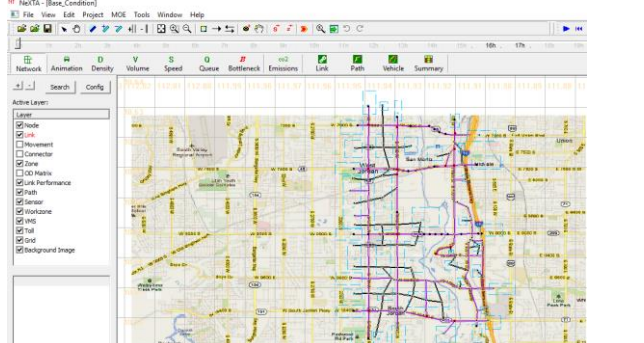
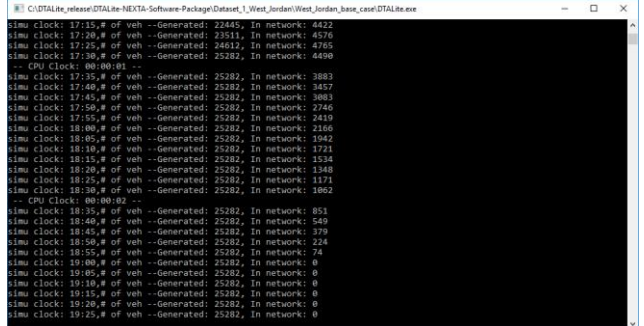


Installation Notes for DTALite and NeXTA Version 1.1

The DTALite and NeXTA package only run on Windows 7, Windows 10, Windows XP and Windows Vista.

Please make sure you have unzipped the downloaded zip file "DTALite-NEXTA-Software-Package.zip".

We have two programs in this integrated GUI and simulation package.

<ul style="list-style-type: none"> • NEXTA: front-end GUI (C++) 	
<ul style="list-style-type: none"> • DTALite: Open-source computational engine (C++) <ul style="list-style-type: none"> – Light-weight and agent-based DTA – Built-in OD demand matrix estimation (ODME) program 	

Step 1: Install required software packages. Go to folder "Installation_required_software_packages", and make sure that you have installed the Microsoft Visual C++ 2015 Redistributable Package (x64) "vc_redist.x64" for parallel computing in DTALite. The package can be also downloaded from <https://www.microsoft.com/en-us/download/details.aspx?id=48145>.

DTALite-NEXTA-Software-Package > Installation_required_software_packages			
Name	Date modified	Type	Size
gp463-win32-setup	10/3/2014 3:42 PM	Application	10,220 KB
vc_redist.x64	7/1/2016 1:21 AM	Application	14,231 KB

Make sure that you have installed Gnuplot Software (gp463-win32-setup) for some visualization functions in NeXTA (<http://www.gnuplot.info/>)

Step 2: Run DTALite.exe to test. Go to folder "Dataset_1_West_Jordan\\West_Jordan_base_case", run executable "DTALite.exe" from File Explorer. You are expected to see a black command window running for about 30 seconds to 1 min. Please ensure you are not working inside a zipped folder.

