



# NERPMAB1v2 Training

June 2016

# Acknowledgement



## The North Florida TPO

thanks those agencies and consultants for the collaborative efforts in the enhancement and successful release of the NERPMAB1v2.

- Florida Department of Transportation – District Two
- HDR
- RSG



# Overview of Training

## Additions to NERPMAB1v2

- System Requirements
- Scenario Application
- Generate or Edit Parcel Application
- Select Link Analysis
- Wiki & Support





# System Requirements

# System Requirements

## SOFTWARE

- Cube version 6.1.1 with Cluster
- ArcGIS version 10.2 or higher
- Python
- R

## COMPUTER SYSTEM

- Cores
  - Minimum 4
  - Ideally 32
- Space
  - Minimum 100GB
  - Ideally 1TB
- Memory
  - Minimum 8GB RAM
  - Ideally 32GB





# Scenario Application

# Overview of Training

## Application Tools for the following four steps:

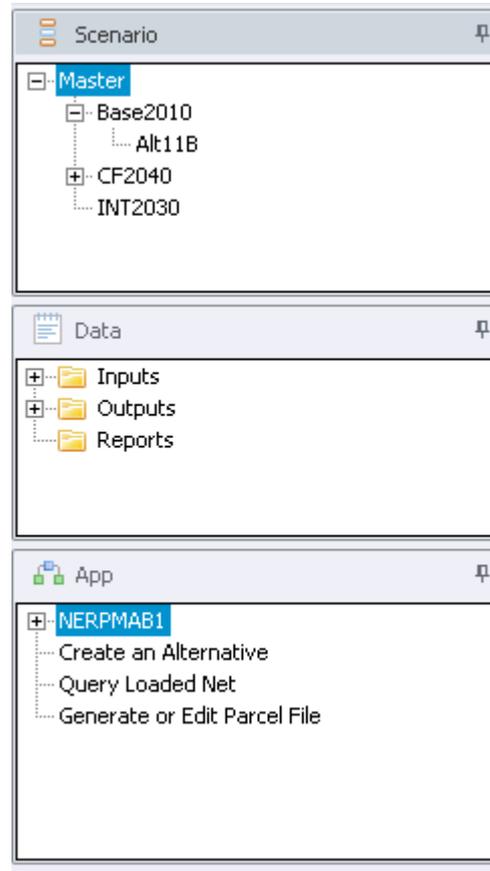
1. **Add child in Cube**
2. Add folders and copy input data files
3. Update highway network
4. Generate or edit parcel file



# Scenario Application

*Add Child in Cube*

## Master & Children



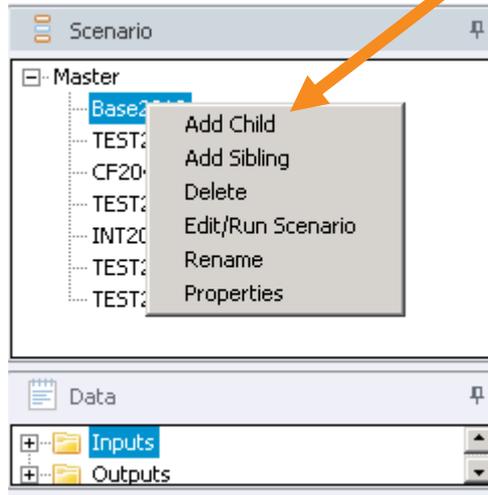
# Scenario Application

## *Add Child in Cube*

### Master & Children

- Base2010
  - Alt11B
- CF2040
- INT2030

Right click on scenario (Base2010) and select "Add Child"

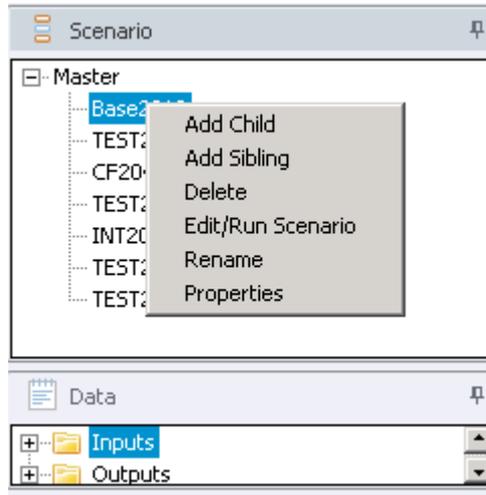


# Scenario Application

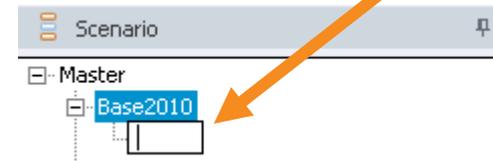
## Add Child in Cube

### Master & Children

- Base2010 ←
- Alt11B
- CF2040
- INT2030

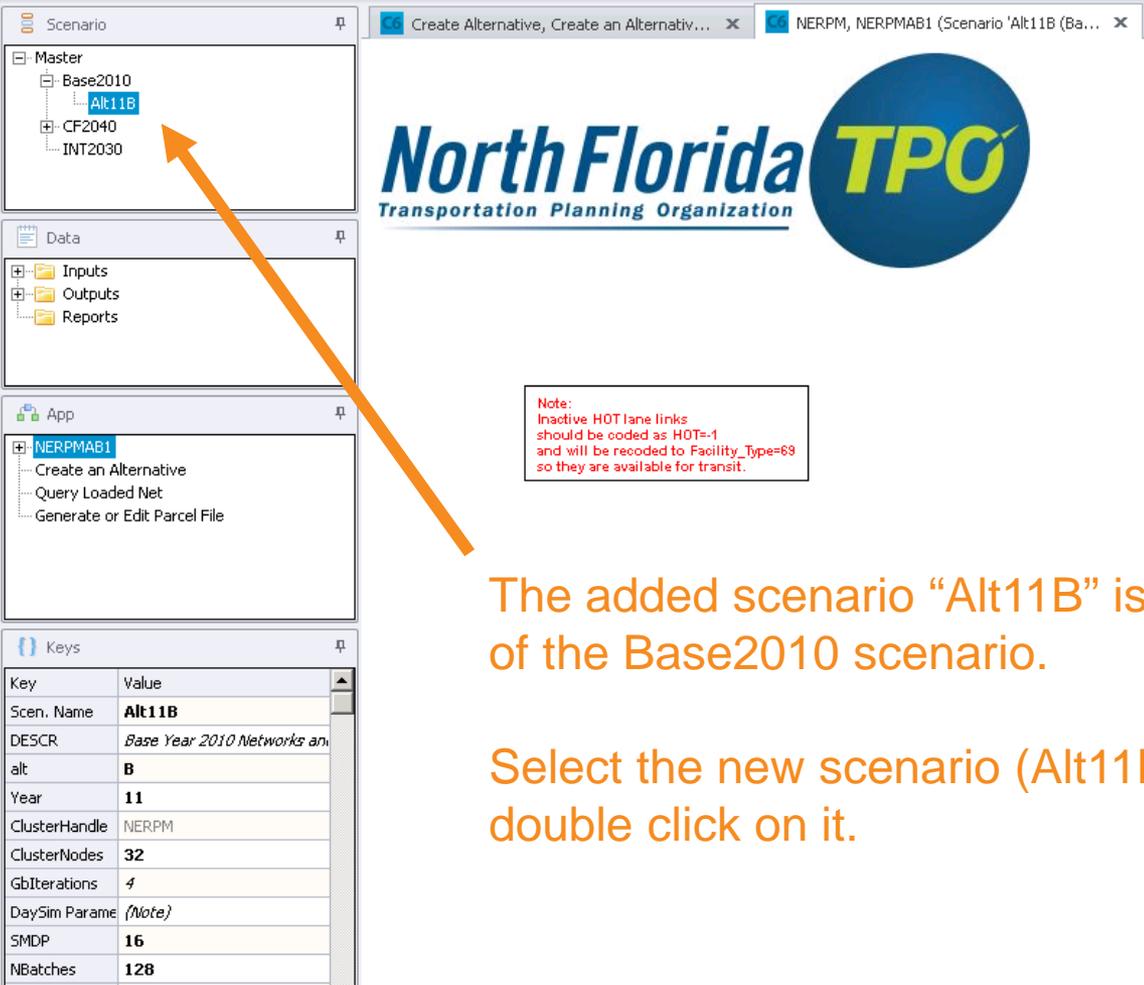


Type in name (Alt11B)



# Scenario Application

## Add Child in Cube



Scenario

- Master
  - Base2010
    - Alt11B
  - CF2040
  - INT2030

Data

- Inputs
- Outputs
- Reports

App

- NERPMAB1
  - Create an Alternative
  - Query Loaded Net
  - Generate or Edit Parcel File

Keys

Key	Value
Scen. Name	Alt11B
DESCR	Base Year 2010 Networks and
alt	B
Year	11
ClusterHandle	NERPM
ClusterNodes	32
GbIterations	4
DaySim Param	(Note)
SMDP	16
NBatches	128

**North Florida TPO**  
Transportation Planning Organization

Note:  
Inactive HOT lane links  
should be coded as H0T=-1  
and will be recoded to Facility\_Type=69  
so they are available for transit.

The added scenario "Alt11B" is a child of the Base2010 scenario.

Select the new scenario (Alt11B) and double click on it.



# Scenario Application

## Add Child in Cube

Change keys year 11 alternative B and save.

Scenario

- Master
  - Base2010
    - Alt11B
  - CF2040
  - INT2030
- Data
  - Inputs
  - Outputs
  - Reports
- App
  - NERPMB1
    - Create an Alternative
    - Query Loaded Net
    - Generate or Edit Parcel File
- Keys

Key	Value
Scen. Name	Alt11B
DESCR	Base Year 2010 Networks and SE Data
alt	B
Year	11
ClusterHandle	NERPMB1
ClusterNodes	32
GbIterations	4
DaySim Param	(Note)
SMDP	16
NBatches	128
TAZIndexFile	E:\...\_jax_taz_indexes.dat
ParcelFile	E:\...\buffered_parcel.dat
HouseholdFile	E:\...\household.dat
PersonFile	E:\...\person.dat
WorkerIOFile	_jax_worker_frictions.dat
ParkAndRide	E:\...\_jax_p_rNodes.dat
DSRosterFile	E:\...\roster_jax.csv

Model Description

Alternative Letter (1 Character)

Model Year (2 digits)

ClusterHandle

Number of CPUs (for Cube Cluster Function)

Global Feedback Iterations

**DaySim Parameters (Users should adjust these values correspondingly)**

Half of Number of CPUs (DaySim Parallel Processing Parameters)

4 times of CPUs (DaySim Parallel Processing Parameters)

DaySim TAZ Index (Do not begin file name with f, n or r)

DaySim parcels (Do not begin file name with f, n or r)

DaySim HH File (Do not begin file name with f, n or r)

DaySim Person File (Do not begin file name with f, n or r)

WorkerIOFile

ParkAndRide

Availability of Mode

DSRosterCombinationFile

Employment

SeedShadowFile

Check box below if there are changes in employment distribution and you are running the scenario the first time

Update Shadow Price

**User-specified Values**

**PROFILE.MAS Entries (Not Normally Changed)**

Maximum internal zone number

Maximum external zone number

ZONESA1

CBD Zone for Reporting

Nearest Zones to Average for Intrazonal Time

Maximum Iterations In Gravity Model

Maximum Equilibrium Assignment iterations



# Questions?

**Support email: [NERPM\\_Support@rsginc.com](mailto:NERPM_Support@rsginc.com)**



NORTHEAST REGIONAL  
PLANNING MODEL:  
ACTIVITY BASED



[Blog](#)

CHILD PAGES

[NERPM Home Page](#)

[SUPPORT](#)

[Pages / NERPM Home Page](#)

## SUPPORT

Created by Stephen Lawe, last modified on Sep 16, 2015

For support, please first check "[Frequently Asked Questions](#)". If additional information is needed, please click the link below.

[NERPM\\_Support@rsginc.com](mailto:NERPM_Support@rsginc.com)

Thank you very much.



# Scenario Application

## Application Tools for the following four steps:

1. Add child in Cube
- 2. Add folders and copy input data files**
3. Update highway network
4. Generate or edit parcel file



# Scenario Application

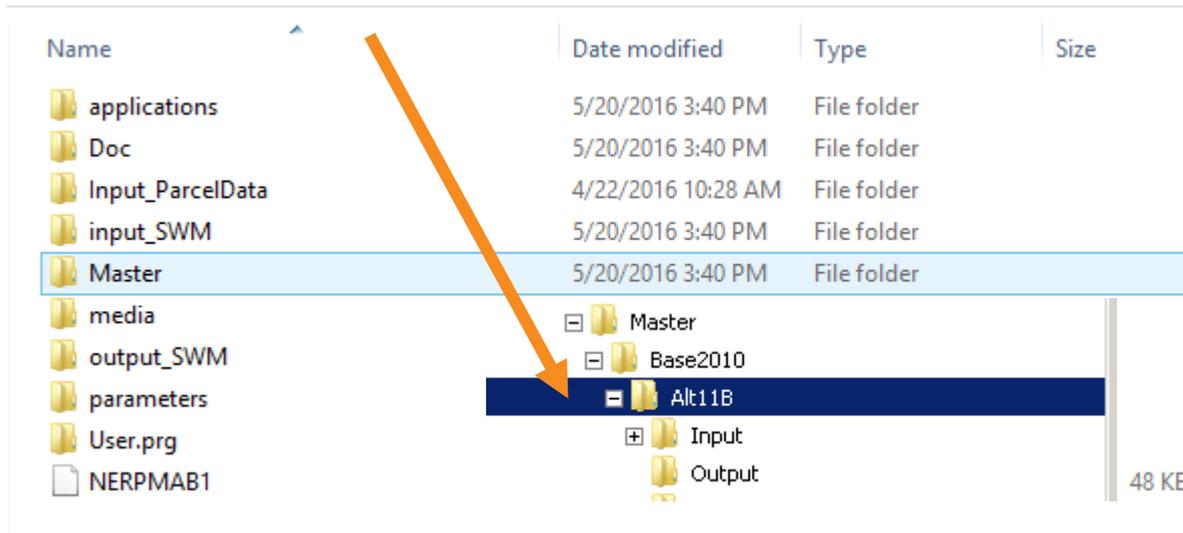
Add Folders and Copy Input Data Files

Files and folders need to be managed in two places: (1) within the scenario directory of Cube and (2) within the folder structure on the drive where the data resides.

## Master

- Base2010
  - Alt11B
- CF2040
- INT2030

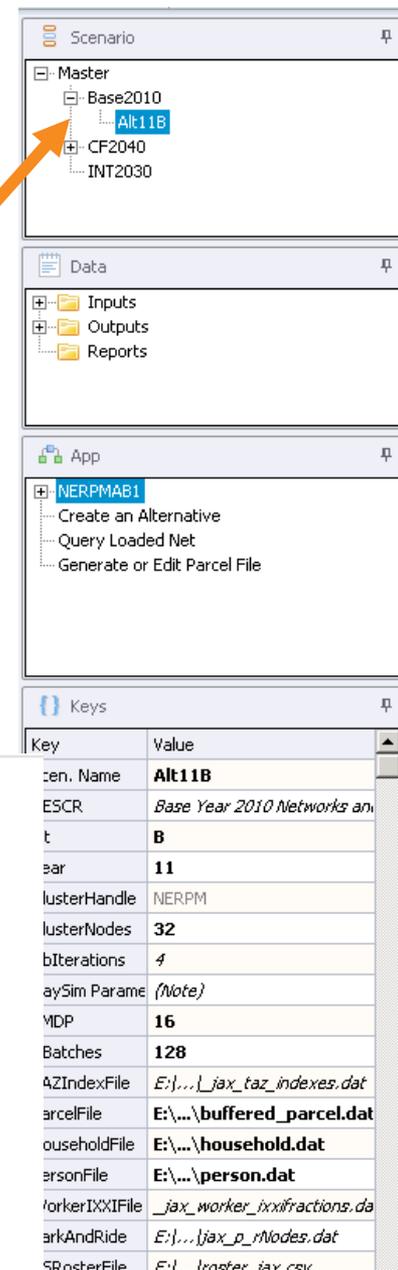
## Folder Structure



Name	Date modified	Type	Size
applications	5/20/2016 3:40 PM	File folder	
Doc	5/20/2016 3:40 PM	File folder	
Input_ParcelData	4/22/2016 10:28 AM	File folder	
input_SWM	5/20/2016 3:40 PM	File folder	
<b>Master</b>	5/20/2016 3:40 PM	File folder	
media			
output_SWM			
parameters			
User.prg			
NERPMAB1			

Name	Date modified	Type	Size
Master			
Base2010			
<b>Alt11B</b>			
Input			
Output			



Scenario

- Master
  - Base2010
    - Alt11B
  - CF2040
  - INT2030

Data

- Inputs
- Outputs
- Reports

App

- NERPMAB1
  - Create an Alternative
  - Query Loaded Net
  - Generate or Edit Parcel File

Keys

Key	Value
cen. Name	Alt11B
ESCR	Base Year 2010 Networks and
t	B
ear	11
lusterHandle	NERPM
lusterNodes	32
bIterations	4
aySim Param	(Note)
MDP	16
Batches	128
4ZIndexFile	E:\...\_jax_taz_indexes.dat
parcelFile	E:\...\buffered_parcel.dat
ouseholdFile	E:\...\household.dat
ersonFile	E:\...\person.dat
orkerIXXIFile	_jax_worker_ixxifractions.da
arkAndRide	E:\...\jax_p_rNodes.dat
SRocherFile	E:\...\rocher_jax.csv

# Scenario Application

## Add Folders and Copy Input Data Files

**NERPM-AB v1.0**  
**North Florida TPO**  
Transportation Planning Organization

Note:  
Inactive HOT lane links  
should be coded as H0T=1  
and will be recoded to Facility\_Type=69  
so they are available for transit.

Prepare Data Folders  
▶ Prepare DaySim PILOT  
1

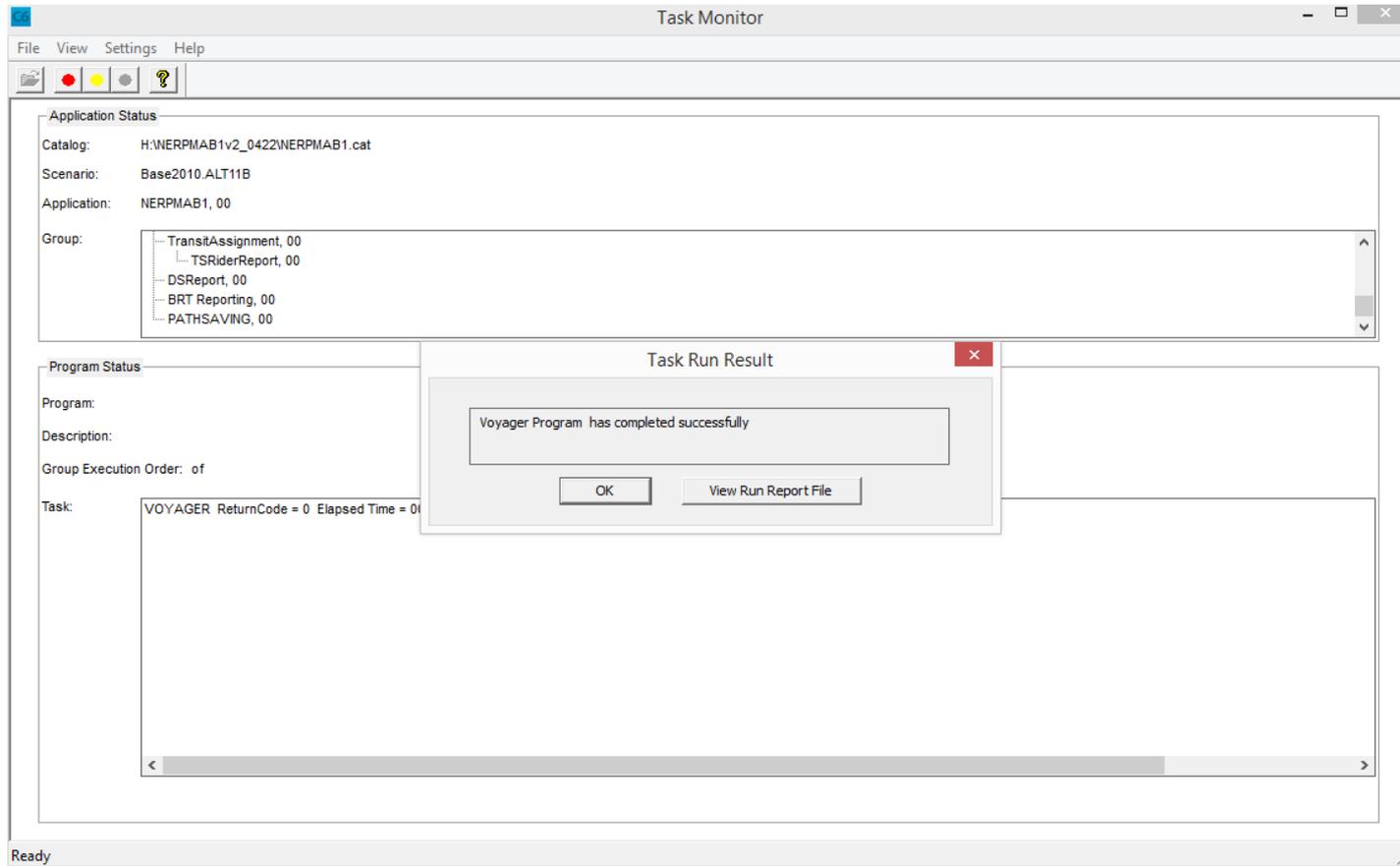
Key	Value
Scen. Name	<b>Alt11B</b>
DESCR	Base Year 2010 Networks and
alt	<b>B</b>
Year	<b>11</b>
ClusterHandle	NERPM
ClusterNodes	<b>32</b>
GbIterations	<b>4</b>
DaySim Parame	(Note)
SMDP	<b>16</b>
NBatches	<b>128</b>
TAZIndexFile	E:\...\jax_taz_indexes.dat
ParcelFile	E:\...\buffered_parcel.dat

Next, double click on NERPMAB1 and then double click on Pilot which will prepare the data folders for the new scenario (Alt11B).



# Scenario Application

*Add Folders and Copy Input Data Files*



# Scenario Application

## *Add Folders and Copy Input Data Files*

The application added the folders in Windows Explorer.

### Folder Structure

Name	Date modified	Type	Size
applications	5/20/2016 3:40 PM	File folder	
Doc	5/20/2016 3:40 PM	File folder	
Input_ParcelData	4/22/2016 10:28 AM	File folder	
input_SWM	5/20/2016 3:40 PM	File folder	
Master	5/20/2016 3:40 PM	File folder	
media	5/20/2016 3:41 PM	File folder	
output_SWM	5/20/2016 3:41 PM	File folder	
parameters	5/20/2016 3:41 PM	File folder	
User.prg	5/20/2016 3:41 PM	File folder	
NERPMAB1	5/20/2016 3:44 PM	Security Catalog	48 KB

The screenshot shows the folder structure in Windows Explorer. The top pane displays a list of folders and files. The 'Master' folder is selected. The bottom pane shows the expanded view of the 'Master' folder, which contains a sub-folder 'Base2010'. Inside 'Base2010' is a folder named 'Alt118', which contains two sub-folders: 'Input' and 'Output'. An orange arrow points from the 'Master' folder in the top pane to the 'Alt118' folder in the bottom pane.



