



TBRPM VISUM Model

User Guide

11/2022

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2. Understanding the Model Structure
3. Run the Model
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1. System Requirements and Installation Guide

- System Requirements
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- TBRPM VISUM Model Installation

System Requirements

- PTV VISUM 2022 needs to be installed for TBRPM VISUM v9.3
- Check the System Requirements below (Hardware and Software) for PTV VISUM 2022

Hardware requirements

	Minimum	Recommended for standard installation
Processor	X64 processor with support for SSE4.2, e.g.: ➤ Intel Core i5 / Core i7 ➤ AMD FX	Recent multi-core processor, e.g.: ➤ Intel Core i7-12700K, i9-12900K, i9-12900KS ➤ Intel Xeon W-1370, W-1370P, W-1390P ➤ AMD Ryzen 9 5900X, Ryzen 9 5950X or better ¹
Memory	4 GB	16-32 GB or more ²
Disk space (software)	2 GB free disk space per product for compact installation	5 GB free disk space per product for full installation
Monitor	Screen resolution 1280x800 or 1366x768 pixels	Full HD (1920x1080 pixels) or higher resolutions, multiple screens are supported
Graphics Card	For 3D Graphics OpenGL® 3.0 or DirectX 11 support is recommended	
USB / Network	➤ In case the license is provided in relation with a hardware dongle a full USB port is required for operation. ➤ In case a network license is provided, access to a license server in the local network or the internet is required for operation.	
Disk space (project data)	Sufficient storage capacity for project data handling, ideally on SSD	

Software requirements

- Microsoft Windows 8.1, latest Service Pack, but not Microsoft Windows 8.1 RT
- Microsoft Windows 10, latest release
- Microsoft Windows 11, latest release
- Microsoft Windows 2012 Server R2, latest Service Pack
- Microsoft Windows 2016 Server, latest Service Pack
- Microsoft Windows 2019 Server, latest Service Pack
- Microsoft Windows 2022 Server, latest release

Software Installation Preparation

✓ Make sure you have received an email with the **Ticket code** for retrieving the **License** information and have it available.

✓ Download the PTV VISUM 2022 setup file(s) from the link below:

<https://cgi.ptvgroup.com/visionSetups/en/filter;product=PTV%20Visum;version=2022>. As shown in the figure on the right, you will need to download the setup file for PTV VISUM 2022.

✓ Download PTV Vision – Python 3.9.5 from the link below:

<https://cgi.ptvgroup.com/visionSetups/en/filter;product=PTV%20Vision;version=2022>

Note: The download page will not work with the Internet Explorer browser. Please use Microsoft Edge, Google Chrome or Firefox to download the files.

Downloads

Download here the setup packages of PTV Visum, PTV Vissim, PTV Viswalk and PTV Vistro. A step by step tutorial for installing the software is provided in the document 'Installation Manual'.

Product	Version	Filter	Reset filter
PTV Visum	2022		Reset filter

PTV Visum

Version	Edition	Description	File Type	
2022		Installation Manual	Document	Download (pdf 629 KB 2022-04-26)
2022.01-12		Release Notes	Document	Download (pdf 804 KB 2022-09-19)
2022.01-12	64 bit	PTV Visum	Setup	Download (exe 1628 MB 2022-09-15)
2022	64 bit	Service Packs	Updates	Go to Update Packages
2022.01-12		Examples	Setup	Download (exe 726 MB 2022-09-15)

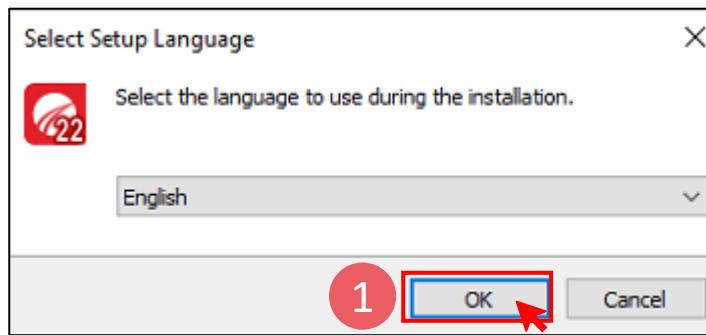
PTV Vision - Python

Version	Edition	Description	File Type	
3.9.5	64 bit	Vision-Python	Setup	Download (exe 39 MB 2022-04-25)
3.7.4	64 bit	Vision-Python	Setup	Download (exe 36 MB 2021-01-22)
2.7.15	64 bit	Vision-Python	Setup	Download (exe 28 MB 2019-04-19)

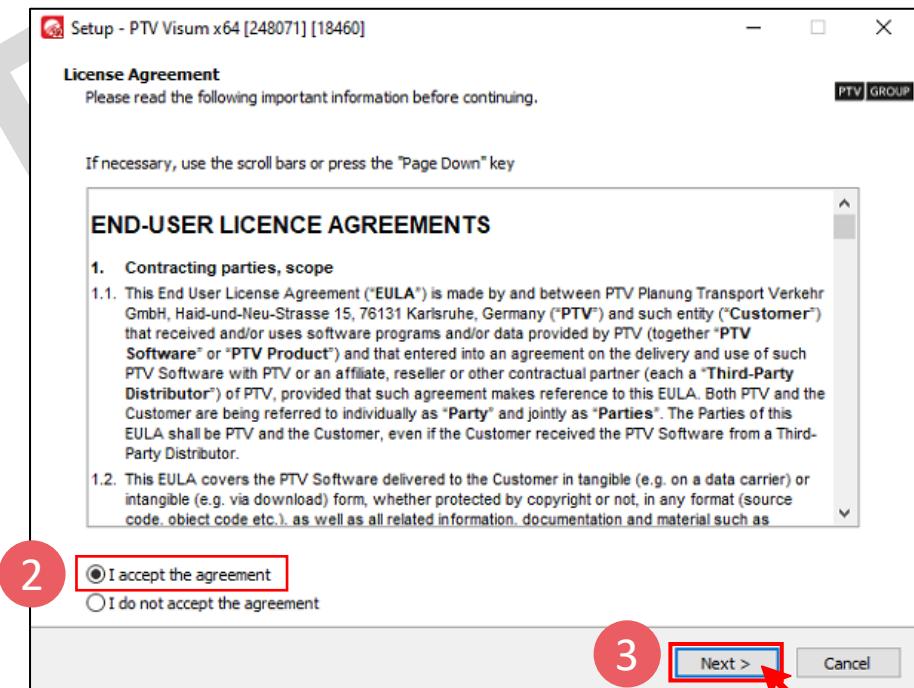
PTV VISUM Installation Instructions

1. Run the setup file (i.e. Setup_VISUM_2022.01-11_x64_Full.exe) that you have downloaded.

2. When the "**Select Setup Language**" window opens, select "**English**" and click "**OK**":

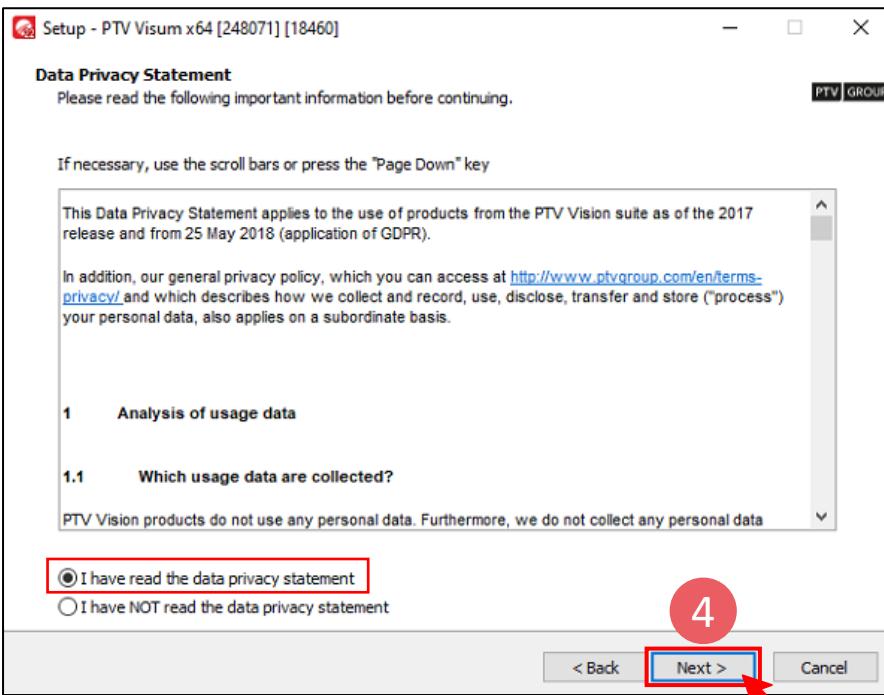


3. Read the "**License Agreement**" and select the "**I accept the agreement**" option. Then click the "**Next**" button.

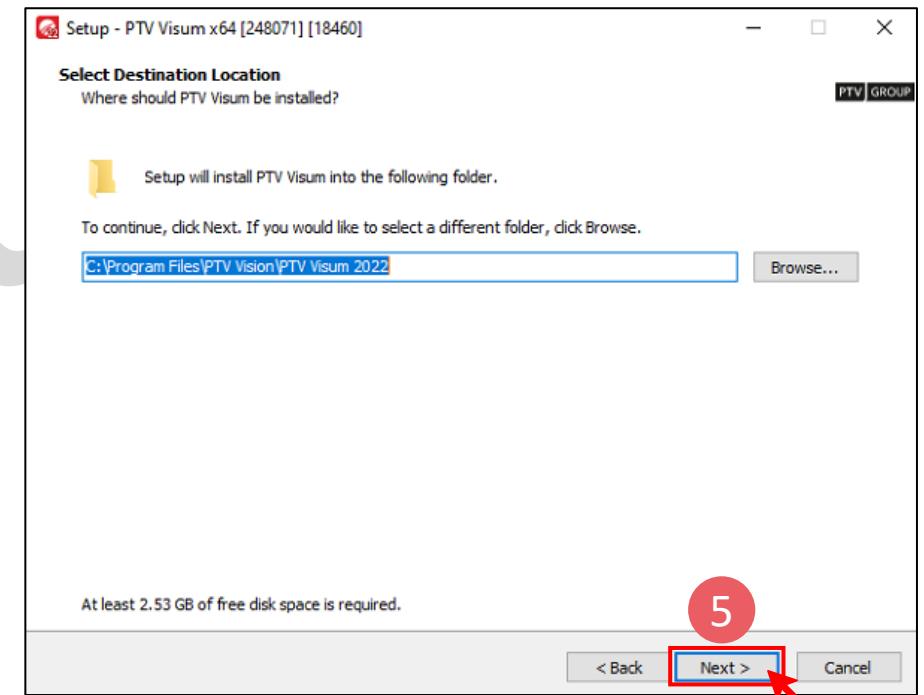


PTV VISUM Installation Instructions

4. Read the "**Data Privacy Policy**" and select the "**I have read the data privacy policy**" option. Then click the "**Next**" button.



5. Select the directory where you want to install PTV VISUM and click the "**Next**" button.

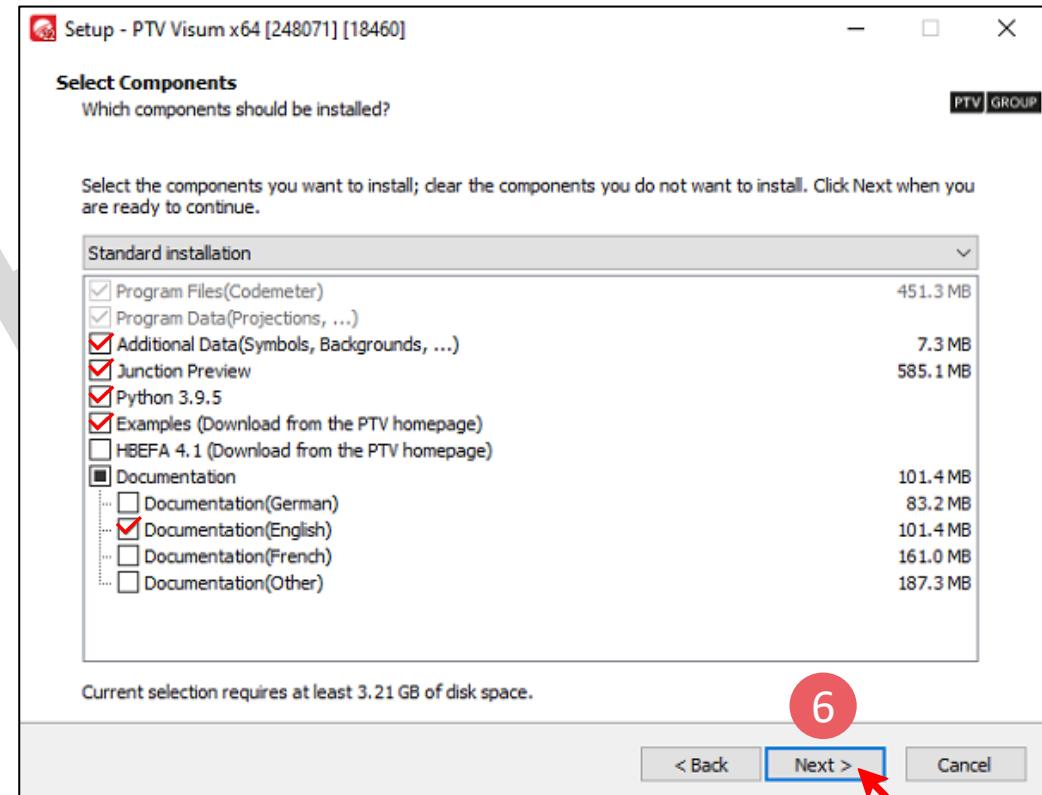


PTV VISUM Installation Instructions

6. Select the components that you want to install including the language and click the "**Next**" button.

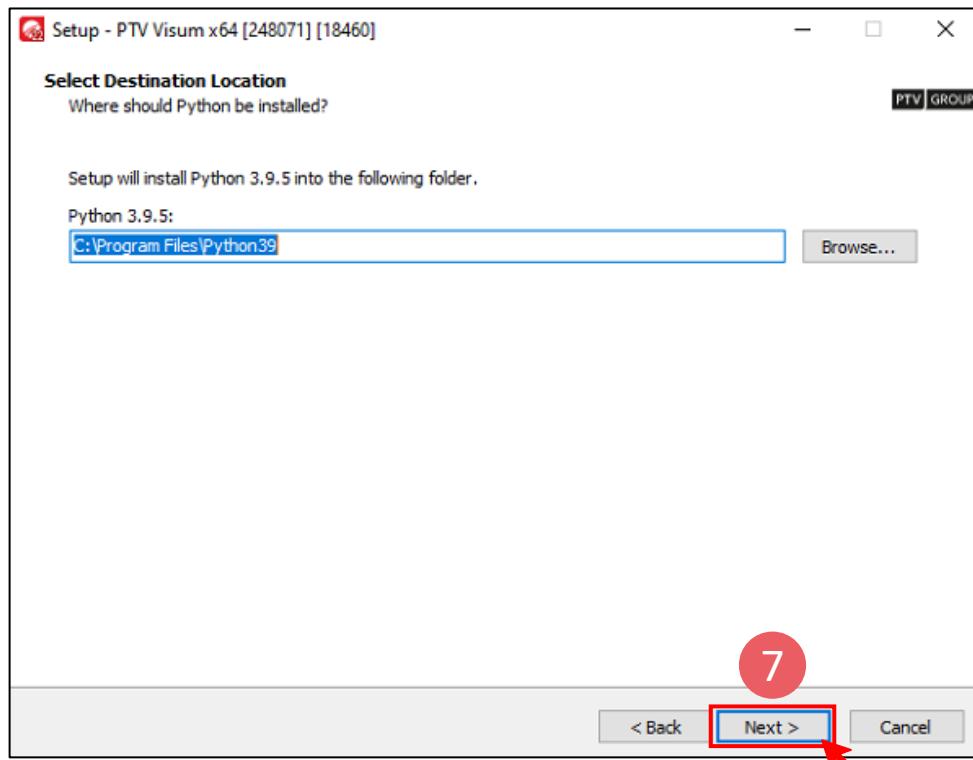
Installation Components Recommended to Select:

- **Additional Data:** Includes symbols free for use in your projects.
- **Junction Preview:** Provides the functionality for the VISSIM node preview.
- **Python 3.7:** Installs the script language Python together with the supplementary libraries. This is required to use certain functions, for example the VISUM Add-ins. (Python 2.7 is not supported anymore)
- **Examples:** Includes various sample networks and examples for using the COM programming interface in VISUM. The examples are downloaded from the PTV website during installation. You can also install the examples at a later time.
- **Documentation:** Includes the entire software documentation. Here you can find information on the COM interface, a description of new functionalities, and the QuickStart tutorial for getting started. Select the languages in which you want to install the documentation.

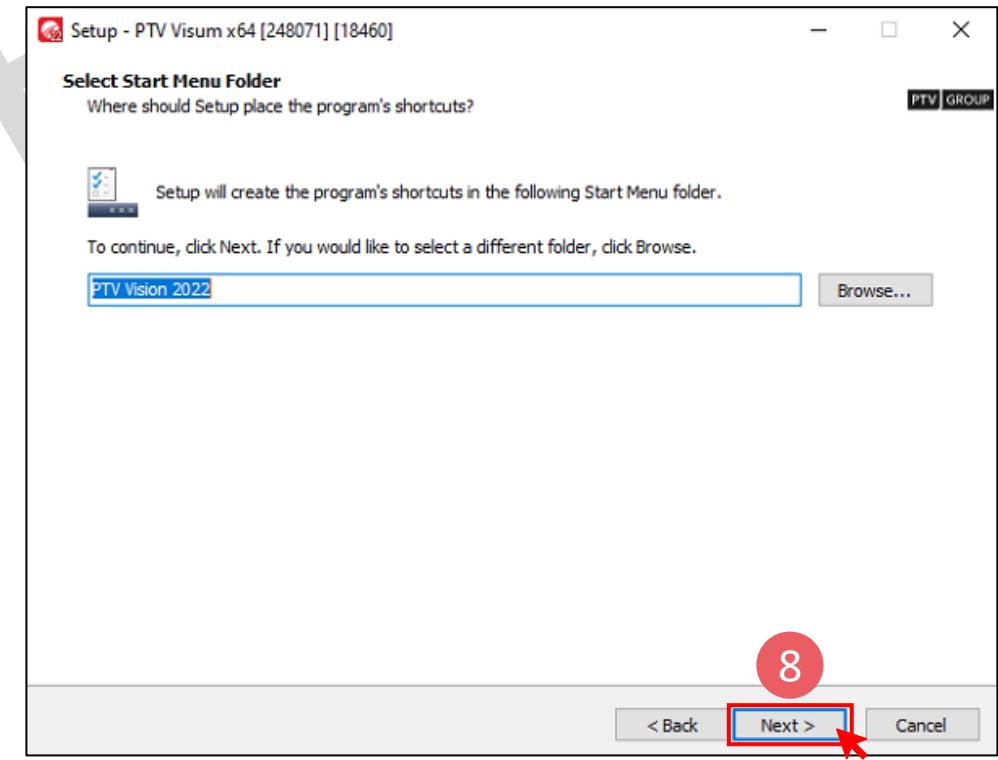


PTV VISUM Installation Instructions

7. Select the directory where you want to install Python and click the "**Next**" button.



8. Specify in which folder of the Windows start menu or in which group of the start screen the PTV VISUM shortcuts shall be created and click the "**Next**" button.

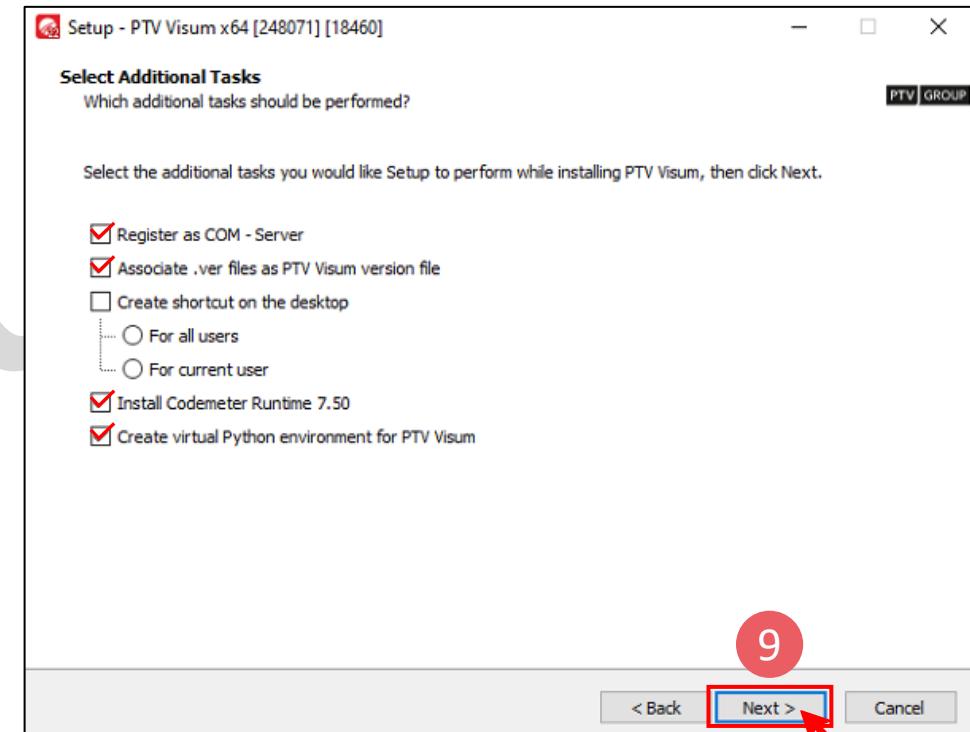


PTV VISUM Installation Instructions

9. Select additional tasks to be performed in the installation and click the "**Next**" button.

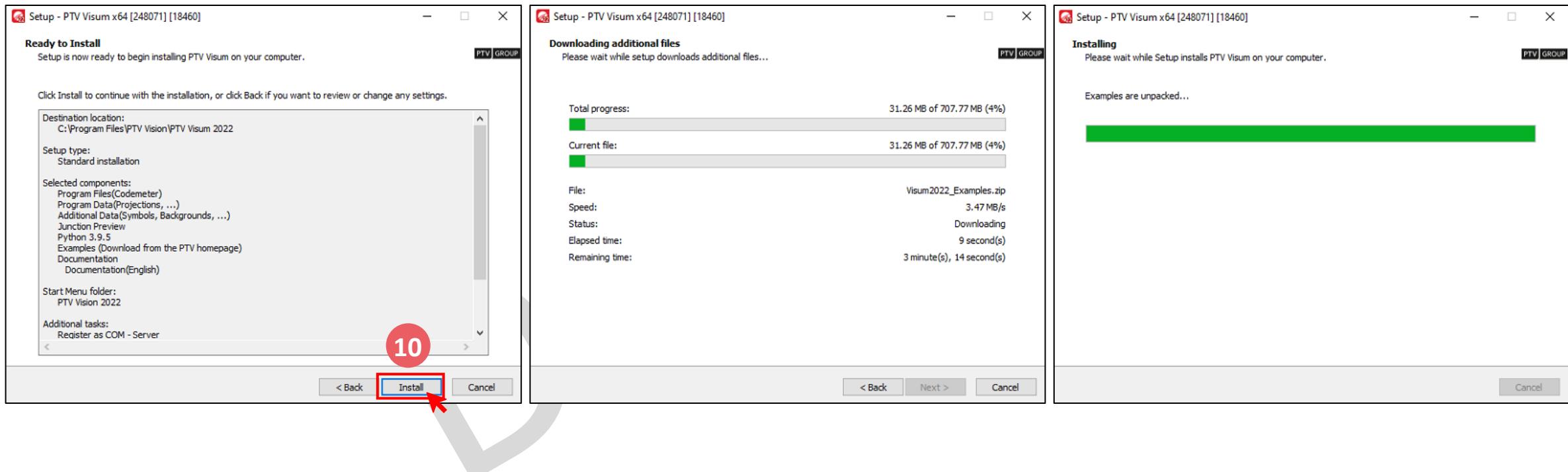
Tasks Recommended to Select:

- **Register as COM - Server:** If this option is selected, VISUM is registered for automation through scripts.
- **Associate .ver files as PTV VISUM version file:** If this option is selected, VISUM will be registered as the standard application to open the .ver files.
- **Create shortcut on the desktop:** If this option is selected, the desktop shortcuts will be created for the current user or all users of the system.
- **Install Codemeter Runtime 7.50:** If this option is selected, Codemeter Runtime 7.50 will be installed. **Do not** select this option if the mentioned version of Codemeter Runtime already exists, as a new installation could damage the existing version.
- **Create a virtual Python environment for PTV VISUM:** If this option is selected, a virtual Python environment is automatically created (see docs.python.org/3/library/venv.html). The virtual Python environment is set up in the EXE\PYTHON37MODULES subdirectory of the VISUM installation. It offers two additional features:
 - With the Python package manager "pip", additional packages can be installed within the environment, which are then available in the scripts started from PTV VISUM. The package manager makes sure that the installed packages are compatible with the ones shipped with VISUM.
 - In development environments that support virtual environments (e.g. Visual Studio Code), the virtual environment set up for PTV VISUM with the included packages can easily be used for script development.



