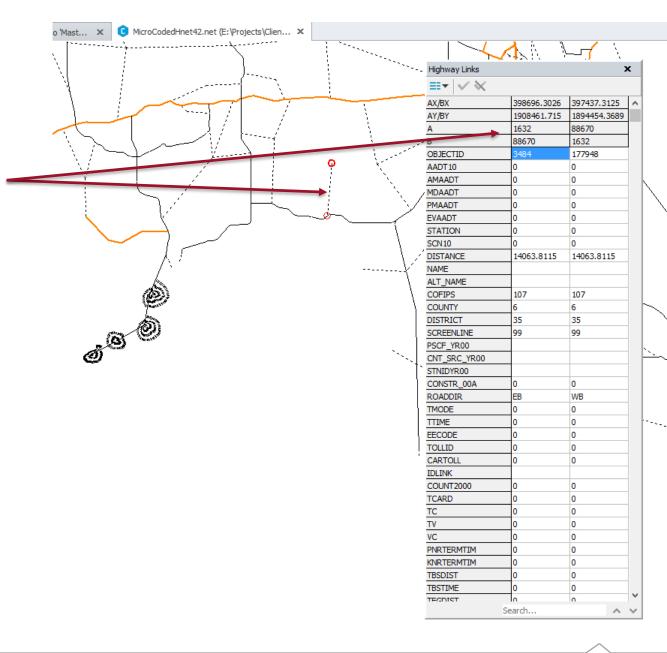


1. Identify the dummy TAZ to be activated for e.g 1632





- 2. Update the input network within Cube (MicroCodedHnet42.net)
- Relocate the dummy TAZ to the centroid of new TAZ.
- Update the attributes of the dummy TAZ.
- Build network links that would connect the dummy TAZ to appropriate nodes on the network.
- Update the attributes of these network links.