# Scenario Application

## Add Folders and Copy Input Data Files

### Rename file extensions – 10A to 11B

Master > Base2010 > ALT11B > Input

Name	Date modified	Type	Size
DaySimInput	6/14/2016 8:41 AM	File folder	
BRTREP_10A	3/10/2015 11:53 AM	DAT File	4 KB
DEFAULT.VPR	3/10/2015 11:53 AM	VPR File	1 KB
EETRIPS	3/10/2015 11:53 AM	DBF File	21 KB
EITRIPS_10A	3/10/2015 11:53 AM	DBF File	11 KB
EXTAOFAC	3/10/2015 11:53 AM	DBF File	54 KB
FF	3/10/2015 11:53 AM	DBF File	18 KB
FF_RURAL	3/10/2015 11:53 AM	DBF File	18 KB
HOTEL_MOTEL_TAZ_SUMMARY	3/10/2015 11:53 AM	Text Document	2 KB
MVFACTORS.10A	3/10/2015 11:53 AM	10A File	15 KB
MVFACTORSADJ.10A	3/10/2015 11:53 AM	10A File	15 KB
PCWALK_10A	3/10/2015 11:53 AM	DAT File	77 KB
RIVERCROSS	3/10/2015 11:53 AM	Microsoft Excel C...	18 KB
SCH_10A	4/13/2016 4:15 PM	DBF File	37 KB
SPDCAP.10A	3/10/2015 11:53 AM	10A File	268 KB
SPGEN_10A	3/10/2015 11:53 AM	DBF File	12 KB
STATREP_10A	3/10/2015 11:53 AM	DAT File	3 KB
TCARDS_10A.PEN	3/10/2015 11:53 AM	PEN File	20 KB
TERMTIME	3/10/2015 11:53 AM	Microsoft Excel C...	2 KB
TFARES_10A.FAR	3/10/2015 11:53 AM	FAR File	2 KB
TLINKS	3/10/2015 11:53 AM	DBF File	1 KB
TOLLINK.10A	3/10/2015 11:53 AM	10A File	1 KB
TROUTE_10A.LIN	3/10/2015 11:53 AM	LIN File	239 KB
TSPDS	3/10/2015 11:53 AM	Microsoft Excel C...	0 KB
VFACTORS.10A	3/10/2015 11:53 AM	10A File	8 KB
ZDATA_10A	3/10/2015 11:53 AM	DBF File	2,181 KB
ZDATA1_10A1	4/13/2016 4:15 PM	DBF File	416 KB
ZDATA1_10A2	3/21/2016 9:08 AM	DBF File	518 KB
ZDATA1UPDATE_10A	4/22/2016 10:22 AM	DBF File	1 KB



# Scenario Application

## Add Folders and Copy Input Data Files – Child versus Sibling

The screenshot displays the Scenario Application interface with several windows open. The top window shows the 'Scenario - CF2040' configuration, and the bottom window shows 'Scenario - CF22040'. Both windows have a 'DaySim Parameters' section with the following values:

Parameter	Value
Model Description	Cost Feasible Year 2040
Alternative Letter (1 Character)	C
Model Year (2 digits)	40
ClusterHandle	NERPM
Number of CPUs (for Cube Cluster Function)	8
Global Feedback Iterations	4
Half of Number of CPUs (DaySim Paralle Processing Parameters)	4
4 times of CPUs (DaySim Parallel Processing Parameters)	32
DaySim TAZ Index (Do not begin file name with f, n or r)	H:\NERPMAB 1v2_0422\Master\CF2040\input\DaySimInput\01_TAZ_Index\jax_taz_indexes.dat
DaySim parcels (Do not begin file name with f, n or r)	H:\NERPMAB 1v2_0422\Master\CF2040\input\DaySimInput\02_Parcel\buffered_parcel_2040.dat
DaySim HH File (Do not begin file name with f, n or r)	H:\NERPMAB 1v2_0422\Master\CF2040\input\DaySimInput\03_Household\household_2040.dat
DaySim Person File (Do not begin file name with f, n or r)	H:\NERPMAB 1v2_0422\Master\CF2040\input\DaySimInput\04_Person\person_2040.dat

Additional parameters in the bottom window include:

Parameter	Value
WorkerIXIFile	H:\NERPMAB 1v2_0422\Master\CF2040\Z2040\input\DaySimInput\05_ixi\jax_worker_ixifractions.dat
ParkAndRide	H:\NERPMAB 1v2_0422\Master\CF2040\Z2040\input\DaySimInput\05_pnr\jax_p_rNodes2040C.dat
Availability of Mode	H:\NERPMAB 1v2_0422\Master\CF2040\Z2040\input\DaySimInput\06_Roster\roster_jax.csv
DSRosterCombinationFile	H:\NERPMAB 1v2_0422\Master\CF2040\Z2040\input\DaySimInput\06_Roster\yoster_combinations_2040.csv
Employment	H:\NERPMAB 1v2_0422\Master\CF2040\Z2040\input\DaySimInput\02_Parcel\emp_2040.dbf
SeedShadowFile	H:\NERPMAB 1v2_0422\Master\CF2040\Z2040\input\DaySimInput\09_SeedShadow\shadow_prices_40C.txt

The left sidebar shows a tree view of scenarios: Master > Base2010 > CF2040 > Z2040. An orange arrow points from the text 'Z2040 is a child of CF2040' to the Z2040 folder in the tree. Another orange arrow points from the same text to the 'Z2040' folder in the bottom window's tree view.

Z2040 is a child of CF2040



# Scenario Application

## Add Folders and Copy Input Data Files – Child versus Sibling

Z2040 is a child of CF2040

### Rename file extensions – 40C to 40Z

Master > CF2040 > Z2040 > Input

Name	Date modified	Type	Size
DaySimInput	6/14/2016 8:56 AM	File folder	
BRTREP_40C	12/6/2013 9:21 AM	DAT File	4 KB
DEFAULT.VPR	12/6/2013 9:21 AM	VPR File	1 KB
EETRIPS	11/7/2014 4:30 PM	DBF File	21 KB
EITRIPS_40C	11/18/2014 9:14 AM	DBF File	11 KB
EXTAOFAC	12/6/2013 9:21 AM	DBF File	5 KB
FF	12/6/2013 9:21 AM	DBF File	18 KB
FF_RURAL	12/6/2013 9:21 AM	DBF File	18 KB
HOTEL_MOTEL_TAZ_SUMMARY	12/6/2013 9:21 AM	Text Document	2 KB
MVFACTORS.40C	12/6/2013 9:21 AM	40C File	15 KB
MVFACTORSADJ.40C	12/6/2013 9:21 AM	40C File	15 KB
PCWALK_40C	2/26/2015 12:40 PM	DAT File	77 KB
RIVERCROSS	12/6/2013 9:21 AM	Microsoft Excel C...	18 KB
SCH_40C	4/20/2016 7:38 PM	DBF File	37 KB
SPDCAP.40C	1/27/2015 3:31 PM	40C File	268 KB
SPGEN_40C	12/6/2013 9:21 AM	DBF File	12 KB
STATREP_40C	11/2/2014 7:05 PM	DAT File	4 KB
TCARDS_40C.PEN	3/7/2015 3:29 PM	PEN File	20 KB
TERMTIME	12/6/2013 9:21 AM	Microsoft Excel C...	2 KB
TFARES_40C.FAR	6/19/2014 3:23 PM	FAR File	2 KB
TLINKS	12/6/2013 9:21 AM	DBF File	1 KB
TOLLLINK.40C	12/6/2013 9:21 AM	40C File	1 KB
TROUTE_40C	6/9/2015 3:18 PM	BAK File	198 KB
TROUTE_40C.LIN	4/22/2016 12:04 AM	LIN File	198 KB
TSPDS	12/6/2013 9:21 AM	Microsoft Excel C...	0 KB
VFACTORS.40C	12/6/2013 9:21 AM	40C File	8 KB
ZDATA_40C	11/25/2014 10:40 ...	DBF File	2,183 KB
ZDATA_40C.TAZ.atx	1/26/2015 9:43 AM	ATX File	32 KB
ZDATA1_40C1	4/20/2016 7:38 PM	DBF File	416 KB
ZDATA1_40C2	3/21/2016 9:15 AM	DBF File	518 KB
ZDATA1UPDATE_40C	4/20/2016 7:38 PM	DBF File	37 KB



# Scenario Application

## Add Folders and Copy Input Data Files – Child versus Sibling

**Scenario - CF2040 (Application)**

Model Description: Cost Feasible Year 2040

Alternative Letter (1 Character): C

Model Year (2 digits): 40

ClusterHandle: NERPM

Number of CPUs (for Cube Cluster Function): 8

Global Feedback Iterations: 4

**DaySim Parameters (Users should adjust these values correspondingly)**

Half of Number of CPUs (DaySim Parallel Processing Parameters): 4

4 times of CPUs (DaySim Parallel Processing Parameters): 32

DaySim TAZ Index (Do not begin file name with f, n or r): H:\NERPMAB\1v2\_0422\Master\CF2040\Input\DaySimInput\01\_TAZ\_Index\jax\_taz\_indexes.dat

DaySim parcels (Do not begin file name with f, n or r): H:\NERPMAB\1v2\_0422\Master\CF2040\Input\DaySimInput\02\_Parcel\buffered\_parcel\_2040.dat

DaySim HH File (Do not begin file name with f, n or r): H:\NERPMAB\1v2\_0422\Master\CF2040\Input\DaySimInput\03\_Household\household\_2040.dat

DaySim Person File (Do not begin file name with f, n or r): H:\NERPMAB\1v2\_0422\Master\CF2040\Input\DaySimInput\04\_Person\person\_2040.dat

WorkerIXIFile: H:\NERPMAB\1v2\_0422\Master\CF2040\Input\DaySimInput\05\_ixi\jax\_worker\_ixifractions.dat

**Scenario - Y2040 (Application)**

Model Description: Enhanced Validation Run with 2010 Transit

Alternative Letter (1 Character): A

Model Year (2 digits): 10

ClusterHandle: NERPM

Number of CPUs (for Cube Cluster Function): 8

Global Feedback Iterations: 4

**DaySim Parameters (Users should adjust these values correspondingly)**

Half of Number of CPUs (DaySim Parallel Processing Parameters): 4

4 times of CPUs (DaySim Parallel Processing Parameters): 32

DaySim TAZ Index (Do not begin file name with f, n or r): H:\NERPMAB\1v2\_0422\Master\Y2040\Input\DaySimInput\01\_TAZ\_Index\jax\_taz\_indexes.dat

DaySim parcels (Do not begin file name with f, n or r): H:\NERPMAB\1v2\_0422\Master\Y2040\Input\DaySimInput\02\_Parcel\buffered\_parcel\_2010.dat

DaySim HH File (Do not begin file name with f, n or r): H:\NERPMAB\1v2\_0422\Master\Y2040\Input\DaySimInput\03\_Household\household\_2010.dat

DaySim Person File (Do not begin file name with f, n or r): H:\NERPMAB\1v2\_0422\Master\Y2040\Input\DaySimInput\04\_Person\person\_2010.dat

WorkerIXIFile: H:\NERPMAB\1v2\_0422\Master\Y2040\Input\DaySimInput\05\_ixi\jax\_worker\_ixifractions.dat

ParkAndRide: H:\NERPMAB\1v2\_0422\Master\Y2040\Input\DaySimInput\06\_pnr\jax\_p\_rNodes.dat

Availability of Mode: H:\NERPMAB\1v2\_0422\Master\Y2040\Input\DaySimInput\06\_Roster\roster\_jax.csv

DSRosterCombinationFile: H:\NERPMAB\1v2\_0422\Master\Y2040\Input\DaySimInput\06\_Roster\roster.combinations\_jax.csv

Employment: H:\NERPMAB\1v2\_0422\Master\Y2040\Input\DaySimInput\02\_Parcel\emp\_2010.dbf

SeedShadowFile: H:\NERPMAB\1v2\_0422\Master\Y2040\Input\DaySimInput\09\_SeedShadow\shadow\_prices\_10A.txt

Check box below if there are changes in employment distribution and you are running the scenario the first time

Y2040 is a sibling of CF2040



# Scenario Application

## Add Folders and Copy Input Data Files – Child versus Sibling

Delete the 2010 files and replace with 2040 files

Y2040 is a sibling of CF2040

Master > Y2040 > Input

Name	Date modified	Type	Size
DaySimInput	6/14/2016 8:58 AM	File folder	
BRTREP_10A	3/10/2015 11:53 AM	DAT File	4 KB
DEFAULT.VPR	3/10/2015 11:53 AM	VPR File	1 KB
EETRIPS	3/10/2015 11:53 AM	DBF File	21 KB
EITRIPS_10A	3/10/2015 11:53 AM	DBF File	11 KB
EXTAOFAC	3/10/2015 11:53 AM	DBF File	54 KB
FF	3/10/2015 11:53 AM	DBF File	18 KB
FF_RURAL	3/10/2015 11:53 AM	DBF File	18 KB
HOTEL_MOTEL_TAZ_SUMMARY	3/10/2015 11:53 AM	Text Document	2 KB
MVFACTORS.10A	3/10/2015 11:53 AM	10A File	15 KB
MVFACTORSADJ.10A	3/10/2015 11:53 AM	10A File	15 KB
PCWALK_10A	3/10/2015 11:53 AM	DAT File	77 KB
RIVERCROSS	3/10/2015 11:53 AM	Microsoft Excel C...	18 KB
SCH_10A	4/13/2016 4:15 PM	DBF File	37 KB
SPDCAP.10A	3/10/2015 11:53 AM	10A File	268 KB
SPGEN_10A	3/10/2015 11:53 AM	DBF File	12 KB
STATREP_10A	3/10/2015 11:53 AM	DAT File	3 KB
TCARDS_10A.PEN	3/10/2015 11:53 AM	PEN File	20 KB
TERMTIME	3/10/2015 11:53 AM	Microsoft Excel C...	2 KB
TFARES_10A.FAR	3/10/2015 11:53 AM	FAR File	2 KB
TLINKS	3/10/2015 11:53 AM	DBF File	1 KB
TOLLINK.10A	3/10/2015 11:53 AM	10A File	1 KB
TROUTE_10A.LIN	3/10/2015 11:53 AM	LIN File	239 KB
TSPDS	3/10/2015 11:53 AM	Microsoft Excel C...	0 KB
VFACTORS.10A	3/10/2015 11:53 AM	10A File	8 KB
ZDATA_10A	3/10/2015 11:53 AM	DBF File	2,181 KB
ZDATA1_10A1	4/13/2016 4:15 PM	DBF File	416 KB
ZDATA1_10A2	3/21/2016 9:08 AM	DBF File	518 KB
ZDATA1UPDATE_10A	4/22/2016 10:22 AM	DBF File	1 KB



# Questions?

**Support email: [NERPM\\_Support@rsginc.com](mailto:NERPM_Support@rsginc.com)**



NORTHEAST REGIONAL  
PLANNING MODEL:  
ACTIVITY BASED



[Blog](#)

CHILD PAGES

[NERPM Home Page](#)

[SUPPORT](#)

[Pages / NERPM Home Page](#)

## SUPPORT

Created by Stephen Lawe, last modified on Sep 16, 2015

For support, please first check "[Frequently Asked Questions](#)". If additional information is needed, please click the link below.

[NERPM\\_Support@rsginc.com](mailto:NERPM_Support@rsginc.com)

Thank you very much.



# Overview of Training

## Application Tools for the following four steps:

1. Add child in Cube
2. Add folders and copy input data files
3. **Update highway network**
4. Generate or edit parcel file



# Scenario Application

## Update Highway Network

The 'Create an Alternative' application creates the attributes of the new alternative to the Master network.

The screenshot shows the Scenario Application interface. On the left, the 'App' pane lists applications, with 'Create an Alternative' selected. Below it, the 'Keys' pane shows a table of key-value pairs for the selected alternative.

Key	Value
Scen. Name	ALT11B
alt	B
Year	11
OLDALT	A
OLDYEAR	10

On the right, a flowchart titled 'Copy A Base Network to Create Alternative Attributes in Master Network Database' illustrates the process:

- Script File PILOT
- Data File TRCOPY Data File
- Copy attributes from OLDALT to ALT  
Script File NETWORK Print File  
Link/Net. 1 Network File
- Data File TRCOPY Data File



# Scenario Application

## Update Highway Network

Highlight 'Create an Alternative' and double click on the scenario (Alt11B) and specify the year (e.g. 11) and alternative (e.g. B) you want to copy and the year and alternative you want to create. Select "Run."

The screenshot displays a software interface with several panels. On the left, a 'Scenario' tree view shows a hierarchy: Master > Base2010 > Alt11B (highlighted in blue), CF2040, and INT2030. Below this is a 'Data' panel with folders for Inputs, Outputs, and Reports. The 'App' panel shows 'NERPMAB1' with 'Create an Alternative' (highlighted in blue), 'Query Loaded Net', and 'Generate or Edit Parcel File'. At the bottom left is a 'Keys' table.

Key	Value
Scen. Name	Alt11B
alt	B
Year	11
OLDALT	A

The main workspace contains the following labels and input fields:

- Alternative Letter (1 Character): B
- Model Year (2 digits): 11
- Alternative Letter (1 Character) to copy network attributes from: A
- Alternative Year (2 digits) to copy network attributes from: 10

At the bottom right, there are three buttons: Save, Close, and Run.

# Scenario Application

## Update Highway Network

The attributes for alternative 11B are added to the **Master Network**. They are copied from and identical to alternative 10A. The **Master Network** contains all the networks for all of the scenarios and alternatives in the model.

TSCOSTAM_40C	0	
TSCOSTMD_40C	0	
TSTYPE_40C	0	
FAREZONE_40C	0	
TSSTATION_30A	0	
TSRANGE_30A	0	
TSPARKSPACE_30A	0	
TSCOSTAM_30A	0	
TSCOSTMD_30A	0	
TSTYPE_30A	0	
FAREZONE_30A	0	
TSSTATION_40M	0	
TSRANGE_40M	0	
TSPARKSPACE_40M	0	
TSCOSTAM_40M	0	
TSCOSTMD_40M	0	
TSTYPE_40M	0	
FAREZONE_40M	0	
TSSTATION_11B	0	
TSRANGE_11B	0	
TSPARKSPACE_11B	0	
TSCOSTAM_11B	0	
TSCOSTMD_11B	0	
TSTYPE_11B	0	
FAREZONE_11B	0	

PMCOUNT	0	0
NTCOUNT	0	0
STNID_YR10	0	0
SCREENLINE_YR10	0	0
FTYPE_40M	50	50
ATYPE_40M	33	33
LANES_40M	1	
DESC_40M		
TWOWAY_40M	1	1
IMPROV_40M		
AGENCY_40M	0	0
BUSTFAC_40M	1	1
ECID	0	0
FTYPE_11B	50	50
ATYPE_11B	33	33
LANES_11B	1	1
TWOWAY_11B	1	1
DESC_11B		
BUSTFAC_11B	1	1
IMPROV_11B		
AGENCY_11B	0	0

# Questions?

**Support email: [NERPM\\_Support@rsginc.com](mailto:NERPM_Support@rsginc.com)**



NORTHEAST REGIONAL  
PLANNING MODEL:  
ACTIVITY BASED



[Blog](#)

CHILD PAGES



[NERPM Home Page](#)



[SUPPORT](#)

[Pages / NERPM Home Page](#)

## SUPPORT

Created by Stephen Lawe, last modified on Sep 16, 2015

For support, please first check "[Frequently Asked Questions](#)". If additional information is needed, please click the link below.

[NERPM\\_Support@rsginc.com](mailto:NERPM_Support@rsginc.com)

Thank you very much.



# Overview of Training

## Application Tools for the following four steps:

1. Add child in Cube
2. Add folders and copy input data files
3. Update highway network
4. **Generate or edit parcel file**





# Generate or edit parcel file Application

# Generate or edit parcel file Application

## Socioeconomic Data in the ABM

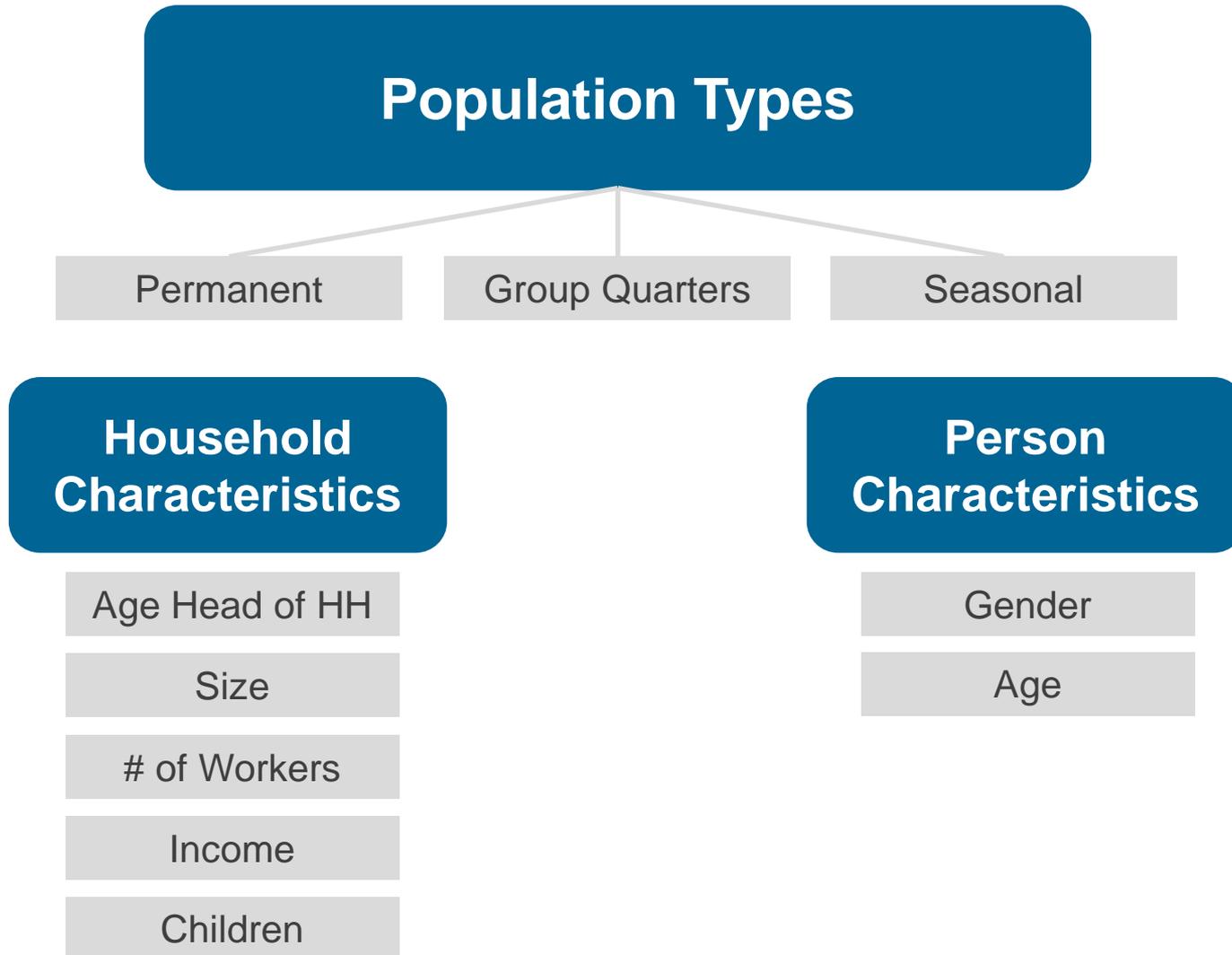
- Differences
- Locations
- Types of Files