PTV VISUM Installation Instructions

10. Verify your selection and click the "**Install**" button.



PTV VISUM Installation Instructions

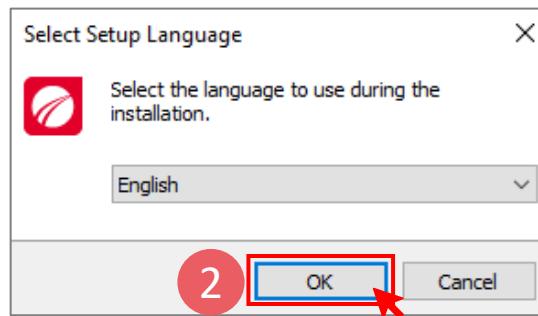
11. Once the installation is completed, click the "***Finish***" button.



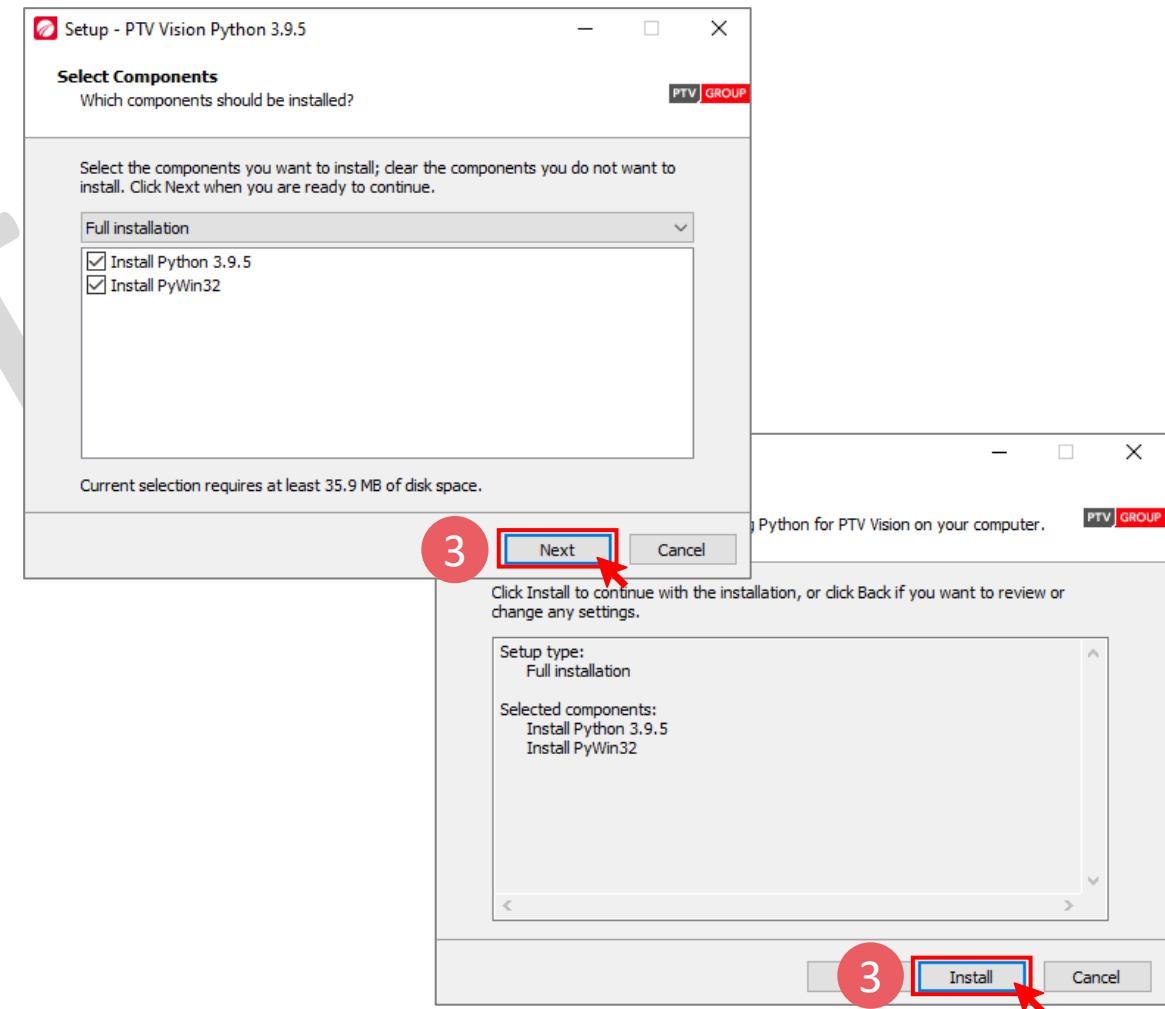
PTV Vision - Python Installation Instructions

1. Run the setup file (i.e. Setup_Vision-Python_3.9.5_x64.exe) that you have downloaded.

2. When the "**Select Setup Language**" window opens, select "**English**" and click "**OK**":

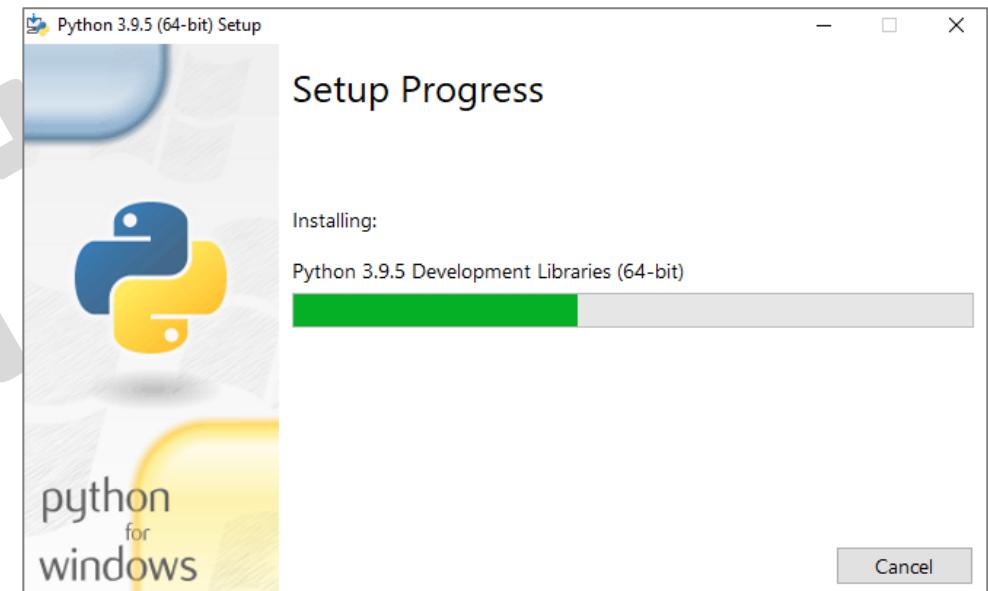
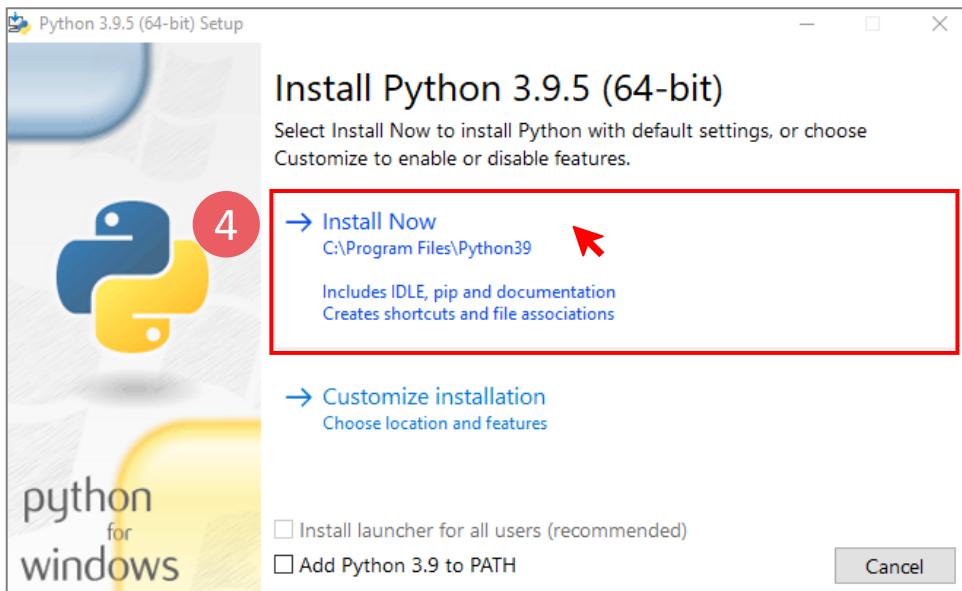


3. Select "**Full Installation**" and click "**Next**" then "**Install**".



PTV Vision - Python Installation Instructions

4. Click "**Install Now**" and click "**Next**" then "**Install**".



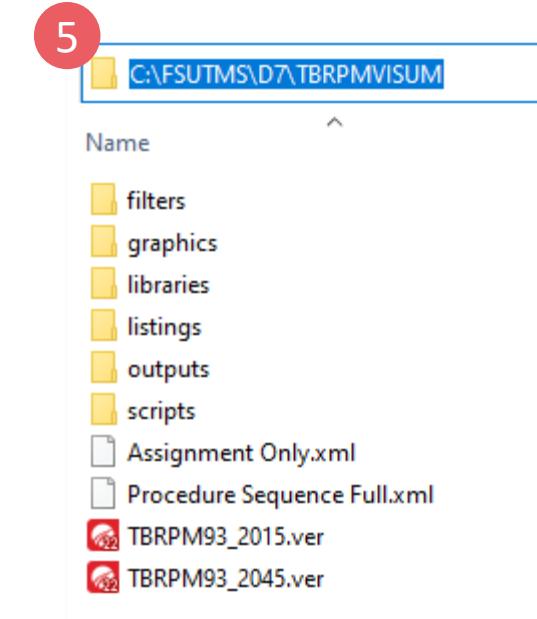
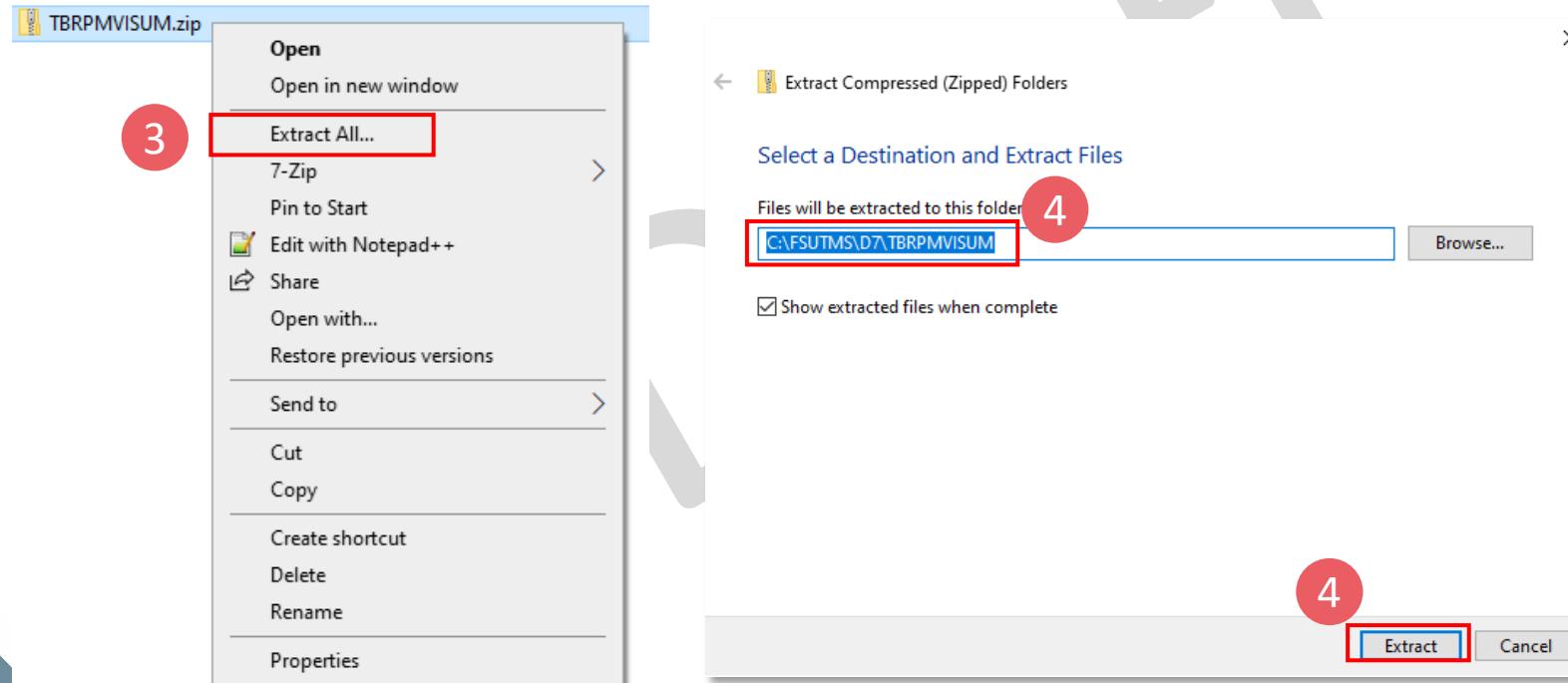
PTV Vision - Python Installation Instructions

5. Once the setup is successful, click on "**Close**" then "**Finish**".



TBRPM VISUM v9.3 Installation Instructions

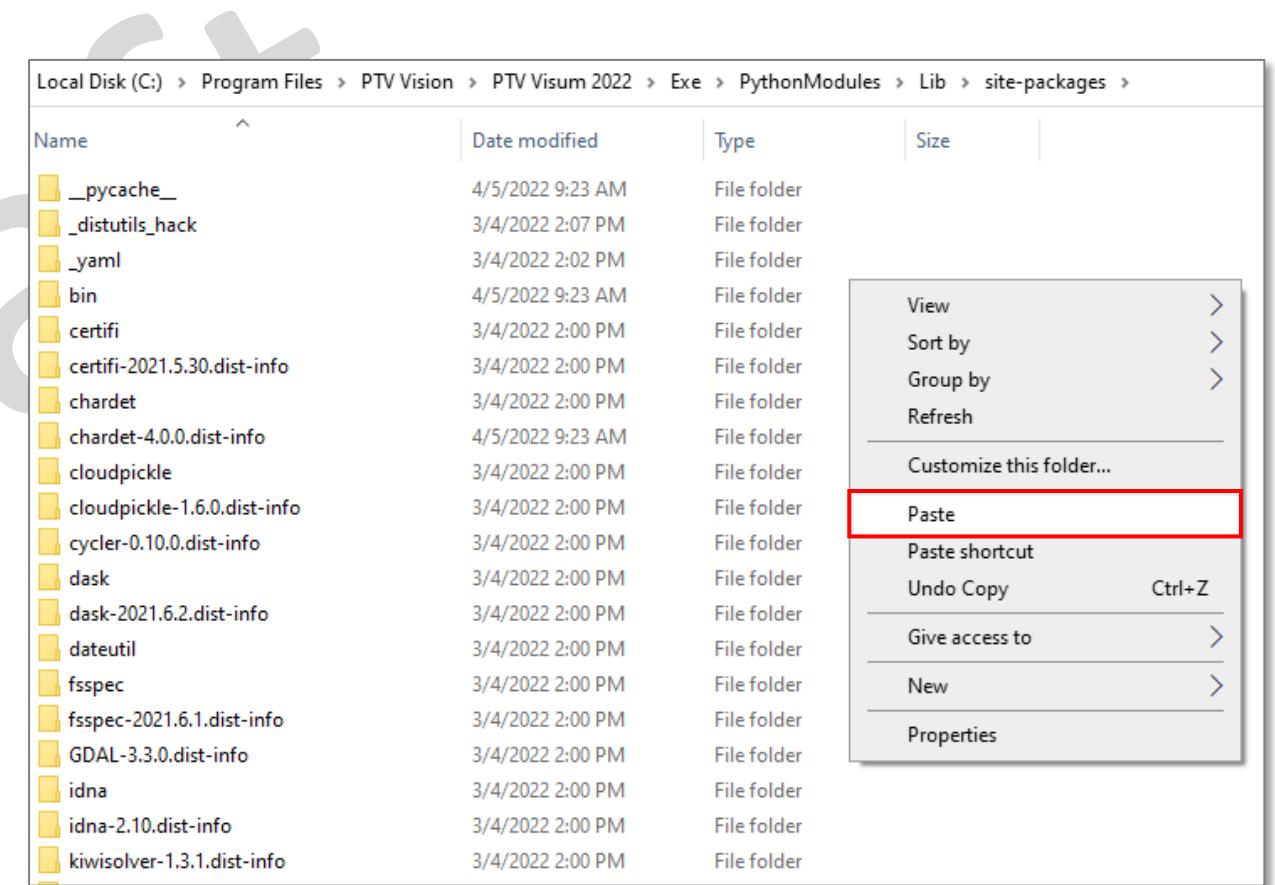
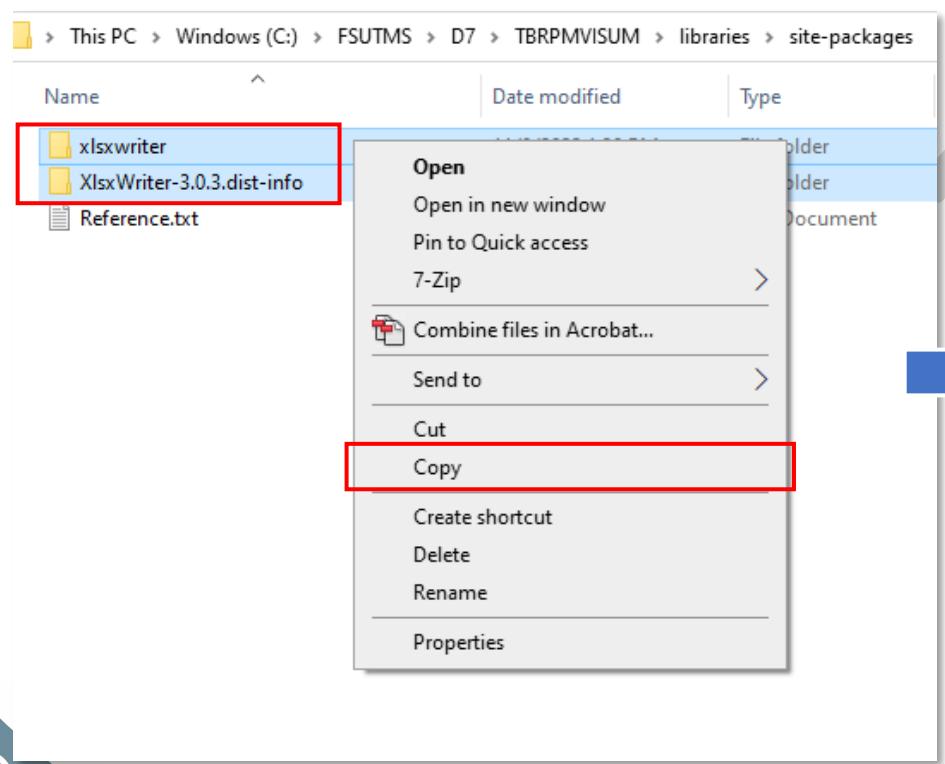
1. Download the TBRPM VISUM v9.3 from this [LINK \(TBRPMVISUM.zip\)](#) 
2. Save the **TBRPMVISUM.zip** under “**C:\FSUTMS\D7**”
3. Right click the **TBRPMVISUM.zip**, and Click the **Extract All**
4. Extract the zip file to “**C:\FSUTMS\D7\TBRPMVISUM**”
5. Then model is ready under “**C:\FSUTMS\D7\TBRPMVISUM**”



TBRPM VISUM v9.3 Installation Instruction

Copy Site Package

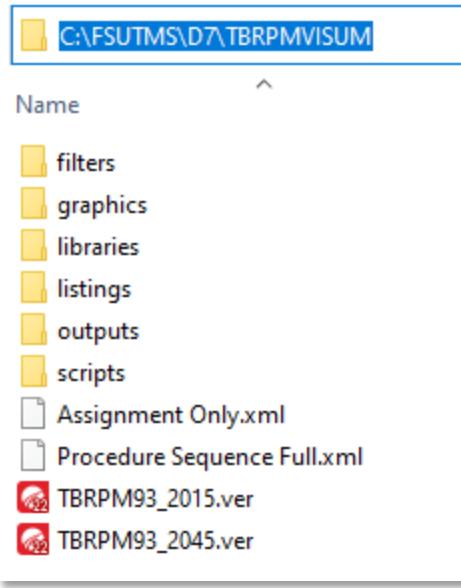
1. Go to "C:\FSUTMS\D7\TBRPMVISUM\libraries\site-packages"
2. Copy the "xlsxwriter" and "XlsxWriter-3.0.3.dist-info" folders to
C:\Program Files\PTV Vision\PTV Visum 2022\Exe\PythonModules\Lib\site-packages



2. Understanding the Model Structure

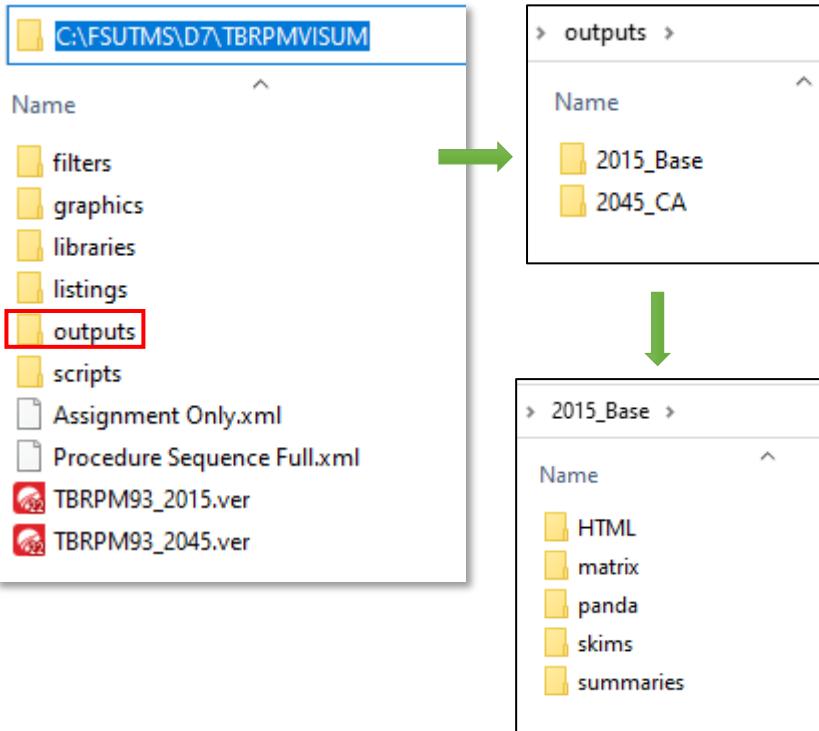
Draft

Folder Structure – Overall



- ***scripts[*.py]***
 - Python scripts adopted in model run (procedure sequence)
- ***outputs***
 - Outputs folder saves the model outputs by scenario
- ***listings [*.llax]***
 - The listing files contain pre-set layout settings to display some common data for users, such as the zonal data, link attributes, EE trips, etc.
- ***libraries***
 - site-packages: the python libraries which should be copied to the python folder during the installation process
 - HTML: HTML template which will be copied to the output folder when model runs
- ***graphics[*.gpa]***
 - The graphics files contain the graphic parameter setting information
- ***filters [*.fil]***
 - The filter files contain pre-set filter criteria to display some common data for users to review
- ***2015/2045 version file [*.ver]***
 - This is the primary VISUM model file type that contains all the network data within the model network, including intersections, roadways, zones, links, etc.