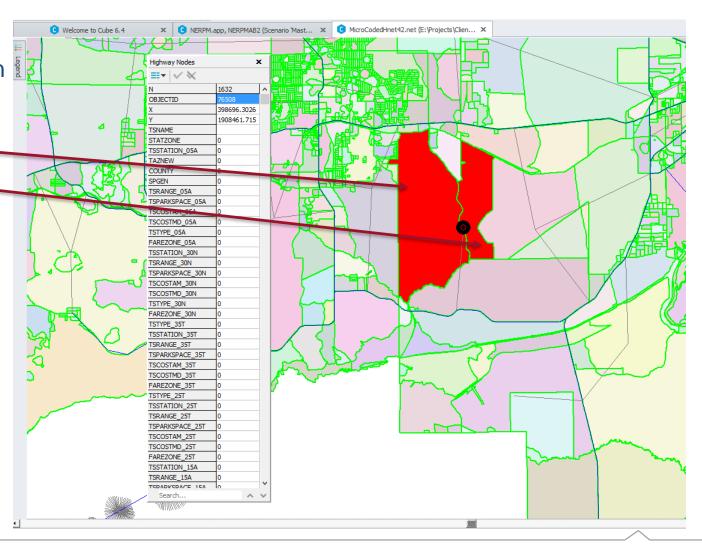




3. Identify the overlap/association between existing MAZs and the new TAZ for e.g.

MAZ: 17949

MAZ: 27024

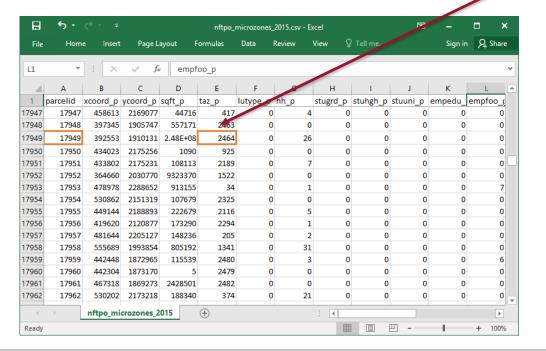




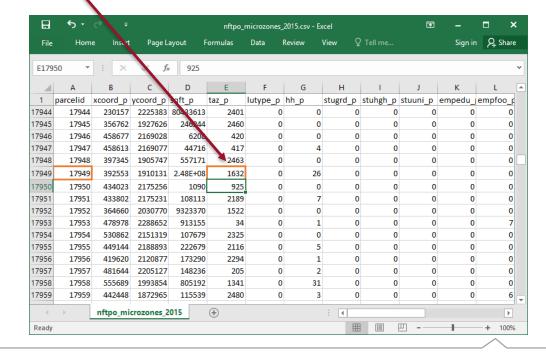
4. Update the land-use file (nftpo_microzones_year.csv)

 Update the "taz_p" field for MAZs that are now identified as associated with new TAZ for all scenario years. For e.g. MAZ: 17949 is shown here.

BEFORE



AFTER

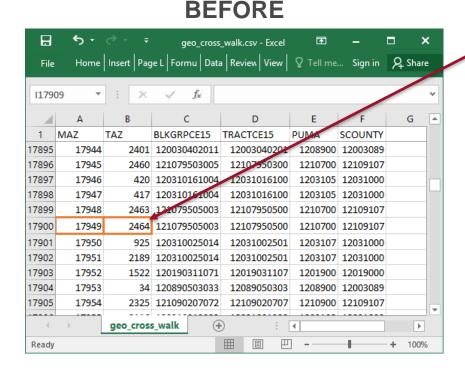


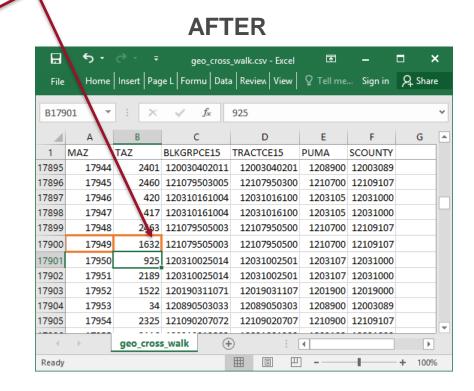


5. Update the PopulationSim Inputs

 Update the fields associated with MAZs identified in the earlier step with updated TAZ in

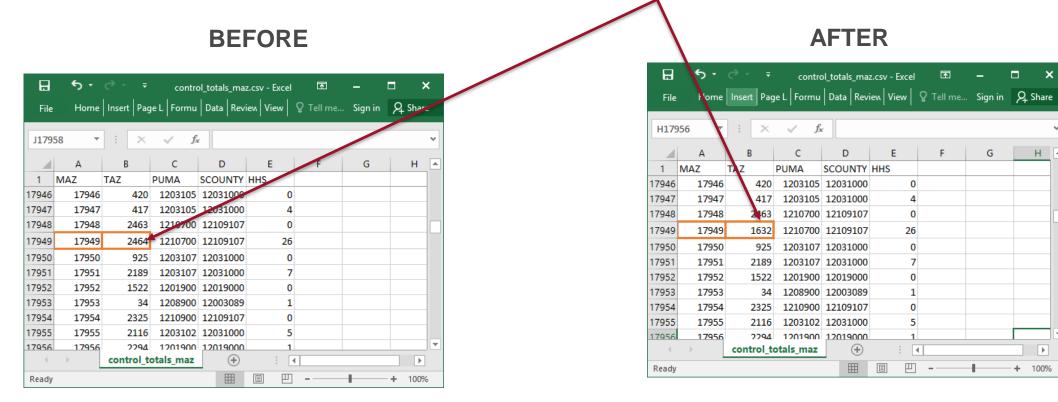
geo_cross_walk.csv.