## Generate or edit parcel file Application

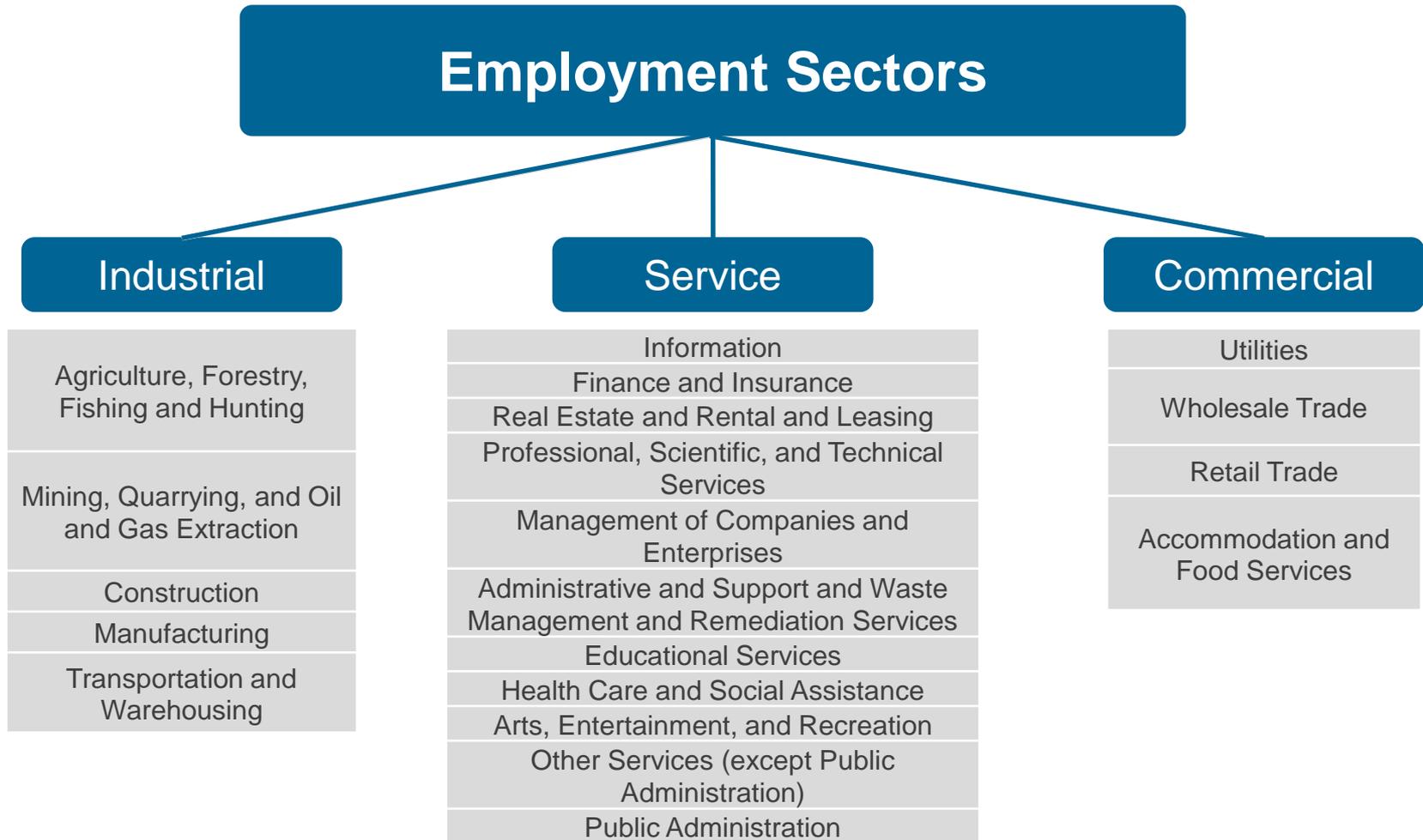
1. Generate parcel input files
2. Edit parcel input files



# Generate or edit parcel file Application



# Generate or edit parcel file Application



# Generate or edit parcel file Application

## School Enrollment

Kindergarten  
through 8<sup>th</sup> Grade

High school  
9<sup>th</sup> through 12<sup>th</sup> Grade

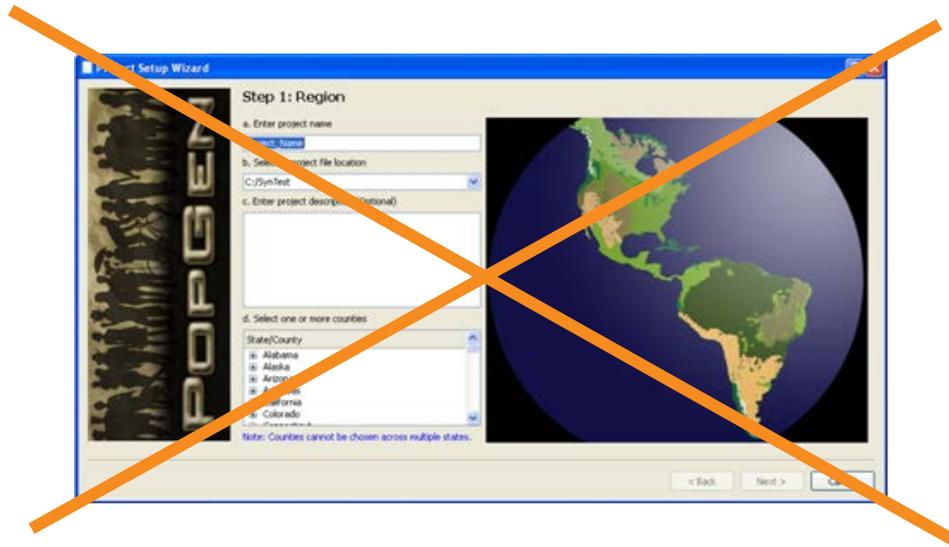
Colleges and  
Universities



# Generate or edit parcel file Application

## Parcel level geodatabase files

- Straight-lined Control Totals (2010-2040)
  - Years 2011 thru 2039 ZipFiles
  - Place ZipFile (Year of Analysis) in Input\_ParcelData Folder



# Generate or edit parcel file Application

Location geodatabase files

Input\_ParcelData > Parcels\_2011.gdb

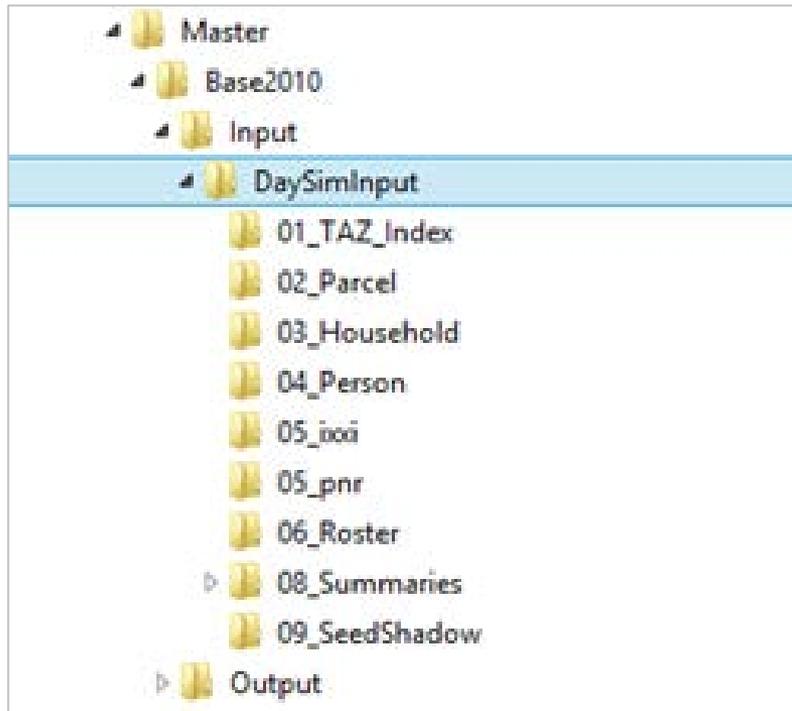
Name	Type	Compressed size	Password ...	Size	Ratio	Date modified
Parcels_2011.gdb	File folder					
Parcels_2010.gdb	Compressed (zipped) Fol...	181,081 KB	No	181,081 KB	0%	3/18/2016 6:06 PM
Parcels_2011.gdb	Compressed (zipped) Fol...	181,271 KB	No	181,271 KB	0%	3/14/2016 4:46 PM
Parcels_2012.gdb	Compressed (zipped) Fol...	180,178 KB	No	180,178 KB	0%	3/18/2016 6:11 PM
Parcels_2013.gdb	Compressed (zipped) Fol...	181,295 KB	No	181,295 KB	0%	3/14/2016 4:48 PM
Parcels_2014.gdb	Compressed (zipped) Fol...	181,295 KB	No	181,295 KB	0%	3/14/2016 4:48 PM
Parcels_2015.gdb	Compressed (zipped) Fol...	181,298 KB	No	181,298 KB	0%	3/16/2016 6:48 AM
Parcels_2016.gdb	Compressed (zipped) Fol...	181,300 KB	No	181,300 KB	0%	3/16/2016 7:55 PM
Parcels_2017.gdb	Compressed (zipped) Fol...	181,299 KB	No	181,299 KB	0%	3/16/2016 7:56 PM
Parcels_2018.gdb	Compressed (zipped) Fol...	181,277 KB	No	181,277 KB	0%	3/16/2016 8:42 PM
Parcels_2019.gdb	Compressed (zipped) Fol...	181,279 KB	No	181,279 KB	0%	3/16/2016 8:44 PM
Parcels_2020.gdb	Compressed (zipped) Fol...	181,280 KB	No	181,280 KB	0%	3/16/2016 8:45 PM
Parcels_2021.gdb	Compressed (zipped) Fol...	181,278 KB	No	181,278 KB	0%	3/16/2016 8:46 PM
Parcels_2022.gdb	Compressed (zipped) Fol...	181,278 KB	No	181,278 KB	0%	3/16/2016 8:47 PM
Parcels_2023.gdb	Compressed (zipped) Fol...	181,275 KB	No	181,275 KB	0%	3/16/2016 9:11 PM
Parcels_2024.gdb	Compressed (zipped) Fol...	181,277 KB	No	181,277 KB	0%	
Parcels_2025.gdb	Compressed (zipped) Fol...	181,403 KB	No	181,403 KB	0%	
Parcels_2026.gdb	Compressed (zipped) Fol...	181,402 KB	No	181,402 KB	0%	
Parcels_2027.gdb	Compressed (zipped) Fol...	181,404 KB	No	181,404 KB	0%	
Parcels_2028.gdb	Compressed (zipped) Fol...	181,401 KB	No	181,401 KB	0%	
Parcels_2029.gdb	Compressed (zipped) Fol...	181,395 KB	No	181,395 KB	0%	
Parcels_2030.gdb	Compressed (zipped) Fol...	181,394 KB	No	181,394 KB	0%	
Parcels_2031.gdb	Compressed (zipped) Fol...	181,393 KB	No	181,393 KB	0%	
Parcels_2032.gdb	Compressed (zipped) Fol...	181,394 KB	No	181,394 KB	0%	
Parcels_2033.gdb	Compressed (zipped) Fol...	181,366 KB	No	181,366 KB	0%	
Parcels_2034.gdb	Compressed (zipped) Fol...	181,363 KB	No	181,363 KB	0%	
Parcels_2035.gdb	Compressed (zipped) Fol...	181,348 KB	No	181,348 KB	0%	
Parcels_2036.gdb	Compressed (zipped) Fol...	181,349 KB	No	181,349 KB	0%	
Parcels_2037.gdb	Compressed (zipped) Fol...	181,343 KB	No	181,343 KB	0%	
Parcels_2038.gdb	Compressed (zipped) Fol...	181,335 KB	No	181,335 KB	0%	
Parcels_2039.gdb	Compressed (zipped) Fol...	181,324 KB	No	181,324 KB	0%	
Parcels_2040.gdb	Compressed (zipped) Fol...	182,272 KB	No	182,272 KB	0%	

applications  
Doc  
Input\_ParcelData  
Parcels\_2011.gdb  
input\_SWM  
Master  
media  
output\_SWM  
parameters  
User.prg



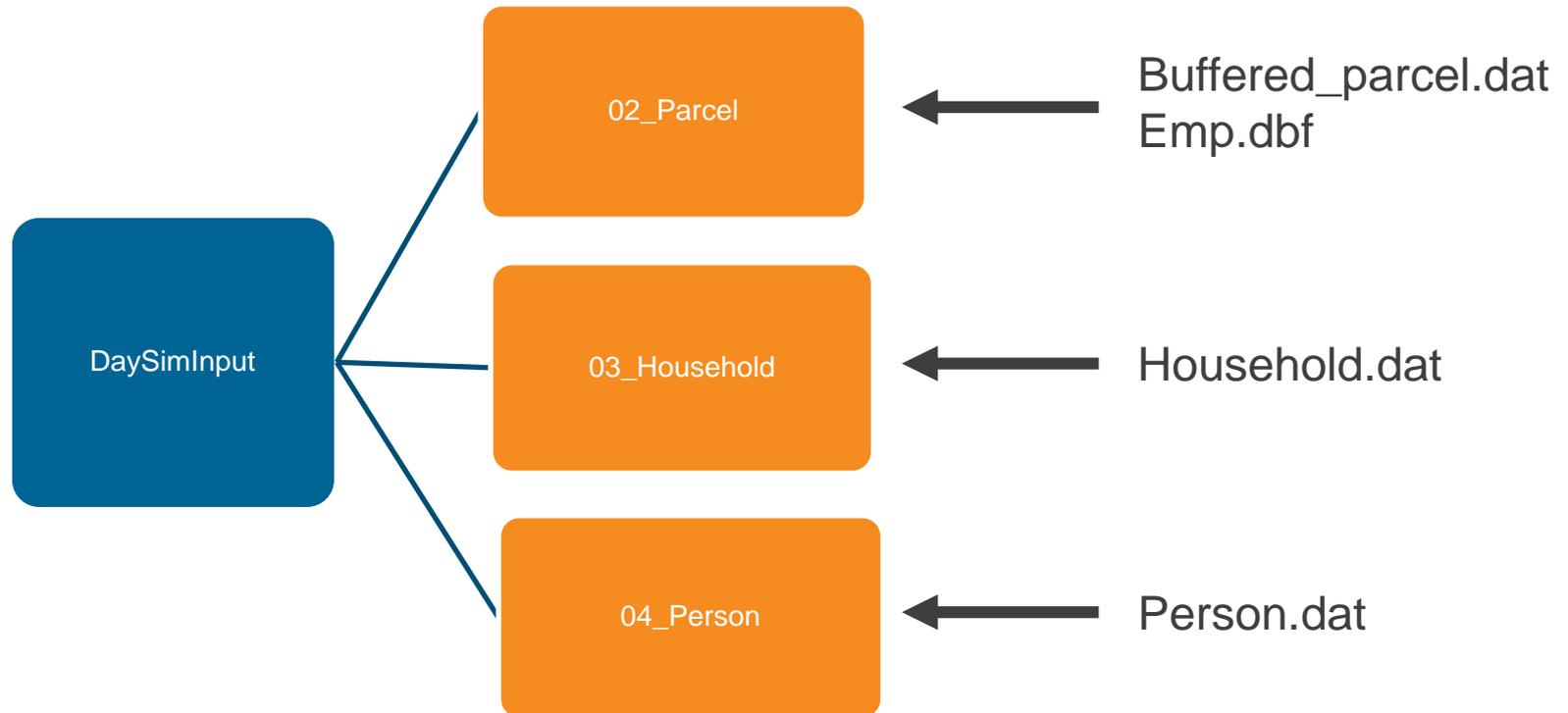
# Generate or edit parcel file Application

Location of DaySim  
data input files



# Generate or edit parcel file Application

Editing tool 4 output files



# Editing Tool Application

**\DaySimInput\02\_Parcel\buffered\_parcel.dat**

- Parcel base file includes all six counties in the region
- Household number at TAZ level matches to control file
- Employment by section at TAZ level matches to control file
- On-street parking prices for Jacksonville and St. Augustine only

FIELD	DESCRIPTION
parcelid	parcel ID number
xcoord_p	x coordinate – state plane feet
ycoord_p	y coordinate – state plane feet
sqft_p	parcel area – square feet
taz_p	corresponding TAZ number
block_p	corresponding census block number
hh_p	number of households on parcel
stugrd_p	grade school enrollment on parcel
stuhgh_p	high school enrollment on parcel
stuuni_p	university enrollment on parcel
empedu_p	educational employment on parcel
empfoo_p	food employment on parcel
empgov_p	government employment on parcel
empind_p	industrial employment on parcel
empmed_p	medical employment on parcel
empofc_p	office employment on parcel
empret_p	retail employment on parcel
empsvc_p	service employment on parcel
empoth_p	other employment on parcel
emptot_p	total employment on parcel
parkdy_p	off-street daily parking on parcel
parkhr_p	off-street hourly parking on parcel
ppricdyp	off-street daily parking price
pprichrp	off-street hourly parking price



# Editing Tool Application

\DaySimInput\02\_Parcel\emp.dbf

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
TAZ	TOTALEMP	EMP11	EMP21	EMP22	EMP23	EMP31_33	EMP42	EMP44	EMP48	EMP51	EMP52	EMP53	EMP54	EMP55	EMP56	EMP61	EMP62	EMP71	EMP72	EMP81	EMP92	COUNTY
1	24	0	0	0	0	0	1	0	0	0	0	0	3	0	2	18	0	0	0	0	0	1
2	88	1	0	0	8	1	2	6	0	3	0	0	9	0	7	0	17	8	5	21	0	1
3	32	0	0	0	4	8	2	6														
4	89	0	0	0	26	0	0	7														
5	1709	10	4	56	56	147	34	215														
6	392	1	0	0	12	129	6	6														
7	497	4	0	0	35	8	14	43														
8	259	5	0	0	9	2	1	22														
9	246	4	0	0	5	0	0	2														
10	334	5	0	0	46	28	7	47														
11	1125	15	0	0	31	8	44	205														
12	1440	5	0	0	22	16	18	214														
13	326	2	0	0	20	0	1	25														
14	396	4	0	0	8	7	1	63														
15	611	1	0	0	7	6	0	422														

NAICS*	Industrial Sector
11	Agriculture, Forestry, Fishing and Hunting
21	Mining, Quarrying, and Oil and Gas Extraction
23	Construction
31-33	Manufacturing
48-49	Transportation and Warehousing
	<b>Commercial Sector</b>
22	Utilities
42	Wholesale Trade
44-45	Retail Trade
72	Accommodation and Food Services
	<b>Service Sector</b>
51	Information
52	Finance and Insurance
53	Real Estate and Rental and Leasing
54	Professional, Scientific, and Technical Services
55	Management of Companies and Enterprises
56	Administrative and Support and Waste Management and Remediation Services
61	Educational Services
62	Health Care and Social Assistance
71	Arts, Entertainment, and Recreation
81	Other Services (except Public Administration)
99	Public Administration

\* North American Industry Classification System

The emp.dbf file contains employment data by TAZ by NAICS employment classification.

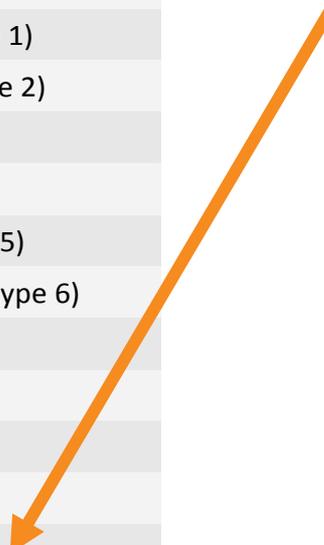


# Generate or edit parcel file Application

**\DaySimInput\03\_Household\household.dat**

Variable	Definition
HHNO	Household id
HHSIZE	Household size
HHVEHS	Vehicles available
HHWKRS	Household workers
HHFTW	HH full time workers (type 1)
HHPTW	HH part time workers (type 2)
HHRET	HH retired adults (type 3)
HHOAD	HH other adults (type 4)
HHUNI	HH college students (type 5)
HHHSC	HH high school students (type 6)
HH515	HH kids age 5-15 (type 7)
HHCU5	HH kids age 0-4 (type 8)
HHINCOME	Household income (\$)
HOWNRENT	Household own or rent
HRESTYPE	Household residence type
HHPARCEL	Residence parcel id
HHEXPFAC	HH expansion factor
SAMPTYPE	Sample type

Every household record has a Parcel ID number, which links the household to the parcel record



# Generate or edit parcel file Application

**\DaySimInput\04\_Person\person.dat**

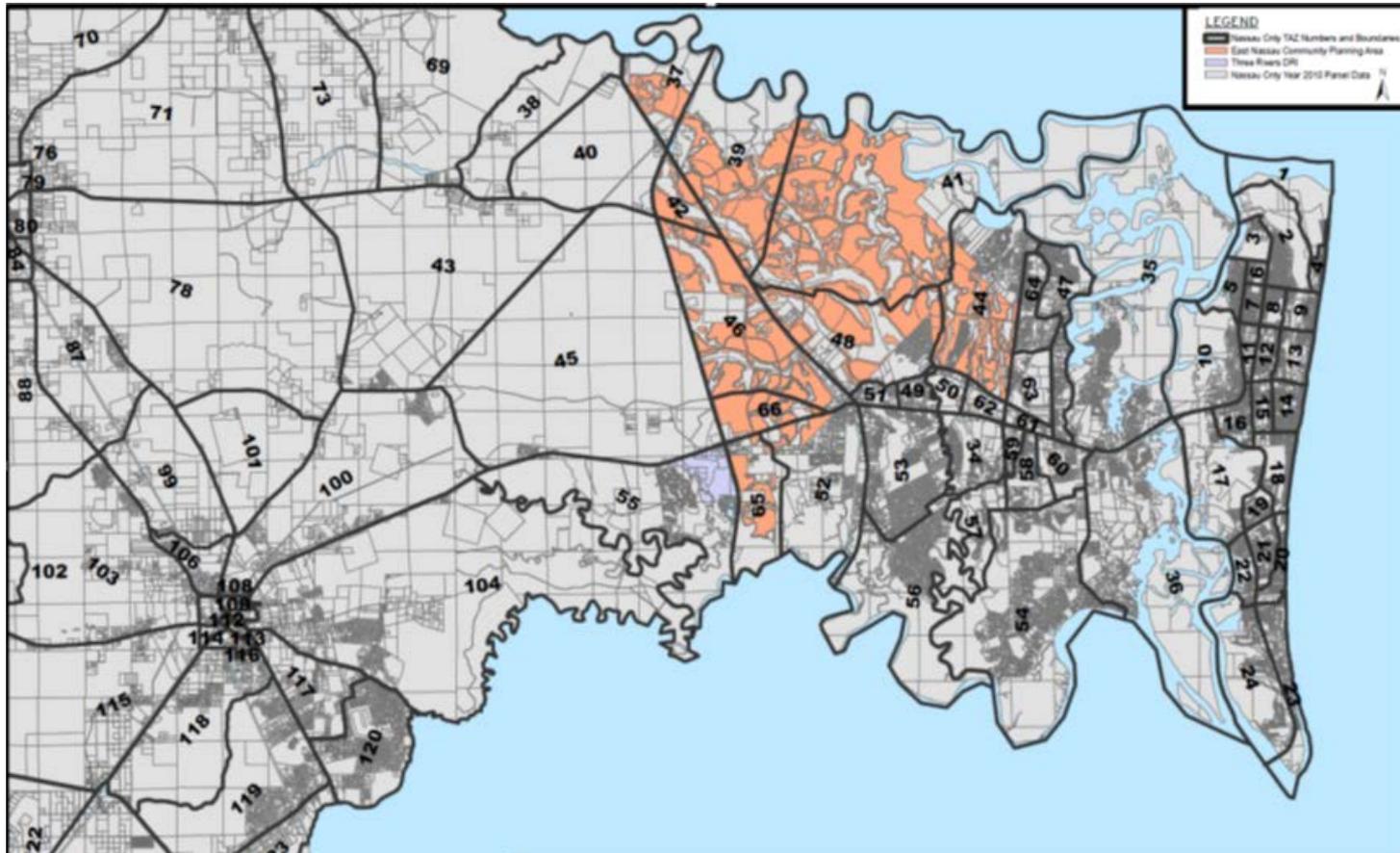
Variable	Definition
HHNO	hh id
PNO	person seq no on file
PPTYP	person type
PAGEY	age in years
PGEND	gender
PWTYP	worker type
PWPCL	usual work parcel id
PSTYP	student type
PSPCL	usual school parcel id
PUWMODE	usual mode to work
PUWARRP	Usual arrival period to work
PUWDEPP	Usual depart period from work
PTPASS	transit pass?
PPAIDPRK	paid parking at workplace?
PDIARY	Person used paper diary?
PPROXY	proxy response?
PSEXPFAC	Person expansion factor

Every person record has a Household ID number, which links the person to the household record



# Generate or edit parcel file Application

Socioeconomic data is allocated to the parcel level.