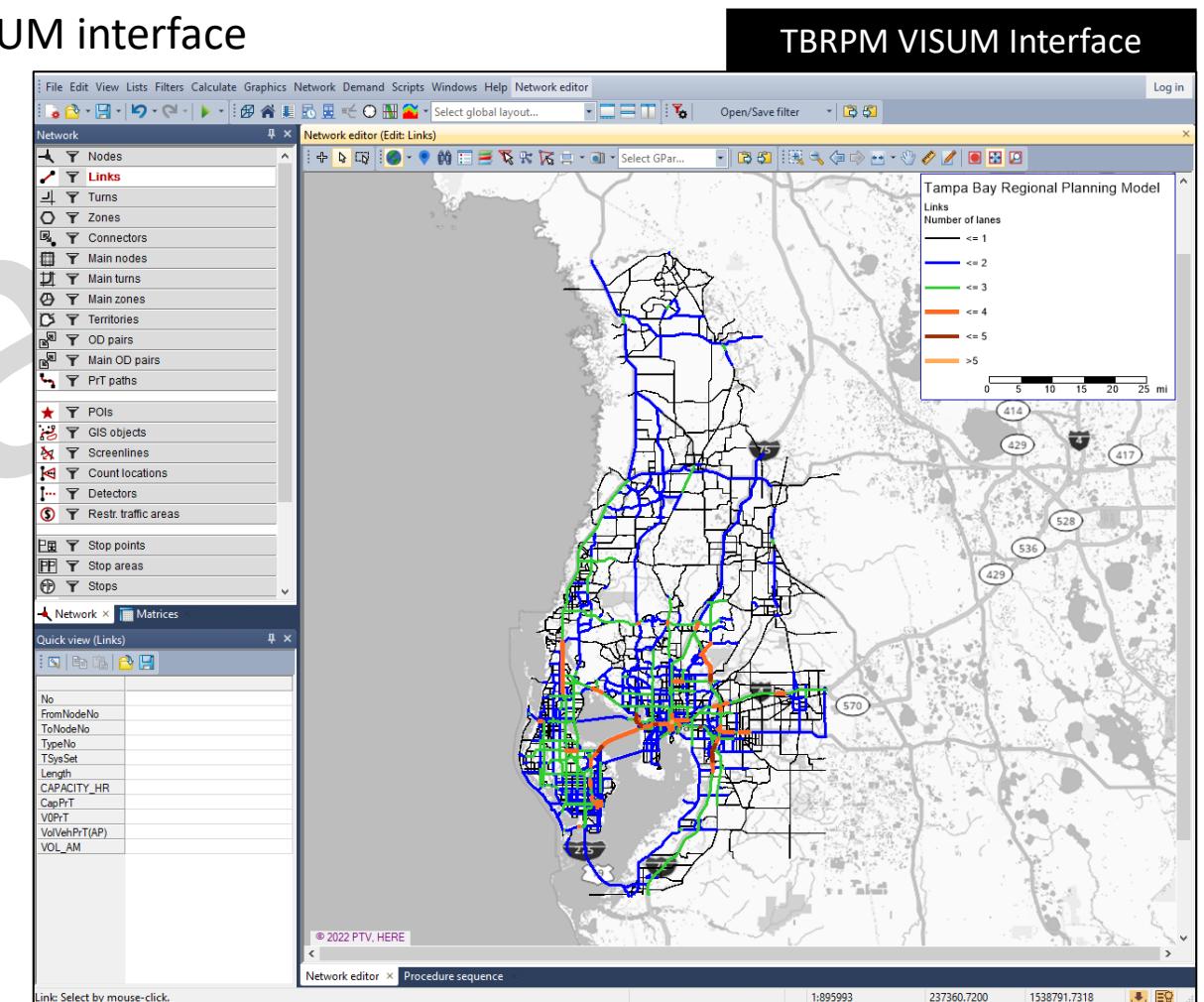
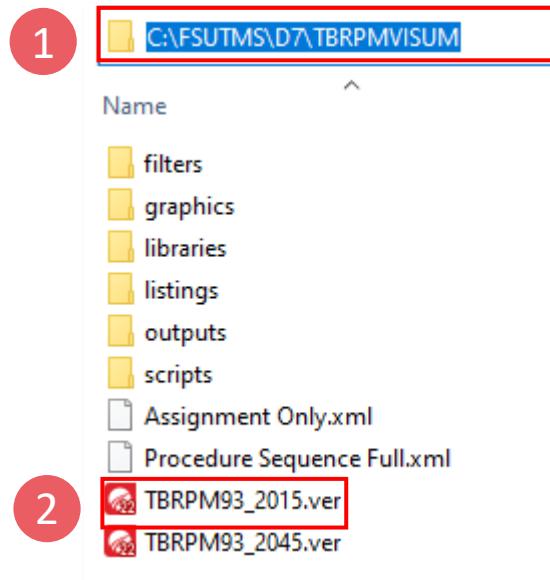
Folder Structure – Outputs Folder



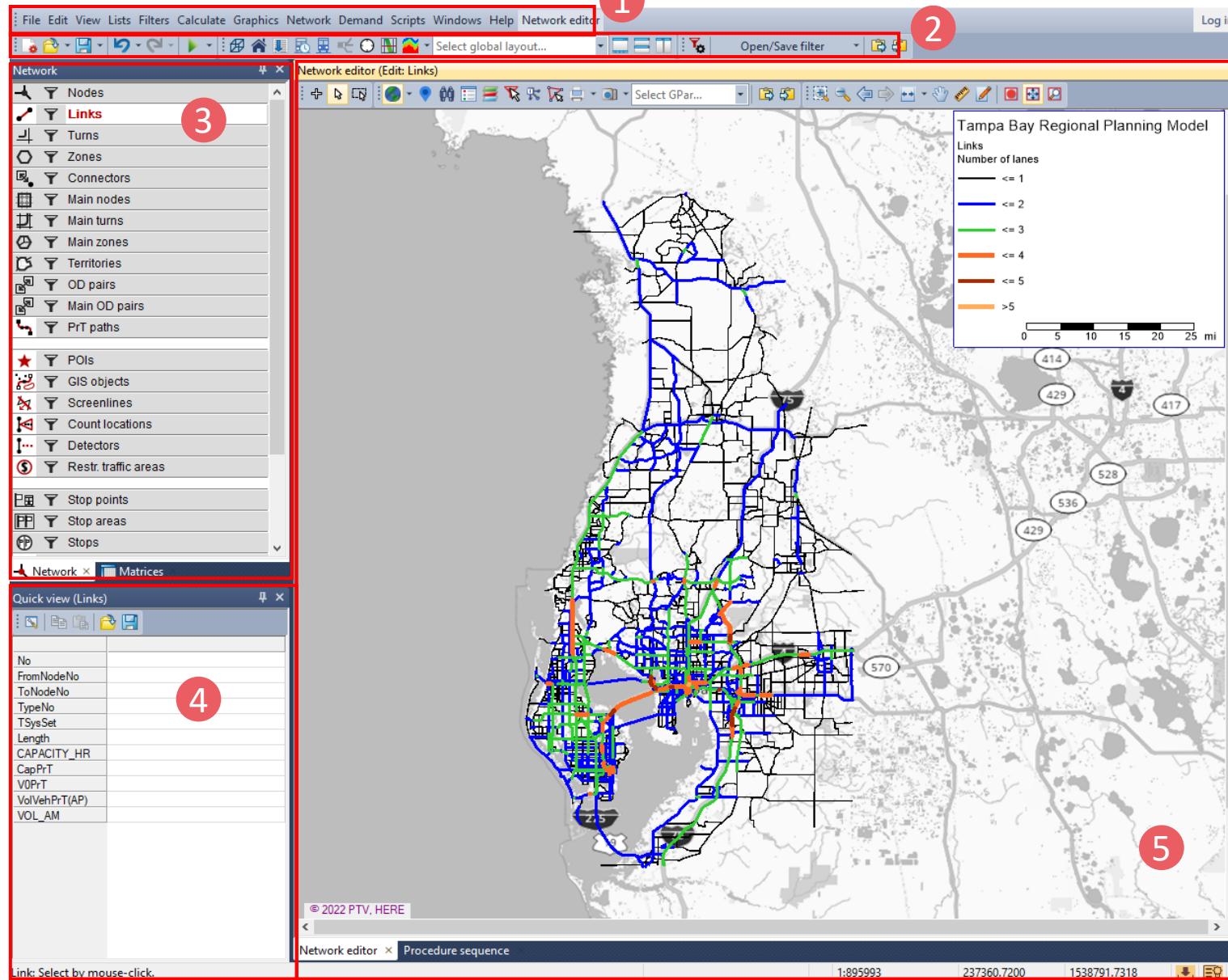
- Save the outputs by scenario
- **HTML**
 - The HTML folder contains all the HTML reports, which would be easier for users to review the model statistics.
- **matrix**
 - The matrix folder contains all the matrix files which are generated during model run.
- **panda**
 - The panda folder contains the production and attraction statistics for the trip generation step.
- **skims**
 - The skims folder contains the skim matrix files which are generated during model run
- **Summaries**
 - The summaries folder contains the excel-based statistics about trip length and summaries of other significant model statistics

Open TBRPM VISUM v9.3 Model

1. Go to the Model folder "**C:\FSUTMS\D7\TBRPMVISUM**"
2. Open the Model
 - Double-click on the **TBRPM93_2015.ver** file -or-
 - Drag the **TBRPM93_2015.ver** file onto the VISUM interface



VISUM User Interface Overview



VISUM Interface Elements

1. Menu
2. Tool Bar
3. Network Tool Window
4. Quick View Tool Window
5. Network Editor

Model Procedure Sequence

Procedure Sequence: Saved the model calculation Steps

- Click **Calculate – Procedure Sequence**

The screenshot shows the 'Procedure Sequence Editor' window with several key components:

- Top Bar:** File, Edit, View, Lists, Filters, Calculate, Graphics, Network, Demand, Scr..., Help, Procedure sequence, Log in.
- Left Sidebar:** Network (Main nodes, Main turns, Main zones, Territories, OD pairs, Main OD pairs, PrT paths), POIs (GIS objects, Screenlines, Count locations, Detectors, Restr. traffic areas), Stop points, Stop areas, Stops, System routes, Lines, Backgrounds, Texts, Polygons, Network Matrices.
- Central Area:** A large table titled 'Procedure Sequence Editor' listing steps. The table has columns: Execution, ACTIVE, Procedure, Reference object(s), Variant/file, Messages, Comment, Start time, and End time.
- Right Sidebar:** Operations (Create, Create group, Edit, Delete, Duplicate, Copy to clipboard, Paste from clipboard, Up, Down, Set all active, Set all inactive), View (Expand group, Collapse group, Collapse all groups, Expand all groups), Compute nodes (Manage compute nodes...).
- Callouts:**
 - 1:** Points to the 'Calculate' button in the top menu bar.
 - 2:** Points to the 'Procedure sequence' item in the top menu bar.

The table data (approximate values):

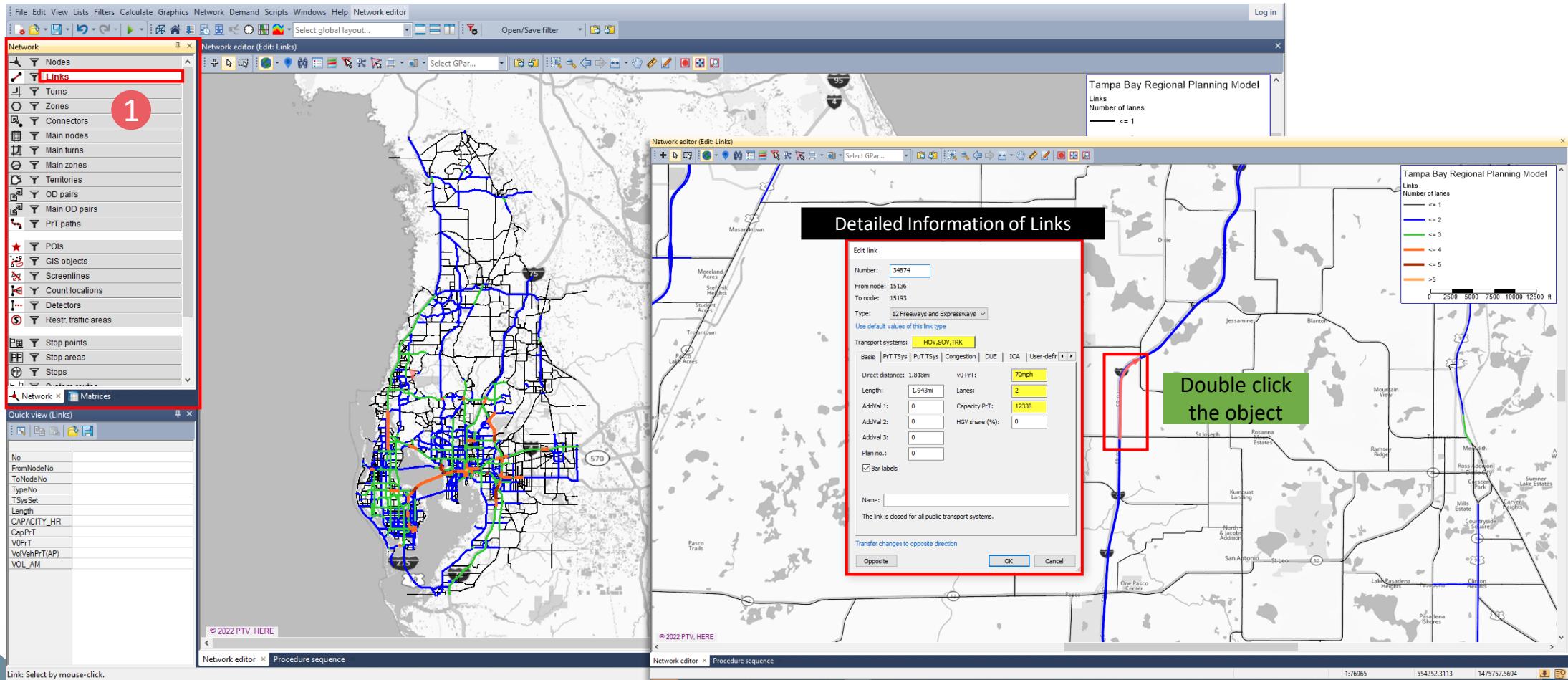
Execution	ACTIVE	Procedure	Reference object(s)	Variant/file	Messages	Comment	Start time	End time
7		Group 1-DIRECTORY HOUSEKEEPING	2 - 11			1- DIRECTORY HOUSEKEEPING	10/13/2022 10:42	
8		Run script				Set dir for gpa, la	10/13/2022 10:42	
9		Run script				Set dir for gpa, la	10/13/2022 10:42	
10		Initialize all filter settings				Clear all network filters	10/13/2022 10:42	
11		Init assignment				Clear assignments	10/13/2022 10:42	
12		Group 2-INITIAL NETWORK AND DATA PR...	13 - 26			2-INITIAL NETWORK AND DATA PREP	10/13/2022 10:42	
13		Combination of matrices and vectors	Matrix([NO] = 76):=IF(FROM[COUNTY ...			Initialize K Factors	10/13/2022 10:42	
14		Run script					10/13/2022 10:42	
15		Run script					10/13/2022 10:42	
16		Run script					10/13/2022 10:42	
17		Edit attribute	Links - AddVal_TSys(SOV)	1_update_ee_trips.py		updates terminal time link toll and cto...	10/13/2022 10:42	
18		Edit attribute	Links - AddVal_TSys(HOV)	2_update_speed_capacity.py		Connector walk access time	10/13/2022 10:42	
19		Edit attribute	Links - Tol_PrTSys(TRK)	2_update_terminal_time.py		Connector time sov	10/13/2022 10:42	
20		Edit attribute	Links - Tol_PrTSys(HOV)			Connector time hov	10/13/2022 10:42	
21		Edit attribute	Links - Tol_PrTSys(TRK)			Connector time trk	10/13/2022 10:42	
22		Edit attribute	Links - T_PutTSys(W)			Link walk access time	10/13/2022 10:42	
23		Edit attribute	Links - NumFarePoints_TSys(BRT)			Link fare weight	10/13/2022 10:42	
24		Edit attribute	Links - NumFarePoints_TSys(CIR)			Link fare weight	10/13/2022 10:42	
25		Edit attribute	Links - NumFarePoints_TSys(EXP)			Link fare weight	10/13/2022 10:42	
26		Edit attribute	Links - NumFarePoints_TSys(LB)			Link fare weight	10/13/2022 10:42	
27		Group 3-GENERATION	28 - 31			3-GENERATION	10/13/2022 10:42	
28		Run script		3_prep_mc_auown.py			10/13/2022 10:42	
29		Run script		3_trip_generation.py			10/13/2022 10:42	
30		Run script		3_trip_generation_final.py			10/13/2022 10:42	
31		Run script		3_save_zero_tables.py			10/13/2022 10:42	
32		Group 4-FREE FLOW SKIMS	33 - 53			4-FREE FLOW SKIMS	10/13/2022 10:42	
33		Init assignment		All		Clear any existing PrT flows	10/13/2022 10:42	
34		Combination of matrices and vectors	Matrix([NO] = 54):=0			Clear TRN PK Demand MX	10/13/2022 10:42	
35		Combination of matrices and vectors	Matrix([NO] = 55):=0			Clear TRN OP Demand MX	10/13/2022 10:42	
36		Edit attribute	TURNS - tOpT			Reset turn pen	10/13/2022 10:42	
37		Edit attribute	Network - ITER			Set iteration counter to zero	10/13/2022 10:42	
38		Edit attribute	Links - CapPrT			scale hourly capacity to period	10/13/2022 10:42	
39		Edit attribute	Links - CapPrT			close westbound reversible lane	10/13/2022 10:42	
40		Edit attribute	TURNS - tOpT			Set turn pen for uncong skims	10/13/2022 10:42	
41		Calculate PrT skim matrix	SOV Single occup veh			SOV Skims	10/13/2022 10:42	
42		Combination of matrices and vectors	Matrix([NO] = 6):=Matrix(75)*Matrix(9 ...			SOV TERMTIME + TOLLTIME (TTO) + SVC	10/13/2022 10:42	
			Matrix([NO] = 6):=TC/EDON[NO]>_2000			SOV IT	10/13/2022 10:42	

Current procedure: 274 - Run script

Network Editor

Click specific layer (e.g. **Links**) in the **Network Tool Window** to open the **Network Editor**

- **Scroll** up and down to **zoom in** and **zoom out** within the network
- **Double click** specific object in the network to review the detailed information

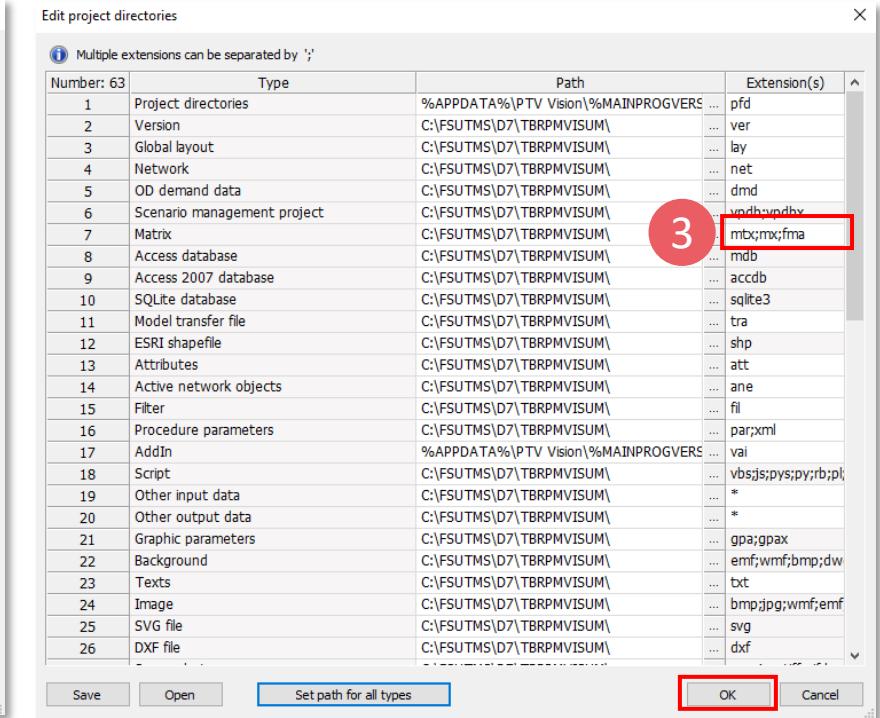
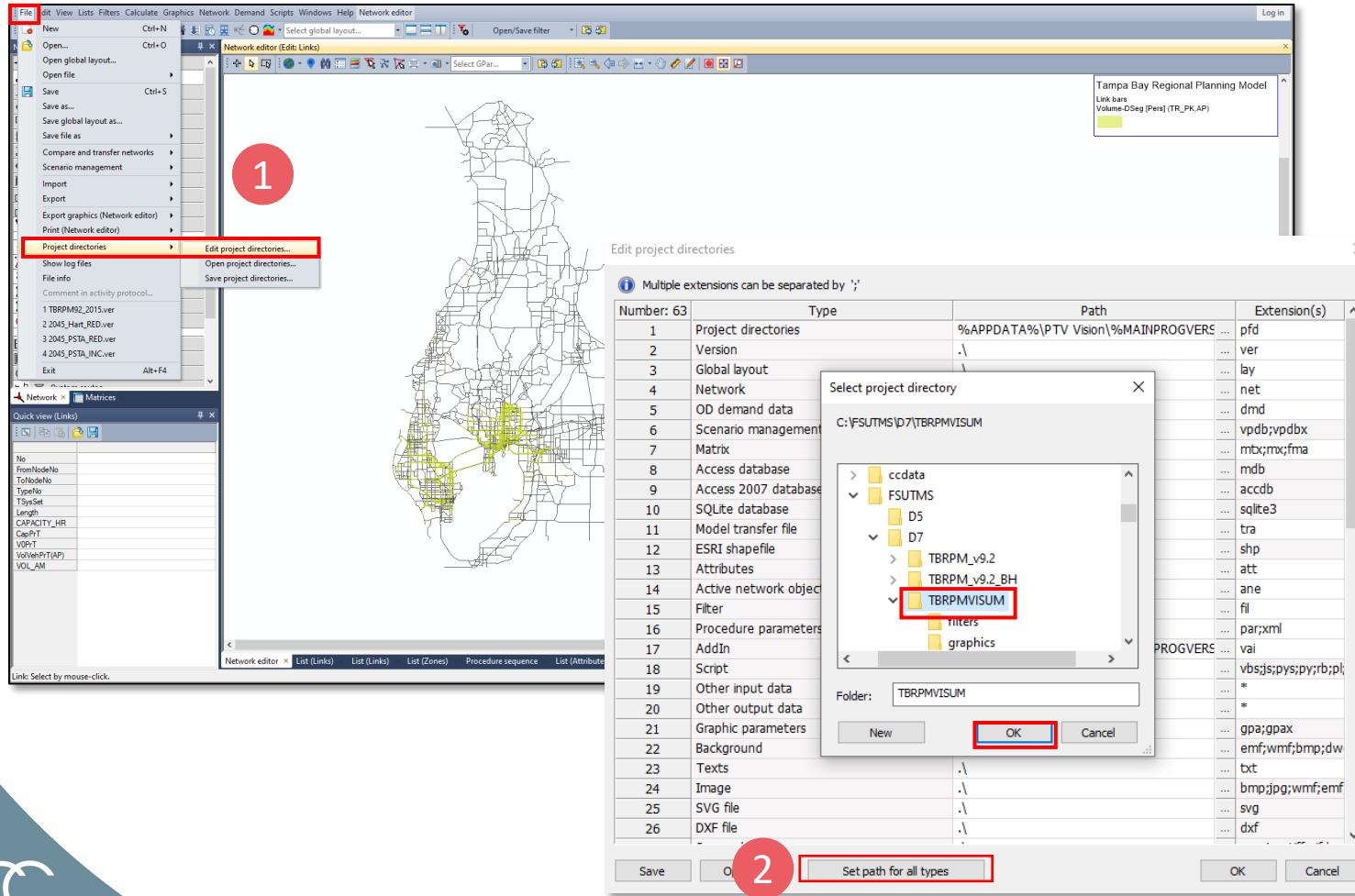


3. Run the Model

Draft

Step 1: Set Project Directory

1. Navigate to **File – Project directories – Edit project directories**
2. Clink **Set path for all types** and navigate to the current model folder location
3. Review the **matrix file extension**. It should include “;*” in Matrix Extension(s) – add “;*” if it is not included.