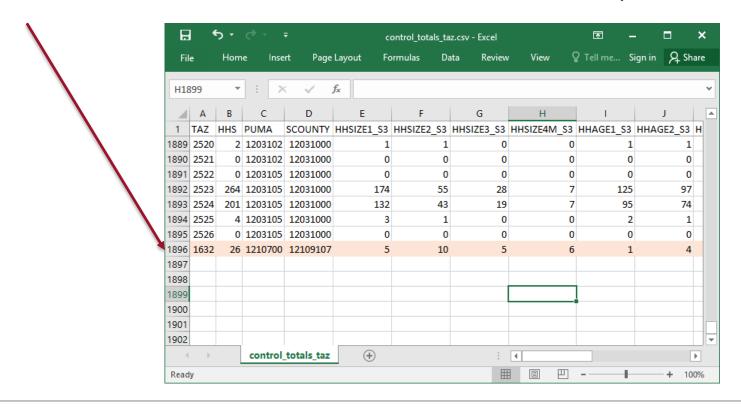


- 5. Update the PopulationSim Inputs
- Update the TAZ field for identified MAZs in control_totals_maz.csv file.





- 5. Update the PopulationSim Inputs
- Update the control_totals_taz.csv file by adding a row for dummy TAZ and recording appropriate values in rest of the fields. It should be ensured that the values entered are reasonable for e.g. household size values should not all be 0 and should match up to total households.





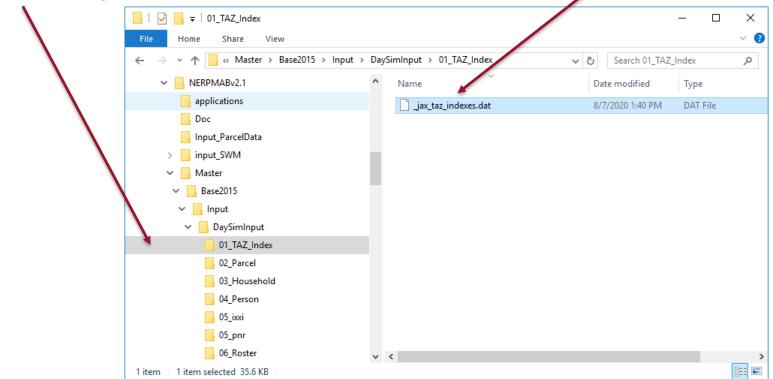
- 5. Update the PopulationSim Inputs
- Go through the steps 4-10 in the <u>Adding 100</u> households to an MAZ section of the training material.



6. Update scenario input files in "scenario/Input/" folder.

Add/Update the "Zone_id" and "Zone_ordinal" field in the _jax_taz_indexes.dat file located in "scenario/Input/DaySimInput/01_TAZ_Index/" folder to the dummy TAZ. Set

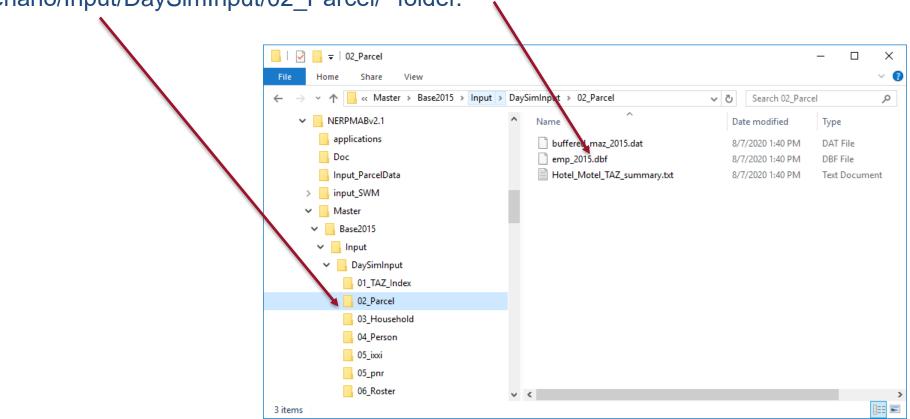
the "Dest_eligible" field for this TAZ to a value of 1.





6. Update scenario input files in "scenario/Input/" folder.

 Add/Update the TAZ field in the emp_year.dbf file located in "scenario/Input/DaySimInput/02 Parcel/" folder.