# Generate or edit parcel file Application

## Steps:

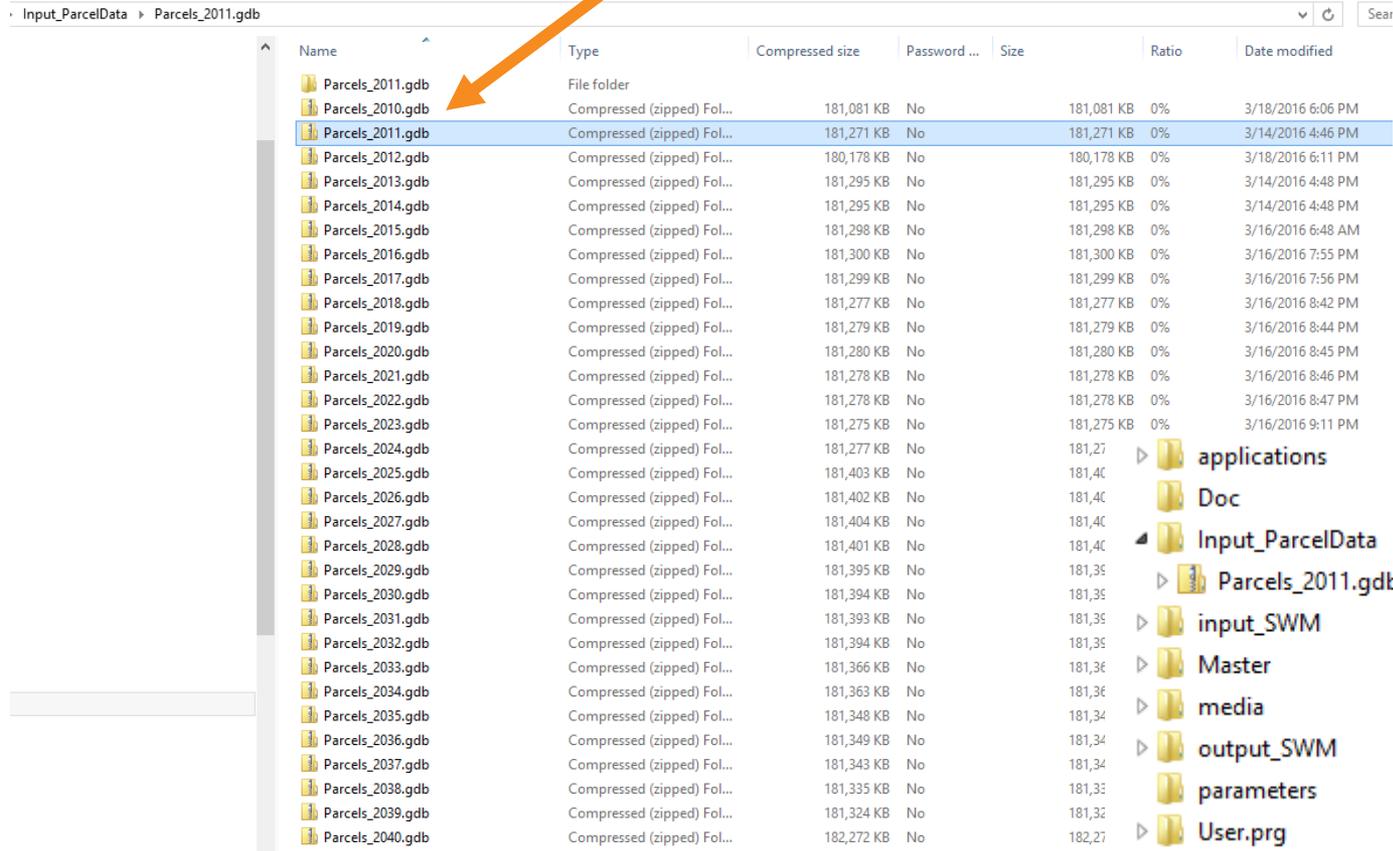
- Create and/or Select Scenario Folder
- Make Selection:
  - “Generate Default Files” for a new year or “Edit Parcel File”

If “Generate Default Files” is selected, the program creates the DaySim input files and the user returns to Cube.

If “Edit Parcel File” is selected, the program first creates the default files and then opens the ArcGIS window so the user can start editing the file.

# Generate or edit parcel file Application

You need to have the Parcels\_2011.gdb file zipped up in the Input\_parcelData folder.



Name	Type	Compressed size	Password ...	Size	Ratio	Date modified
Parcels_2011.gdb	File folder					
Parcels_2010.gdb	Compressed (zipped) Fol...	181,081 KB	No	181,081 KB	0%	3/18/2016 6:06 PM
Parcels_2011.gdb	Compressed (zipped) Fol...	181,271 KB	No	181,271 KB	0%	3/14/2016 4:46 PM
Parcels_2012.gdb	Compressed (zipped) Fol...	180,178 KB	No	180,178 KB	0%	3/18/2016 6:11 PM
Parcels_2013.gdb	Compressed (zipped) Fol...	181,295 KB	No	181,295 KB	0%	3/14/2016 4:48 PM
Parcels_2014.gdb	Compressed (zipped) Fol...	181,295 KB	No	181,295 KB	0%	3/14/2016 4:48 PM
Parcels_2015.gdb	Compressed (zipped) Fol...	181,298 KB	No	181,298 KB	0%	3/16/2016 6:48 AM
Parcels_2016.gdb	Compressed (zipped) Fol...	181,300 KB	No	181,300 KB	0%	3/16/2016 7:55 PM
Parcels_2017.gdb	Compressed (zipped) Fol...	181,299 KB	No	181,299 KB	0%	3/16/2016 7:56 PM
Parcels_2018.gdb	Compressed (zipped) Fol...	181,277 KB	No	181,277 KB	0%	3/16/2016 8:42 PM
Parcels_2019.gdb	Compressed (zipped) Fol...	181,279 KB	No	181,279 KB	0%	3/16/2016 8:44 PM
Parcels_2020.gdb	Compressed (zipped) Fol...	181,280 KB	No	181,280 KB	0%	3/16/2016 8:45 PM
Parcels_2021.gdb	Compressed (zipped) Fol...	181,278 KB	No	181,278 KB	0%	3/16/2016 8:46 PM
Parcels_2022.gdb	Compressed (zipped) Fol...	181,278 KB	No	181,278 KB	0%	3/16/2016 8:47 PM
Parcels_2023.gdb	Compressed (zipped) Fol...	181,275 KB	No	181,275 KB	0%	3/16/2016 9:11 PM
Parcels_2024.gdb	Compressed (zipped) Fol...	181,277 KB	No	181,277 KB	0%	
Parcels_2025.gdb	Compressed (zipped) Fol...	181,403 KB	No	181,403 KB	0%	
Parcels_2026.gdb	Compressed (zipped) Fol...	181,402 KB	No	181,402 KB	0%	
Parcels_2027.gdb	Compressed (zipped) Fol...	181,404 KB	No	181,404 KB	0%	
Parcels_2028.gdb	Compressed (zipped) Fol...	181,401 KB	No	181,401 KB	0%	
Parcels_2029.gdb	Compressed (zipped) Fol...	181,395 KB	No	181,395 KB	0%	
Parcels_2030.gdb	Compressed (zipped) Fol...	181,394 KB	No	181,394 KB	0%	
Parcels_2031.gdb	Compressed (zipped) Fol...	181,393 KB	No	181,393 KB	0%	
Parcels_2032.gdb	Compressed (zipped) Fol...	181,394 KB	No	181,394 KB	0%	
Parcels_2033.gdb	Compressed (zipped) Fol...	181,366 KB	No	181,366 KB	0%	
Parcels_2034.gdb	Compressed (zipped) Fol...	181,363 KB	No	181,363 KB	0%	
Parcels_2035.gdb	Compressed (zipped) Fol...	181,348 KB	No	181,348 KB	0%	
Parcels_2036.gdb	Compressed (zipped) Fol...	181,349 KB	No	181,349 KB	0%	
Parcels_2037.gdb	Compressed (zipped) Fol...	181,343 KB	No	181,343 KB	0%	
Parcels_2038.gdb	Compressed (zipped) Fol...	181,335 KB	No	181,335 KB	0%	
Parcels_2039.gdb	Compressed (zipped) Fol...	181,324 KB	No	181,324 KB	0%	
Parcels_2040.gdb	Compressed (zipped) Fol...	182,272 KB	No	182,272 KB	0%	

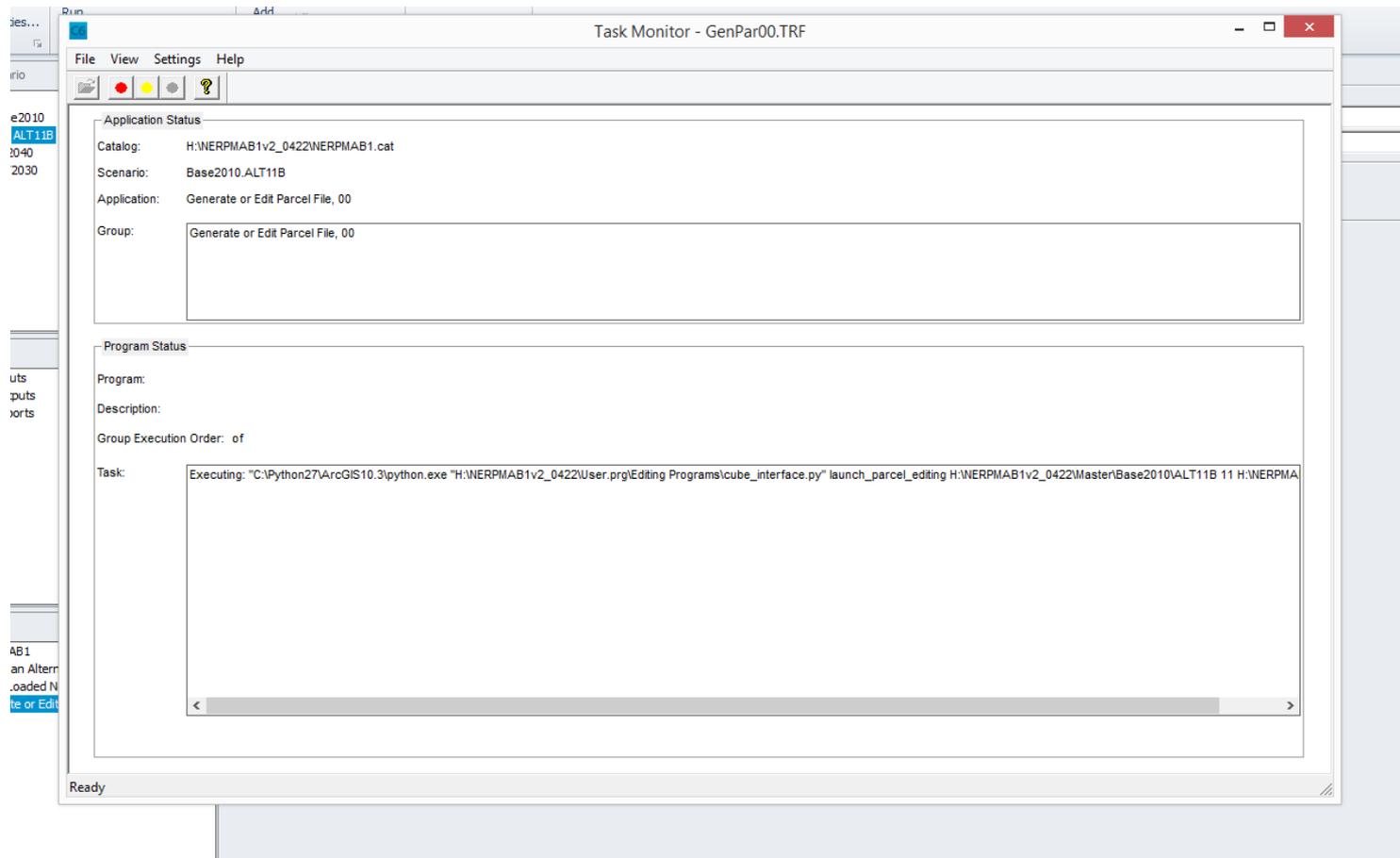
Input\_ParcelData

- applications
- Doc
- Input\_ParcelData
  - Parcels\_2011.gdb
- input\_SWM
- Master
- media
- output\_SWM
- parameters
- User.prj



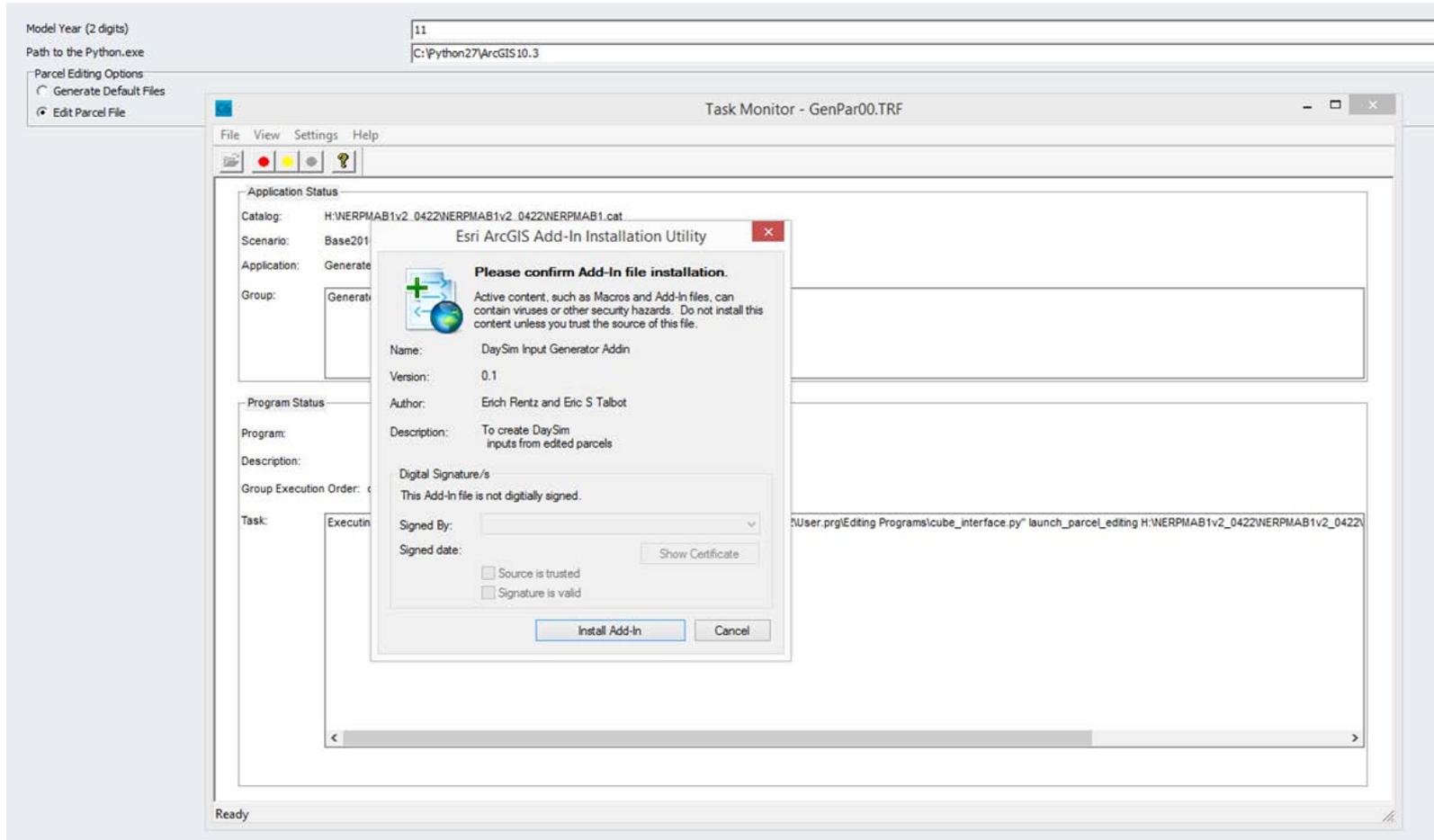
# Generate or edit parcel file Application

Either selection (“edit” or “generate”) will activate the Cube window.



# Generate or edit parcel file Application

## Install Add-In File



# Generate or edit parcel file Application

The screenshot displays the 'Task Monitor - GenPar00.TRF' application window. The window has a menu bar with 'File', 'View', 'Settings', and 'Help'. Below the menu bar is a toolbar with icons for a folder, a red dot, a yellow dot, a grey dot, and a question mark. The main content area is divided into two sections: 'Application Status' and 'Program Status'.

**Application Status**

- Catalog: H:\NERPMAB1v2\_0422\NERPMAB1.cat
- Scenario: Base2010.ALT11B
- Application: Generate or Edit Parcel File, 00
- Group: Generate or Edit Parcel File, 00

**Program Status**

- Program:
- Description:
- Group Execution Order: of
- Task: Executing: "C:\Python27\ArcGIS10.3\python.exe "H:\NERPMAB1v2\_0422\User.prg\Editing Programs\cube\_interface.py" lau

Overlaid on the 'Program Status' section is a dialog box titled 'Esri ArcGIS Add-In Installation Utility'. The dialog box contains the text 'Installation succeeded.' and an 'OK' button. The dialog box is partially obscuring the text in the 'Task' field, which appears to be 'Executing: "C:\Python27\ArcGIS10.3\python.exe "H:\NERPMAB1v2\_0422\User.prg\Editing Programs\cube\_interface.py" lau' followed by 'LT11B 11 H:\NERPMA'.

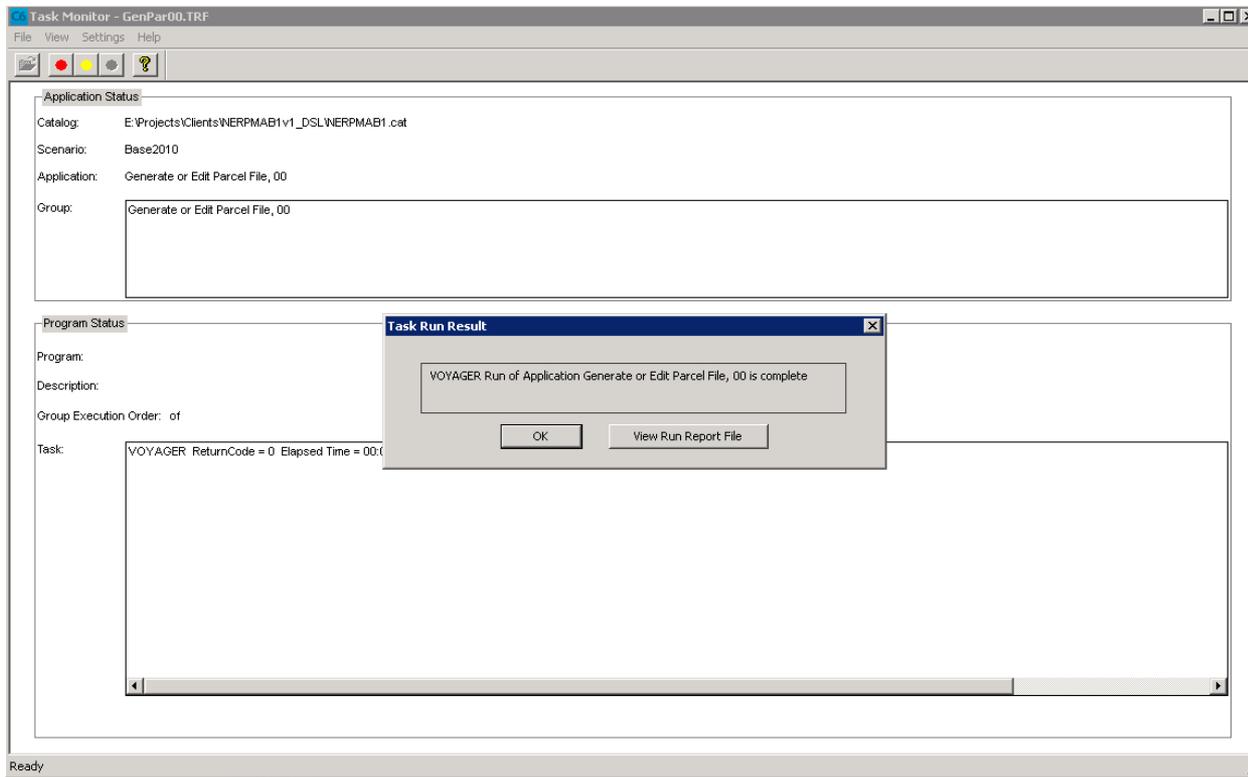
# Generate or edit parcel file Application

## Generate Default File Selection

- Updated files are placed in DaySim input directory – *you are done!*

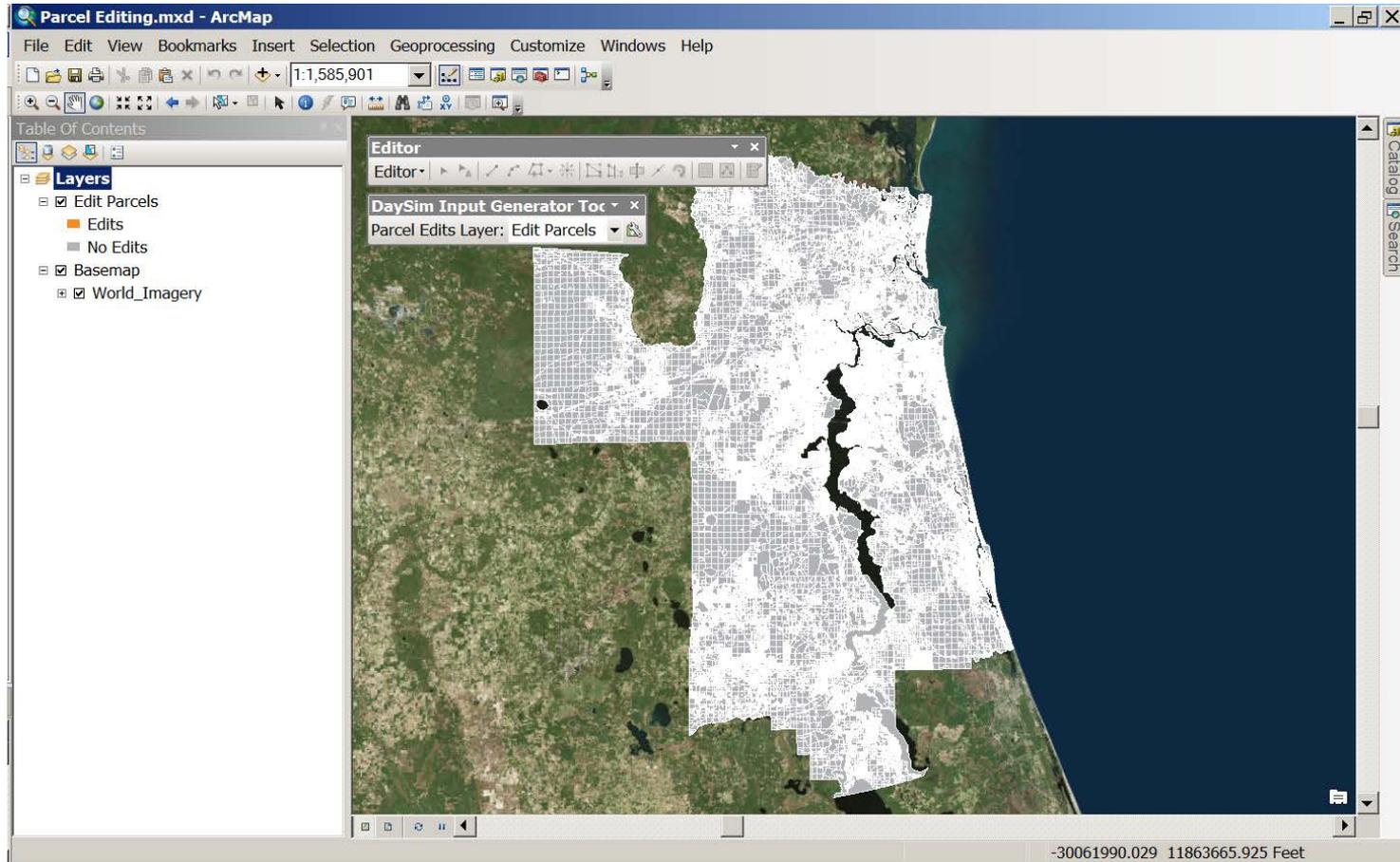
## Edit Parcel Files

- ArcMap will open – for you to make edits to default files



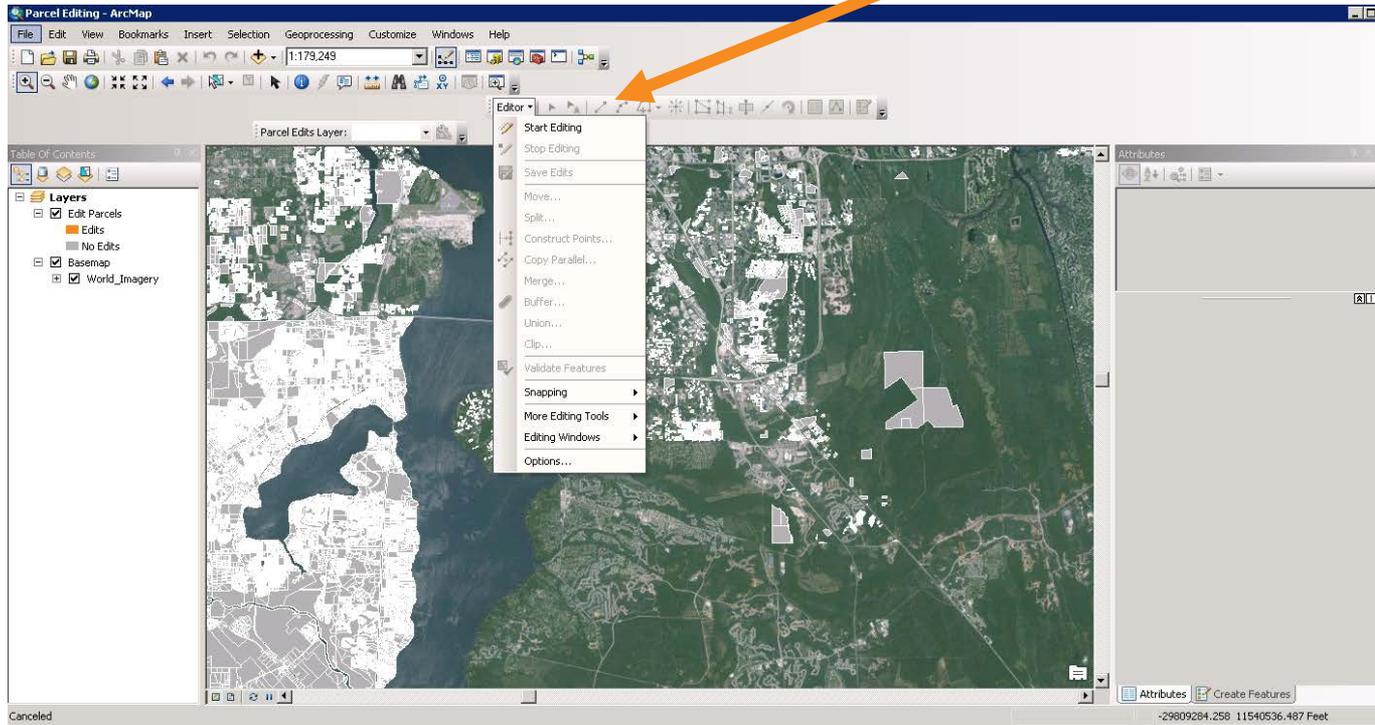
# Generate or edit parcel file Application

When selecting Edit Parcel Files the ArcGIS window will open.



