

2015/2045 SERPM 8.543(Activity-Based Model) *CURRENT ADOPTED MODEL*

2015/2045 SERPM 8.543 model is now available for download. *CURRENT ADOPTED MODEL*

General Notes about the 2045 Scenarios: There are two 2045 scenarios in SERPM8 model catalog- 1. "LRTP_2045" (Cost Feasible 2045 SE Data); 2. "LRTP_Plus45" ("LRTP+" 2045 SE Data). Both scenarios use the most up to date highway networks. The only difference between the two is the TAZ data. For the 2045 LRTP CF scenario, the original 2045 LRTP TAZ data is used. For the 2045 LRTP+ scenario, the most up to date 2045 TAZ data is used with edits from the MPO data amendments.

The following is the naming convention of the model version:

The integer (8) - The model structure

The first decimal place (5) - The last digit of the base year (2015)

The second decimal place (4) - The last digit of the release year (2024)

The last decimal place (3) - The third quarter of the release year

This version is compatible with Cube 6.4.5 and includes CT-RAMP.

The SERPM 8 User/Reference Guide can be found here: [SERPM 8 Reference](#)
The Reference Guide includes the following information:

- Model installation, setup, and configuration
 - How to run and troubleshoot
 - Model components (inputs, outputs, reports)
 - Video Tutorials
 - And more...
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- Model Version Number: **8.543**
 - Date of Model Completion: **October, 2024**
 - Key Differences Compared to Previous Model Version:**Land use data updates in Palm Beach and Broward counties**
 - Base Year (validation year of model): **2015**
 - Horizon Year: **2045**
 - Model Type: **Activity-based**
 - Time of Day: **Multiple periods**

SERPM 8.543 Patch Release

Hotel/Motel Updates in Miami-Dade and Approved Developments in Broward

Release Date: 05/22/2025

Summary:

This patch release updates 2050 socio-economic data within the SERPM8543 model. It includes:

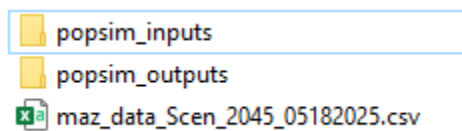
- Hotel/Motel updates in Miami-Dade
- Recently approved developments in Broward County

Instructions:

- Download the SERPM8543_Patch.zip folder

[SERPM8543_Patch](#)

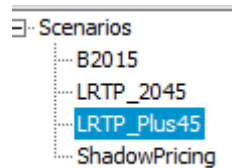
- The zip file contains the following files and folders:



- Copy to replace the files and folder located “C:\SERPM8543\Inputs\SEData\”

Model Catalog Updates

- Next Open SERPM8 CUBE Catalog (SERPM8.cat)
- Double-click LRTP_PLUS45 scenario



Update the following file paths for POPSIM

- **Control Totals for META -**
C:\SERPM8543\Inputs\SEData\popsim_inputs\Control_Totals\control_totals_meta_2045Plus_v20250516.csv
- **Control Total for TAZ-**

C:\SERPM8543\Inputs\SEData\popsim_inputs\Control_Totals\control_totals_taz_2045Plus_v20250516.csv

- **Control Total for MAZ-**

C:\SERPM8543\Inputs\SEData\popsim_inputs\Control_Totals\control_totals_maz_2045Plus_v20250516.csv

SERPM8 Scenario Manager
Version 8.543

Scenario Description (no spaces - used in file names) Forecast2045 LRTP+
Model Forecast Year 2045
Scenario Alternative Code ID Letter F

Population Synthesis Setup

Option
☒ Use Existing PopulationSim Output (***) NOTE: If this option is chosen, the user needs to browse and select the existing Persons File and Households File in the "Land Use Inputs" section on the next page.***
☐ Run PopulationSim

PopulationSim Directory C:\SERPM8543_Plus\PopulationSim Browse ... Edit ...

Mode to Run
☒ Regular
☐ Multiprocessing
☐ Repop

Conda Path C:\Users\Ftmodel\Anaconda3 Browse ... Edit ...

Conda Environment popsim

Control Totals for META C:\SERPM8543_Plus\Inputs\SEData\popsim_inputs\Control_Totals\control_totals_meta_2045Plus_v20250516.csv Browse ... Edit ...

Control Totals for TAZ C:\SERPM8543_Plus\Inputs\SEData\popsim_inputs\Control_Totals\control_totals_taz_2045Plus_v20250516.csv Browse ... Edit ...

Control Totals for MAZ C:\SERPM8543_Plus\Inputs\SEData\popsim_inputs\Control_Totals\control_totals_maz_2045Plus_v20250516.csv Browse ... Edit ...

Set control file for REPOP Mode C:\SERPM8543_Plus\Inputs\SEData\popsim_inputs\Control_Totals\repop_control_totals_maz.csv Browse ... Edit ...

Update the following file paths

- **MAZ Data** - C:\SERPM8543\Inputs\SEData\maz_data_Scen_2045_05182025.csv
- **Persons File** -
C:\SERPM8543\Inputs\SEData\popsim_outputs\2045\personFile_Scen_2045_rundate_20251805.csv
- **Households File** –
C:\SERPM8543\Inputs\SEData\popsim_outputs\2045\hhfile_Scen_2045_rundate_20251805.csv

Networks

Highway Network C:\SERPM8543_Plus\Inputs\Highway\SERPM8_2045_v06162024.net Browse ... Edit ...

Transit Network C:\SERPM8543_Plus\Inputs\Transit\TROUTE_CF_v20231509.in Browse ... Edit ...

Turn Penalty File C:\SERPM8543_Plus\Inputs\Highway\TURNS_SERPM8_CF_v06162024.PEN Browse ... Edit ...

Land Use Inputs

*** NOTES: 1. If the user has chosen "Run PopulationSim" and the "Regular" mode on the previous page, browse and select an existing MAZ data file for the scenario.
2. If the user has chosen "Run PopulationSim" and the "Repop" mode on the previous page, browse and select the MAZ data file created by the "Regular" mode for the scenario. ***

MAZ Data C:\SERPM8543_Plus\Inputs\SEData\maz_data_Scen_2045_05182025.csv Browse ... Edit ...

*** NOTE: Browse and select the existing Persons File and Households File if the user has chosen the option "Use Existing PopSyn3 Output" or "Use Existing PopulationSim Output" on the previous page. ***

(HMMDDYYYY.csv)

Persons File C:\SERPM8543_Plus\Inputs\SEData\popsim_outputs\2045\personFile_Scen_2045_rundate_20251805.csv Browse ... Edit ...

Households File C:\SERPM8543_Plus\Inputs\SEData\popsim_outputs\2045\hhfile_Scen_2045_rundate_20251805.csv Browse ... Edit ...