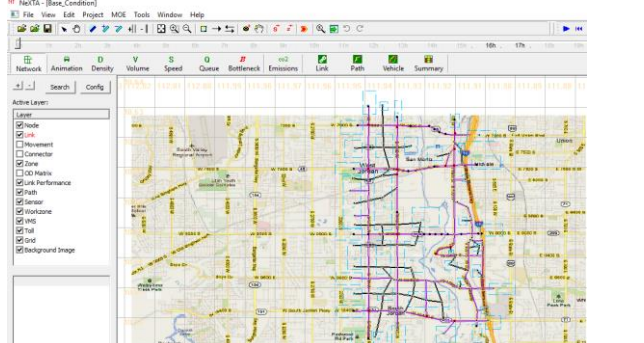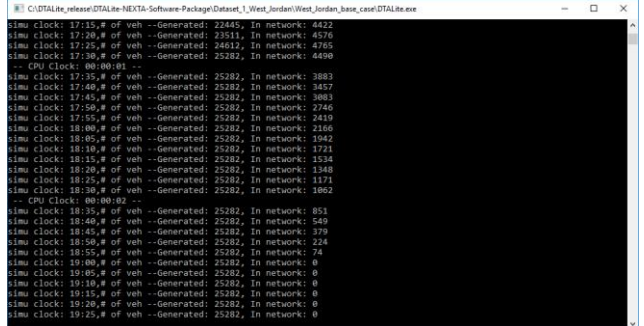**Installation Notes for DTALite and NeXTA Version 1.1**

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.

• NEXTA: front-end GUI (C++)	

• DTALite: Open-source computational engine (C++)
   – 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.

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.

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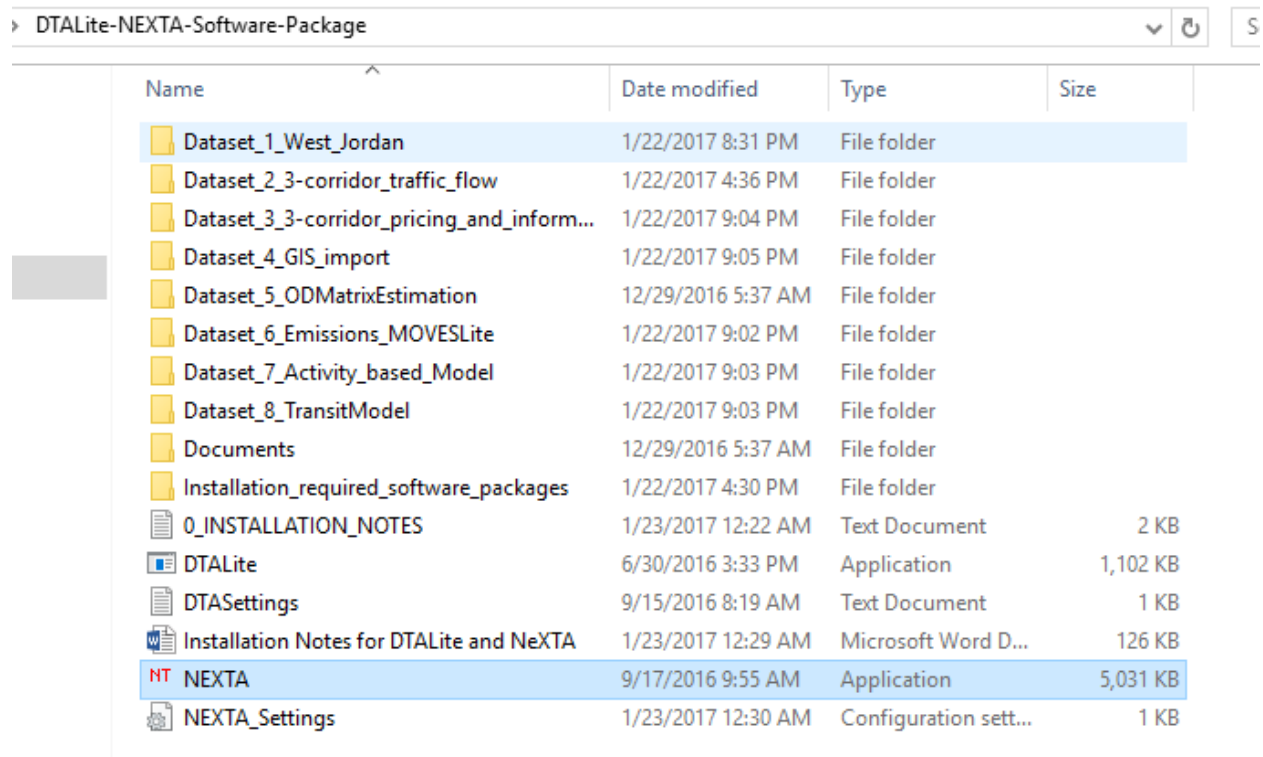
If you do not see the black command window, you can contact developers Dr. Xuesong Zhou at xzhou74@asu.edu and Jiangtao (Tony) Liu at jiangtao.liu@asu.edu for more information.