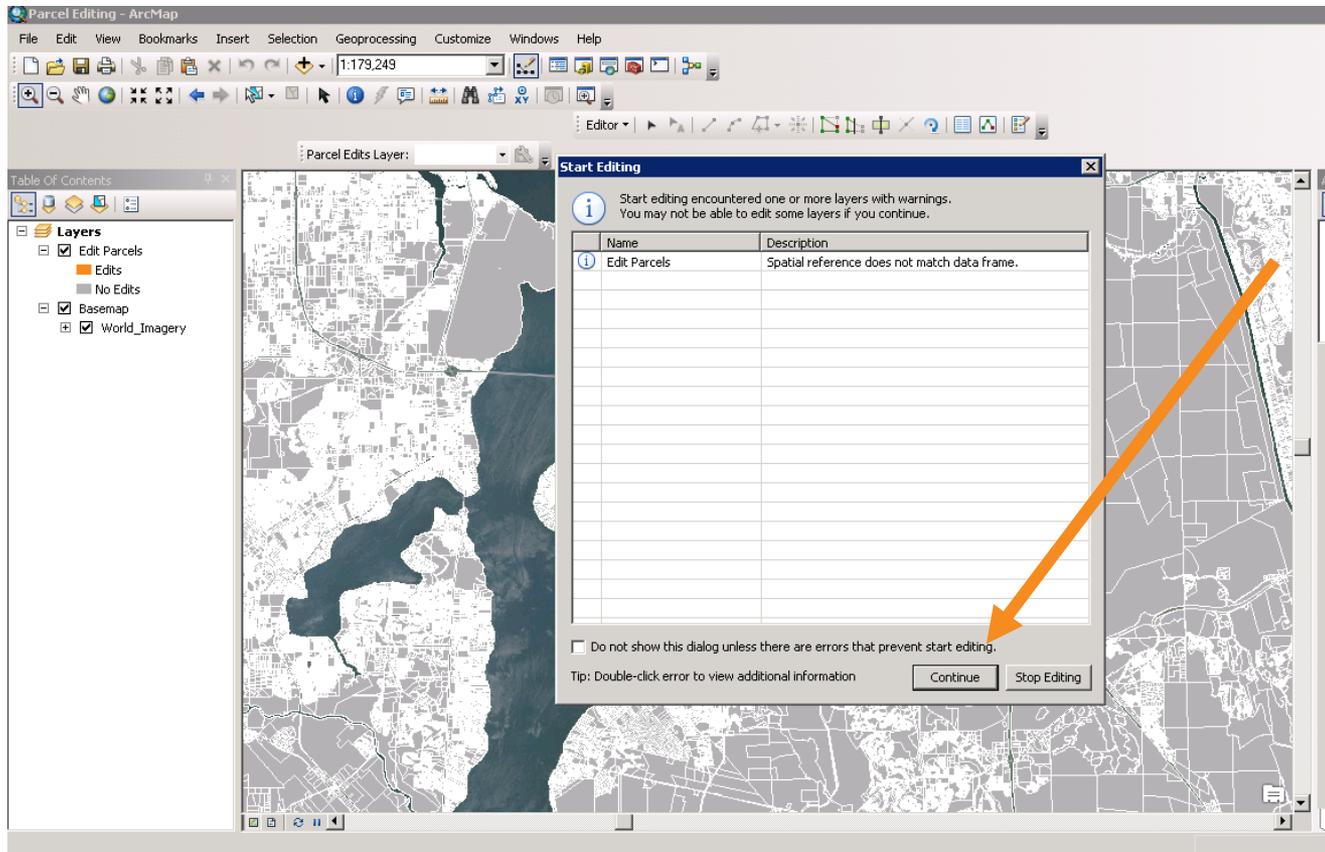
# Generate or edit parcel file Application

Start editing



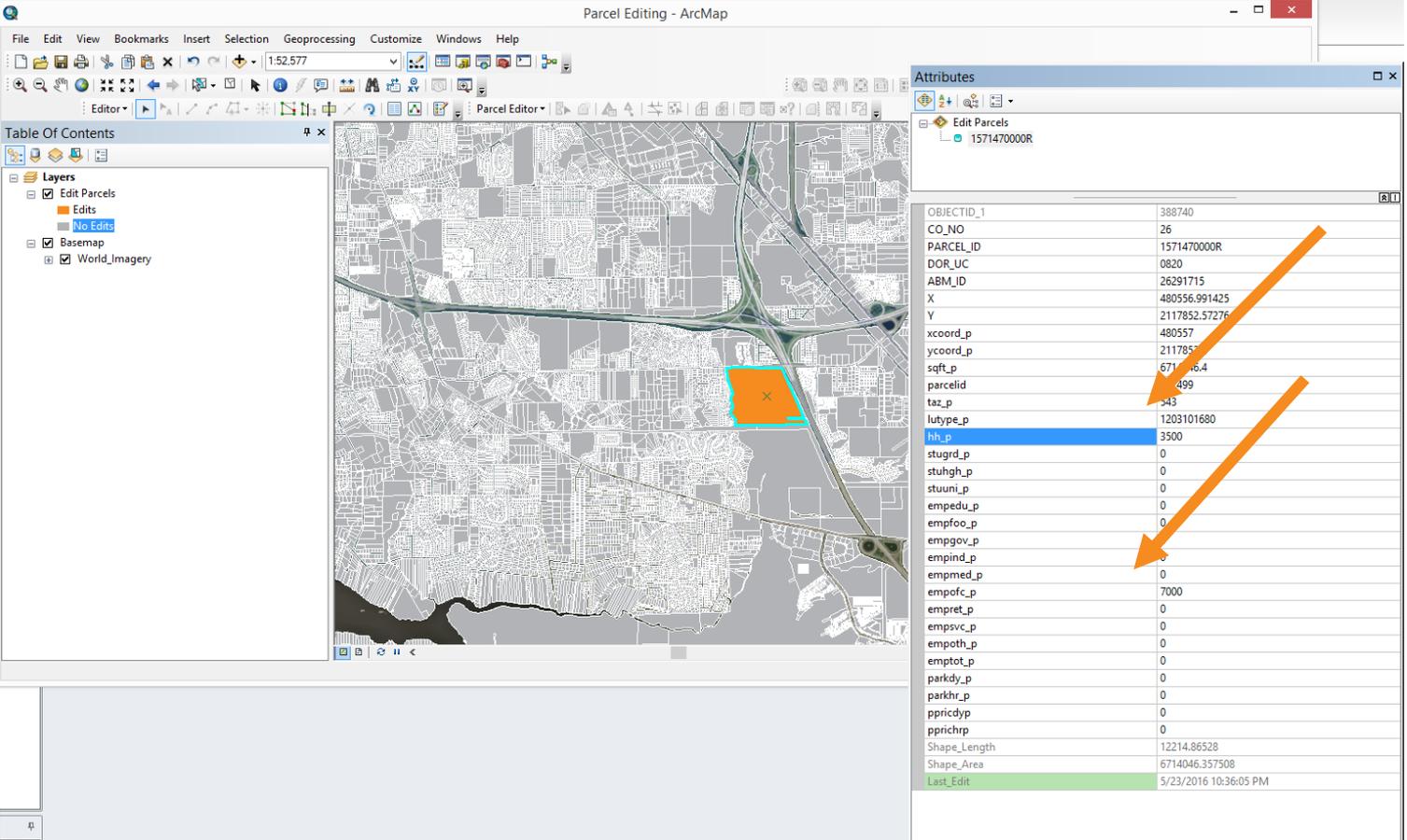
# Generate or edit parcel file Application

Click continue



# Generate or edit parcel file Application

Start editing and change attributes in the attribute table for the selected parcel. In this case, 3500 households and 7000 office employees were added to parcel 317499 in TAZ 543.

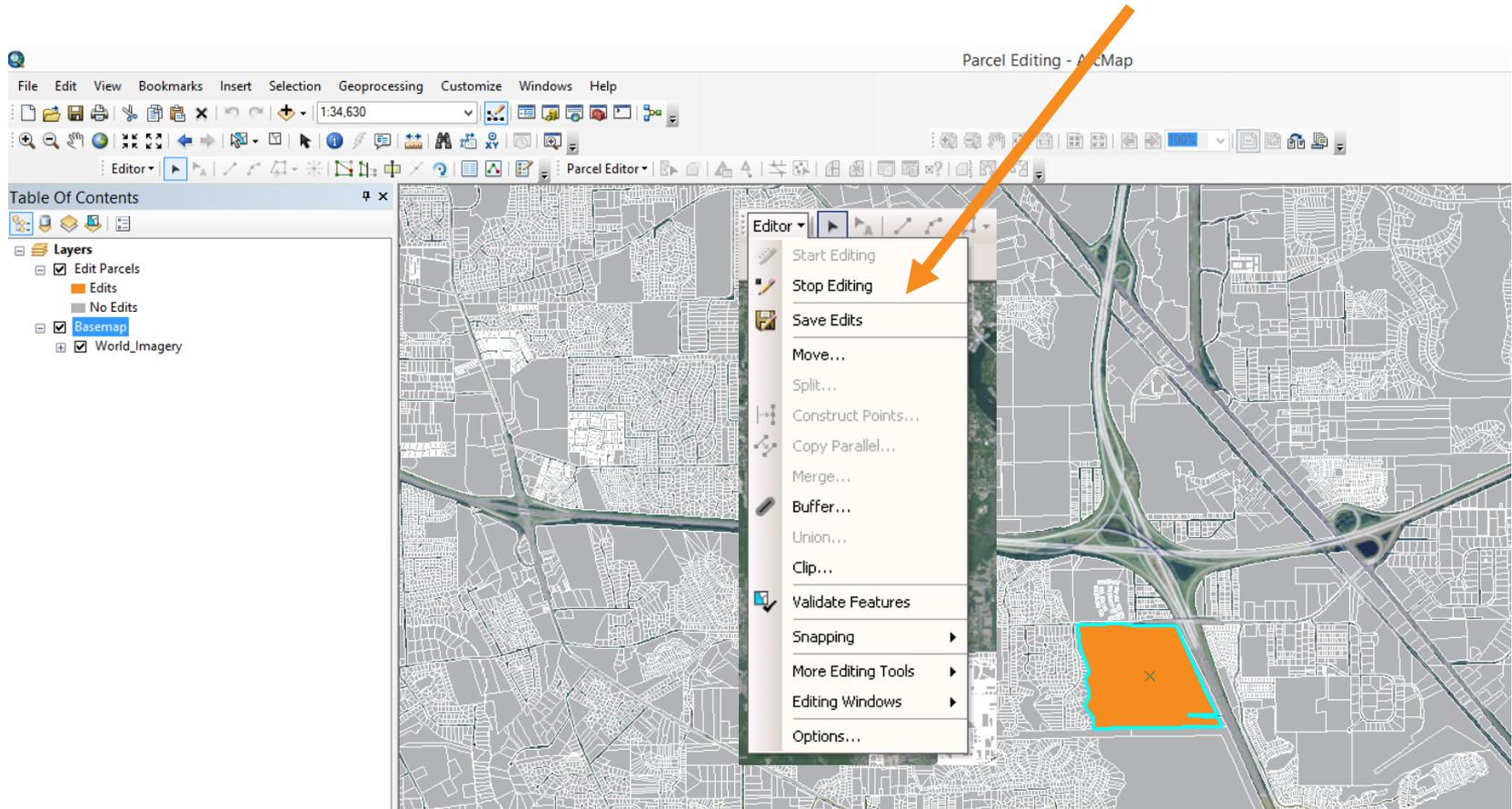


The screenshot displays the ArcMap interface in Parcel Editor mode. The main map shows a street grid with a specific parcel highlighted in orange. The 'Attributes' table on the right lists various data fields for the selected parcel (1571470000R). Two orange arrows point from the 'hh\_p' and 'empofc\_p' rows in the table to the selected parcel on the map, indicating the data being updated.

OBJECTID_1	388740
CO_NO	26
PARCEL_ID	1571470000R
DOR_UC	0820
ABM_ID	26291715
X	480556.991425
Y	2117852.57276
xcoord_p	480557
ycoord_p	2117852
sqft_p	6714046.4
parcelid	317499
taz_p	543
lutype_p	1203101680
hh_p	3500
stugrd_p	0
stugh_p	0
stuuni_p	0
empedu_p	0
empfoo_p	0
empgov_p	0
empind_p	0
empmed_p	0
empofc_p	7000
empret_p	0
empsvc_p	0
empoth_p	0
emptot_p	0
parkdy_p	0
parkhr_p	0
ppricdyp	0
pprichrp	0
Shape_Length	12214.86528
Shape_Area	6714046.357508
Last_Edit	5/23/2016 10:36:05 PM

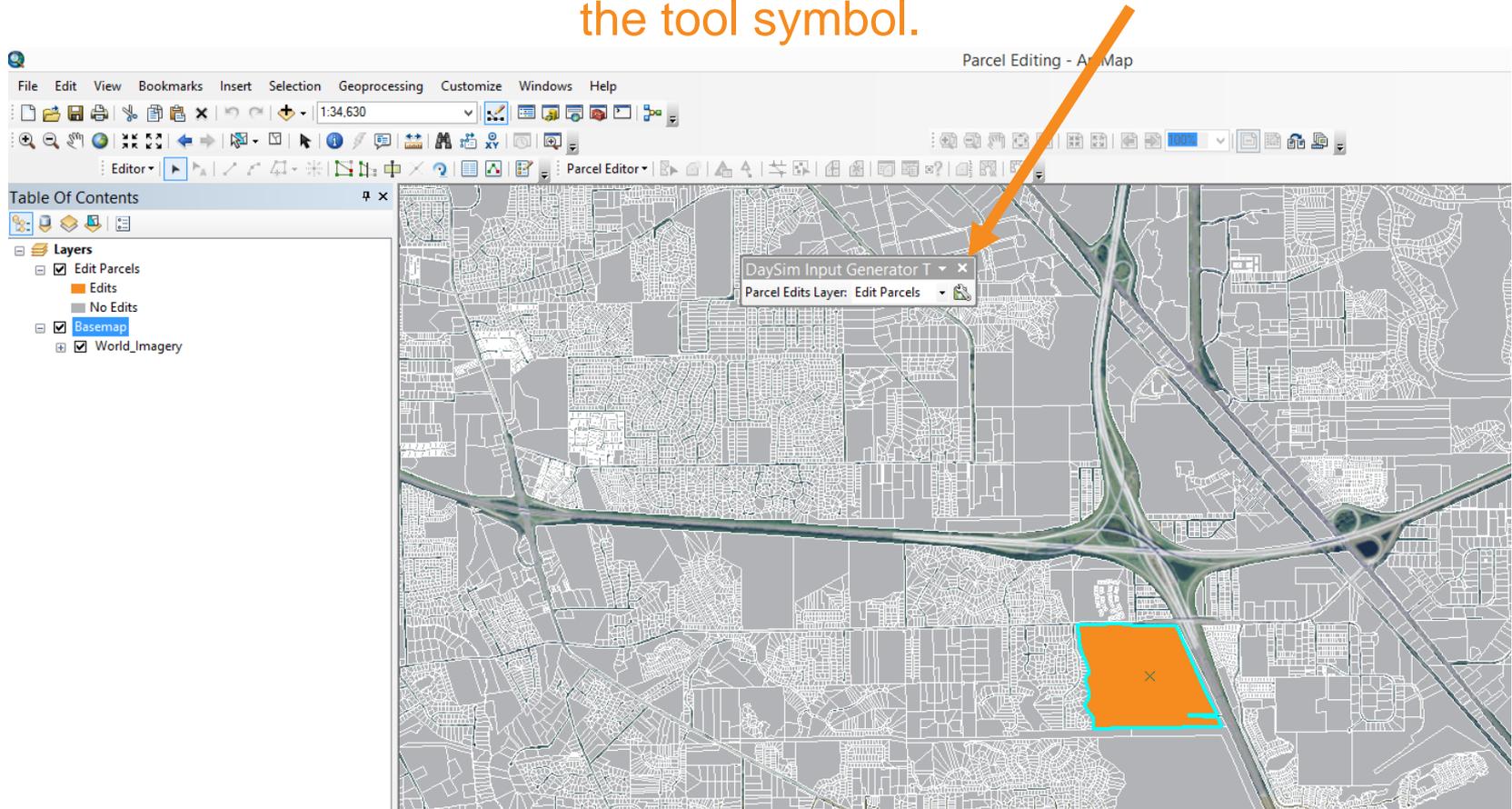
# Generate or edit parcel file Application

Click Save Edits then Stop Editing.



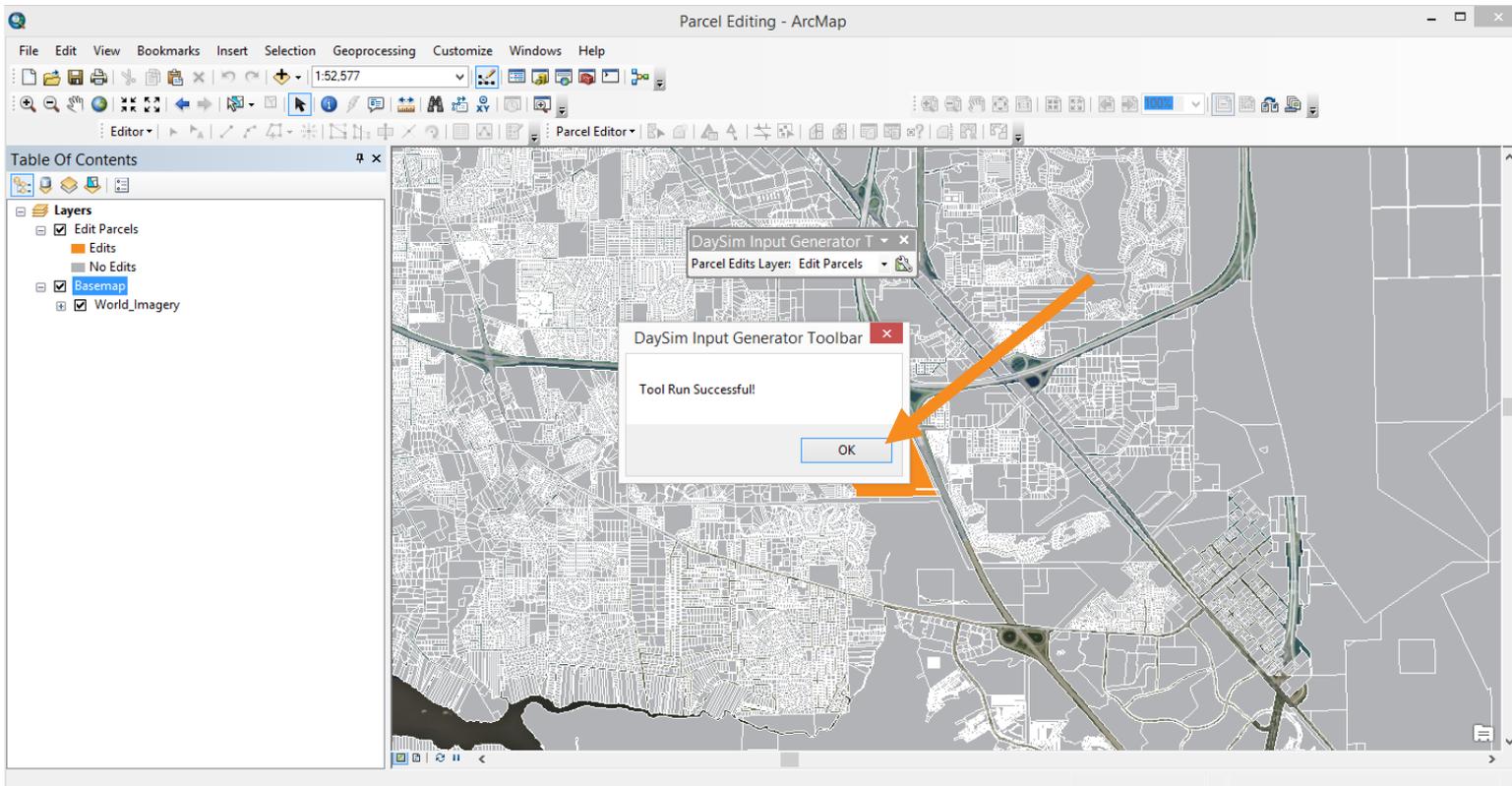
# Generate or edit parcel file Application

Generate DaySim files by browsing for “Edit Parcels” and clicking on the tool symbol.