Step 2. Check Procedure Sequence and Run the Model

Navigate to the **Procedure sequence** and confirm that all the procedures are checked

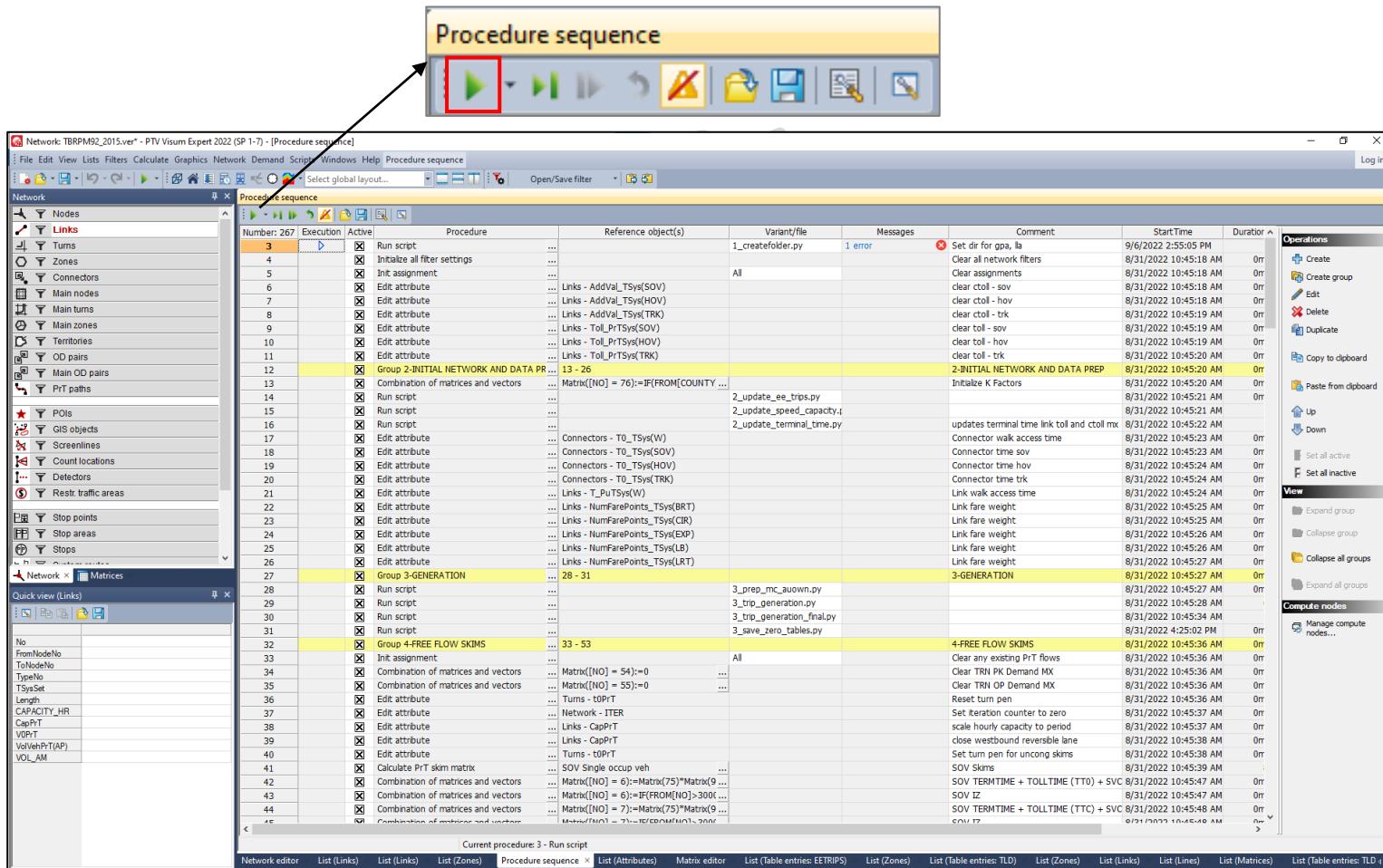
The screenshot shows the PTV Visum Expert 2022 interface. On the left, there is a map of the Tampa Bay Regional Planning Model with various network elements highlighted in yellow. Below the map are several quick view windows for Links, Zones, and Matrices, displaying tables with data like FromNodeNo, ToNodeNo, Type, TSysSet, Length, CAPACITY_HR, CapPrT, VdPrt, VolVehPrT(AP), and VOL_AM.

The main window is titled "Procedure sequence". It lists a series of numbered steps (3 to 44) with their corresponding procedures, reference objects, variants/files, messages, comments, start times, and durations. Some steps are grouped under headings like "INITIAL NETWORK AND DATA PREP", "GENERATION", and "FREE FLOW SKIMS". A red circle labeled "1" highlights the "Procedure sequence" option in the top-left menu bar.

No	Procedure	Reference object(s)	Variant/file	Messages	Comment	Start Time	Duration
3	Run script	1_createfolder.py	1 error	Set dir for gpa, la	9/6/2022 2:55:05 PM		
4	Initialize all filter settings	All		Clear all network filters	8/31/2022 10:45:18 AM	0m	
5	Edit attribute	Links - AddVal_TSys(SOV)		Clear assignments	8/31/2022 10:45:18 AM	0m	
6	Edit attribute	Links - AddVal_TSys(HOV)		clear ctrl - sov	8/31/2022 10:45:18 AM	0m	
7	Edit attribute	Links - AddVal_TSys(TRK)		clear ctrl - hov	8/31/2022 10:45:18 AM	0m	
8	Edit attribute	Links - TdP_TSys(SOV)		clear ctrl - trk	8/31/2022 10:45:19 AM	0m	
9	Edit attribute	Links - TdP_TSys(HOV)		clear toll - sov	8/31/2022 10:45:19 AM	0m	
10	Edit attribute	Links - TdP_TSys(TRK)		clear toll - hov	8/31/2022 10:45:19 AM	0m	
11	Edit attribute	OD pairs		clear toll - trk	8/31/2022 10:45:20 AM	0m	
12	Group 2-INITIAL NETWORK AND DATA PR	13 - 26		2-INITIAL NETWORK AND DATA PREP	9/31/2022 10:45:20 AM	0m	
13	Combination of matrices and vectors	Matrix([NO] = 76):=IF([FROMCOUNTY] ...		Initialize K Factors	8/31/2022 10:45:20 AM	0m	
14	Run script	2_update_ee_trips.py			8/31/2022 10:45:21 AM	0m	
15	Run script	2_update_speed_capacity.i			8/31/2022 10:45:21 AM	0m	
16	Run script	2_update_terminal_time.py			8/31/2022 10:45:22 AM	0m	
17	Edit attribute	Connectors - TO_TSys(W)		updates terminal time link toll and ctrl mx	8/31/2022 10:45:23 AM	0m	
18	Edit attribute	Connectors - TO_TSys(SOV)		Connector walk access time	8/31/2022 10:45:23 AM	0m	
19	Edit attribute	Connectors - TO_TSys(HOV)		Connector time sov	8/31/2022 10:45:23 AM	0m	
20	Edit attribute	Connectors - TO_TSys(TRK)		Connector time hov	8/31/2022 10:45:24 AM	0m	
21	Edit attribute	Links - T_PutTSys(W)		Connector time trk	8/31/2022 10:45:24 AM	0m	
22	Edit attribute	Links - NumFarePoints_TSys(BRT)		Link walk access time	8/31/2022 10:45:24 AM	0m	
23	Edit attribute	Links - NumFarePoints_TSys(CIR)		Link fare weight	8/31/2022 10:45:25 AM	0m	
24	Edit attribute	Links - NumFarePoints_TSys(EXP)		Link fare weight	8/31/2022 10:45:25 AM	0m	
25	Edit attribute	Links - NumFarePoints_TSys(LB)		Link fare weight	8/31/2022 10:45:26 AM	0m	
26	Edit attribute	Links - NumFarePoints_TSys(LRT)		Link fare weight	8/31/2022 10:45:27 AM	0m	
27	Group 3-GENERATION	28 - 31		3-GENERATION	9/31/2022 10:45:27 AM	0m	
28	Run script	3_prep_mc_auown.py			8/31/2022 10:45:27 AM	0m	
29	Run script	3_trip_generation.py			8/31/2022 10:45:28 AM	0m	
30	Run script	3_trip_generation_final.py			8/31/2022 10:45:34 AM	0m	
31	Run script	3_save_zero_tables.py			8/31/2022 4:25:02 PM	0m	
32	Group 4-FREE FLOW SKIMS	33 - 53		4-FREE FLOW SKIMS	8/31/2022 10:45:36 AM	0m	
33	Edit assignment	Matrix([NO] = 54):=0		Clear any existing PrT flows	8/31/2022 10:45:36 AM	0m	
34	Combination of matrices and vectors	Matrix([NO] = 55):=0		Clear TRN PK Demand MX	8/31/2022 10:45:36 AM	0m	
35	Combination of matrices and vectors	Matrix([NO] = 56):=0		Clear TRN OP Demand MX	8/31/2022 10:45:36 AM	0m	
36	Edit attribute	TURNS - tDPT		Reset turn pen	8/31/2022 10:45:36 AM	0m	
37	Edit attribute	Network - iTER		Set iteration counter to zero	8/31/2022 10:45:37 AM	0m	
38	Edit attribute	Links - CapPrT		scale hourly capacity to period	8/31/2022 10:45:37 AM	0m	
39	Edit attribute	Links - CapPrT		close Westbound reversible lane	8/31/2022 10:45:38 AM	0m	
40	Edit attribute	TURNS - tDPT		Set turn pen for uncong skims	8/31/2022 10:45:38 AM	0m	
41	Calculate PrT skim matrix	SOV Single occup veh		SOV Skims	8/31/2022 10:45:39 AM	0m	
42	Combination of matrices and vectors	Matrix([NO] = 6):=Matrix(75)*Matrix(9 ...		SOV TERMTIME + TOLLTIME (TT0) + SVC	8/31/2022 10:45:47 AM	0m	
43	Combination of matrices and vectors	Matrix([NO] = 6):=IF([FROMCOUNTY]>3000 ...		SOV IZ	8/31/2022 10:45:47 AM	0m	
44	Combination of matrices and vectors	Matrix([NO] = 7):=Matrix(75)*Matrix(9 ...		SOV TERMTIME + TOLLTIME (TTC) + SVC	8/31/2022 10:45:48 AM	0m	
45	Combination of matrices and vectors	Matrix([NO] = 7):=Matrix(75)*Matrix(9 ...		SOV IZ	8/31/2022 10:45:49 AM	0m	

Step 3: Run the Model

Click the “run button”  under **Procedure sequence** to run the model

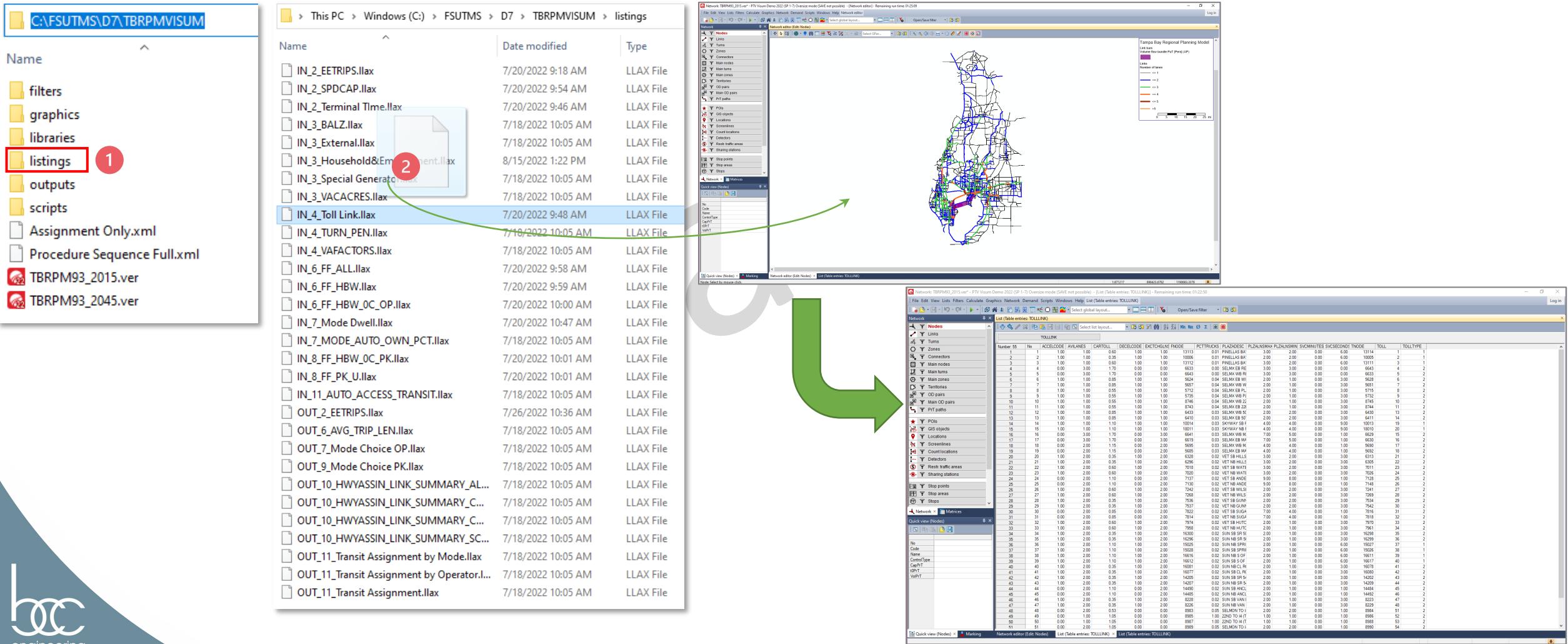


4. View Model Inputs and Outputs

- List Files (.llax)
- Graphic Files (.gpa)
- Excel Summary
- HTML Report

View Lists – User Defined List File (.llax)

1. Go to the “listings” folder
2. Select a *.llax file, drag it to the VISUM interface, then release the mouse.



View Listings File

The user-defined listing files save layouts that users may use frequently.

Examples:

➤ IN_2_EETRIPS.llax

EETRIPS					
Number:	No	DSZ	ORZ	TRIPS	TYPE
1	1	3001.00	3001.00	0.00	1.00
2	2	3001.00	3001.00	0.00	2.00
3	3	3001.00	3001.00	0.00	3.00
4	4	3002.00	3001.00	48.00	1.00
5	5	3002.00	3001.00	3.00	2.00
6	6	3002.00	3001.00	1.00	3.00
7	7	3003.00	3001.00	9.00	1.00
8	8	3003.00	3001.00	1.00	2.00
9	9	3003.00	3001.00	0.00	3.00
10	10	3004.00	3001.00	9.00	1.00

➤ OUT_2_EETRIPS.llax

No	Y	COUNTY_NAM	Code	Name	MatRowSum(2 EE1 - AUTO)	MatRowSum(3 EE2 - MTRK)	MatRowSum(4 EE3 - HTRK)
3001	EX	7			205.000	15.000	3.000
3002	EX	7			478.000	13.000	1.000
3003	EX	7			410.000	10.000	5.000
3004	EX	7			286.000	14.000	5.000
3005	EX	7			114.000	6.000	6.000
3006	EX	7			101.000	4.000	10.000
3007	EX	7			3707.000	247.000	1299.000
3008	EX	7			176.000	5.000	27.000
3009	EX	7			228.000	19.000	51.000
3010	EX	7			330.000	20.000	64.000
3011	EX	7			260.000	7.000	17.000

➤ IN_2_SPDCAP.llax

SPDCAP										
Number:	1,912	No	A_HIGH	A_LOW	CAPACITY	F_HIGH	F_LOW	L_HIGH	L_LOW	SPEED
1	1	1	11	11	1775.00	11	11	2	1	45.00
2	2	2	11	11	1783.00	11	11	3	3	45.00
3	3	3	11	11	1775.00	11	11	9	4	45.00
4	4	4	11	11	1775.00	15	15	2	1	40.00
5	5	5	11	11	1783.00	15	15	3	3	40.00
6	6	6	11	11	1775.00	15	15	9	4	40.00
7	7	7	11	11	1775.00	16	16	2	1	45.00
8	8	8	11	11	1783.00	16	16	3	3	45.00
9	9	9	11	11	1775.00	16	16	9	4	45.00
10	10	10	11	11	1775.00	17	17	2	1	45.00
11	11	11	11	11	1783.00	17	17	3	3	45.00
12	12	12	11	11	1775.00	17	17	9	4	45.00

➤ IN_2_Terminal Time.llax

Terminal Time			
Number:	No	Name	TTime
1	1	CBD	5.00
2	2	CBD Fringe	4.00
3	3	Other Urban	2.00
4	4	OBD	2.00
5	5	Rural	1.00

➤ IN_4_Toll Link.llax

TOLLLINK																	
Number:	55	No	ACCELCO	AVILANE	CARTOLL	DECELCO	EXCTCHG	FNODE	PCTTRU	PLAZADE	PLZALNS	PLZALN	SVCMINI	SVCSEC	TNODE	TOLL	TOLLYP
1	1	1	1.00	1.00	0.60	1.00	1.00	13113	0.01	PINELLAS	3.00	2.00	0.00	6.00	13114	1	1
2	2	1	1.00	1.00	0.35	1.00	1.00	10006	0.01	PINELLAS	2.00	2.00	0.00	6.00	10005	2	1
3	3	1	1.00	1.00	0.60	1.00	1.00	13112	0.01	PINELLAS	3.00	2.00	0.00	6.00	13111	3	1
4	4	0	3.00	1.70	0.00	0.00	0.00	6633	0.00	SELMX EB	3.00	3.00	0.00	0.00	6643	4	2
5	5	0	3.00	1.70	0.00	0.00	0.00	6643	0.00	SELMX WI	3.00	3.00	0.00	0.00	6633	5	2
6	6	1	1.00	0.85	1.00	1.00	1.00	5624	0.04	SELMX EB	2.00	1.00	0.00	3.00	5628	6	2
7	7	1	1.00	0.85	1.00	1.00	1.00	5657	0.04	SELMX WI	2.00	1.00	0.00	3.00	5651	7	2
8	8	1	1.00	0.55	1.00	1.00	1.00	5712	0.04	SELMX EB	2.00	1.00	0.00	3.00	5715	8	2
9	9	1	1.00	0.55	1.00	1.00	1.00	5735	0.04	SELMX WI	2.00	1.00	0.00	3.00	5732	9	2
10	10	1	1.00	0.55	1.00	1.00	1.00	8746	0.04	SELMX WI	2.00	1.00	0.00	3.00	8745	10	2
11	11	1	1.00	0.55	1.00	1.00	1.00	8743	0.04	SELMX EB	2.00	1.00	0.00	3.00	8744	11	2
12	12	1	1.00	0.85	1.00	1.00	1.00	6433	0.03	SELMX WI	2.00	2.00	0.00	3.00	6430	13	2
13	13	1	1.00	0.85	1.00	1.00	1.00	6410	0.03	SELMX EB	2.00	2.00	0.00	3.00	6411	14	2
14	14	1	1.00	1.10	1.00	1.00	1.00	10014	0.03	SKYWAY!	4.00	4.00	0.00	9.00	10013	19	1
15	15	1	1.00	1.10	1.00	1.00	1.00	18011	0.03	SKYWAY!	4.00	4.00	0.00	9.00	18010	20	1
16	16	0	3.00	1.70	0.00	3.00	6641	0.03	SELMX WI	7.00	5.00	0.00	1.00	6629	15	2	
17	17	0	3.00	1.70	0.00	3.00	6619	0.03	SELMX EB	7.00	5.00	0.00	1.00	6630	16	2	
18	18	0	2.00	1.15	0.00	2.00	5695	0.03	SELMX WI	4.00	4.00	0.00	1.00	5690	17	2	
19	19	0	2.00	1.15	0.00	2.00	5685	0.03	SELMX EB	4.00	4.00	0.00	1.00	5692	18	2	
20	20	1	2.00	0.35	1.00	2.00	6328	0.02	VET SB HI	3.00	2.00	0.00	3.00	6313	21	2	

➤ IN_7_Mode Dwell.llax

Mode_Dwell					
Number:	70	No	MODE	OP_DWELL	PK_DWELL
1	1	1	1	0.00	0.00
2	2	2	2	0.00	0.00
3	3	3	3	0.00	0.00
4	4	4	4	0.00	0.00
5	5	5	5	0.00	0.00
6	6	6	6	0.00	0.00
7	7	7	7	0.00	0.00
8	8	8	8	0.00	0.00
9	9	9	9	0.00	0.00
10	10	10	10	0.49	0.46

View Listings File (Cont.)