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).

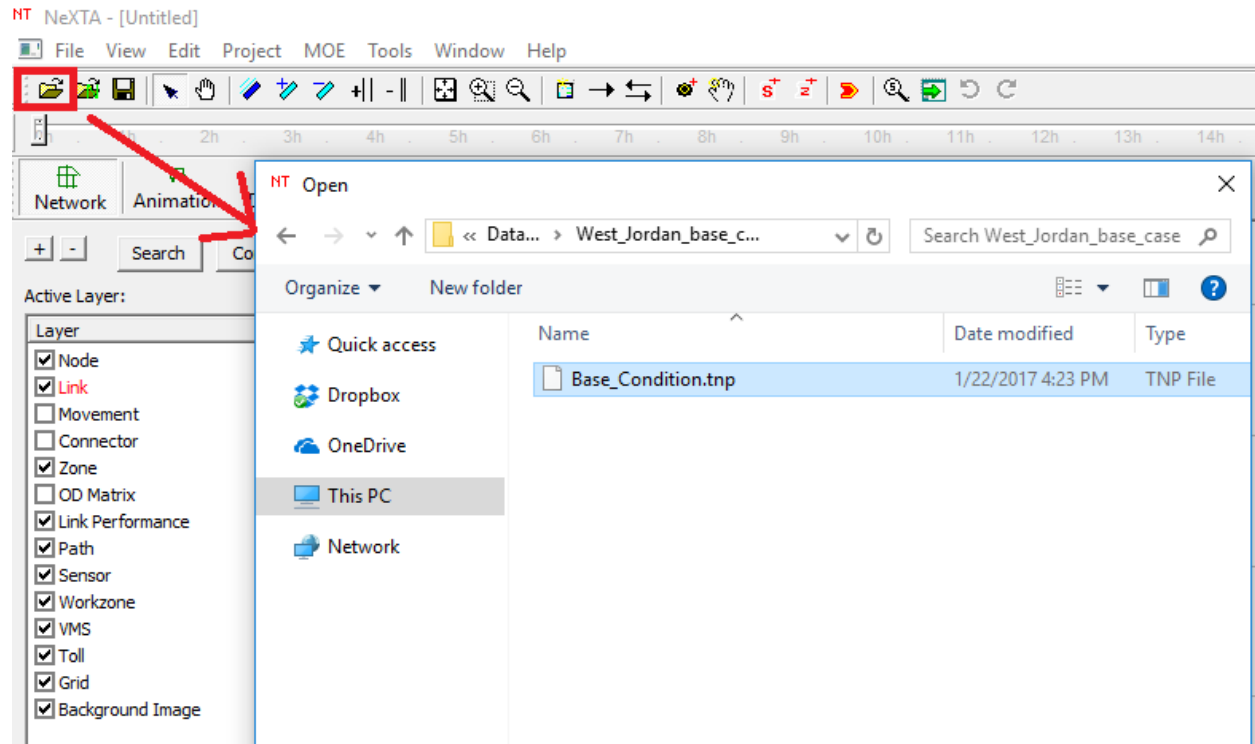|	A	B	C	D	E	F	G
1	DTALite:						
2	A Fast Open Source DTA Engine						
3	Software Version =	1.1.0					
4	Release Date=	Jun 25 2016					
5	Simulation Date =	year: 2017	month:01	day:23	hour: 0	min:24	