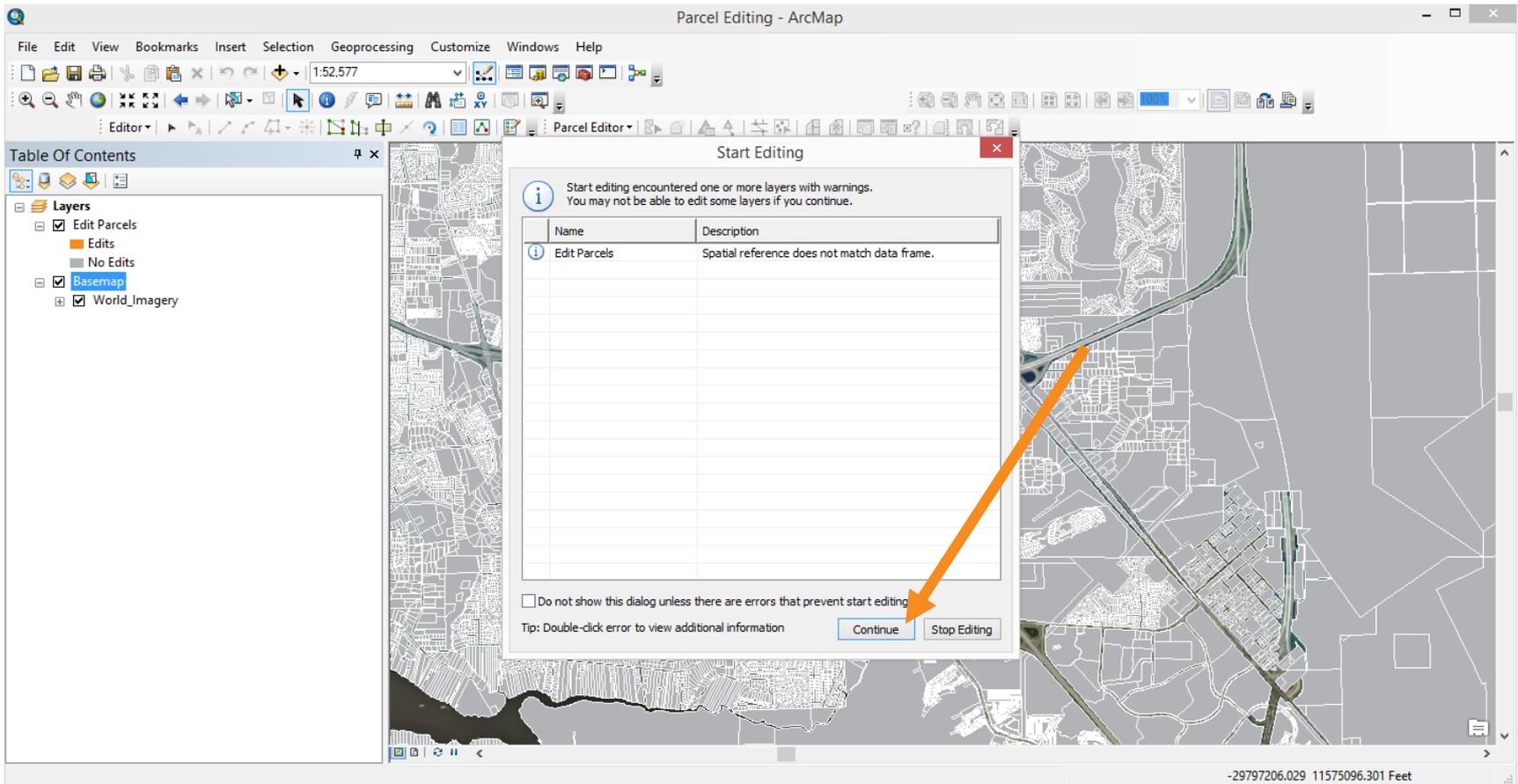
# Generate or edit parcel file Application

A DOS window will appear while the Editing tool is running.  
When finished, the following message will appear.  
Click ok and return to Cube.



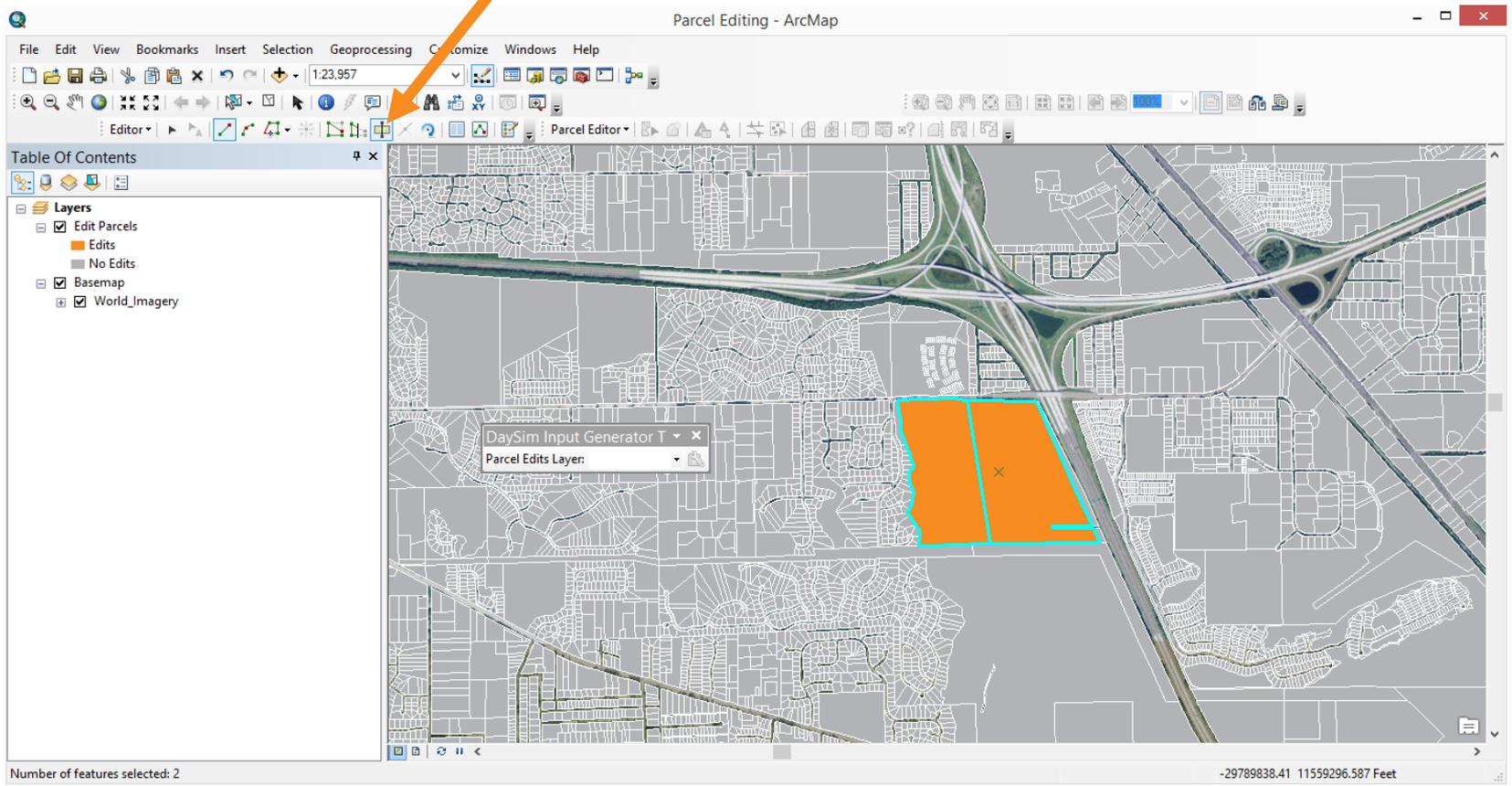
# Generate or edit parcel file Application

Make changes to parcel boundaries in ArcMap.



# Generate or edit parcel file Application

Use ArcGIS editing tools to change the parcel polygon. In this example the parcel is split.



# Generate or edit parcel file Application

When you split a parcel the data is the same in both parcels. The user needs to adjust the data manually by editing the attribute table.

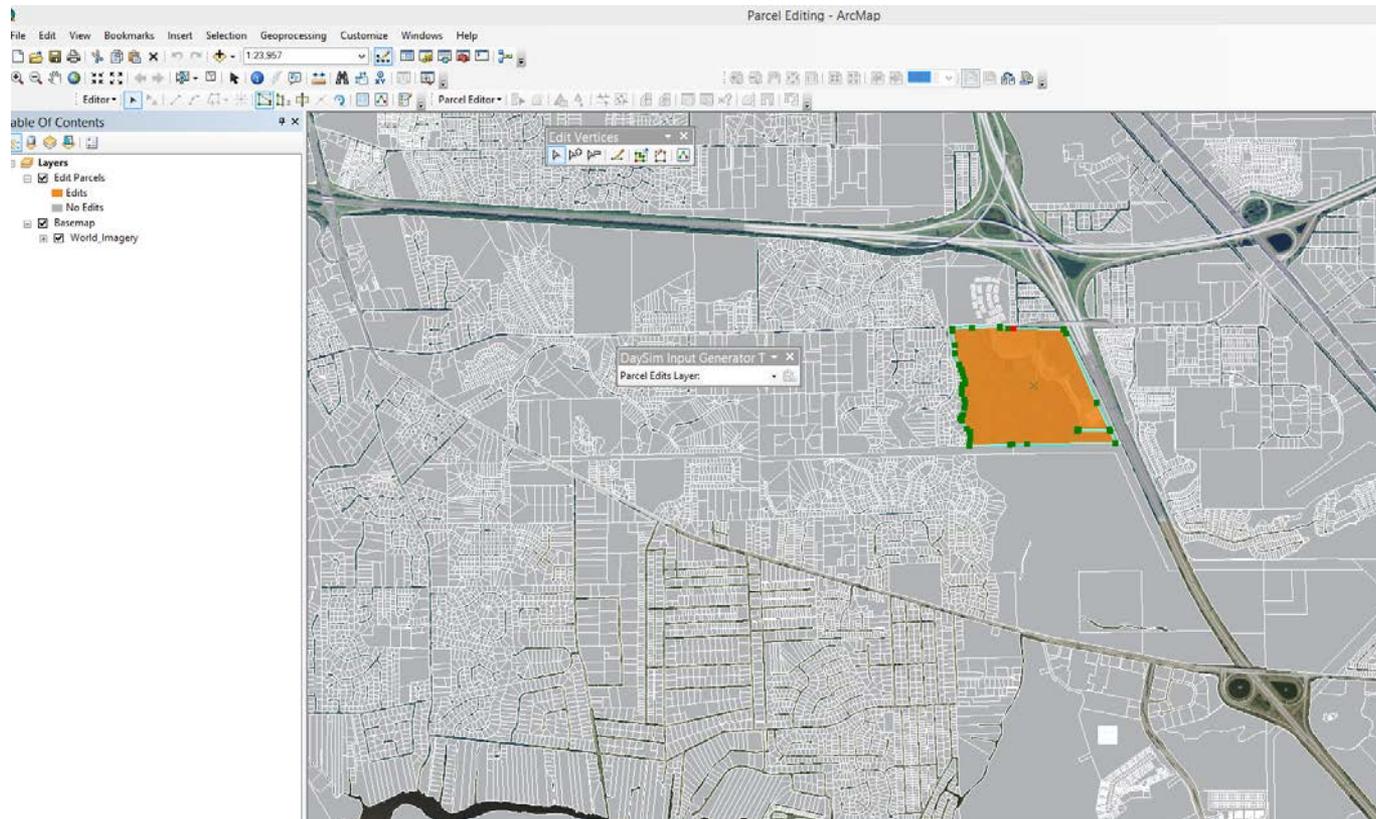
The screenshot displays the ArcMap interface for parcel editing. The main map area shows a parcel split into two orange-colored sections. The 'Table Of Contents' on the left lists layers: Edit Parcels, Edits, No Edits, Basemap, and World Imagery. The 'Attributes' window on the right shows the attribute table for the selected parcel (OBJECTID\_1: 1571470000R). The attribute table contains the following data:

OBJECTID_1	Value
CO_NO	26
PARCEL_ID	1571470000R
DOR_UC	0820
ABM_ID	26291715
X	480556.991425
Y	2117852.57276
xcoord_p	480557
ycoord_p	2117852.6
sqft_p	6714046.4
parcelid	317499
taz_p	543
lotype_p	1203101680
hh_p	3500
stugrd_p	0
stuhgh_p	0
stuuni_p	0
empedu_p	0
empfoo_p	0
empgov_p	0
empind_p	0
empmed_p	0
empofc_p	7000
empret_p	0
empsvc_p	0
empth_p	0
emptot_p	0
parkdy_p	0
parkhr_p	0
ppricdyp	0
pprichrp	0



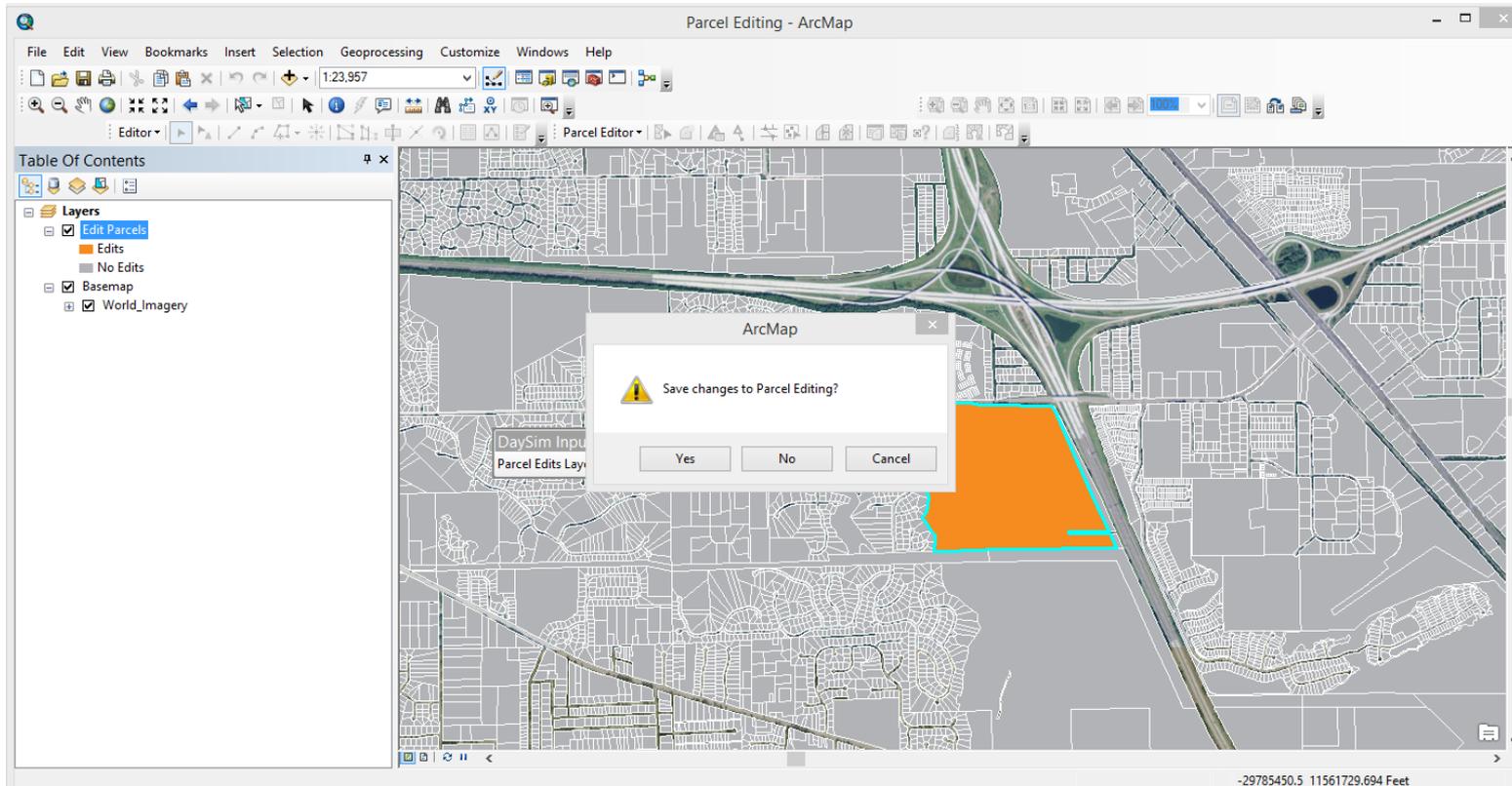
# Generate or edit parcel file Application

You merge parcels, alter parcels using the editing tools in ArcGIS. The user needs to change the data associated with the parcels in the attribute file.



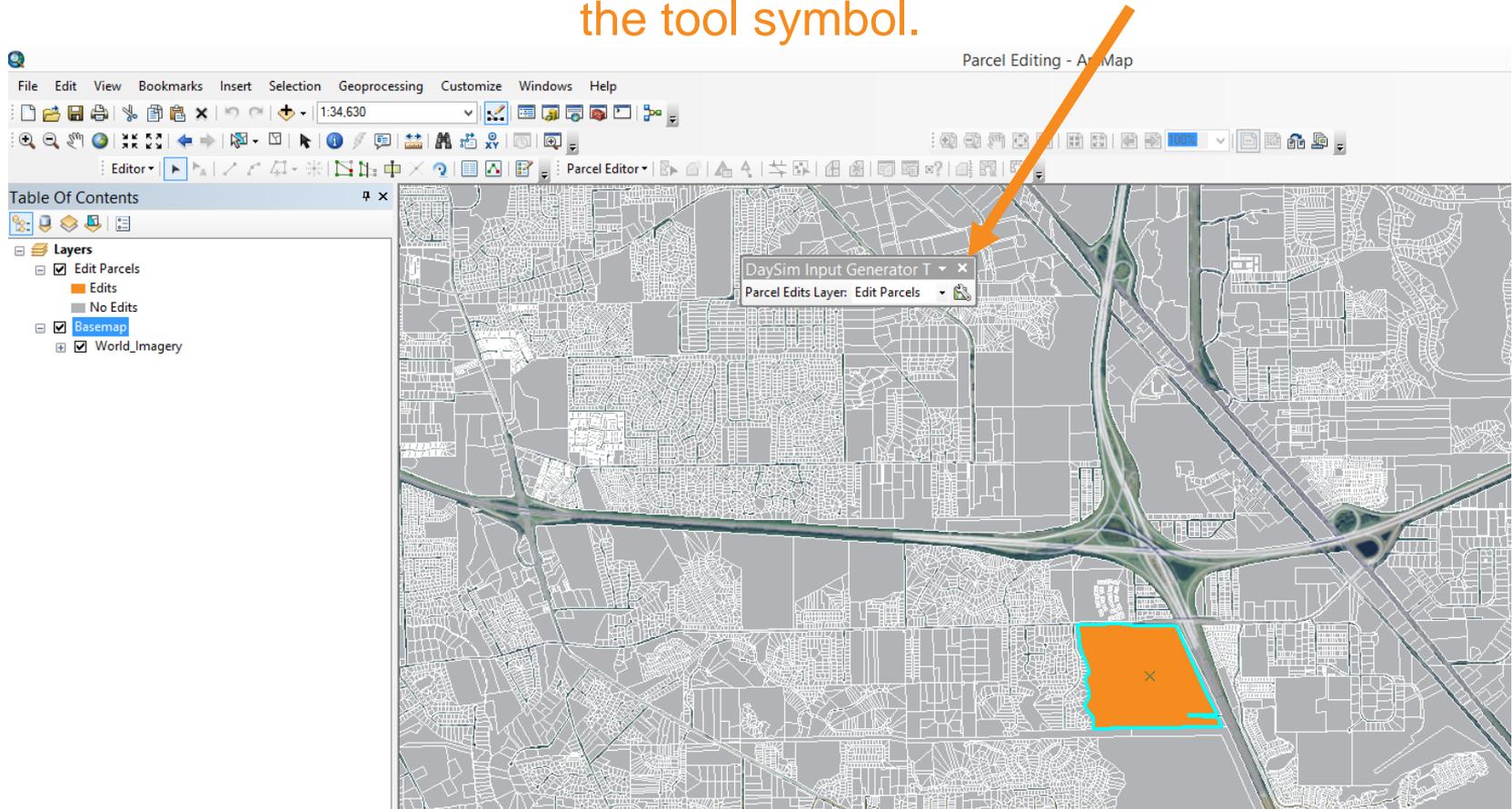
# Generate or edit parcel file Application

Saving your edits allows the user to go back and make additional edits.



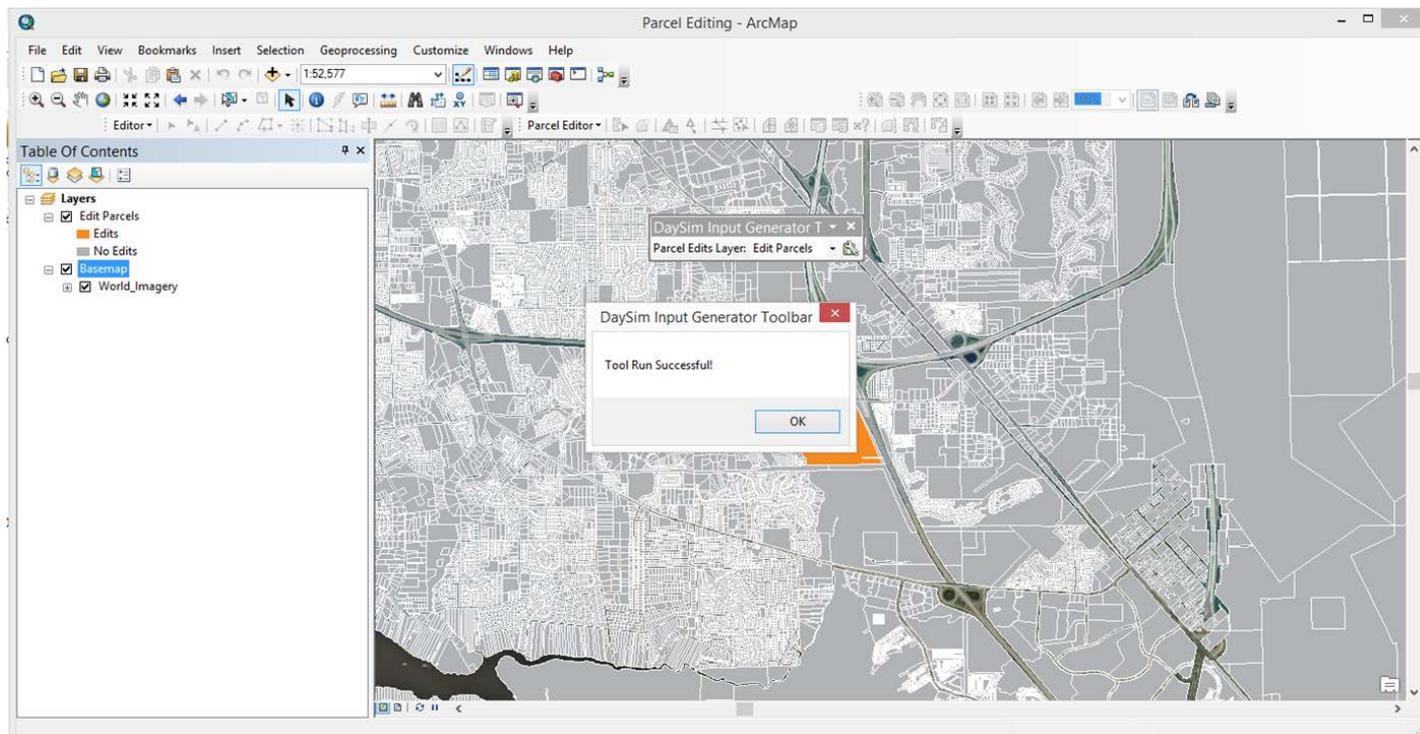
# Generate or edit parcel file Application

Generate DaySim files by browsing for “Edit Parcels” and clicking on the tool symbol.



# Generate or edit parcel file Application

Message indicates that DaySim input files are generated and placed in the appropriate DaySim input folders.