DTALite-NEXTA-Software-Package > Dataset_1_West_Jordan > West_Jordan_base_case

Name	Date modified	Type	Size
agent.bin	1/23/2017 12:09 AM	BIN File	5,279 KB
background_image	1/11/2013 9:43 AM	BMP File	2,142 KB
Base_Condition.tnp	1/22/2017 4:23 PM	TNP File	2 KB
debug	1/23/2017 12:09 AM	Text Document	0 KB
DTALite	6/30/2016 3:33 PM	Application	1,102 KB
DTASettings	1/23/2017 12:09 AM	Text Document	4 KB
input_activity_location	1/22/2017 4:14 PM	Microsoft Excel C...	1 KB

```

C:\DTALite_release\DTALite-NEXTA-Software-Package\Dataset_1_West_Jordan\West_Jordan_base_case\DTALite.exe
simu clock: 17:15,# of veh --Generated: 22445, In network: 4422
simu clock: 17:20,# of veh --Generated: 23511, In network: 4576
simu clock: 17:25,# of veh --Generated: 24612, In network: 4765
simu clock: 17:30,# of veh --Generated: 25282, In network: 4490
-- CPU Clock: 00:00:01 --
simu clock: 17:35,# of veh --Generated: 25282, In network: 3883
simu clock: 17:40,# of veh --Generated: 25282, In network: 3457
simu clock: 17:45,# of veh --Generated: 25282, In network: 3083
simu clock: 17:50,# of veh --Generated: 25282, In network: 2746
simu clock: 17:55,# of veh --Generated: 25282, In network: 2419
simu clock: 18:00,# of veh --Generated: 25282, In network: 2166
simu clock: 18:05,# of veh --Generated: 25282, In network: 1942
simu clock: 18:10,# of veh --Generated: 25282, In network: 1721
simu clock: 18:15,# of veh --Generated: 25282, In network: 1534
simu clock: 18:20,# of veh --Generated: 25282, In network: 1348
simu clock: 18:25,# of veh --Generated: 25282, In network: 1171
simu clock: 18:30,# of veh --Generated: 25282, In network: 1062
-- CPU Clock: 00:00:02 --
simu clock: 18:35,# of veh --Generated: 25282, In network: 851
simu clock: 18:40,# of veh --Generated: 25282, In network: 549
simu clock: 18:45,# of veh --Generated: 25282, In network: 379
simu clock: 18:50,# of veh --Generated: 25282, In network: 224
simu clock: 18:55,# of veh --Generated: 25282, In network: 74
simu clock: 19:00,# of veh --Generated: 25282, In network: 0
simu clock: 19:05,# of veh --Generated: 25282, In network: 0
simu clock: 19:10,# of veh --Generated: 25282, In network: 0
simu clock: 19:15,# of veh --Generated: 25282, In network: 0
simu clock: 19:20,# of veh --Generated: 25282, In network: 0
simu clock: 19:25,# of veh --Generated: 25282, In network: 0

```

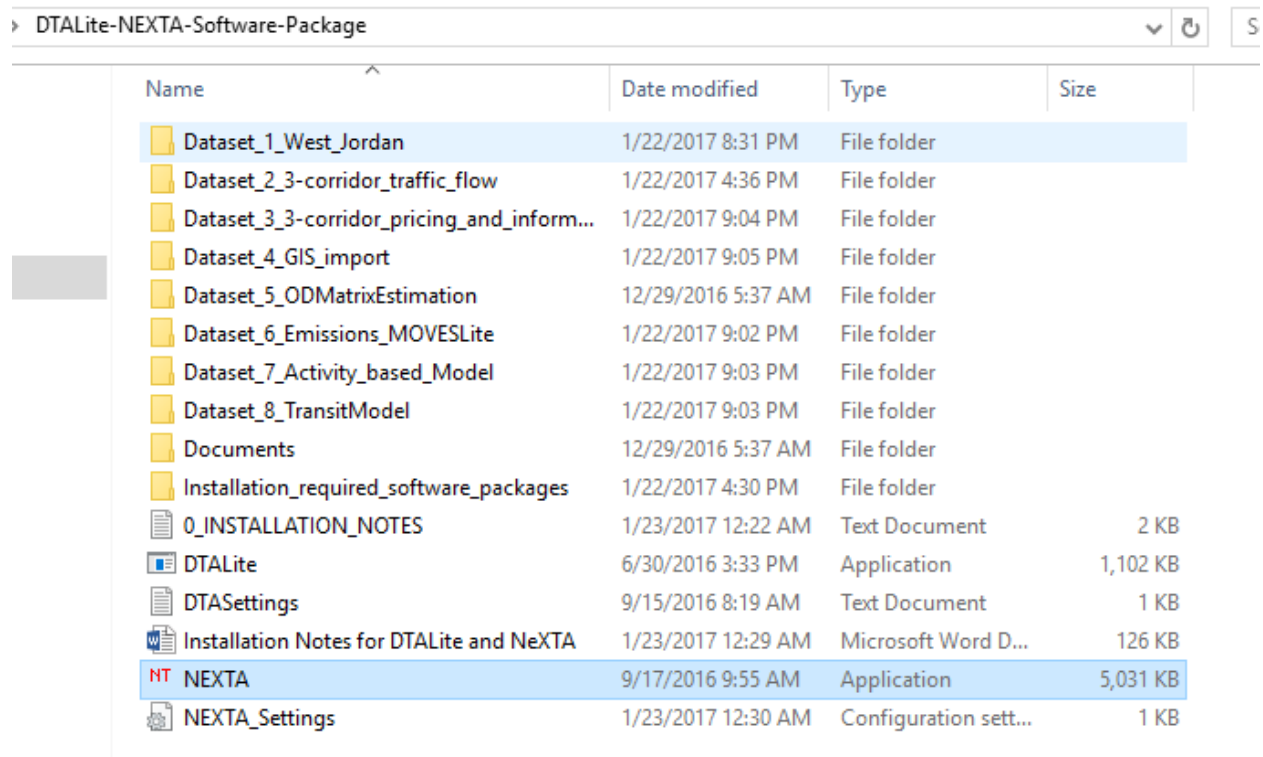
If you do not see the black command window, you can contact developers Dr. Xuesong Zhou at xzhou74@asu.edu and Jiangtao (Tony) Liu at jiangtao.liu@asu.edu for more information.