The user-defined listing files save layouts that users may use frequently.

Examples:

➤ IN_6_FF_ALL.llax

FF_ALL																
Number: 200	No	AIRP	COL	EI	HBO	HBSC	HBSH	HBSR	HBW	HTK	LTK	MINUTES	NHBO	NHBW	TAXI	
1	1	1.00	0.00	0.00	6137240.00	4709267.00	7097264.00	6815499.00	685335.00	654216.00	0.00	1.00	0.00	0.00	1.00	
2	2	1.00	2445793.00	0.00	3878887.00	3086716.00	4458278.00	4256655.00	579589.00	525818.00	0.00	2.00	0.00	0.00	1.00	
3	3	1.00	1533106.00	0.00	2480551.00	2044856.00	2834305.00	2695542.00	491262.00	425821.00	20460.00	3.00	20460.00	20460.00	5046.00	
4	4	1.00	982543.00	0.00	1604839.00	1368967.00	1823319.00	1730401.00	417324.00	347406.00	17380.00	4.00	17380.00	17380.00	4138.00	
5	5	1.00	429984.00	0.00	1050248.00	926040.00	1186722.00	1125863.00	355294.00	285503.00	15960.00	5.00	15960.00	15960.00	3396.00	
6	6	1.00	429984.00	2789.00	695128.00	632872.00	761339.00	742297.00	303143.00	236312.00	14890.00	6.00	14890.00	14890.00	2789.00	
7	7	1.00	293159.00	2293.00	465249.00	436911.00	520316.00	495837.00	259205.00	196973.00	13930.00	7.00	13930.00	13930.00	2393.00	
8	8	1.00	203724.00	1886.00	314838.00	304652.00	350401.00	335494.00	222109.00	165316.00	11960.00	8.00	11960.00	11960.00	2186.00	
9	9	1.00	144190.00	1553.00	215381.00	214531.00	238599.00	229895.00	190723.00	139686.00	10430.00	9.00	10430.00	10430.00	1853.00	
10	10	1.00	103859.00	1279.00	148929.00	152544.00	164252.00	159511.00	164114.00	118813.00	9990.00	10.00	9990.00	9990.00	1779.00	
11	11	1.00	76075.00	1055.00	104071.00	109511.00	114294.00	112042.00	141509.00	101715.00	8050.00	11.00	8050.00	8050.00	1655.00	
12	12	1.00	56622.00	871.00	73489.00	79364.00	80379.00	79656.00	122267.00	87632.00	7400.00	12.00	7400.00	7400.00	1471.00	
13	13	1.00	42790.00	719.00	52428.00	58054.00	57121.00	57308.00	105854.00	75970.00	7100.00	13.00	7100.00	7100.00	1319.00	
14	14	1.00	32808.00	594.00	37783.00	42858.00	41013.00	41715.00	91827.00	66261.00	5550.00	14.00	5550.00	5550.00	1204.00	
15	15	1.00	25501.00	492.00	27501.00	31927.00	29748.00	30716.00	79816.00	58137.00	4920.00	15.00	4920.00	4920.00	1092.00	

➤ IN_8_FF_PK_U.llax

FF_PK_U																
Number: 200	No	AIRP	COL	EI	HBO	HBSC	HBSH	HBSR	HBW	HTK	LTK	MINUTES	NHBO	NHBW	TAXI	
1	1	1.00	0.00	0.00	5345813.00	5001136.00	9999999.00	5080256.00	685335.00	654216.00	0.00	1.00	0.00	0.00	0.00	1.00
2	2	1.00	2445793.00	0.00	3923307.00	3517145.00	7025665.00	3543382.00	579589.00	525818.00	0.00	2.00	0.00	0.00	0.00	1.00
3	3	1.00	1533106.00	0.00	2899005.00	2494025.00	4595042.00	429287.00	491262.00	425821.00	20460.00	3.00	20460.00	20460.00	5046.00	
4	4	1.00	982543.00	0.00	2156594.00	1783018.00	3038574.00	1767586.00	417324.00	347406.00	17380.00	4.00	17380.00	17380.00	4138.00	
5	5	1.00	643314.00	0.00	1615016.00	1285029.00	2031259.00	1263928.00	355294.00	285503.00	15960.00	5.00	15960.00	15960.00	3396.00	
6	6	1.00	429984.00	2789.00	1217415.00	933531.00	1372497.00	911126.00	303143.00	236312.00	14890.00	6.00	14890.00	14890.00	2789.00	
7	7	1.00	293159.00	2293.00	923677.00	683534.00	937230.00	662072.00	259205.00	196973.00	13930.00	7.00	13930.00	13930.00	2393.00	
8	8	1.00	203724.00	1886.00	705319.00	504386.00	646704.00	484907.00	222109.00	165316.00	11960.00	8.00	11960.00	11960.00	2186.00	
9	9	1.00	144190.00	1553.00	542002.00	375056.00	450845.00	357926.00	190723.00	139686.00	10430.00	9.00	10430.00	10430.00	1853.00	
10	10	1.00	103859.00	1279.00	419114.00	281005.00	317502.00	266235.00	164114.00	118813.00	9990.00	10.00	9990.00	9990.00	1779.00	
11	11	1.00	76075.00	1055.00	326094.00	212117.00	225840.00	199541.00	141509.00	101715.00	8050.00	11.00	8050.00	8050.00	1655.00	
12	12	1.00	56622.00	871.00	255270.00	161301.00	162229.00	150677.00	122267.00	87632.00	7400.00	12.00	7400.00	7400.00	1471.00	
13	13	1.00	42790.00	719.00	201033.00	123553.00	117669.00	114622.00	105854.00	75970.00	7100.00	13.00	7100.00	7100.00	1319.00	
14	14	1.00	32808.00	594.00	159262.00	95320.00	86167.00	87831.00	91827.00	66261.00	5550.00	14.00	5550.00	5550.00	1204.00	
15	15	1.00	25501.00	492.00	126910.00	74060.00	63695.00	67787.00	79816.00	58137.00	4920.00	15.00	4920.00	4920.00	1092.00	

➤ IN_6_FF_HBW.llax

FF_HBW			
Number: 200	No	HBW	MINUTES
1	1	1007773.00	1.00
2	2	843071.00	2.00
3	3	707375.00	3.00
4	4	595257.00	4.00
5	5	502357.00	5.00
6	6	425166.00	6.00
7	7	360851.00	7.00
8	8	307119.00	8.00
9	9	262106.00	9.00
10	10	224298.00	10.00
11	11	192458.00	11.00
12	12	165575.00	12.00
13	13	142818.00	13.00
14	14	123507.00	14.00
15	15	107078.00	15.00

➤ IN_6_FF_HBW_OC_OP.llax

FF_HBW_OC_OP			
Number: 200	No	HBW_OC	MINUTES
1	1	797527.00	1.00
2	2	624749.00	2.00
3	3	492195.00	3.00
4	4	389950.00	4.00
5	5	310663.00	5.00
6	6	248858.00	6.00
7	7	200429.00	7.00
8	8	162289.00	8.00
9	9	132100.00	9.00
10	10	108088.00	10.00
11	11	88894.00	11.00
12	12	73480.00	12.00
13	13	61042.00	13.00
14	14	50959.00	14.00
15	15	42748.00	15.00

➤ IN_8_FF_HBW_OC_PK.llax

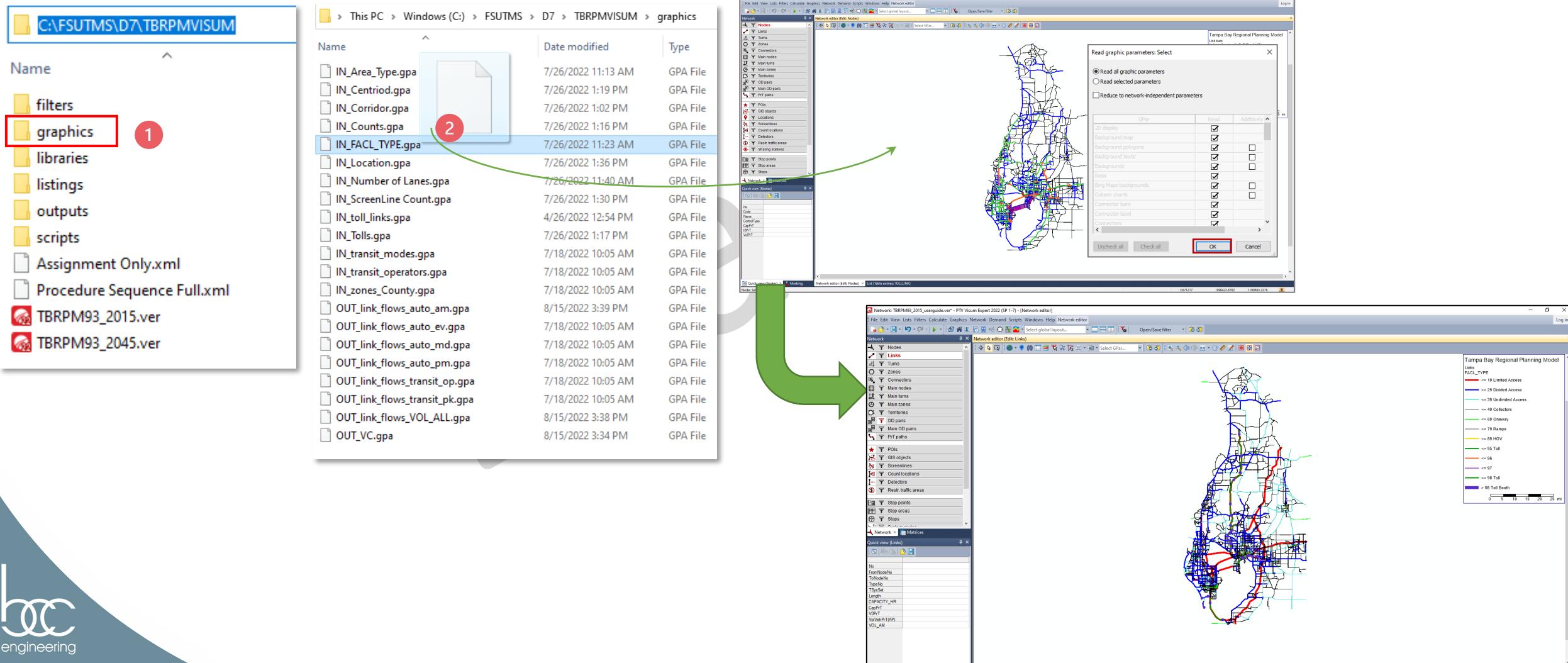
FF_HBW_OC_PK			
Number: 200	No	HBW_OC	MINUTES
1	1	686165.00	1.00
2	2	558435.00	2.00
3	3	456443.00	3.00
4	4	374671.00	4.00
5	5	308845.00	5.00
6	6	255645.00	6.00
7	7	212480.00	7.00
8	8	177322.00	8.00
9	9	148576.00	9.00
10	10	124984.00	10.00
11	11	105550.00	11.00
12	12	89483.00	12.00
13	13	76151.00	13.00
14	14	65050.00	14.00
15	15	55774.00	15.00

4. View Model Inputs and Outputs

- List Files (.llax)
- Graphic Files (.gpa)
- Excel Summary
- HTML Report

View Graphics File

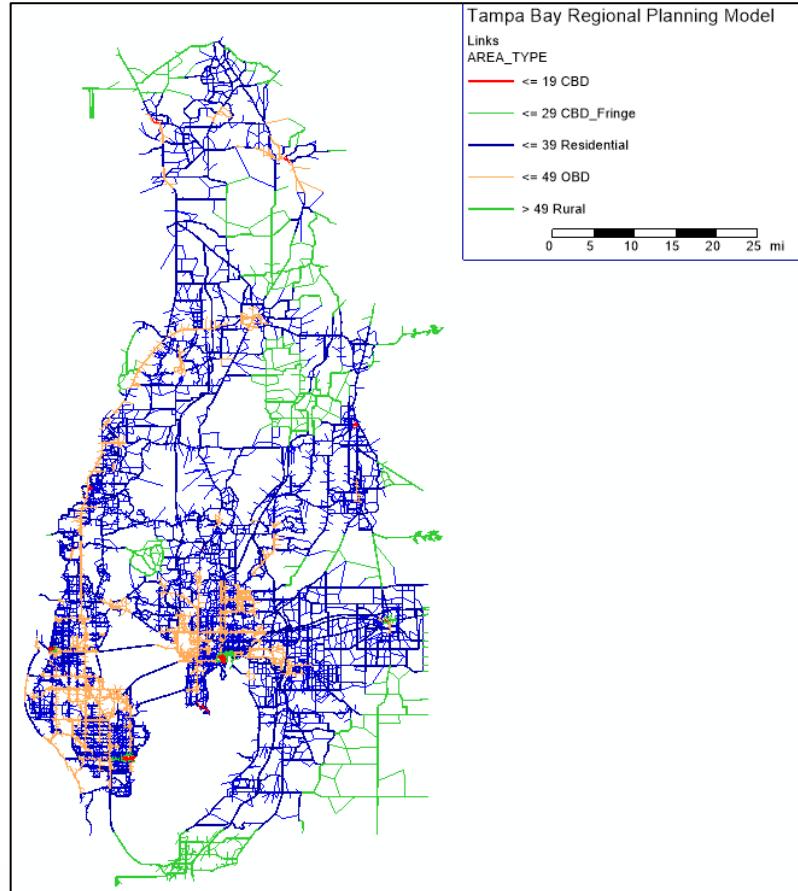
1. Go to the “*graphics*” folder
2. Select a *.gpa file, drag it to the VISUM interface, then release the mouse.



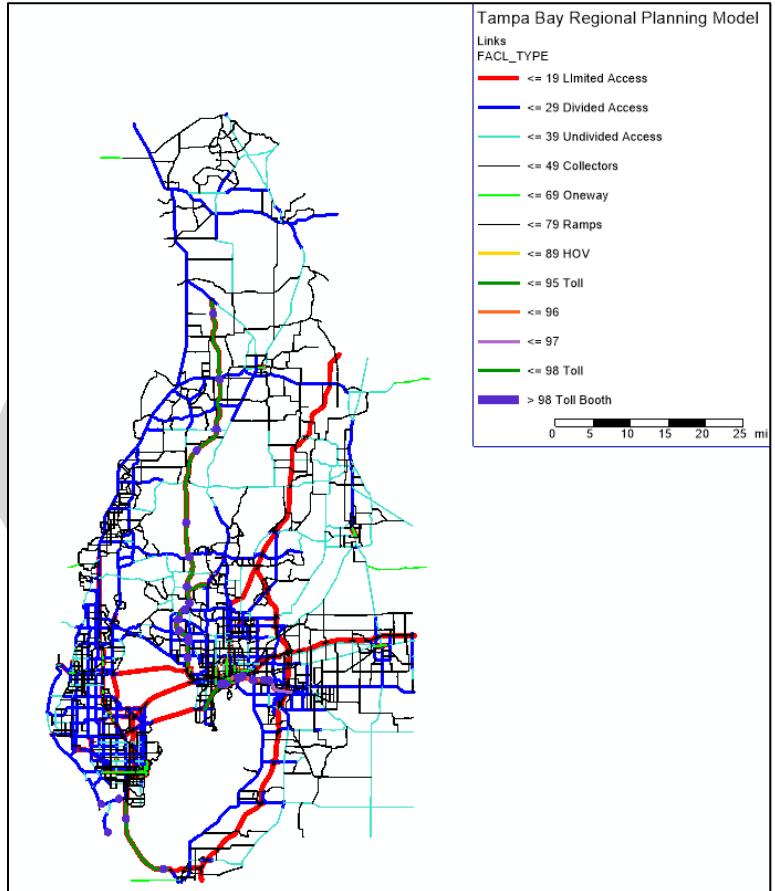
View Graphics File (Cont.)

Examples:

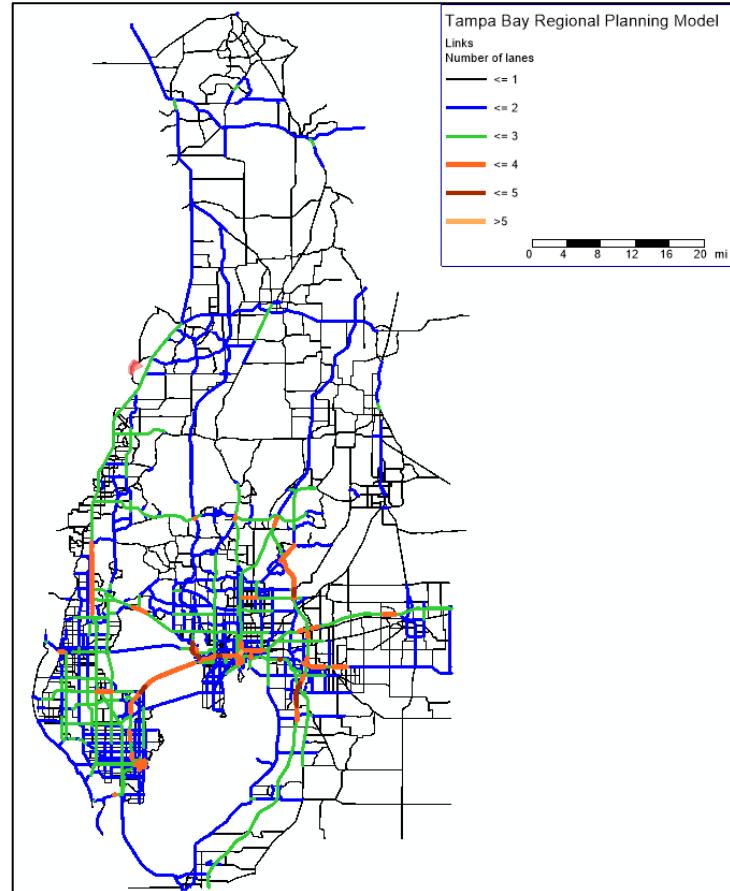
➤ IN_Area_Type.gpa



➤ IN_FACL_TYPE.gpa



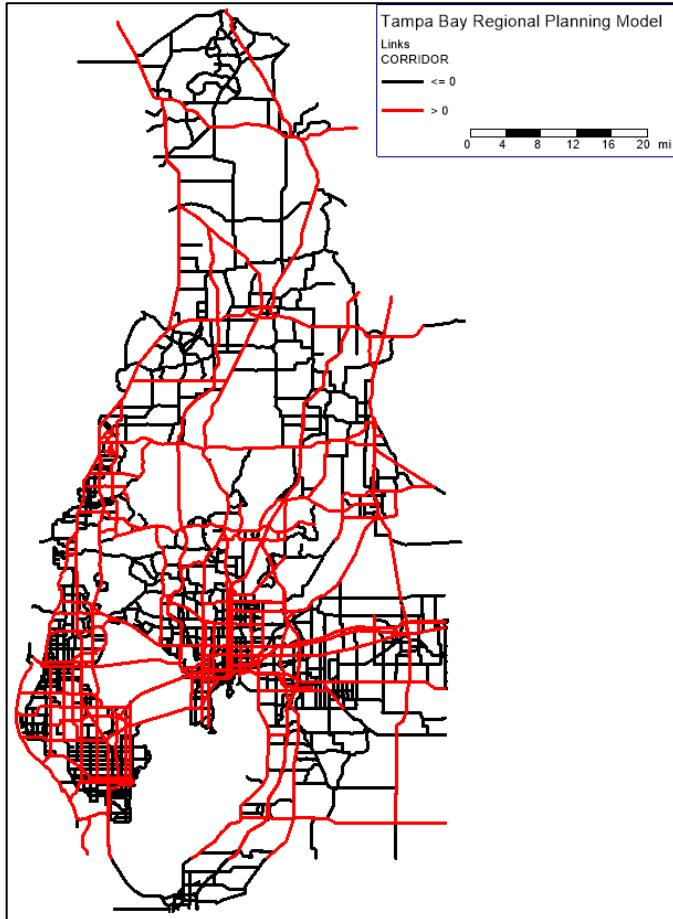
➤ IN_Number of Lanes.gpa



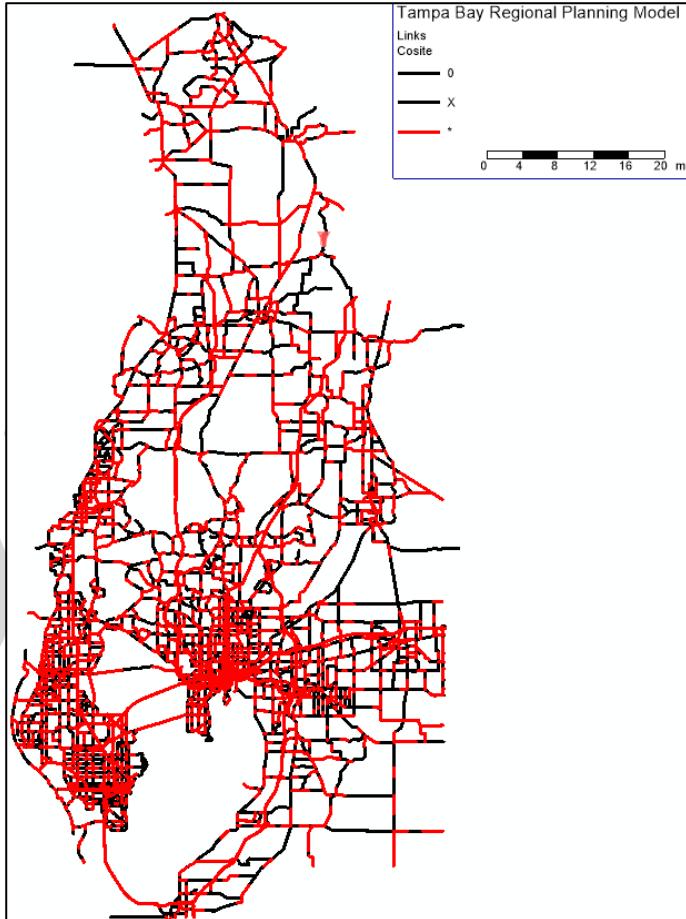
View Graphics File (Cont.)