# Generate or edit parcel file Application

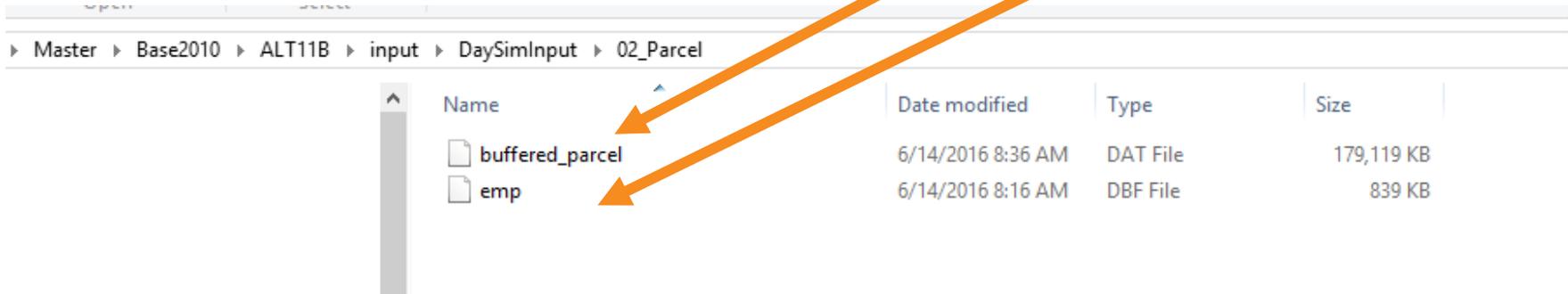
## Buffered Parcel File contains:

- The number of households in the buffer
- Employment (number of jobs) in the buffer in various employment sectors
- Enrollment in schools in the buffer, segmented by grade schools and colleges
- The number of spaces and average price of paid off-street parking in the buffer
- The number of transit stops within the buffer (segmented by sub-mode, if relevant)
- The number of street intersections in the buffer, segmented by 1-node (dead-end or cul-de-sac), 3-node (T junction), and 4+node intersections.
- The area within the buffer that is public open space (parks, etc.)



# Generate or edit parcel file Application

New files placed in 02\_parcel directory



Name	Date modified	Type	Size
buffered_parcel	6/14/2016 8:36 AM	DAT File	179,119 KB
emp	6/14/2016 8:16 AM	DBF File	839 KB



# Generate or edit parcel file Application

New file placed in 03\_household directory

▶ Master ▶ Base2010 ▶ ALT11B ▶ input ▶ DaySimInput ▶ 03\_Household

Name	Date modified	Type	Size
 household	6/14/2016 8:16 AM	DAT File	37,661 KB



# Generate or edit parcel file Application

New file placed in 04\_person directory

Master ▶ Base2010 ▶ ALT11B ▶ input ▶ DaySimInput ▶ 04\_Person

Name	Date modified	Type	Size
 person	6/14/2016 8:16 AM	DAT File	96,219 KB



# Generate or edit parcel file Application

Running the scenario with the updated DaySim files – Buffered\_parcel.dat

The screenshot displays the GenPar application interface. On the left, a project tree shows the hierarchy: Master > Base2010 > ALT11B > CF2040 > Z2040 > Y2040 > INT2030. Below this, a 'Data' section lists 'Inputs', 'Outputs', and 'Reports'. The 'App' section shows 'NERPMAB1' with sub-items like 'Develop Freight Truck TT from SWM' and 'Base Year Freight Truck TT from S'. A 'Keys' table is visible at the bottom left.

Key	Value
Scen. Name	ALT11B
DESCR	Base Year 2010 Networks and SE Data
alt	B
Year	11
ClusterHandle	NERPM
ClusterNodes	8

The central panel shows 'DaySim Parameters (Users should adjust these values correspondingly)'. The 'Check box below if there are changes in employ' is checked. The 'User-specified Values' section shows 'PROFILE.MAS Entries (Not Normally Changed)'. The right panel shows a file explorer with a table of files:

Name	Date modified	Type	Size
buffered_parcel	6/14/2016 8:40 AM	DAT File	293,...
emp	6/14/2016 8:16 AM	DBF File	8...

Two orange arrows point to the 'buffered\_parcel' and 'emp' files in the file explorer.



# Generate or edit parcel file Application

Running the scenario with the updated DaySim files – household.dat

The screenshot displays the GenPar application interface with several panes:

- Scenario Tree:** Shows a hierarchy starting with 'Master', followed by 'Base2010' (containing 'ALT11B'), 'CF2040', 'Z2040', 'Y2040', and 'INT2030'.
- Data:** Contains folders for 'Inputs', 'Outputs', and 'Reports'.
- App:** Shows 'NERPMAB1' with sub-items like 'Develop Freight Truck TT from SWM', 'Base Year Freight Truck TT from S...', and 'Future Year Freight Truck TT from S...'. A 'Generation' button is visible.
- Keys:** A table with 'Key' and 'Value' columns. Values include 'ALT11B' for Scen. Name, 'Base Year 2010 Networks and SE Data' for DESCR, 'B' for alt, '11' for Year, 'NERPM' for ClusterHandle, and '8' for ClusterNodes.
- Model Description:** Fields for Alternative Letter (1 Character), Model Year (2 digits), ClusterHandle, Number of CPUs, Global Feedback Iterations, Half of Number of CPUs, 4 times of CPUs, DaySim TAZ Index, DaySim parcels, DaySim HH File, DaySim Person File, WorkerDXIFile, ParkAndRide, Availability of Mode, DSRosterCombinationFile, Employment, and SeedShadowFile.
- DaySim Parameters:** A table with values: Base Year 2010 Networks and SE Data (B), Model Year (11), ClusterHandle (NERPM), Number of CPUs (8), Global Feedback Iterations (4), Half of Number of CPUs (4), 4 times of CPUs (32), and various file paths for TAZ Index, parcels, HH File, Person File, WorkerDXIFile, ParkAndRide, Availability of Mode, Employment, and SeedShadowFile.
- Check box below if there are changes in employment distribution and you are running the scenario the first time:**  Update Shadow Price.
- User-specified Values:** A breadcrumb path: Master > Base2010 > ALT11B > input\_test > DaySimInput > 03\_Household.
- PROFILE.MAS Entries (No):** A table with columns: Name, Date modified, Type, Size. It lists a file named 'household' with a date of 6/14/2016 8:16 AM, Type of DAT File, and Size of 37,661 KB.

Two orange arrows point from the right side of the image to the 'household.dat' file path in the DaySim Parameters table and the 'household' file entry in the PROFILE.MAS Entries table.



# Generate or edit parcel file Application

Running the scenario with the updated DaySim files – person.dat

The screenshot displays the GenPar application interface with several panes and windows:

- Scenario Tree:** Shows a hierarchy starting with 'Master', containing 'Base2010' (with 'ALT11B' selected), 'CF2040', 'Z2040', 'Y2040', and 'INT2030'.
- Data Pane:** Contains folders for 'Inputs', 'Outputs', and 'Reports'.
- App Pane:** Shows 'NERPMAB1' with sub-items like 'Develop Freight Truck TT from SWM', 'Base Year Freight Truck TT from S', and 'Future Year Freight Truck TT from S', along with a 'Generation' button.
- Keys Table:**

Key	Value
Scen. Name	ALT11B
DESCR	Base Year 2010 Networks and SE Data
alt	B
Year	11
ClusterHandle	NERPMB
ClusterNodes	8
- Model Description:** Lists parameters such as 'Alternative Letter (1 Character)', 'Model Year (2 digits)', 'ClusterHandle', 'Number of CPUs', 'Global Feedback Iterations', 'Half of Number of CPUs', '4 times of CPUs', 'DaySim TAZ Index', 'DaySim parcels', 'DaySim HH File', 'DaySim Person File', 'WorkerDXXIFile', 'ParkAndRide', 'Availability of Mode', 'DSRosterCombinationFile', 'Employment', and 'SeedShadowFile'.
- DaySim Parameters:** A section with the heading 'DaySim Parameters (Users should adjust these values correspondingly)'. It lists various input files with their full paths, including 'person.dat'.
- Check box:** A checkbox labeled 'Update Shadow Price' is checked.
- User-specified Values:** A section for 'PROFILE.MAS Entries (Not Normal)'. A file explorer window is open showing the path 'Master > Base2010 > ALT11B > input\_test > DaySimInput > 04\_Person', with a file named 'person' (96,219 KB) selected.



# Generate or edit parcel file Application

Running the scenario with the updated DaySim files – emp.dbf

The screenshot displays the software interface for scenario configuration. On the left, a tree view shows the project structure under 'Master', including 'Base2010', 'CF2040', 'Z2040', and 'Y2040'. Below this, the 'Data' section shows 'Inputs', 'Outputs', and 'Reports'. The 'App' section shows 'NERPMAB1' with sub-items like 'Develop Freight Truck TT from SWM' and 'Base Year Freight Truck TT from S'. The 'Keys' table at the bottom left lists configuration values for 'Scen. Name', 'DESCR', 'alt', 'Year', 'ClusterHandle', and 'ClusterNodes'.

The main window shows the 'Generate or Edit Parcel File' application. The 'Model Description' section includes fields for 'Alternative Letter (1 Character)', 'Model Year (2 digits)', 'ClusterHandle', 'Number of CPUs (for Cube Cluster Function)', and 'Global Feedback Iterations'. The 'DaySim Parameters (Users should adjust these values correspondingly)' section lists various parameters such as 'Half of Number of CPUs (DaySim Parallel Processing Parameters)', '4 times of CPUs (DaySim Parallel Processing Parameters)', 'DaySim TAZ Index', 'DaySim parcels', 'DaySim HH File', 'DaySim Person File', 'WorkerDXXIFile', 'ParkAndRide', 'Availability of Mode', 'DSRosterCombinationFile', 'Employment', and 'SeedShadowFile'. A checkbox for 'Update Shadow Price' is checked.

The 'User-specified Values' section shows 'PROFILE.MAS Entries (Not Normally...)' with a 'Maximum internal zone number' field.

The 'Base Year 2010 Networks and SE Data' table lists various input files and their paths, including 'emp.dbf'. A file explorer window at the bottom right shows the file structure for 'input\_test > DaySimInput > 02\_Parcel', listing files like 'buffered\_parcel' and 'emp'.

Two orange arrows point to the 'emp.dbf' file in the table and the 'emp' file in the file explorer.

Key	Value
Scen. Name	ALT11B
DESCR	Base Year 2010 Networks and SE Data
alt	B
Year	11
ClusterHandle	NERPMB
ClusterNodes	8

Base Year 2010 Networks and SE Data
B
11
NERPMB
8
4
4
32
H:\NERPMAB\1v2_0422\Master\Base2010\ALT11B\Input\DaySimInput\01_TAZ_Index\jax_taz_indexes.dat
H:\NERPMAB\1v2_0422\Master\Base2010\ALT11B\Input\DaySimInput\02_Parcel\buffered_parcel.dat
H:\NERPMAB\1v2_0422\Master\Base2010\ALT11B\Input\DaySimInput\03_Household\household.dat
H:\NERPMAB\1v2_0422\Master\Base2010\ALT11B\Input\DaySimInput\04_Person\person.dat
H:\NERPMAB\1v2_0422\Master\Base2010\ALT11B\Input\DaySimInput\05_jxxi\jax_worker_jxxifractions.dat
H:\NERPMAB\1v2_0422\Master\Base2010\ALT11B\Input\DaySimInput\05_pnr\jax_p_rNodes.dat
H:\NERPMAB\1v2_0422\Master\Base2010\ALT11B\Input\DaySimInput\06_Roster\roster_jax.csv
H:\NERPMAB\1v2_0422\Master\Base2010\ALT11B\Input\DaySimInput\06_Roster\roster.combinations.csv
H:\NERPMAB\1v2_0422\Master\Base2010\ALT11B\Input\DaySimInput\02_Parcel\emp.dbf
H:\NERPMAB\1v2_0422\Master\Base2010\ALT11B\Input\DaySimInput\09_SeedShadow\shadow_price_2010A.txt

Name	Date modified	Type	Size
buffered_parcel	6/14/2016 8:40 AM	DAT File	293,971 KB
emp	6/14/2016 8:16 AM	DBF File	839 KB



# Generate or edit parcel file Application

Running the scenario with the updated DaySim files – Make sure Shadow Price is checked.

Check box below if there are changes in employment distribution and you are running the scenario the first time

Update Shadow Price

Model Description	Base Year 2010 Networks and SE Data		
Alternative Letter (1 Character)	B		
Model Year (2 digits)	11		
ClusterHandle	NERPM		
Number of CPUs (for Cube Cluster Function)	8		
Global Feedback Iterations	4		
<b>DaySim Parameters (Users should adjust these values correspondingly)</b>			
Half of Number of CPUs (DaySim Paralle Processing Parameters)	4		
4 times of CPUs (DaySim Parallel Processing Parameters)	32		
DaySim TAZ Index (Do not begin file name with f, n or r)	H:\NERPMAB1v2_0422\Master\Base2010\ALT11B\Input\DaySimInput\01_TAZ_Index\jax_taz_indexes.dat	Browse ...	Edit ...
DaySim parcels (Do not begin file name with f, n or r)	H:\NERPMAB1v2_0422\Master\Base2010\ALT11B\Input\DaySimInput\02_Parcel\buffered_parcel.dat	Browse ...	Edit ...
DaySim HH File (Do not begin file name with f, n or r)	H:\NERPMAB1v2_0422\Master\Base2010\ALT11B\Input\DaySimInput\03_Household\household.dat	Browse ...	Edit ...
DaySim Person File (Do not begin file name with f, n or r)	H:\NERPMAB1v2_0422\Master\Base2010\ALT11B\Input\DaySimInput\04_Person\person.dat	Browse ...	Edit ...
WorkerDOXFile	H:\NERPMAB1v2_0422\Master\Base2010\ALT11B\Input\DaySimInput\05_pox\jax_worker_poxfractions.dat	Browse ...	Edit ...
ParkAndRide	H:\NERPMAB1v2_0422\Master\Base2010\ALT11B\Input\DaySimInput\05_pnr\jax_p_nodes.dat	Browse ...	Edit ...
Availability of Mode	H:\NERPMAB1v2_0422\Master\Base2010\ALT11B\Input\DaySimInput\06_Roster\roster_jax.csv	Browse ...	Edit ...
DSRosterCombinationFile	H:\NERPMAB1v2_0422\Master\Base2010\ALT11B\Input\DaySimInput\06_Roster\roster.combinations_jax.csv	Browse ...	Edit ...
Employment	H:\NERPMAB1v2_0422\Master\Base2010\ALT11B\Input\DaySimInput\02_Parcel\emp.dbf	Browse ...	Edit ...
SeedShadow	H:\NERPMAB1v2_0422\Master\Base2010\ALT11B\Input\DaySimInput\09_SeedShadow\shadow_prices_10A.txt	Browse ...	Edit ...
<b>Check box below if there are changes in employment distribution and you are running the scenario the first time</b>			
<input checked="" type="checkbox"/> Update Shadow Price			
<b>User-specified Values</b>			
<b>PROFILE.MAS Entries (Not Normally Changed)</b>			
Maximum internal zone number	2494		
Maximum external zone number	2578		
ZONESA1	2579		
CBD Zone for Reporting	730		
Nearest Zones to Average for Intrazonal Time	2		
Maximum Iterations In Gravity Model	40		
Maximum Equilibrium Assignment Iterations	150		



# Generate or edit parcel file Application

If you run into problems, check the log file in the “Editing Programs” subfolder of the “User.prg” folder. If you need support attach the log file to your email.

User.prg ▸ Editing Programs

Name	Date modified	Type	Size
daysiminputgenerator	5/23/2016 6:46 PM	File folder	
cube_interface	3/18/2016 8:08 PM	Python File	2 KB
daysim-parcel-editing	3/18/2016 8:09 PM	Esri AddIn File	23 KB
launch_parcel_editing	3/18/2016 8:08 PM	Python File	2 KB
launch_parcel_editing	5/20/2016 4:18 PM	Compiled Python ...	2 KB
log	5/23/2016 6:45 PM	Text Document	6 KB
make_defaults	3/18/2016 8:08 PM	Python File	2 KB
make_defaults	5/20/2016 4:19 PM	Compiled Python ...	2 KB
prepare_workspace	3/18/2016 8:08 PM	Python File	7 KB
prepare_workspace	5/20/2016 4:18 PM	Compiled Python ...	5 KB



# Questions?

**Support email: [NERPM\\_Support@rsginc.com](mailto:NERPM_Support@rsginc.com)**



NORTHEAST REGIONAL  
PLANNING MODEL:  
ACTIVITY BASED



[Blog](#)

CHILD PAGES

[NERPM Home Page](#)

[SUPPORT](#)

[Pages / NERPM Home Page](#)

## SUPPORT

Created by Stephen Lawe, last modified on Sep 16, 2015

For support, please first check "[Frequently Asked Questions](#)". If additional information is needed, please click the link below.

[NERPM\\_Support@rsginc.com](mailto:NERPM_Support@rsginc.com)

Thank you very much.





# Select Link Analysis

# Select Link Analysis

## Highway Assignment Process

- Updates user interface
  - Relative gap
  - Path saving ability
  - Running assignments in parallel (midday & night)
- Field attributes in loaded highway network file



# Select Link Analysis

## User-specified Values

### PROFILE.MAS Entries (Not Normally Changed)

Maximum internal zone number	2494
Maximum external zone number	2578
ZONESA1	2579
CBD Zone for Reporting	730
Nearest Zones to Average for Intrazonal Time	2
Maximum Iterations In Gravity Model	40
Maximum Equilibrium Assignment iterations	150

150 maximum  
equilibrium assignment  
iterations



Relative Gap	0.0001
Coefficient of Toll	0.1
HBW- Avg 3+ Persons/Car	3.37
HBO- Avg 3+ Persons/Car	3.48
NHB- Avg 3+ Persons/Car	3.59
Minimum node number in the model	5000
Maximum distance (in miles) for transfer access connectors	0.6
Maximum number of walk access links per mode per zone	99
Average walk speed (in mph)	2.5
Maximum allowable walking distance (in miles)	0.6

Relative gap =  
0.0001

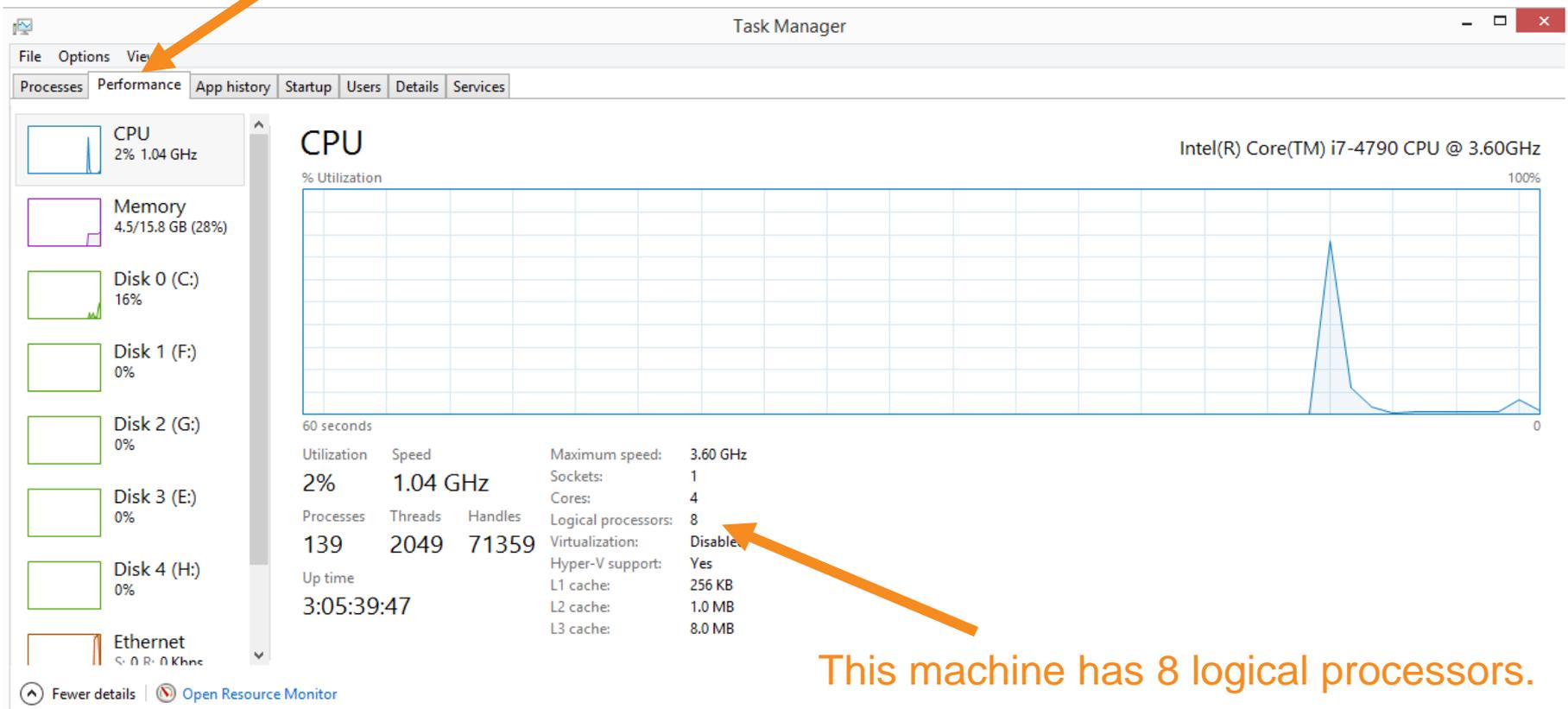




# Select Link Analysis

*Running assignments in parallel (midday & night)*

Right click on your task bar and open up Task Manager. Go to 'Performance.'



The screenshot shows the Windows Task Manager Performance tab for the CPU. The left sidebar lists system resources: CPU (2% 1.04 GHz), Memory (4.5/15.8 GB (28%)), Disk 0 (C:) (16%), Disk 1 (F:) (0%), Disk 2 (G:) (0%), Disk 3 (E:) (0%), Disk 4 (H:) (0%), and Ethernet (5.0 R, 0 Kbps). The main area displays the CPU performance graph and specifications for an Intel(R) Core(TM) i7-4790 CPU @ 3.60GHz. The graph shows a single sharp peak in utilization. The specifications table is as follows:

Utilization	Speed	Maximum speed:	3.60 GHz	
2%	1.04 GHz	Sockets:	1	
Processes	Threads	Handles	Cores:	4
139	2049	71359	Logical processors:	8
Up time	3:05:39:47			
		Virtualization:	Disable	
		Hyper-V support:	Yes	
		L1 cache:	256 KB	
		L2 cache:	1.0 MB	
		L3 cache:	8.0 MB	

An orange arrow points to the 'Performance' tab in the Task Manager window. Another orange arrow points to the 'Logical processors: 8' entry in the specifications table.

This machine has 8 logical processors.



# Select Link Analysis

*Running assignments in parallel (midday & night)*

Number of Logical Processors needs to correspond with the number of CPUs.

Model Description: Base Year 2010 Networks and SE Data

Alternative Letter (1 Character): B

Model Year (2 digits): 11

ClusterHandle: NERPM

Number of CPUs (for Cube Cluster Function): 8

Global Feedback Iterations: 4

**DaySim Parameters (Users should adjust these values correspondingly)**

Half of Number of CPUs (DaySim Paralle Processing Parameters): 4

4 times of CPUs (DaySim Paralle Processing Parameters): 32

DaySim TAZ Index (Do not begin file name with f, n or r): H:\NERPMAB 1v2\_0422\NERPMAB 1v2\_0422\Master\Bases\2010\ALT11B\Input\DaySimInput\01\_TAZ\_Index\jax\_taz\_indexes.dat

DaySim parcels (Do not begin file name with f, n or r): H:\NERPMAB 1v2\_0422\NERPMAB 1v2\_0422\Master\Bases\2010\ALT11B\Input\DaySimInput\02\_Parcel\buffered\_parcel.dat

DaySim HH File (Do not begin file name with f, n or r): H:\NERPMAB 1v2\_0422\NERPMAB 1v2\_0422\Master\Bases\2010\ALT11B\Input\DaySimInput\03\_Household\household.dat

DaySim Person File (Do not begin file name with f, n or r): H:\NERPMAB 1v2\_0422\NERPMAB 1v2\_0422\Master\Bases\2010\ALT11B\Input\DaySimInput\04\_Person\person.dat

WorkerIXIFile: H:\NERPMAB 1v2\_0422\NERPMAB 1v2\_0422\Master\Bases\2010\ALT11B\Input\DaySimInput\05\_ixi\jax\_worker\_ixifractions.dat

ParkAndRide: H:\NERPMAB 1v2\_0422\NERPMAB 1v2\_0422\Master\Bases\2010\ALT11B\Input\DaySimInput\05\_pnr\jax\_p\_r\Nodes.dat

Availability of Mode: H:\NERPMAB 1v2\_0422\NERPMAB 1v2\_0422\Master\Bases\2010\ALT11B\Input\DaySimInput\06\_Roster\roster\_jax.csv

DSRosterCombinationFile: H:\NERPMAB 1v2\_0422\NERPMAB 1v2\_0422\Master\Bases\2010\ALT11B\Input\DaySimInput\06\_Roster\roster\_combinations\_jax.csv

Employment: H:\NERPMAB 1v2\_0422\NERPMAB 1v2\_0422\Master\Bases\2010\ALT11B\Input\DaySimInput\02\_Parcel\emp.dbf

SeedShadowFile: H:\NERPMAB 1v2\_0422\NERPMAB 1v2\_0422\Master\Bases\2010\ALT11B\Input\DaySimInput\09\_SeedShadow\shadow\_prices\_10A.txt

**Check box below if there are changes in employment distribution and you are running the scenario the first time**

Update Shadow Price

Make sure you update the “half of CPUs box” and the “4 times CPUs” box.