Step 3: Check simulation summary. At the same folder, open file output_summary.csv, you should be able to see the Software Version Number and Simulation Date (which should be close to your current time).

	A	B	C	D	E	F	G
1	DTALite:						
2	A Fast Open Source DTA Engine						
3	Software Version =	1.1.0					
4	Release Date=	Jun 25 2016					
5	Simulation Date =	year: 2017	month:01	day:23	hour: 0	min:24	
6	-----test1-----						
7	Signal Control Representation =	Continuous Flow with Link Capacity Constraint					
8	Traffic Flow Model =	Point Queue Model					
9	Assignment method=	MSA					
10							

You can view the other simulation statistics in this file.

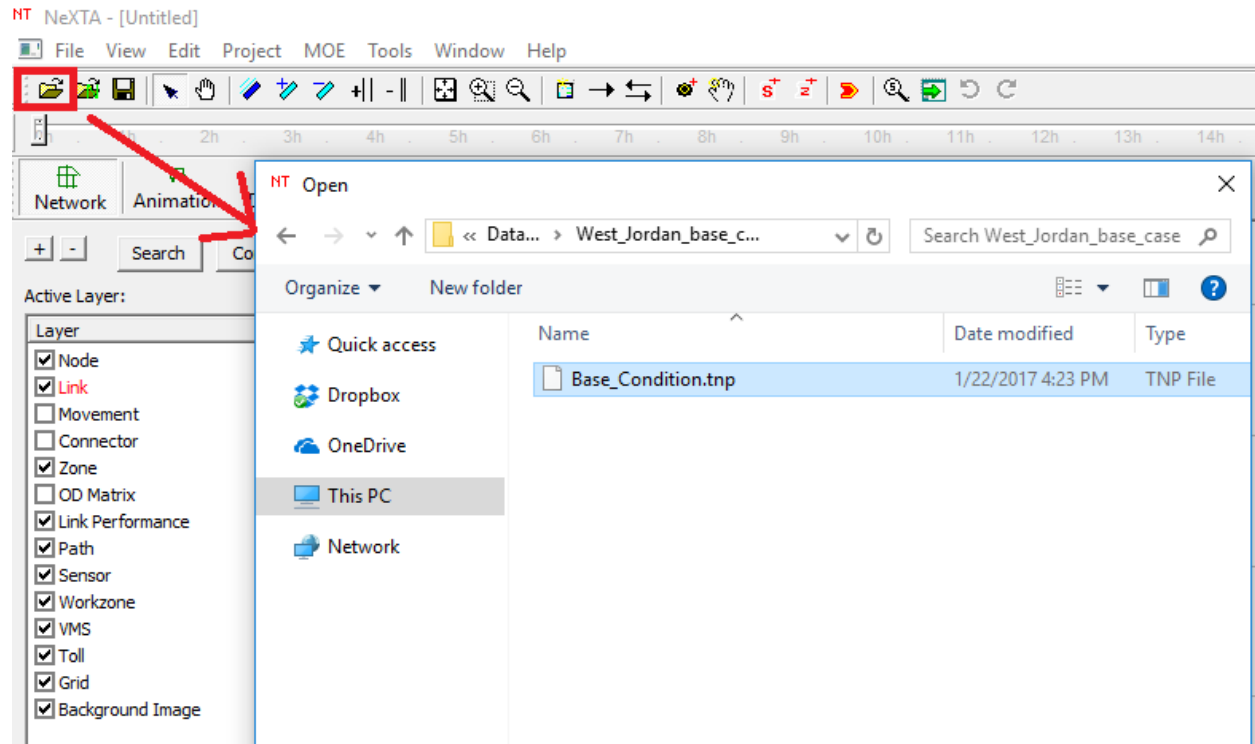
Step 4: Use NeXTA to visualize West Jordan dataset. Go back to folder “DTALite-NEXTA-Software-Package”, click on NeXTA.exe,