Examples:

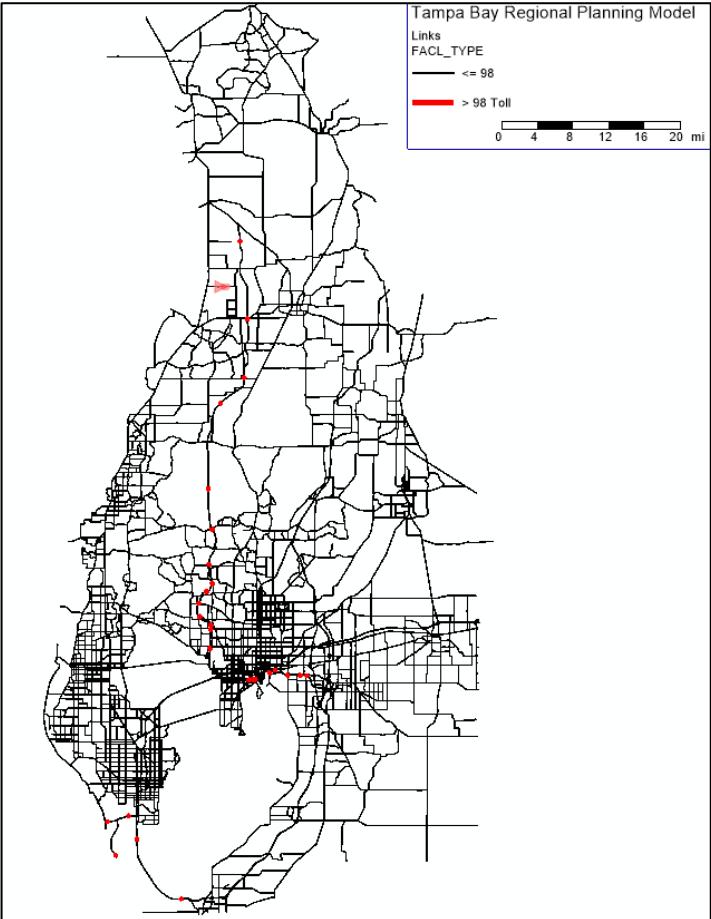
➤ IN_Corridor.gpa



➤ IN_Counts.gpa



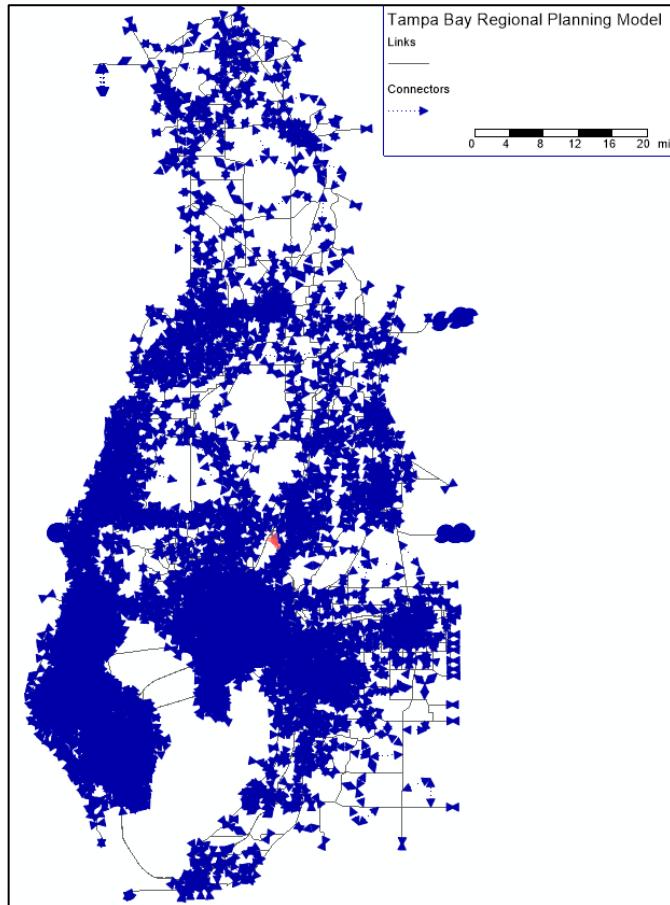
➤ IN_Tolls.gpa



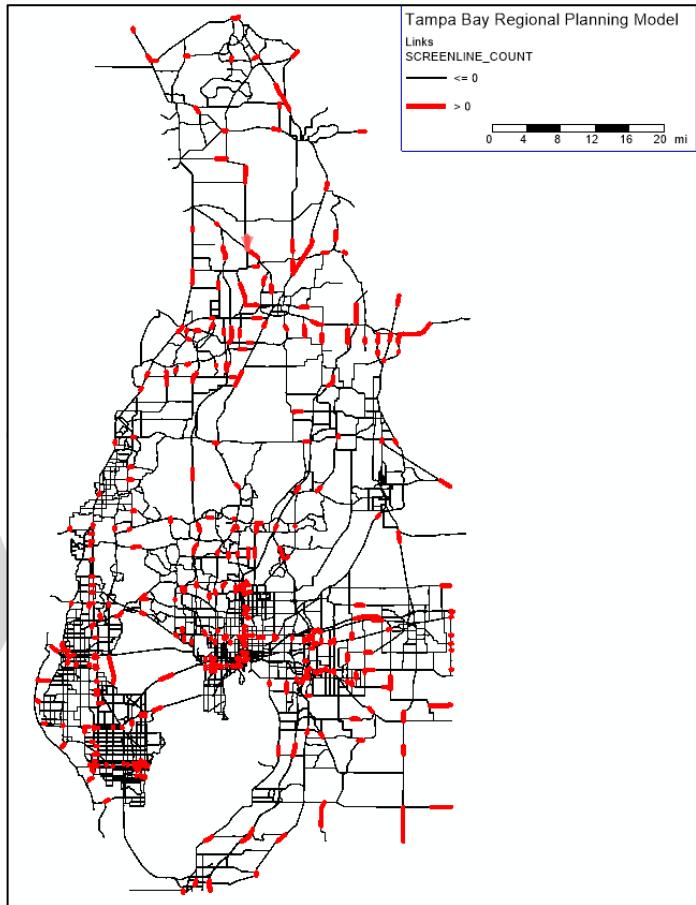
View Graphics File (Cont.)

Examples:

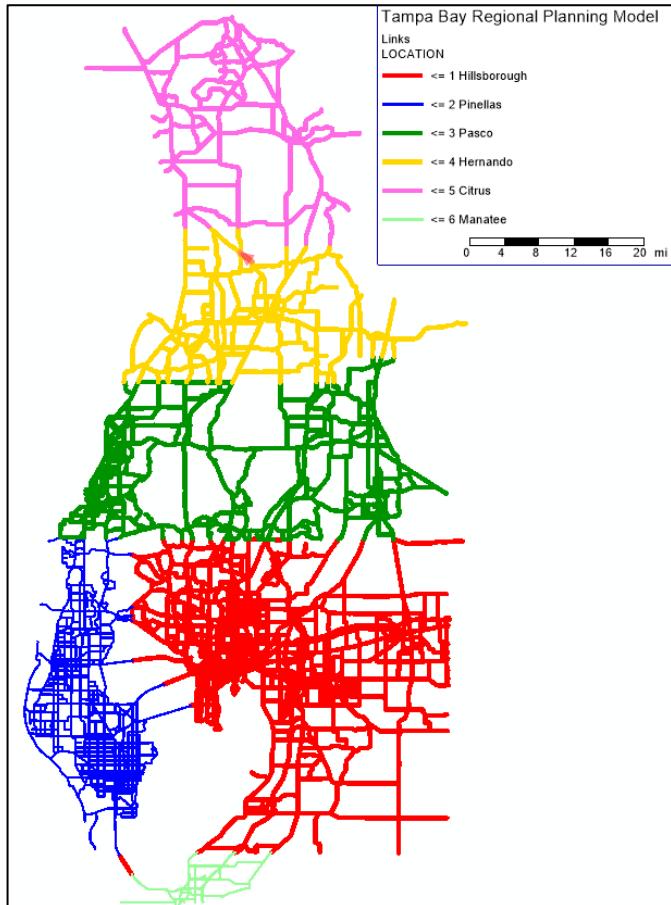
➤ IN_Centroid.gpa



➤ IN_ScreenLine Count.gpa



➤ IN_Location.gpa



4. View Model Inputs and Outputs

- List Files (.llax)
- Graphic Files (.gpa)
- **Excel Summary**
- HTML Report

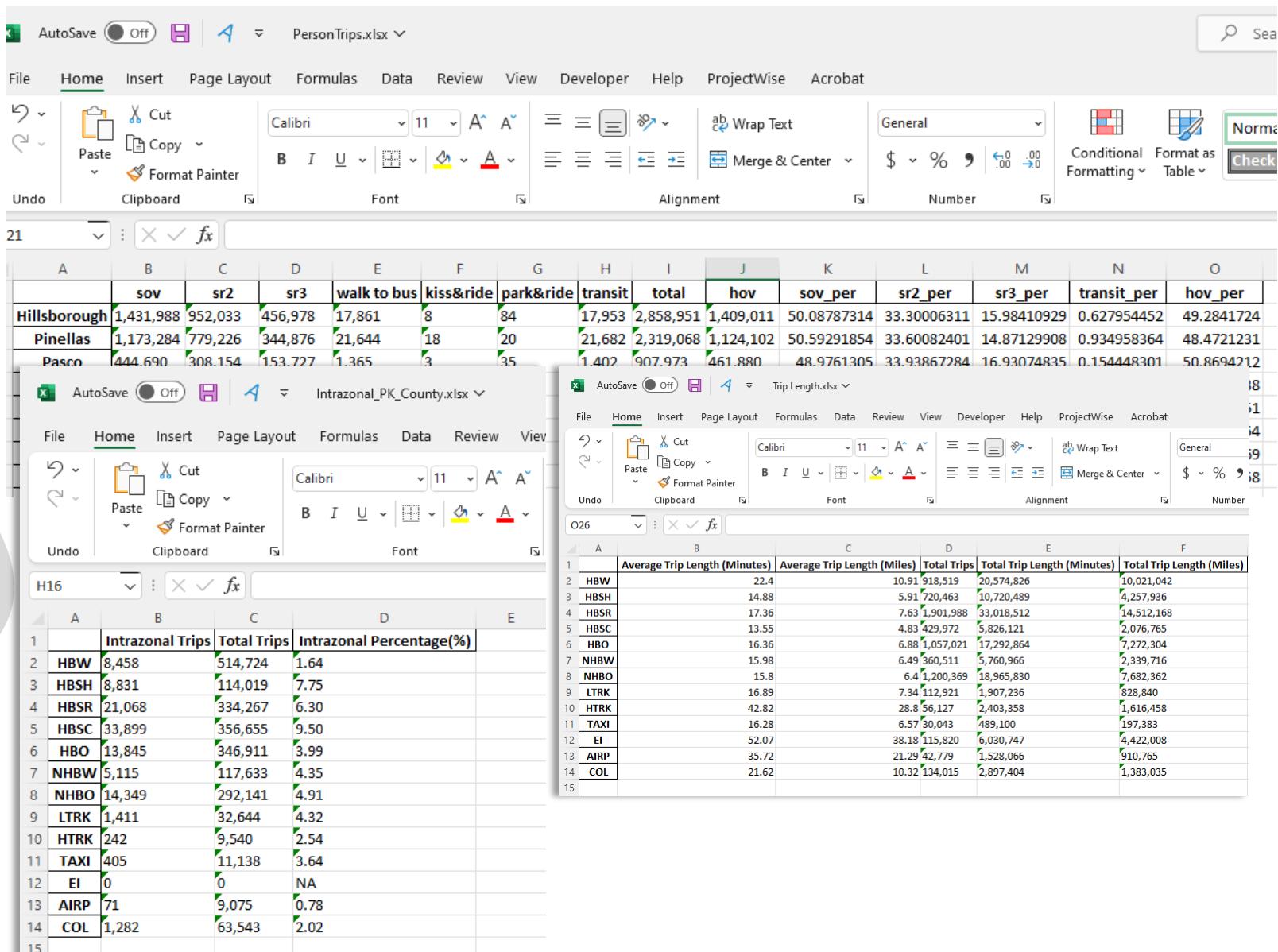
View Excel Summary

1. Go to the “summaries” folder
2. ***Double click*** an excel file to open it.

File Path: This PC > Windows (C:) > FSUTMS > D7 > TBRPMVISUM > outputs > 2015_Base

Name	Date modified	Type
HTML	11/9/2022 2:33 PM	File folder
matrix	11/9/2022 2:34 PM	File folder
panda	11/9/2022 2:34 PM	File folder
skims	11/9/2022 2:35 PM	File folder
summaries	11/9/2022 2:35 PM	File folder

Citrus-NHBW_1C_PK-tlf.csv	HWYASSIN_AREATYPE.csv
Citrus-NHBO_1C_PK-tlf.csv	HWYASSIN_FAULTYPE.csv
Citrus-LTRK_1C_PK-tlf.csv	HWYVAL_AREATYPE.csv
Citrus-EL_1C_PK-tlf.csv	HWYVAL_Corridor.csv
Hernando-TAXI_1C_PK-tlf.csv	HWYVAL_FAULTYPE.csv
Hernando-NHBW_1C_PK-tlf.csv	MODE_Highway.xlsx
Hernando-NHBO_1C_PK-tlf.csv	transit_summary.xlsx
Hernando-LTRK_1C_PK-tlf.csv	PersonTrips.xlsx
Hernando-EL_1C_PK-tlf.csv	Intrazonal_PK_County.xlsx
Hernando-OP_County.xlsx	Intrazonal_OP_County.xlsx
Pinellas-TAXI_1C_PK-tlf.csv	Intrazonal.xlsx
Pinellas-NHBW_1C_PK-tlf.csv	PK Trip Length by County.xlsx
Pinellas-NHBO_1C_PK-tlf.csv	Trip Length by County.xlsx
Pinellas-LTRK_1C_PK-tlf.csv	Trip Length.xlsx
Pinellas-HTRK_1C_PK-tlf.csv	Attraction_Overall.csv
Pinellas-EL_1C_PK-tlf.csv	Production_Overall.csv
Hillsborough-TAXI_1C_PK-tlf.csv	PANDA_1C.xlsx
Hillsborough-NHBW_1C_PK-tlf.csv	EETrips.xlsx
Hillsborough-NHBO_1C_PK-tlf.csv	
Hillsborough-LTRK_1C_PK-tlf.csv	
Hillsborough-HTRK_1C_PK-tlf.csv	
Hillsborough-EL_1C_PK-tlf.csv	
ALL-TAXI_1C_PK-tlf.csv	
ALL-NHBW_1C_PK-tlf.csv	
ALL-NHBO_1C_PK-tlf.csv	
ALL-LTRK_1C_PK-tlf.csv	
ALL-HTRK_1C_PK-tlf.csv	



The image shows three overlapping Microsoft Excel windows displaying trip data summaries:

- PersonTrips.xlsx**: A summary of person trips across various modes and regions. It includes columns for mode (sov, sr2, sr3, walk to bus, kiss&ride, park&ride, transit), total trips, and per capita values (hov, sov_per, sr2_per, sr3_per, transit_per, hov_per). Data rows include Hillsborough, Pinellas, and Pasco.
- Intrazonal_PK_County.xlsx**: A summary of intrazonal trips by county. It includes columns for county, total trips, and intrazonal percentage. Data rows include HBW, HBSH, HBSR, HBSC, HBO, NHBW, NHBO, LTRK, TAXI, EL, AIRP, and COL.
- Trip Length.xlsx**: A summary of average trip length and total trip length by mode. It includes columns for mode, average trip length (minutes and miles), total trips, and total trip length (minutes and miles). Data rows include HBW, HBSH, HBSR, HBSC, HBO, NHBW, NHBO, LTRK, TAXI, EL, AIRP, and COL.

4. View Model Inputs and Outputs

- List Files (.llax)
- Graphic Files (.gpa)
- Excel Summary
- HTML Report

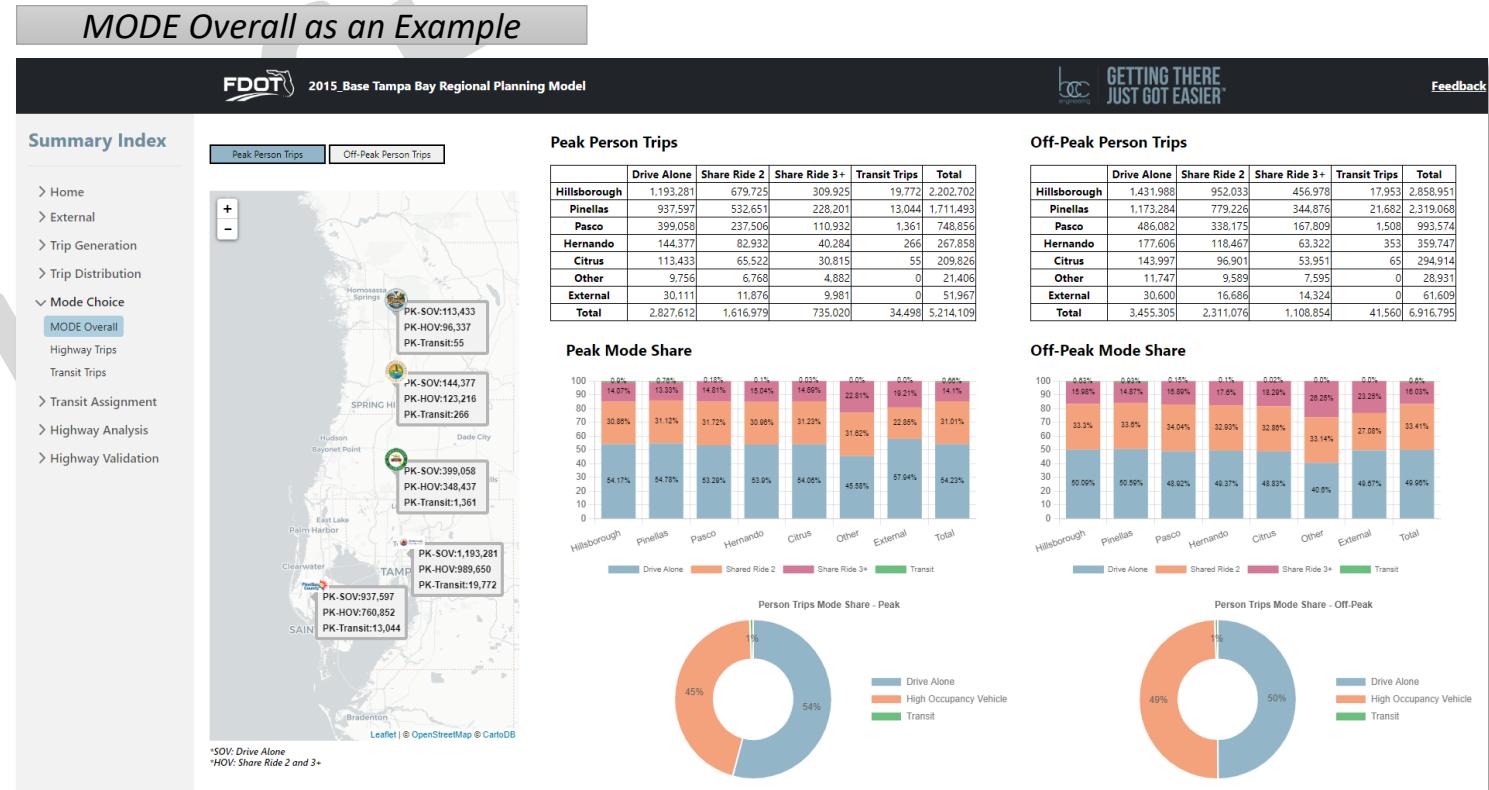
HTML Report Overview

HTML Folder Path: "C:\FSUTMS\D7\TBRPMVISUM\outputs\2015_Base\HTML"

Double click the *.html file in the HTML folder to open specific html report.

Within any HTML report, user can click the tabs under the **Summary Index** to view other HTML reports.

Name	Date modified	Type	Size
css	11/9/2022 2:33 PM	File folder	
dist	11/9/2022 2:33 PM	File folder	
geojson	11/9/2022 2:33 PM	File folder	
images	11/9/2022 2:33 PM	File folder	
javascripts	11/9/2022 2:33 PM	File folder	
js	11/9/2022 2:33 PM	File folder	
leaflet	11/9/2022 2:33 PM	File folder	
libs	11/9/2022 2:33 PM	File folder	
src	11/9/2022 2:33 PM	File folder	
stylesheets	11/9/2022 2:33 PM	File folder	
Analysis_Overall.html	10/31/2022 9:58 AM	Chrome HTML Do...	21 KB
DIST_intra.html	10/31/2022 9:57 AM	Chrome HTML Do...	18 KB
DIST_intra_County_OP.html	10/31/2022 9:57 AM	Chrome HTML Do...	23 KB
DIST_intra_County_PK.html	10/31/2022 9:57 AM	Chrome HTML Do...	23 KB
EEIN.html	10/31/2022 9:57 AM	Chrome HTML Do...	25 KB
EEOUT.html	10/31/2022 9:57 AM	Chrome HTML Do...	22 KB
GEN_INPUT.html	11/9/2022 2:27 PM	Chrome HTML Do...	26 KB
GEN_Overall.html	10/31/2022 9:57 AM	Chrome HTML Do...	23 KB
highway_Corridor.html	10/31/2022 9:57 AM	Chrome HTML Do...	16 KB
highway_FAOL.html	10/31/2022 9:57 AM	Chrome HTML Do...	19 KB
MODE_HWY.html	10/31/2022 9:57 AM	Chrome HTML Do...	39 KB
MODE_overall.html	11/8/2022 4:42 PM	Chrome HTML Do...	30 KB
MODE_transit.html	10/31/2022 9:57 AM	Chrome HTML Do...	30 KB
TRANSIT_Overall.html	10/31/2022 9:57 AM	Chrome HTML Do...	21 KB
Triplength.html	10/31/2022 9:57 AM	Chrome HTML Do...	20 KB
Triplength_OP_County.html	10/31/2022 9:57 AM	Chrome HTML Do...	28 KB
Triplength_PK_County.html	10/31/2022 9:57 AM	Chrome HTML Do...	28 KB
Validation_Overall.html	10/31/2022 9:58 AM	Chrome HTML Do...	20 KB



HTML Report Overview

Feedback: User can *click* the **Feedback** button and leave their feedback if they have any suggestions/comments.

FDOT 2015 Base Tampa Bay Regional Planning Model

Summary Index

- > Home
- > External
- > Trip Generation
- > Trip Distribution
- Mode Choice
 - MODE Overall
 - Highway Trips
 - Transit Trips
 - Transit Assignment
 - Highway Analysis
 - Highway Validation

Peak Person Trips Off-Peak Person Trips

Peak Person Trips

	Drive Alone	Share Ride 2	Share Ride 3+	Transit Trips	Total
Hillsborough	1,193,281	679,725	309,925	19,772	2,202,702
Pinellas	937,597	532,651	228,201	13,044	1,711,493
Pasco	399,058	237,506	110,932	1,361	746,856
Hernando	144,377	82,932	40,284	266	267,858
Citrus	113,433	65,522	30,815	55	209,826
Other	9,756	6,768	4,882	0	21,406
External	30,111	11,876	9,981	0	51,967
Total	2,827,612	1,616,979	735,020	34,498	5,214,109

Off-Peak Person Trips

	Drive Alone	Share Ride 2	Share Ride 3+	Transit Trips	Total
Hillsborough	1,431,968	952,033	456,978	17,953	2,858,951
Pinellas	1,173,284	779,226	344,876	21,682	2,319,068
Pasco	486,082	338,175	167,809	1,508	993,574
Hernando	177,606	118,467	63,322	353	359,747
Citrus	143,997	96,901	53,951	65	294,914
Other	11,747	9,589	7,595	0	28,931
External	30,600	16,686	14,324	0	61,609
Total	3,455,305	2,311,076	1,108,854	41,560	6,916,795

Peak Mode Share

GETTING THERE JUST GOT EASIER® Tampa Bay Regional Planning Model

Feedback Contact Us Log In

Welcome to our feedback site!

Please use the section below to leave your valuable feedback.
Your comments and/or suggestions are greatly appreciated!

If you have a comment regarding a specific section of our summary website, please include the section name. For example: "Trip Generation-Panda Overall".