# Select Link Analysis

*Running assignments in parallel (midday & night)*

The AM and PM assignment run sequential and use all cores (1-8 in this example), while the MD and NT assignments run in parallel and split the use of number of cores in half (1-4 & 5-8 in this e.g.).

AMProcessList	1-8
PMProcessList	1-8
MDProcessList	1-4
NTProcessList	5-8
AM First Processor Number for Assignment	9
PM First Processor Number for Assignment	9
MD First Processor Number for Assignment	1
NT First Processor Number for Assignment	5

Make sure the first processor number for the AM and MD assignment is a larger number than the total number of cores (>8 in this example), while the MD assignment starts at the first core (1) and the NT assignment starts midway (5).



# Select Link Analysis

Select link or zone analysis for a specific time period or daily. All time periods need to be checked when running the “daily” select link analysis. Here we are requesting the total volume associated with zone 543 by using select link.

- Perform Daily Select Link Analysis
- Perform Select Zone and/or Link Analysis? If Yes
- For Node Analysis use (N=###), For Link Analysis use (L=### - ##); N=A (L=A-B) for one-way. N=A\* (L=A-B\*) for two-way. A1-B1,A2-B2 for dualized.
- Perform AM Select Zone and/or Link Analysis? If Yes
- For Node Analysis use (N=###), For Link Analysis use (L=### - ##); N=A (L=A-B) for one-way. N=A\* (L=A-B\*) for two-way. A1-B1,A2-B2 for dualized.
- Perform MD Select Zone and/or Link Analysis? If Yes
- For Node Analysis use (N=###), For Link Analysis use (L=### - ##); N=A (L=A-B) for one-way. N=A\* (L=A-B\*) for two-way. A1-B1,A2-B2 for dualized.
- Perform PM Select Zone and/or Link Analysis? If Yes
- For Node Analysis use (N=###), For Link Analysis use (L=### - ##); N=A (L=A-B) for one-way. N=A\* (L=A-B\*) for two-way. A1-B1,A2-B2 for dualized.
- Perform EV Select Zone and/or Link Analysis? If Yes
- For Node Analysis use (N=###), For Link Analysis use (L=### - ##); N=A (L=A-B) for one-way. N=A\* (L=A-B\*) for two-way. A1-B1,A2-B2 for dualized.

L=60915-60764\*

(L=543-55306\*)

(L=543-55306\*)

(L=543-55306\*)

(L=543-55306\*)



# Select Link Analysis

Using select zone to obtain the volume associated with zone 543.

Perform Daily Select Link Analysis  
 Perform Select Zone and/or Link Analysis? If Yes  
For Node Analysis use (N=###), For Link Analysis use (L=### - ##); N=A (L=A-B) for one-way. N=A\* (L=A-B\*) for two-way. A1-B1,A2-B2 for dualized.

Perform AM Select Zone and/or Link Analysis? If Yes  
For Node Analysis use (N=###), For Link Analysis use (L=### - ##); N=A (L=A-B) for one-way. N=A\* (L=A-B\*) for two-way. A1-B1,A2-B2 for dualized.

Perform MD Select Zone and/or Link Analysis? If Yes  
For Node Analysis use (N=###), For Link Analysis use (L=### - ##); N=A (L=A-B) for one-way. N=A\* (L=A-B\*) for two-way. A1-B1,A2-B2 for dualized.

Perform PM Select Zone and/or Link Analysis? If Yes  
For Node Analysis use (N=###), For Link Analysis use (L=### - ##); N=A (L=A-B) for one-way. N=A\* (L=A-B\*) for two-way. A1-B1,A2-B2 for dualized.

Perform EV Select Zone and/or Link Analysis? If Yes  
For Node Analysis use (N=###), For Link Analysis use (L=### - ##); N=A (L=A-B) for one-way. N=A\* (L=A-B\*) for two-way. A1-B1,A2-B2 for dualized.

L=60915-60764\*

(N=543\*)

(N=543\*)

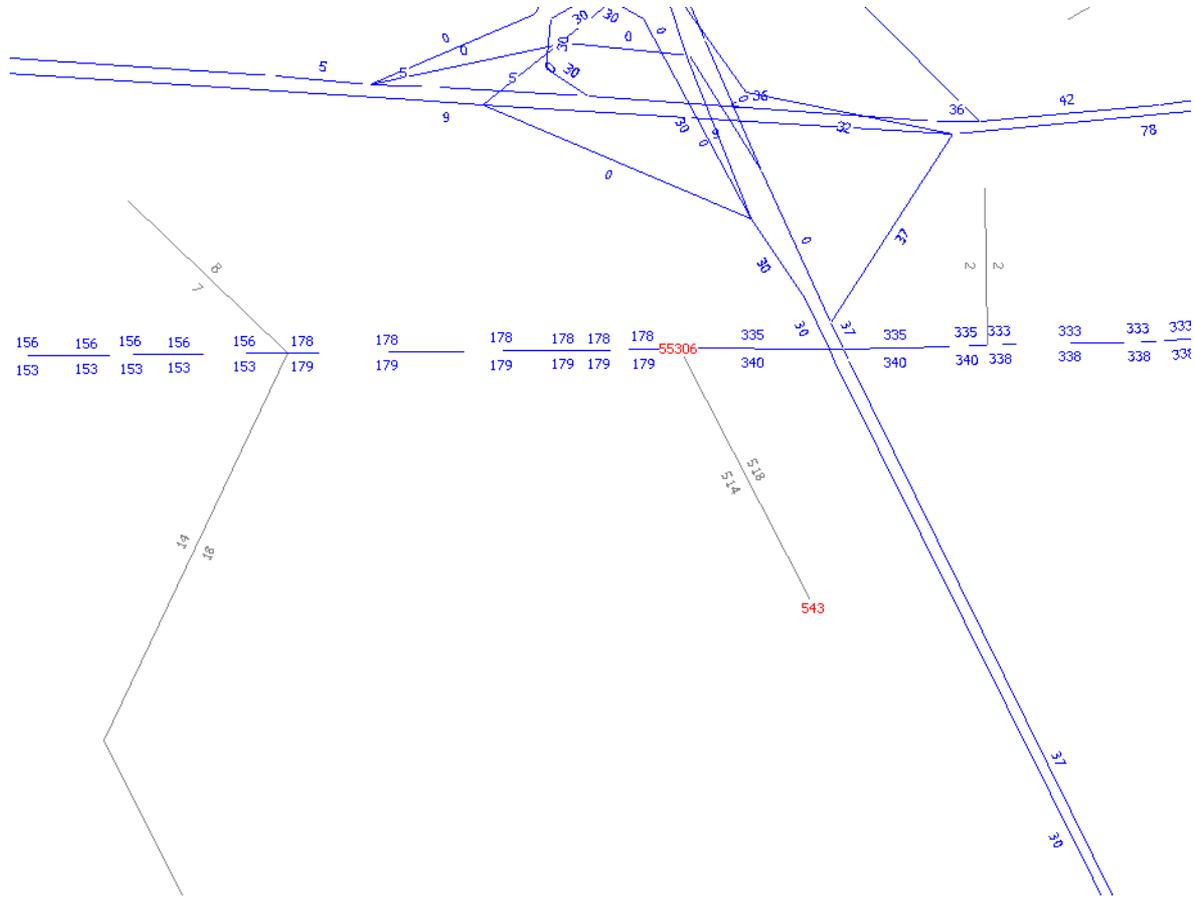
(N=543\*)

(N=543\*)



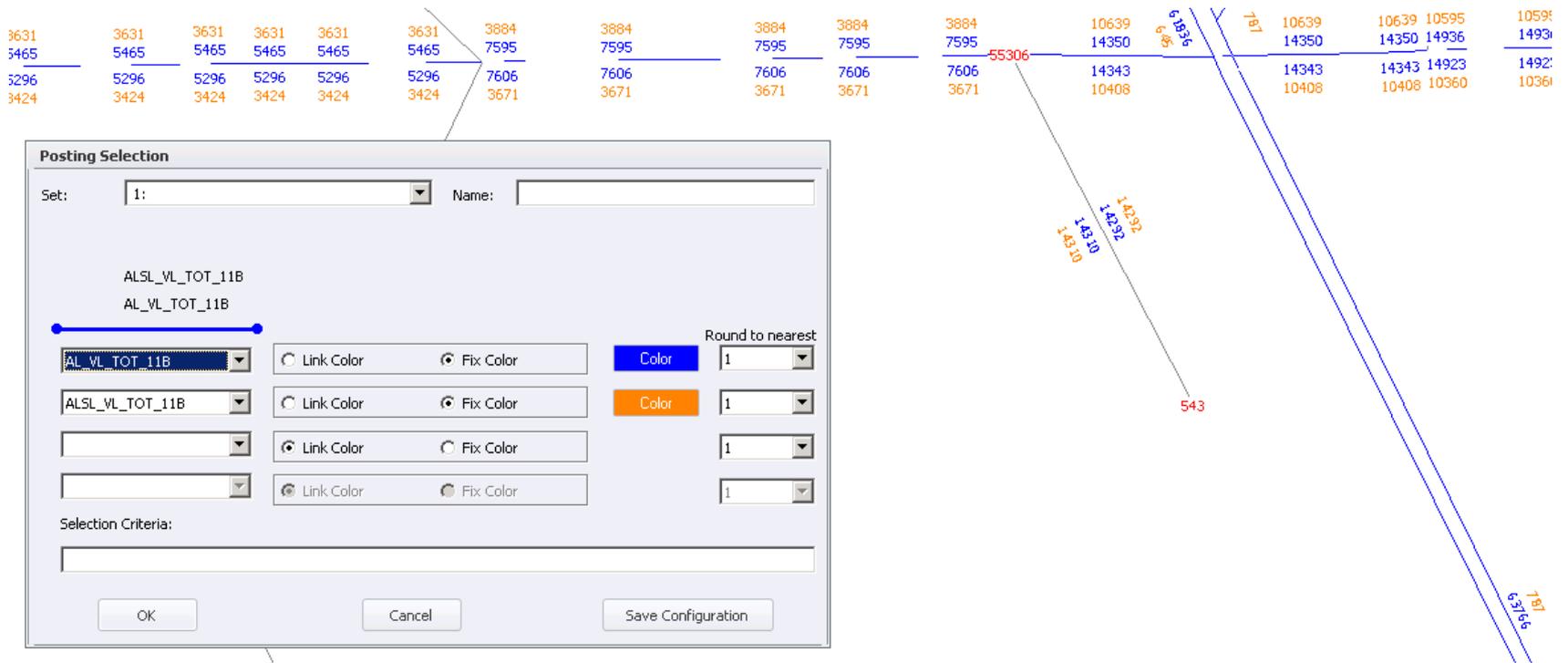
# Select Link Analysis

Select link (543-55306) daily total volume without additional development.



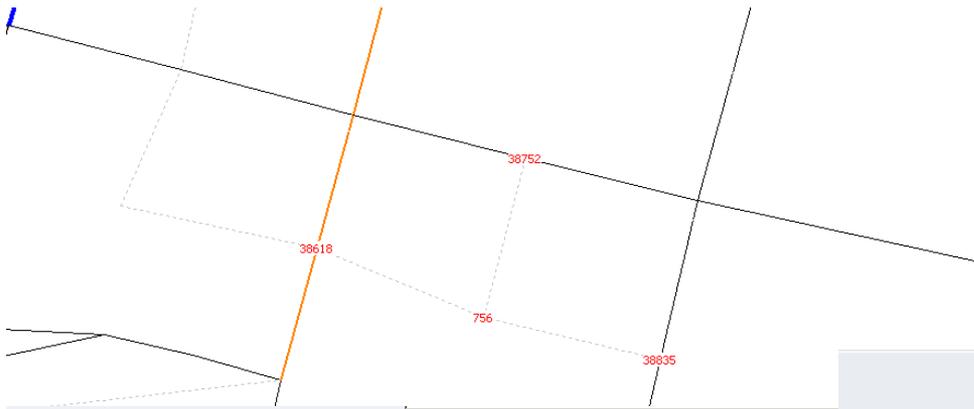
# Select Link Analysis

Select link (543-55306) daily total volume with additional development.



# Select Link Analysis

Using select link to obtain the volume associated with zone 756.



- Perform Daily Select Link Analysis
- Perform Select Zone and/or Link Analysis? If Yes  
For Node Analysis use (N=###), For Link Analysis use (L=### - ##); N=A (L=A-B) for one-way, N=A\* (L=A-B\*) for two-way. A1-B1,A2-B2 for dualized.
- Perform AM Select Zone and/or Link Analysis? If Yes  
For Node Analysis use (N=###), For Link Analysis use (L=### - ##); N=A (L=A-B) for one-way, N=A\* (L=A-B\*) for two-way. A1-B1,A2-B2 for dualized.
- Perform MD Select Zone and/or Link Analysis? If Yes  
For Node Analysis use (N=###), For Link Analysis use (L=### - ##); N=A (L=A-B) for one-way, N=A\* (L=A-B\*) for two-way. A1-B1,A2-B2 for dualized.
- Perform PM Select Zone and/or Link Analysis? If Yes  
For Node Analysis use (N=###), For Link Analysis use (L=### - ##); N=A (L=A-B) for one-way, N=A\* (L=A-B\*) for two-way. A1-B1,A2-B2 for dualized.
- Perform EV Select Zone and/or Link Analysis? If Yes  
For Node Analysis use (N=###), For Link Analysis use (L=### - ##); N=A (L=A-B) for one-way, N=A\* (L=A-B\*) for two-way. A1-B1,A2-B2 for dualized.

L=60915-60764\*

((L = 756-38752\*) || (L = 756-38618\*) || (756-38835\*))

((L = 756-38752\*) || (L = 756-38618\*) || (756-38835\*))

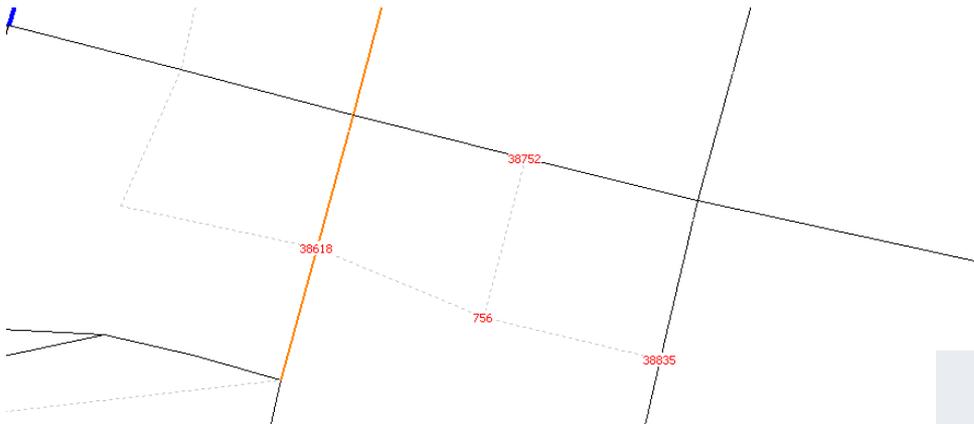
((L = 756-38752\*) || (L = 756-38618\*) || (756-38835\*))

((L = 756-38752\*) || (L = 756-38618\*) || (756-38835\*))



# Select Link Analysis

Using select zone to obtain the volume associated with zone 756.



- Perform Daily Select Link Analysis
- Perform Select Zone and/or Link Analysis? If Yes
- For Node Analysis use (N=###), For Link Analysis use (L=### - ##); N=A (L=A-B) for one-way, N=A\* (L=A-B\*) for two-way, A1-B1,A2-B2 for dualized.
- Perform AM Select Zone and/or Link Analysis? If Yes
- For Node Analysis use (N=###), For Link Analysis use (L=### - ##); N=A (L=A-B) for one-way, N=A\* (L=A-B\*) for two-way, A1-B1,A2-B2 for dualized.
- Perform MD Select Zone and/or Link Analysis? If Yes
- For Node Analysis use (N=###), For Link Analysis use (L=### - ##); N=A (L=A-B) for one-way, N=A\* (L=A-B\*) for two-way, A1-B1,A2-B2 for dualized.
- Perform PM Select Zone and/or Link Analysis? If Yes
- For Node Analysis use (N=###), For Link Analysis use (L=### - ##); N=A (L=A-B) for one-way, N=A\* (L=A-B\*) for two-way, A1-B1,A2-B2 for dualized.
- Perform EV Select Zone and/or Link Analysis? If Yes
- For Node Analysis use (N=###), For Link Analysis use (L=### - ##); N=A (L=A-B) for one-way, N=A\* (L=A-B\*) for two-way, A1-B1,A2-B2 for dualized.

L=60915-60764\*

(N=756\*)

(N=756\*)

(N=756\*)

(N=756\*)



# Select Link Analysis

New variables associated with selected link volume for the AM, MD, PM, NT, and AL volumes.

Time Period*	Attribute	Description
Time Period	SL_VL_TOT_XX?	Selected Link total volume for year XXXX and scenario "?"
Time Period	SL_VL_DA_XX?	Selected Link DA-Free&Toll-II&IE+EE traffic
Time Period	SL_F_DA_XX?	Selected Link DA-II&IE-Free traffic
Time Period	SL_T_DA_XX?	Selected Link DA-II&IE-Toll
Time Period	SL_F_EDA_XX?	Selected Link DA-EE-Free
Time Period	SL_T_EDA_XX?	Selected Link DA-EE-Toll
Time Period	SL_VL_SR2_XX?	Selected Link SR2-Free&Toll-II&IE+EE traffic
Time Period	SL_F_SR2_XX?	Selected Link SR2-II&IE-Free
Time Period	SL_T_SR2_XX?	Selected Link SR2-II&IE-Toll
Time Period	SL_F_ESR2_XX?	Selected Link SR2-EE-Free
Time Period	SL_T_ESR2_XX?	Selected Link SR2-EE-Toll
Time Period	SL_VL_SR3_XX?	Selected Link SR3-Free&Toll-II&IE+EE traffic
Time Period	SL_F_SR3_XX?	Selected Link SR3-II&IE-Free
Time Period	SL_T_SR3_XX?	Selected Link SR3-II&IE-Toll
Time Period	SL_F_ESR3_XX?	Selected Link SR3-EE-Free
Time Period	SL_T_ESR3_XX?	Selected Link SR3-EE-Toll
Time Period	SL_VL_TRK_XX?	Selected Link Truck-II&IE+EE+Port
Time Period	SL_VL_PRTTK_XX?	Selected Link Port-Truck
Time Period	SL_VL_EXT_XX?	Selected Link EXT-TRK + EE-Free&Toll(DA+SR2+SR3)

\* AM = morning peak, MD= midday period, PM=afternoon peak, NT=night time period, AL= Daily time period



# Select Link Analysis

Wiki Section 7.1 Version NERPMAB1v2 Table 7-1 lists all variables on the loaded highway network.

Table 7-1 NERPAB1v2 Loaded highway network fields

NERPM AB LOADED NETWORK Fields		NERPM AB LOADED NETWORK Fields	
New Variable	Description	New Variable	Description
COUNT	Directional 2010 AADT count value, 0 if not available		
AMCOUNT	Directional 2010 AM count value, 0 if not available		
MDCOUNT	Directional 2010 MD count value, 0 if not available		
PMCOUNT	Directional 2010 PM count value, 0 if not available		
NTCOUNT	Directional 2010 NT count value, 0 if not available		
SCREENLINE_YR10	Screenline number for year 2010		
NT_VL_TOT_10A	Night offpeak time total volume for year 2010 and scenario "A"	NTSL_VL_TOT_10A	Selected Link Night offpeak time total volume for year 2010 and scenario "A"
NT_VL_DA_10A	Night offpeak DA-Free&Toll-II&IE+EE traffic	NTSL_VL_DA_10A	Selected Link Night offpeak DA-Free&Toll-II&IE+EE traffic
NT_F_DA_10A	Night offpeak DA-II&IE-Free traffic	NTSL_F_DA_10A	Selected Link Night offpeak DA-II&IE-Free traffic
NT_T_DA_10A	Night offpeak DA-II&IE-Toll	NTSL_T_DA_10A	Selected Link Night offpeak DA-II&IE-Toll
NT_F_EDA_10A	Night offpeak DA-EE-Free	NTSL_F_EDA_10A	Selected Link Night offpeak DA-EE-Free
NT_T_EDA_10A	Night offpeak DA-EE-Toll	NTSL_T_EDA_10A	Selected Link Night offpeak DA-EE-Toll
NT_VL_SR2_10A	Night offpeak SR2-Free&Toll-II&IE+EE traffic	NTSL_VL_SR2_10A	Selected Link Night offpeak SR2-Free&Toll-II&IE+EE traffic
NT_F_SR2_10A	Night offpeak SR2-II&IE-Free	NTSL_F_SR2_10A	Selected Link Night offpeak SR2-II&IE-Free
NT_T_SR2_10A	Night offpeak SR2-II&IE-Toll	NTSL_T_SR2_10A	Selected Link Night offpeak SR2-II&IE-Toll
NT_F_ESR2_10A	Night offpeak SR2-EE-Free	NTSL_F_ESR2_10A	Selected Link Night offpeak SR2-EE-Free
NT_T_ESR2_10A	Night offpeak SR2-EE-Toll	NTSL_T_ESR2_10A	Selected Link Night offpeak SR2-EE-Toll





# Wiki & Support

# Overview of Training

Wiki link:

<https://rsginc.atlassian.net/wiki/display/NRPMAB/NERPM+Home+Page>

The screenshot shows a Wiki page titled "NERPM Home Page" under the heading "NORTHEAST REGIONAL PLANNING MODEL: ACTIVITY BASED". The page is created by Stephen Lawe and last modified on Jun 12, 2015. A navigation sidebar on the left lists "CHILD PAGES" including "NERPM Home Page", "FREQUENTLY ASKED QUEST...", "SUPPORT", "1.0 OVERVIEW", "2.0 HARDWARE & SOFTWARE...", "3.0 MODEL DESIGN", "4.0 DIRECTORY & DATA STR...", "5.0 USER INTERFACE & RUN...", "6.0 CONFIGURING A SCENAR...", and "7.0 VERSION UPDATES". The main content area features a banner image of a city skyline and traffic, with the text "PREPARED FOR: North Florida Transportation Planning Organization". Logos for "North Florida TPO" and "RSG the science of insight" are displayed, along with the text "SUBMITTED BY: RSG" and "Recent space activity".



# Overview of Training

**Support email:** [NERPM\\_Support@rsginc.com](mailto:NERPM_Support@rsginc.com)

 <p>NORTHEAST REGIONAL PLANNING MODEL: ACTIVITY BASED</p> <p>Blog</p> <p>CHILD PAGES</p> <ul style="list-style-type: none"><li>NERPM Home Page</li><li>SUPPORT</li></ul>	<p><a href="#">Pages / NERPM Home Page</a></p> <h2>SUPPORT</h2> <p>Created by Stephen Lawe, last modified on Sep 16, 2015</p> <p>For support, please first check "<a href="#">Frequently Asked Questions</a>". If additional information is needed, please click the link below.</p> <p><a href="mailto:NERPM_Support@rsginc.com">NERPM_Support@rsginc.com</a></p> <p>Thank you very much.</p>
---	--





Questions?