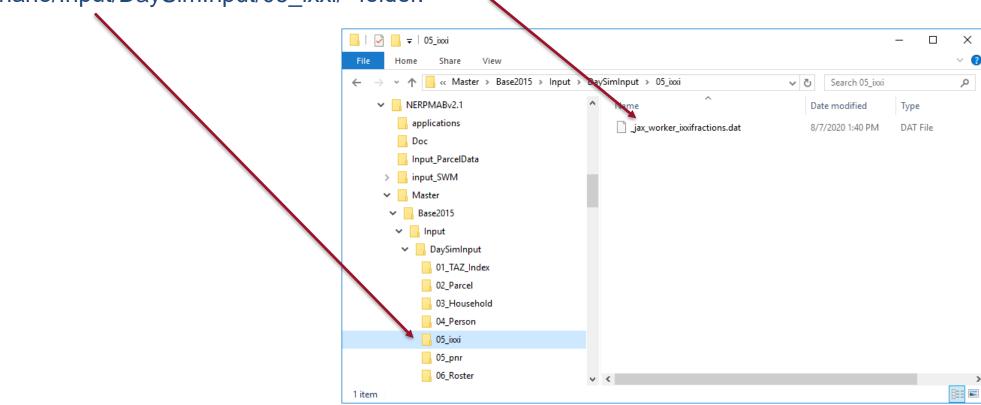




6. Update scenario input files in "scenario/Input/" folder.

Add/Update the TAZ field in the _jax_worker_ixxifractions.dat file located in

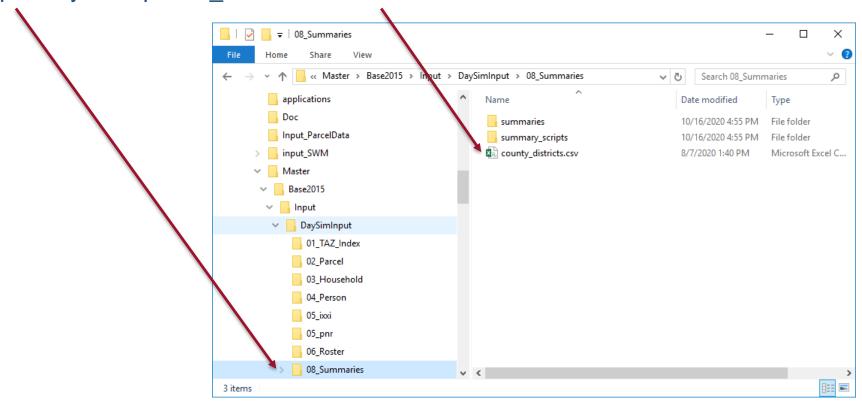
"scenario/Input/DaySimInput/05_ixxi/" folder.





6. Update scenario input files in "scenario/Input/" folder.

 Add/Update the TAZ field in the county_districts.csv file located in the "scenario/Input/DaySimInput/08_Summaries/" folder.

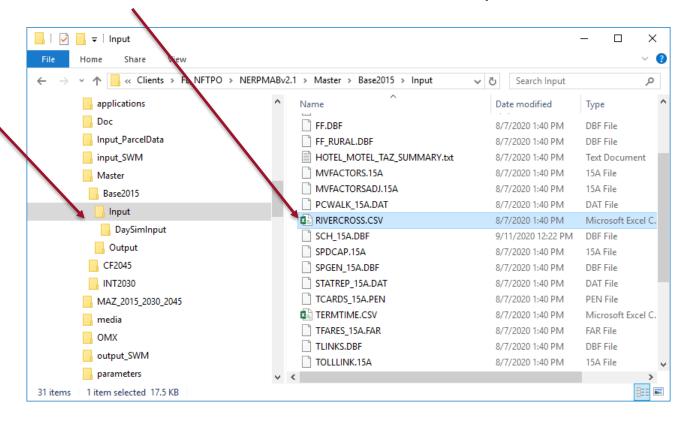




6. Update scenario input files in "scenario/Input/" folder.

Add/Update the TAZ field in the RIVERCROSS.csv file located in the "scenario/Input/"