Thank you :)

Feedback

0 comments

Leave a message...

bcc
engineering

HTML Report – External

- **Input EE Trips**

- User can review the total trips, EE trips and EE trip percentage in the table
- User can click the External Points to review detailed information by location

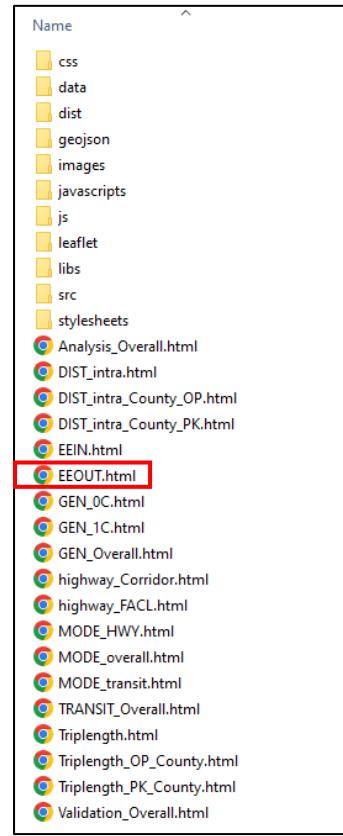
The screenshot illustrates the user interface for the FDOT 2015_Base Tampa Bay Regional Planning Model. It includes:

- Left Panel (File Explorer):** Shows a list of files and folders, with "EEIN.html" highlighted.
- Summary Index:** A navigation menu with options like Home, External (with Input EE Trip selected), Trip Generation, Trip Distribution, Mode Choice, Transit Assignment, Highway Analysis, and Highway Validation.
- Map:** A map of the Tampa Bay area showing various locations with red dots representing external points. One point in Zephyrhills is highlighted with a callout box containing the text: "3010: EEPCT(%):10 EE Trips:790".
- Table:** A table titled "ZDATA4 Total External Trip Ends" listing trip end details. A green callout box with the text "Click the point to show detailed information" points to the map area.

Zone	Description	Trip End Totals	Percent EE	EE Trip Ends
3001	US 19 @ Citrus / Levy County Line	7,500	6.0%	450
3002	US 41 @ Citrus / Marion County Line	19,600	5.0%	980
3003	SR 200 @ Citrus / Marion County Line	14,200	6.0%	852
3004	SR 44 @ Citrus / Sumter County Line	10,200	6.0%	612
3005	CR 48 @ Citrus / Sumter County Line	4,100	6.0%	246
3006	CR 476 @ Hernando / Sumter County Line	2,300	10.0%	230
3007	I-75 @ Hernando / Sumter County Line	37,500	28.0%	10,500
3008	US 301 @ Hernando / Sumter County Line	3,900	10.0%	390
3009	SR 50 @ Hernando / Sumter County Line	5,800	10.0%	580
3010	US 98 @ Pasco / Polk County Line (S of CR 54)	7,900	10.0%	790
3011	CR 582 / Knights-Griff Rd @ Hillsborough / Polk	8,200	7.0%	574
3012	I-4 @ Hillsborough / Polk CL (W of CR 570 Polk Pk)	125,500	19.0%	23,845
3013	US 92 @ Hillsborough / Polk County Line	10,700	7.0%	749
3014	CR 542 / Allen K Breed Hwy @ Hillsborough / Polk	2,800	7.0%	196
3015	Rice Rd / Drane Field Rd @ Hillsborough / Polk	7,500	7.0%	525
3016	Medulla Rd @ Hillsborough / Polk County Line	1,450	7.0%	102
3017	W Pipkin Rd @ Hillsborough / Polk County Line	4,800	7.0%	336
3018	Ewell Rd / Coronet Rd @ Hillsborough / Polk County	9,700	7.0%	679
3019	Shepherd Rd @ Hillsborough / Polk County Line	15,400	7.0%	1,078
	@ Hillsborough / Polk	18,200	10.0%	1,820
	Hillsborough / Polk County	2,200	7.0%	154
	J @ Hillsborough / Polk	6,200	7.0%	434
	J / Polk County Line	1,950	7.0%	136
	Hillsborough / Manatee	2,300	7.0%	161
3025	CR 579 / Saffold Rd @ Hillsborough / Manatee	550	7.0%	38
3026	US 301 S of Moccasin Wallow Rd / SR 62 Manatee	8,200	7.0%	574
3027	I-75 S of I-275 (S of Manatee County Line)	88,500	20.0%	17,700
3028	US 41 S of I-275 (S of Manatee County Line)	30,000	10.0%	3,000
3029	US 19 S of I-275 (S of Manatee County Line)	22,500	10.0%	2,250
3030	Swindell Rd at Hillsborough/Polk Countyline	500	7.0%	35
3031	16th Ave Manatee	1,050	0.0%	0
3032	30th Ave Manatee	5,500	0.0%	0
External Totals		486,700	14.4%	70,016

HTML Report – External (Cont.)

- ***Output EE Trips***
 - User can review the EE auto and EE truck trips.



Summary Index

- Home
- ✓ External
- Input EE Trips
- Output EE Trips**
- Trip Generation
- Trip Distribution
- Mode Choice
- Transit Assignment
- Highway Analysis
- Highway Validation

EE Auto

Zone	Origins	Destination	Total
3001	218	218	436
3002	499	498	996
3003	435	435	870
3004	304	304	608
3005	121	121	242
3006	107	107	214
3007	3,735	3,732	7,466
3008	187	186	372
3009	244	242	486
3010	352	350	701
3011	269	269	537
3012	10,822	10,828	21,650
3013	348	348	697
3014	84	84	168
3015	259	259	518
3016	52	52	103
3017	171	171	342
3018	295	295	591
3019	556	556	1,113
3020	891	891	1,781
3021	60	60	121
3022	187	187	373
3023	72	72	144
3024	62	62	125
3025	16	16	31
3026	270	270	539
3027	7,744	7,750	15,494
3028	1,490	1,490	2,981
3029	1,135	1,134	2,269
3030	21	21	41
3031	1	1	2
3032	6	6	13
External Totals	31,013	31,013	62,025

EE Truck

Zone	Origins	Destination	Total
3001	18	18	36
3002	14	14	28
3003	15	15	30
3004	19	19	38
3005	12	12	24
3006	14	14	28
3007	1,546	1,546	3,092
3008	32	32	64
3009	70	70	140
3010	84	84	168
3011	24	24	48
3012	1,060	1,060	2,120
3013	42	42	84
3014	16	16	32
3015	15	15	30
3016	2	2	4
3017	8	8	16
3018	59	59	118
3019	11	11	22
3020	71	71	142
3021	18	18	36
3022	35	35	70
3023	5	5	10
3024	24	24	48
3025	4	4	8
3026	45	45	90
3027	1,168	1,168	2,336
3028	102	102	204
3029	69	69	138
3030	0	0	0
3031	0	0	0
3032	0	0	0
External Totals	4,602	4,602	9,203

EE Auto Total Trips

Year	Trips
2001	~1,000
2003	~1,000
2005	~1,000
2006	~1,000
2007	~8,000
2009	~1,000
2011	~22,000
2013	~1,000
2015	~1,000
2017	~1,000
2019	~1,000
2021	~1,000
2023	~1,000
2025	~1,000
2027	~15,000
2029	~3,000
2031	~1,000

EE Truck Total Trips

Year	Trips
2001	~100
2003	~100
2005	~100
2006	~100
2007	~3,000
2009	~100
2011	~2,000
2013	~100
2015	~100
2017	~100
2019	~100
2021	~100
2023	~100
2025	~100
2027	~2,000
2029	~300
2031	~100

HTML Report – Trip Generation

• Production & Attraction

- User can review the production and attraction by trip purpose and by county
- The bar chart can display detailed data when the cursor is moved onto the bar

FDOT 2015 Base Tampa Bay Regional Planning Model

Summary Index

- > Home
- > External
- ✓ Trip Generation
 - Production & Attraction
 - Trip Generation Statistics
 - Trip Distribution
 - Mode Choice
 - Transit Assignment
 - Highway Analysis
 - Highway Validation

Production by Trip Purpose and by County

County	HBW	HBSH	HBSR	HBSC	HBO	NHWB	NHBO	LTRK	HTRK	TAXI	EI	AIRP	COL	Total
Hillsborough	941,326	377,000	1,059,493	582,433	775,296	299,332	876,510	83,616	30,248	24,751	0	27,675	122,600	5,202,26
Pinellas	712,292	391,537	1,066,615	351,876	693,426	181,801	523,951	55,820	17,458	19,165	0	24,093	84,967	4,123,00
Pasco	301,415	164,671	449,916	182,468	313,623	63,735	223,696	20,299	6,826	6,335	0	5,173	37,712	1,775,88
Hernando	103,574	60,463	164,026	62,542	155,585	23,476	82,736	7,681	3,265	2,254	0	2,024	13,179	640,98
Citrus	75,725	53,038	141,153	38,135	93,068	18,933	71,900	6,885	2,341	1,955	0	2,169	10,619	515,92
Other	7,937	6,533	13,960	4,063	9,808	1,286	3,931	439	158	163	0	65	2,744	51,09
External	39,909	4,197	12,105	1,827	23,388	5,371	17,737	10,318	21,689	0	161,760	2,450	6,393	307,34
Total	2,182,178	1,057,438	2,907,276	1,223,366	2,024,395	593,923	1,800,463	185,237	81,985	54,624	161,760	63,650	278,213	12,614,51

Attraction by Trip Purpose and by County

County	HBW	HBSH	HBSR	HBSC	HBO	NHWB	NHBO	LTRK	HTRK	TAXI	EI	AIRP	COL	Total
Hillsborough	994,839	204,337	1,045,573	560,942	793,333	209,130	876,510	83,616	30,148	24,751	0	27,675	122,600	5,423,12
Pinellas	742,653	396,337	1,088,844	351,878	728,953	181,801	523,951	55,820	17,458	19,165	0	23,271	78,800	4,260,92
Pasco	223,015	140,748	428,894	182,531	279,149	63,735	223,696	20,299	6,826	6,335	15,618	0	32,765	1,620,80
Hernando	95,737	64,148	170,236	62,871	114,047	21,476	82,736	7,681	3,265	2,254	5,527	0	6,614	638,87
Citrus	75,725	48,003	138,667	37,968	88,084	18,933	71,900	6,885	2,341	1,955	4,561	0	4,348	496,37
Other	3,454	2,438	5,995	3,479	3,238	1,286	3,931	439	158	163	204	0	0	24,87
External	46,754	11,479	11,105	3,897	27,691	5,371	17,737	10,318	21,689	0	0	0	0	160,04
Total	2,182,178	1,057,438	2,907,276	1,223,366	2,024,395	593,923	1,800,463	185,237	81,985	54,624	161,760	63,650	278,213	12,614,51

Production and Attraction Overall

The chart displays the total production and attraction for each trip purpose across all counties. The y-axis ranges from 0 to 3,000,000. The legend indicates Production (blue) and Attraction (orange). The data shows significant variation between trip purposes, with HBO having the highest production and attraction values.

• Trip Generation Statistics

- User can review the ZDATA information (Population, Employment, etc.)

FDOT 2015 Base Tampa Bay Regional Planning Model

Summary Index

- > Home
- > External
- ✓ Trip Generation
 - Production & Attraction
 - Trip Generation Statistics
 - Trip Distribution
 - Mode Choice
 - Transit Assignment
 - Highway Analysis
 - Highway Validation

Population

	Hillsborough	Pinellas	Pasco	Hernando	Citrus	Other	Total
Permanent	1,271,613	923,187	477,662	174,380	139,141	13,366	2,998,349
Group Quarters	23,702	20,591	6,335	2,419	2,360	1,082	56,509
Total Population	1,295,315	942,778	483,997	176,819	141,501	14,448	3,054,858

Total Dwelling Units

	Hillsborough	Pinellas	Pasco	Hernando	Citrus	Other	Total
Permanently Occupied	508,676	427,719	198,624	73,426	63,693	4,646	1,276,785
Seasonally Occupied	8,090	43,206	17,615	4,669	7,235	904	81,827
Vacant Dwelling Units	45,245	38,360	20,579	7,234	7,607	448	119,493
Total Dwelling Units	562,012	540,394	298,822	85,338	78,556	5,995	1,478,107

Permanently Occupied Dwelling Units: Retirement

	Hillsborough	Pinellas	Pasco	Hernando	Citrus	Other	Total
Retired 0 Auto	11,981	18,573	5,010	1,944	1,851	72	39,434
Retired 1 Auto	41,436	65,936	33,504	14,171	15,181	1,214	170,395
Retired 2+ Auto	35,720	48,405	23,261	10,634	11,659	426	125,407
Retired 1+ Auto	15,268	12,150	7,179	3,625	3,547	36	39,807
Total Retired	103,179	141,659	48,658	30,306	30,490	1,750	376,044

Permanently Occupied Dwelling Units: Working without Children

	Hillsborough	Pinellas	Pasco	Hernando	Citrus	Other	Total
Working w/o Children 0 Auto	17,423	17,394	4,713	1,338	1,231	38	42,128
Working w/o Children 1 Auto	107,750	98,670	31,724	10,616	9,257	765	243,254
Working w/o Children 2 Auto	91,273	87,405	29,724	9,735	8,426	935	208,105
Working w/o Children 3+ Auto	31,354	18,927	10,422	3,448	2,698	182	67,023
Total Working w/o Children	241,767	196,240	76,448	25,133	21,592	1,919	563,101

Permanently Occupied Dwelling Units: Working with Children

	Hillsborough	Pinellas	Pasco	Hernando	Citrus	Other	Total
Working w/o Children 0 Auto	10,542	7,407	2,379	838	36	22,165	
Working w/o Children 1 Auto	89,389	88,954	19,952	7,272	4,096	129	131,474
Working w/o Children 2 Auto	66,074	33,166	22,821	7,234	4,557	575	136,361
Working w/o Children 3+ Auto	24,872	10,194	8,162	2,596	1,572	235	47,634
Total Working w/o Children	163,729	89,814	53,517	17,987	11,609	976	337,635

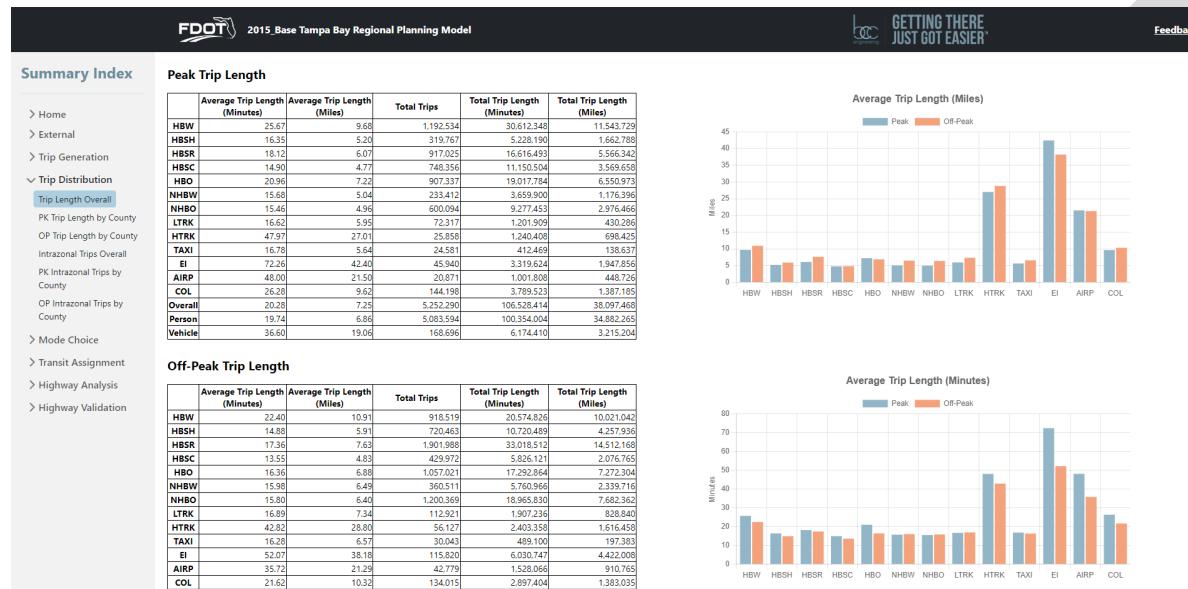
Ratio Statistics

	Hillsborough	Pinellas	Pasco	Hernando	Citrus	Other	Total
PERM POP/PERM OCCDU	2.50	2.16	2.40	2.37	2.18	2.88	2.35
TOT POP/TOT OCCDU	2.51	2.00	2.24	2.26	2.00	2.20	2.25
SERVICE EMP/TOT EMP	0.66	0.65	0.59	0.57	0.61	0.43	0.64
TOT EMP/TOT POP	0.65	0.58	0.33	0.32	0.23	0.21	0.54
TOT DW/WORKING-HHS	2.07	1.71	1.51	1.59	1.59	1.59	1.87
TOT SCHL-WORKING-HHS	1.84	1.76	1.73	1.53	1.61	2.71	1.83
TOT SCHL/TOT OCCDU	0.61	0.34	0.43	0.39	0.26	0.49	0.43

HTML Report – Trip Distribution

Trip Length Overall

- User can review the average trip length, total trips and total trips length of each trip purpose in the tables.
- User can compare the average trip length of different trip purposes in the bar charts.

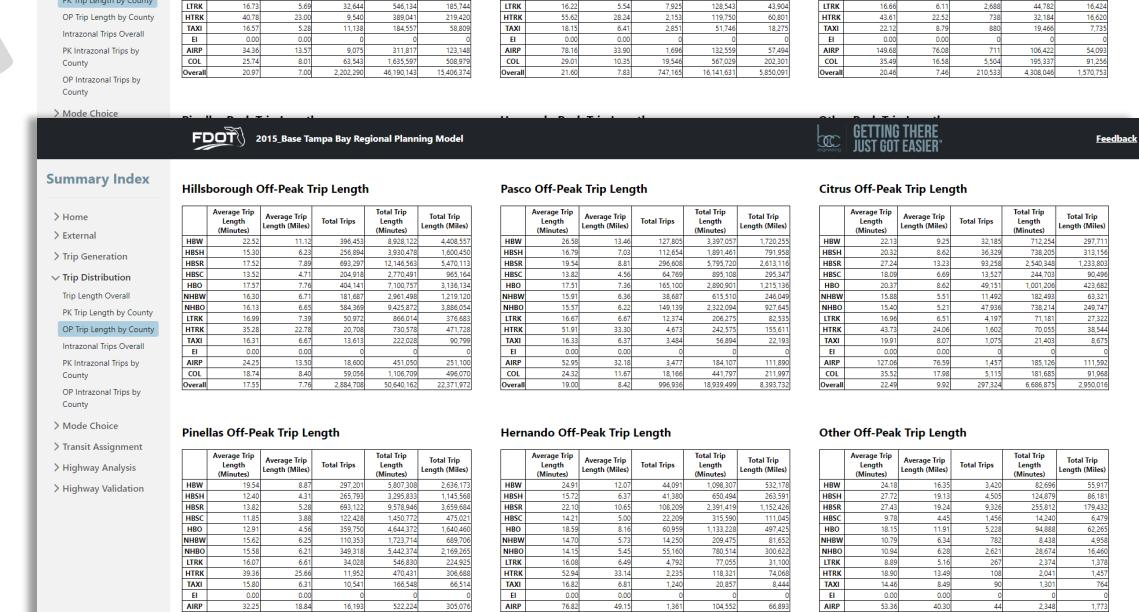
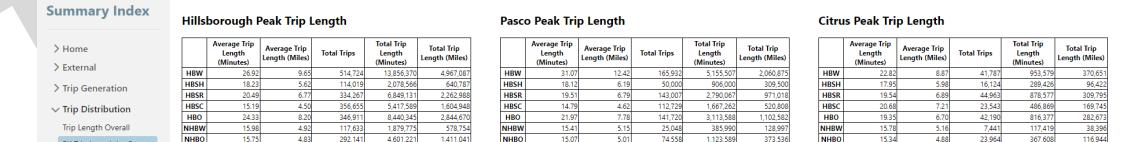


PK Trip Length by County

- User can review peak average trip length, total trips and total trip length of each trip purpose by county.

OP Trip Length by County

- User can review off-peak average trip length, total trips and total trip length of each trip purpose by county.



HTML Report – Trip Distribution (Cont.)

Intrazonal Trips Overall

- User can review the intrazonal trips, total trips and intrazonal trip percentage by each trip purpose in the table.
- User can compare intrazonal trips and total trips of different trip purposes in the bar charts.

Summary Index

	Intrazonal Trips	Total Trips	Intrazonal Percentage(%)
HBW	20,845	1,192,534	1.76
HBSH	25,230	319,767	7.89
HBSR	62,668	917,025	6.83
HBSC	60,768	748,356	8.12
HBO	41,640	907,337	4.61
NHWB	10,609	233,412	4.55
NHBO	31,670	600,094	5.28
LTRK	2,857	72,317	3.95
HTRK	392	25,858	1.52
TAXI	917	24,581	3.73
EI	0	45,940	0.00
AIRP	71	20,871	0.34
COL	4,491	144,198	3.11
Overall	262,466	5,252,290	5.00

Peak Intrazonal Trips

Trip Purpose	Intrazonal Trips	Total Trips
HBW	8,458	154,019
HBSH	8,831	114,019
HBSR	21,060	324,367
HBSC	33,899	356,655
HBO	13,843	346,911
NHWB	5,115	117,633
NHBO	14,349	292,141
LTRK	1,411	32,644
HTRK	242	9,540
TAXI	405	11,138
EI	0	0
AIRP	71	9,075
COL	0	0

Off-Peak Intrazonal Trips

Trip Purpose	Intrazonal Trips	Total Trips
HBW	12,174	918,519
HBSH	51,057	720,463
HBSR	141,817	1,901,988
HBSC	36,894	429,972
HBO	72,651	1,057,021
NHWB	11,707	360,511
NHBO	46,252	1,200,369
LTRK	3,242	112,921
HTRK	729	56,127
TAXI	825	30,043
EI	0	115,820
AIRP	145	42,779
COL	0	0

PK Intrazonal Trips by County

- User can review peak average trip length, total trips and total trip length of each trip purpose by county.

OP Intrazonal Trips by County

- User can review off-peak average trip length, total trips and total trip length of each trip purpose by county.