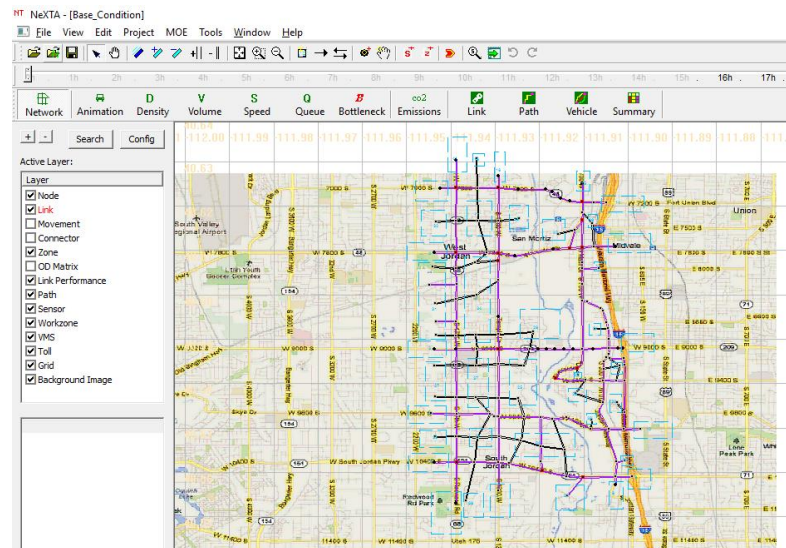
DTALite-NEXTA-Software-Package

Name	Date modified	Type	Size
Dataset_1_West_Jordan	1/22/2017 8:31 PM	File folder	
Dataset_2_3-corridor_traffic_flow	1/22/2017 4:36 PM	File folder	
Dataset_3_3-corridor_pricing_and_inform...	1/22/2017 9:04 PM	File folder	
Dataset_4_GIS_import	1/22/2017 9:05 PM	File folder	
Dataset_5_ODMatrixEstimation	12/29/2016 5:37 AM	File folder	
Dataset_6_Emissions_MOVESLite	1/22/2017 9:02 PM	File folder	
Dataset_7_Activity_based_Model	1/22/2017 9:03 PM	File folder	
Dataset_8_TransitModel	1/22/2017 9:03 PM	File folder	
Documents	12/29/2016 5:37 AM	File folder	
Installation_required_software_packages	1/22/2017 4:30 PM	File folder	
0_INSTALLATION_NOTES	1/23/2017 12:22 AM	Text Document	2 KB
DTALite	6/30/2016 3:33 PM	Application	1,102 KB
DTASettings	9/15/2016 8:19 AM	Text Document	1 KB
Installation Notes for DTALite and NeXTA	1/23/2017 12:29 AM	Microsoft Word D...	126 KB
NeXTA	9/17/2016 9:55 AM	Application	5,031 KB
NeXTA_Settings	1/23/2017 12:30 AM	Configuration sett...	1 KB