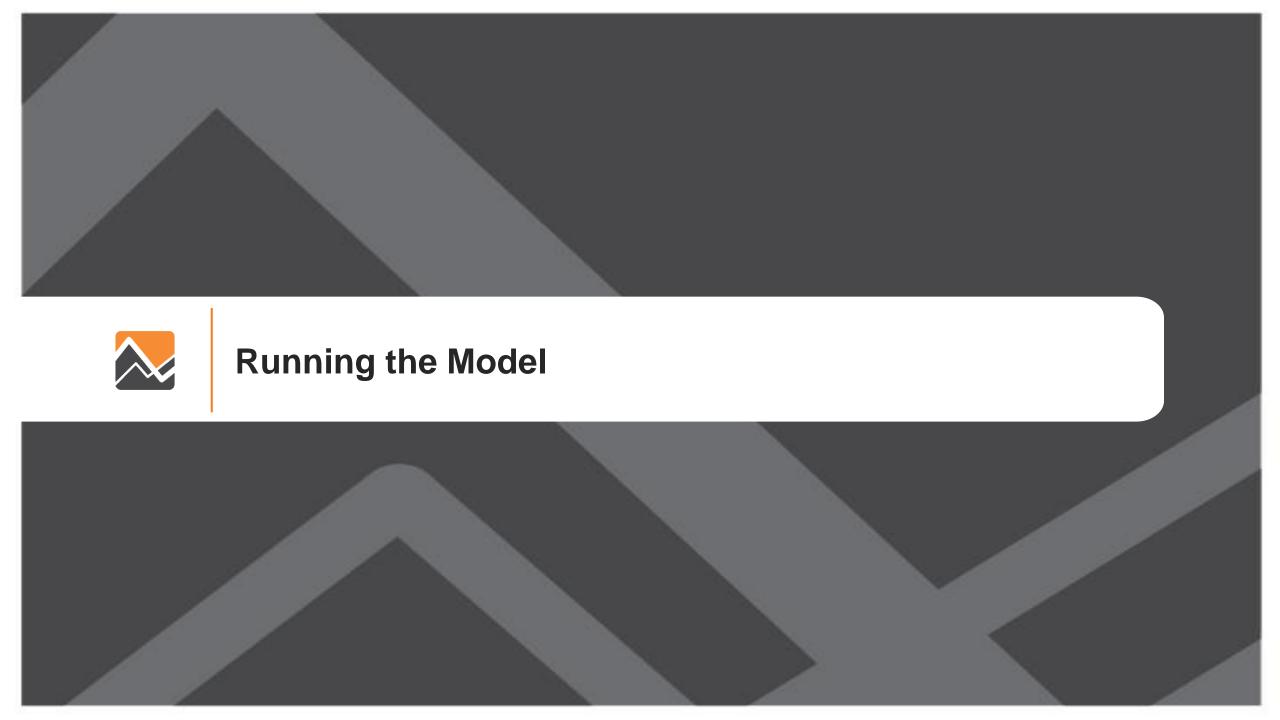
folder.