Summary Index

	Intrazonal Trips	Total Trips	Intrazonal Percentage(%)
HBW	8,458	154,019	1.64
HBSH	8,831	114,019	7.75
HBSR	21,060	324,367	6.30
HBSC	33,899	356,655	9.55
HBO	13,843	346,911	3.99
NHWB	5,115	117,633	4.35
NHBO	14,349	292,141	4.91
LTRK	1,411	32,644	4.32
HTRK	242	9,540	2.54
TAXI	405	11,138	3.64
EI	0	0	0.00
AIRP	71	9,075	0.78
COL	0	0	0.00

Hillsborough Peak Intrazonal Trips

Trip Purpose	Intrazonal Trips	Total Trips	Intrazonal Percentage(%)
HBW	3,854	165,932	2.32
HBSH	4,911	50,000	9.82
HBSR	12,016	142,007	8.10
HBSC	11,122	112,729	9.87
HBO	9,438	141,720	6.66
NHWB	1,614	25,048	6.44
NHBO	5,558	74,358	7.45
LTRK	398	7,925	5.02
HTRK	23	2,153	1.07
TAXI	139	2,851	4.88
EI	0	0	0.00
AIRP	71	1,696	0.00
COL	0	0	0.00

Pasco Peak Intrazonal Trips

Trip Purpose	Intrazonal Trips	Total Trips	Intrazonal Percentage(%)
HBW	2,967	41,787	7.15
HBSH	2,841	16,124	17.62
HBSR	8,077	44,943	17.06
HBSC	1,799	23,543	7.64
HBO	5,705	42,190	13.52
NHWB	1,105	7,441	14.85
NHBO	3,802	23,954	15.87
LTRK	414	2,688	15.40
HTRK	34	738	4.61
TAXI	122	880	13.66
EI	0	0	0.00
AIRP	0	711	0.00
COL	0	0	0.00

Citrus Peak Intrazonal Trips

Trip Purpose	Intrazonal Trips	Total Trips	Intrazonal Percentage(%)
HBW	2,907	32,189	6.52
HBSH	6,442	26,329	17.73
HBSR	18,404	93,256	19.83
HBSC	1,150	13,527	8.50
HBO	9,318	40,151	18.96
NHWB	1,540	11,492	13.40
NHBO	6,884	47,936	14.36
LTRK	597	4,197	14.22
HTRK	71	1,602	4.43
TAXI	138	1,075	12.65
EI	0	0	0.00
AIRP	0	1,457	0.00
COL	2	5,119	0.04
Overall	46,729	297,324	15.72

Summary Index

	Intrazonal Trips	Total Trips	Intrazonal Percentage(%)
HBW	4,410	398,453	1.11
HBSH	16,691	256,694	6.50
HBSR	45,520	693,297	6.57
HBSC	20,080	204,918	9.80
HBO	22,868	404,141	5.66
NHWB	4,954	181,687	2.73
NHBO	18,091	584,369	3.10
LTRK	1,425	50,973	2.80
HTRK	465	20,708	2.25
TAXI	324	13,613	2.38
EI	0	0	0
AIRP	145	18,600	0.78
COL	1,193	59,056	2.02
Overall	136,166	2,884,708	4.72

Hillsborough Off-Peak Intrazonal Trips

Trip Purpose	Intrazonal Trips	Total Trips	Intrazonal Percentage(%)
HBW	2,391	127,803	1.87
HBSH	10,689	112,654	9.49
HBSR	30,953	296,608	10.44
HBSC	7,071	64,769	10.86
HBO	17,850	165,100	10.81
NHWB	1,967	38,687	5.08
NHBO	8,832	149,139	5.92
LTRK	488	12,374	3.94
HTRK	35	4,873	0.75
TAXI	141	3,484	4.03
EI	0	0	0
AIRP	0	3,477	0.00
COL	1,455	18,166	0.01
Overall	81,859	996,936	8.21

Pasco Off-Peak Intrazonal Trips

Trip Purpose	Intrazonal Trips	Total Trips	Intrazonal Percentage(%)
HBW	2,907	32,189	6.52
HBSH	6,442	26,329	17.73
HBSR	18,404	93,256	19.83
HBSC	1,150	13,527	8.50
HBO	9,318	40,151	18.96
NHWB	1,540	11,492	13.40
NHBO	6,884	47,936	14.36
LTRK	597	4,197	14.22
HTRK	71	1,602	4.43
TAXI	138	1,075	12.65
EI	0	0	0
AIRP	0	1,457	0.00
COL	2	5,119	0.04
Overall	46,729	297,324	15.72

Hernando Off-Peak Intrazonal Trips

Trip Purpose	Intrazonal Trips	Total Trips	Intrazonal Percentage(%)
HBW	874	44,091	1.98
HBSH	3,277	41,380	7.92
HBSR	9,376	108,209	8.66
HBSC	1,395	22,209	6.28
HBO	5,004	60,959	8.21
NHWB	1,263	14,250	8.86
NHBO	5,460	55,160	9.90
LTRK	279	4,793	5.82
HTRK	89	2,235	3.58
TAXI	58	1,240	4.68
EI	0	0	0
AIRP	0	1,361	0.00
COL	33	6,348	0.52
Overall	3,226	342,704	1.00

Other Off-Peak Intrazonal Trips

Trip Purpose	Intrazonal Trips	Total Trips	Intrazonal Percentage(%)
HBW	21	3420	0.61
HBSH	81	4,505	1.80
HBSR	309	9,326	3.31
HBSC	133	1,456	9.13
HBO	90	5,228	1.72
NHWB	82	782	10.49
NHBO	526	2,621	20.07
LTRK	0	267	0.00
HTRK	0	108	0.00
TAXI	10	90	11.11
EI	0	0	0
AIRP	0	44	0.00
COL	0	1,322	0.00
Overall	1,322	34,270	1.00

HTML Report – Mode Choice

- **Mode Choice Overall**

- User can review person trips of drive alone, shared ride 2, shared ride 3+ and transit trips.
- User can review peak and off-peak mode share total numbers by location in the map.
- User can review mode share percentage by county in the stacked bar charts and overall mode share percentage in the dough pie charts.

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- > Trip Distribution
- ▽ Mode Choice
 - Model Choice Overall**
 - Highway Trips
 - Transit Trips
 - > Transit Assignment
 - > Highway Analysis
 - > Highway Validation

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Peak Person Trips
Off-Peak Person Trips

When user click the label, the marker content of the map will show information of peak and off-peak accordingly.

Hillsborough: PK-SOV:113,433, PK-HOV:96,337, PK-Transit:55

Pinellas: PK-SOV:144,377, PK-HOV:123,216, PK-Transit:266

Pasco: PK-SOV:399,058, PK-HOV:348,437, PK-Transit:1,361

Hernando: PK-SOV:1,193,281, PK-HOV:989,650, PK-Transit:19,772

Citrus: PK-SOV:937,597, PK-HOV:760,852, PK-Transit:13,044

Other: PK-SOV:11,433, PK-HOV:10,337, PK-Transit:1,361

External: PK-SOV:113,433, PK-HOV:96,337, PK-Transit:55

Total: PK-SOV:5,214,109, PK-HOV:4,580,852, PK-Transit:1,361

*SOV: Drive Alone
*HOV: Share Ride 2 and 3+

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Peak Person Trips
Off-Peak Person Trips

	Drive Alone	Share Ride 2	Share Ride 3+	Transit Trips	Total
Hillsborough	1,193,281	679,725	309,925	19,772	2,202,702
Pinellas	937,597	532,651	228,201	13,044	1,711,493
Pasco	399,058	237,506	110,932	1,361	748,856
Hernando	144,377	82,932	40,284	266	267,858
Citrus	113,433	65,522	30,815	55	209,826
Other	9,756	6,768	4,882	0	21,406
External	30,111	11,876	9,981	0	51,967
Total	2,827,612	1,616,979	735,020	34,498	5,214,109

	Drive Alone	Share Ride 2	Share Ride 3+	Transit Trips	Total
Hillsborough	1,431,988	952,033	456,978	17,953	2,858,951
Pinellas	1,173,284	779,226	344,876	21,682	2,319,068
Pasco	486,082	338,175	167,809	1,508	993,574
Hernando	177,606	118,467	63,322	353	359,747
Citrus	143,997	96,901	53,951	65	294,914
Other	11,747	9,589	7,595	0	28,931
External	30,600	16,686	14,324	0	61,609
Total	3,455,305	2,311,076	1,108,854	41,560	6,916,795

Peak Mode Share
Off-Peak Mode Share

Person Trips Mode Share - Peak

Mode	Hillsborough	Pinellas	Pasco	Hernando	Citrus	Other	Total
Drive Alone	54.17%	54.78%	53.29%	53.9%	64.08%	45.58%	57.94%
Shared Ride 2	30.88%	31.12%	31.72%	30.98%	31.23%	31.82%	31.01%
Share Ride 3+	14.07%	13.33%	14.81%	15.04%	14.89%	22.81%	19.21%
Transit	0.0%	0.78%	0.18%	0.1%	0.03%	0.05%	0.08%

Person Trips Mode Share - Off-Peak

Mode	Hillsborough	Pinellas	Pasco	Hernando	Citrus	Other	Total
Drive Alone	50.09%	50.59%	48.92%	49.37%	48.83%	40.5%	49.95%
Shared Ride 2	33.3%	38.8%	34.04%	32.93%	32.88%	33.14%	33.41%
Share Ride 3+	15.98%	14.87%	18.89%	17.8%	18.29%	20.25%	23.25%
Transit	0.02%	0.03%	0.1%	0.0%	0.0%	0.0%	0.05%

Person Trips Mode Share - Peak

Mode	Value
Drive Alone	54%
High Occupancy Vehicle	45%
Transit	1%

Person Trips Mode Share - Off-Peak

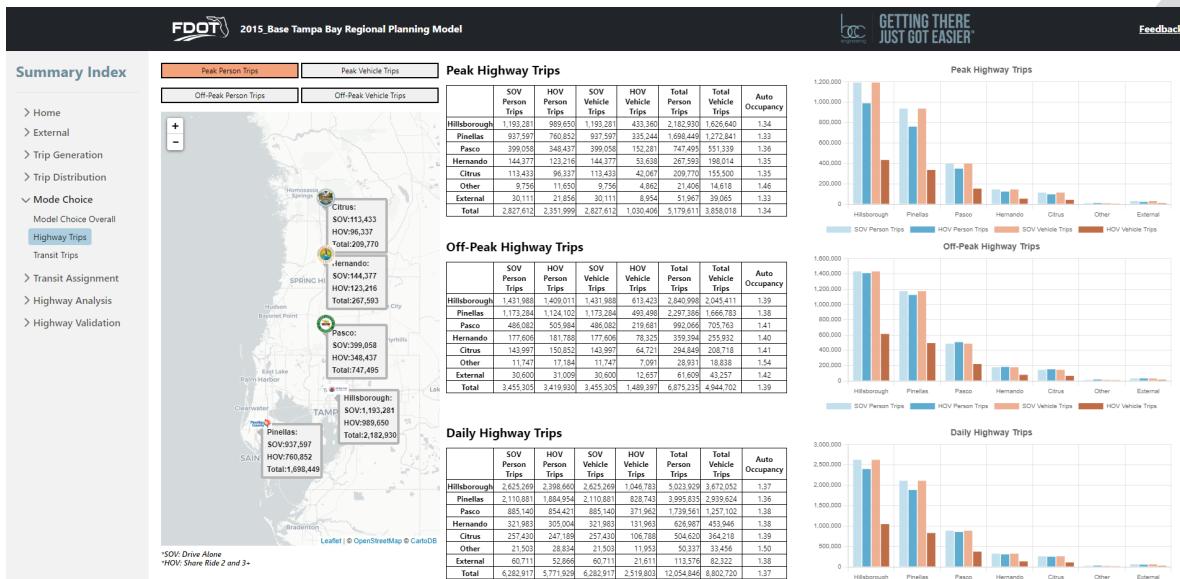
Mode	Value
Drive Alone	50%
High Occupancy Vehicle	49%
Transit	1%

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HTML Report – Mode Choice (Cont.)

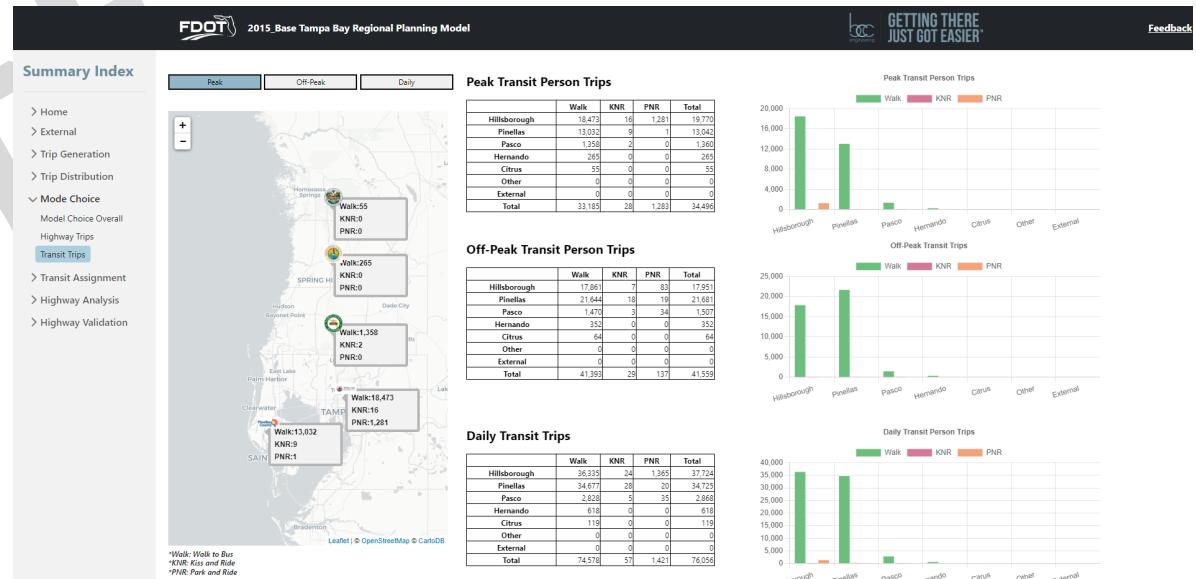
- Highway Trips**

- User can review highway person trips and vehicle trips.
- User can compare person trips and vehicle trips in the bar charts.
- User can review the peak and off-peak highway vehicle trips and person trips by county in the map.



- Transit Trips**

- User can review transit trips in the tables (walk to bus, kiss and ride, and park and ride).
- User can compare transit trips in the bar charts.
- User can review the peak, off-peak, and daily transit trips by county in the map.



HTML Report – Transit Assignment

- ***Transit Summary***

- User can review transit summary by mode and by operator in the tables.
- User can compare transit trip by mode and by operator in the bar charts.

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Transit Summary by Mode

Mode	Description	Passenger Trips(PK)	Pass.Mi(PK)	Pass.Hr(PK)	Passenger Trips(OP)	Pass.Mi(OP)	Pass.Hr(OP)
10	HART local buses Non-Premium	21,412	80,656	5,325	20,075	69,932	4,641
11	HART express bus Non-Premium	1,341	11,785	406	292	1,078	43
12	HART premium bus /in-street BRT Premium	2,770	10,238	1,348	3,201	10,526	1,388
14	HART streetcar & AGT Non-Premium	0	0	0	0	0	0
17	HART project circulator Premium	405	497	53	10	10	1
20	PSTA local bus Non-Premium	17,752	75,124	4,206	29,593	126,293	7,038
21	PSTA express bus Non-Premium	1,109	9,207	364	609	4,188	173
27	PSTA project circulator Premium	23	108	5	74	250	11
30	PCPT local bus Non-Premium	1,583	4,589	201	1,827	5,951	264
40	TheBUS/CCT local bus Non-Premium	335	1,318	63	436	1,995	95
All Modes		46,730	193,521	11,971	56,117	220,223	13,654

Transit Summary by Operator

Operator	Description	Passenger Trips(PK)	Pass.Mi(PK)	Pass.Hr(PK)	Passenger Trips(OP)	Pass.Mi(OP)	Pass.Hr(OP)
10	Hillsborough Area Regional Transit (HART)	25,928	103,176	7,132	23,578	81,546	6,074
20	Pinellas Suncoast Transit Authority (PSTA)	18,884	84,438	4,575	30,276	130,731	7,222
30	Pasco County Public Transportation (PCPT)	1,583	4,589	201	1,827	5,951	264
40	Hernando County TheBUS (TheBUS)	280	927	46	371	1,347	67
50	Citrus County Transit (CCT)	55	390	16	65	648	27
All Operators		46,730	193,521	11,971	56,117	220,223	13,654

Passenger Trips by Mode

Passenger Miles by Mode

Passenger Hours by Mode

Passenger Trips by Operator

Passenger Miles by Operator

Passenger Hours by Operator

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HTML Report – Highway Analysis

- **Volume/Capacity**

- User can review the Volume/Capacity results by county, facility type and area type in the tables.
- User can compare the Volume/Capacity results by county, facility type and area type in the bar charts.

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Volume/Capacity by County

County	Capacity	Volume	Volume/Capacity
Hillsborough	177,497,149	99,999,640	0.56
Pinellas	138,607,034	75,687,592	0.55
Pasco	51,307,552	23,922,752	0.47
Hernando	22,124,980	8,363,902	0.38
Citrus	12,734,070	4,333,600	0.34
Others	5,168,833	2,047,913	0.40

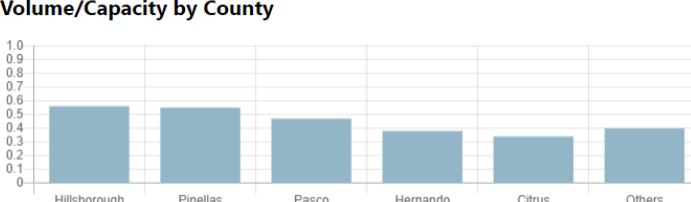
Volume/Capacity by Facility Type

Facility Type	Capacity	Volume	Volume/Capacity
Freeway	54,049,225	35,299,438	0.65
Divided Arterial	165,506,045	110,448,886	0.67
Undivided Arterial	39,920,345	19,594,162	0.49
Collector	94,118,869	28,005,294	0.30
One Way Facility	20,382,088	9,818,092	0.48
Ramps	12,955,559	4,960,661	0.38
Toll Facilities	20,507,487	6,228,866	0.30

Volume/Capacity by Area Type

Area Type	Capacity	Volume	Volume/Capacity
11: Urbanized Area (over 500,000) Primary City CBD	14,976,157	7,248,934	0.48
13: Other Urbanized Area CBD and Small City Downtown	289,926	111,902	0.39
14: Non-Urbanized Area Small City Downtown	619,444	359,712	0.58
21: All CBD Fringe Areas	12,201,864	4,894,093	0.40
31: Developed Portions of Urbanized Areas	225,365,053	108,715,227	0.48
32: Undeveloped Portions of Urbanized Areas	9,164,754	3,990,353	0.44
33: Transitioning Areas/Urban Areas over 5,000 Population	9,820,690	3,005,652	0.31
34: Residential Beach Area	2,071,219	988,794	0.48
41: Major Outlying Business Districts	11,974,871	7,076,753	0.59
42: Other Outlying Business Districts	108,240,366	72,101,745	0.67
43: Beach OBD	2,171,514	1,522,074	0.70
51: Developed Rural Areas/Small Cities under 5,000 Population	4,750,618	786,453	0.17
52: Undeveloped Rural Areas	19,273,598	3,553,706	0.18

Volume/Capacity by County



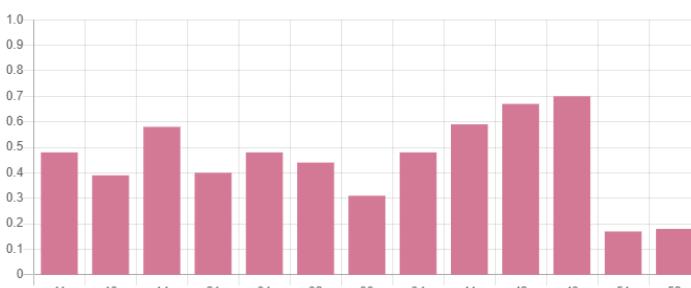
County	Volume/Capacity
Hillsborough	0.56
Pinellas	0.55
Pasco	0.47
Hernando	0.38
Citrus	0.34
Others	0.40

Volume/Capacity by Facility Type



Facility Type	Volume/Capacity
Freeway	0.65
Divided Arterial	0.67
Undivided Arterial	0.49
Collector	0.30
One Way Facility	0.48
Ramps	0.38
Toll Facilities	0.30

Volume/Capacity by Area Type



Area Type	Volume/Capacity
11	0.48
13	0.39
14	0.58
21	0.44
31	0.48
32	0.44
33	0.31
34	0.45
41	0.59
42	0.67
43	0.68
51	0.17
52	0.18



HTML Report – Highway Validation

- VOL/CNT & RMSE**
 - >User can review the volume/count results by county
 - User can review the RMSE results by county and volume group.
 - User can compare the results in the bar charts.
 - User can review the results by county in the map.
- VOL/CNT by Corridor**
 - User can review volume/count by corridor.
 - User can compare the results in the bar charts.
- VOL/CNT by FT & AT**
 - User can review volume/count by facility type and area type.
 - User can compare the results in the bar charts.

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- VOL/CNT by FT & AT

Volume/Count by County

County	Count	Volume	Volume/Count
Hillsborough	28,851,107	28,080,454	0.97
Pinellas	14,936,563	14,971,459	1.00
Pasco	4,306,242	3,851,498	0.89
Hernando	1,921,740	2,133,759	1.11
Citrus	1,194,004	1,243,065	1.04
Others	667,000	771,712	1.16
Overall	51,876,656	51,052,947	0.98

RMSE by Volume Group

Study Area	Hillsborough	Pinellas	Pasco	Hernando	Citrus	Others
<5k	87.10	89.06	65.25	94.28	103.92	96.53
5k-10k	51.41	38.41	36.44	35.98	48.39	63.11
10k-15k	35.77	33.00	33.38	19.76	20.36	19.16
15k-20k	26.17	20.79	27.88	27.30	42.60	13.97
20k-30k	21.16	20.63	17.55	11.06	NA	43.22
30k-50k	19.35	15.91	14.63	NA	NA	17.04
50k-60k	12.77	11.58	NA	NA	NA	11.96
60k+	14.89	7.27	NA	NA	NA	13.65
Areawide	36.61	29.26	33.37	45.10	55.35	41.19
						35.48

Volume/Count by County

RMSE by County

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Main Corridor Map

Highway Validation by Corridor

Corridor	Count	Volume	Volume/Count
I-275	10,811,595	13,084,473	1.05
US 19	5,470,997	5,517,356	1.02
I-4	1,840,010	1,852,362	1.01
I-75	1,714,505	1,702,701	0.99
US 301	1,178,101	1,098,300	0.93
Dale Mabry Hwy	1,022,003	893,752	0.87
Hillsborough Ave / SR 580	1,015,005	903,080	0.89
Leroy Selmon Crosstown Expwy / SR 618	842,801	653,023	0.77
SR 54	770,499	612,959	0.80
McMullen-Booth Rd	719,000	633,398	0.88
Ulmerston Rd	664,998	763,081	1.15
Other	544,169	544,169	1.00

Summary Index

Highway Validation by Facility Type

Facility Type	Count	Volume	Volume/Count
Freeway	10,416,017	10,553,996	1.01
Divided Arterial	23,488,514	23,569,994	1.00
Undivided Arterial	4,373,404	4,222,655	0.97
Collector	7,405,962	6,160,596	0.83
One Way Facility	1,549,053	1,988,159	1.28
Ramps	2,969,205	3,116,354	1.05
Toll Facilities	1,672,501	1,441,194	0.86
Overall	51,876,656	51,052,947	0.98

Highway Validation by Facility Type (Volume over Count)

Highway Validation by Area Type

Area Type	Count	Volume	Volume/Count
11: Urbanized Area (over 500,000) Primary City CBD	1,629,008	2,132,041	1.31
13: Other Urbanized Area CBD and Small City Downtown	42,300	19,402	0.46
14: Non-Urbanized Area Small City Downtown	167,201	157,237	0.94
21: All CBD Fringe Areas	1,650,500	1,622,520	0.98
31: Developed Portions of Urbanized Areas	28,509,843	27,559,880	0.96
32: Undeveloped Portions of Urbanized Areas	831,199	814,834	0.98
33: Transitioning Areas/Urban Areas over 5,000 Population	528,207	610,504	1.16
34: Residential Beach Area	245,607	299,810	1.22
41: Major Outlying Business Districts	1,823,652	1,767,810	0.97
42: Other Outlying Business Districts	14,781,037	14,459,426	0.98
43: Beach OBD	299,102	405,749	1.36
51: Developed Rural Areas/Small Cities under 5,000 Population	415,398	409,420	0.99
52: Undeveloped Rural Areas	953,602	1,094,214	1.15
Overall	51,876,656	51,052,947	0.98

Highway Validation by Area Type (Volume over Count)