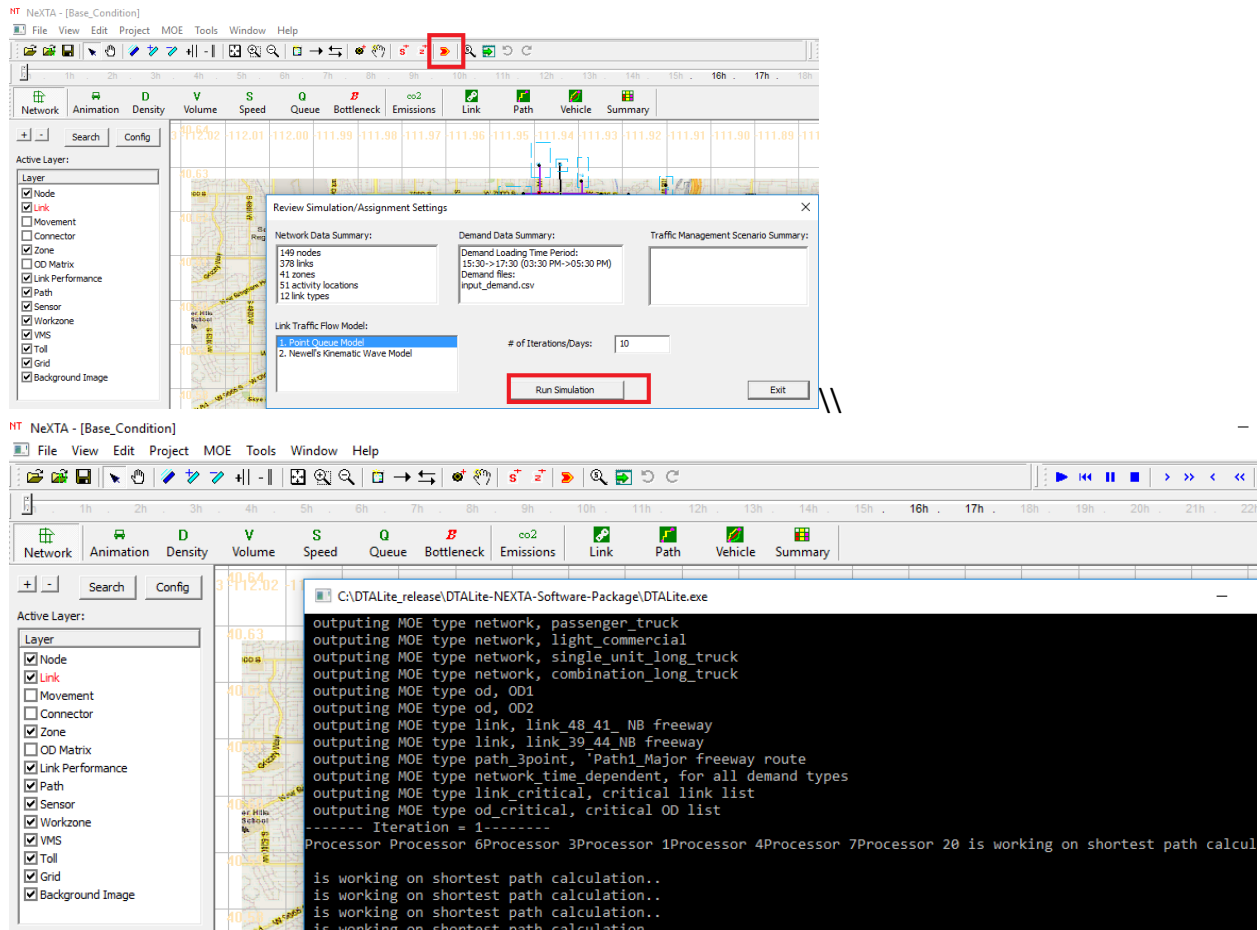
and open folder, DTALite-NEXTA-Software-Package\Dataset_1_West_Jordan\West_Jordan_base_case and select File Open Button to open Base_condition.tnp.



You should be able to see the visualization results.



Please click on the run button in the toolbar, and run simulation to ensure you can also see the black command window.



Step 5: Find documents. You can go to folder DTALite-NEXTA-Software-Package\Documents to find white papers, user guides, and training presentation file.

DTALite-NEXTA-Software-Package > Documents				
Name	Date modified	Type	Size	
0_Paper_DTALite A queue based mesosco...	1/23/2017 12:40 AM	Foxit PhantomPD...	1,676 KB	
1_Data Structure and Workflow of DTALit...	6/30/2016 4:04 PM	Foxit PhantomPD...	917 KB	
2_Users_Guide_of_NeXTA	6/12/2013 11:08 PM	Foxit PhantomPD...	1,945 KB	
3_User Guide for ABM DTA Day_by_day In...	6/30/2016 4:05 PM	Foxit PhantomPD...	519 KB	
4_Users_Guide_for OD Estimation	6/30/2016 4:05 PM	Foxit PhantomPD...	886 KB	
Workshop Handout	6/30/2016 4:21 PM	Microsoft Word D...	413 KB	
Workshop_Presentation	10/5/2016 8:48 AM	Microsoft PowerP...	9,170 KB	