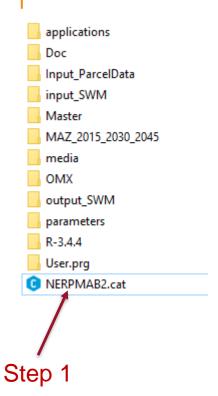


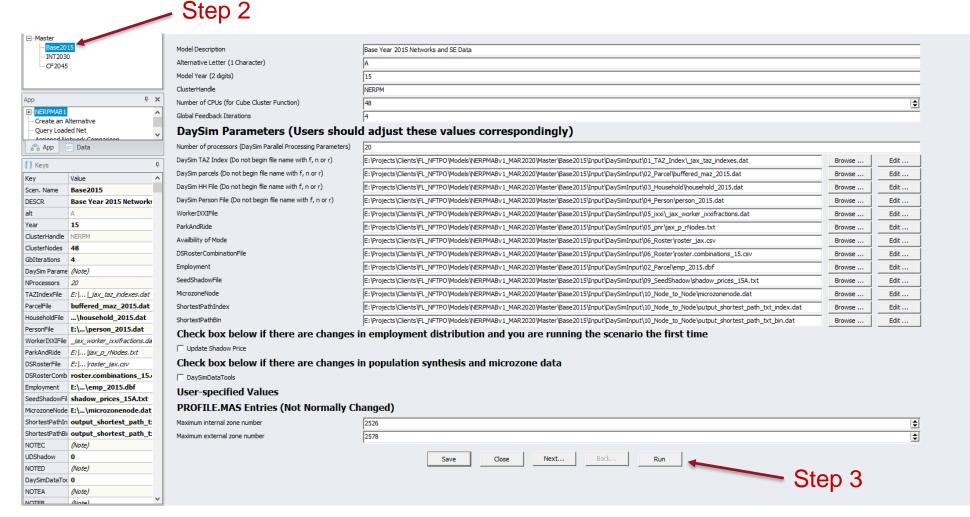
7. Run the model





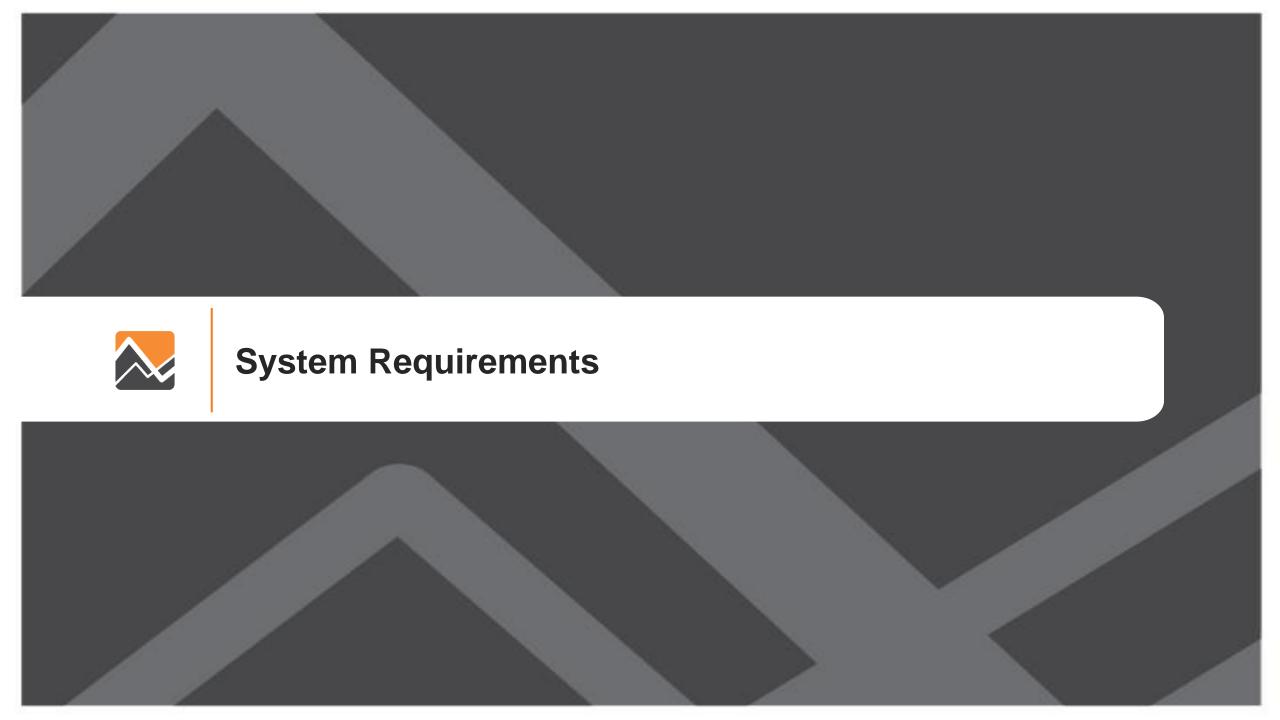
Running Scenarios





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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