6	---------------------test1---------------------						
7	Signal Control Representation =	Continuous Flow 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,
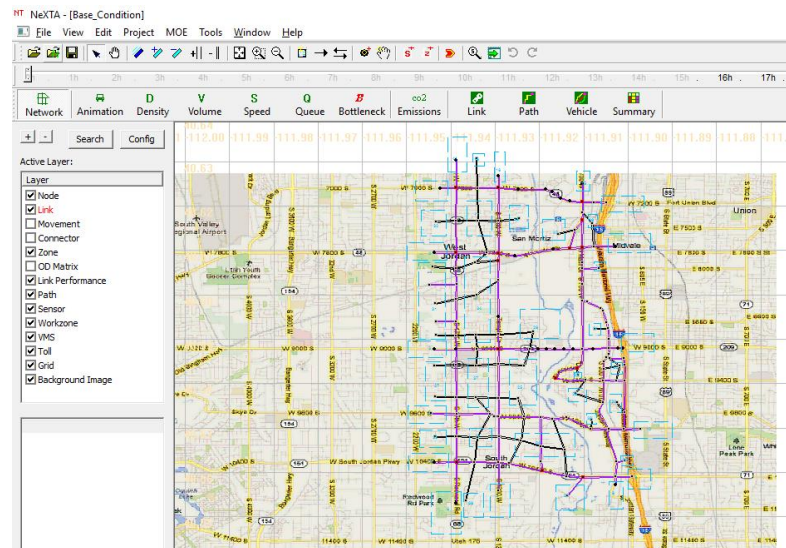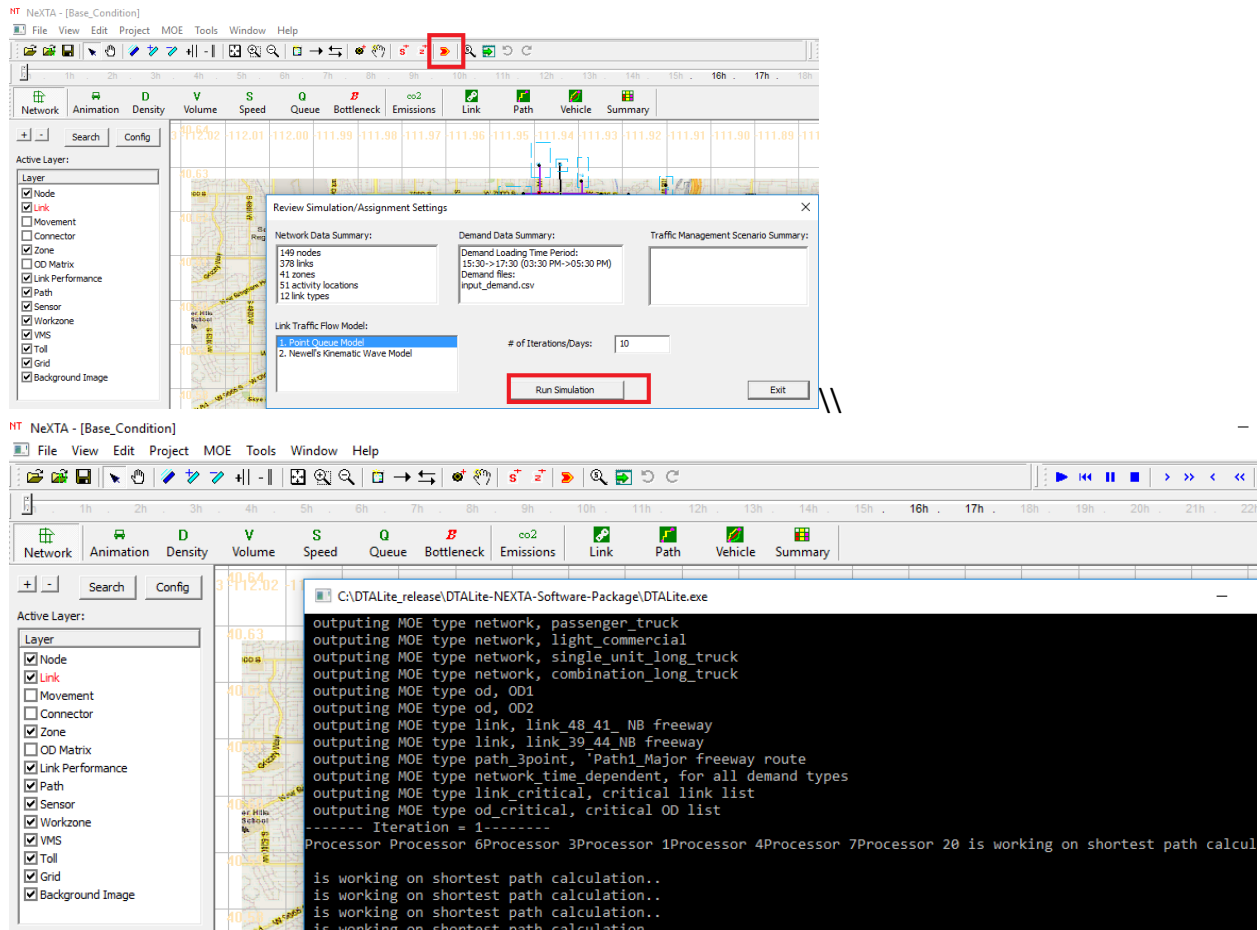

and open folder, DTALite-NEXTA-Software-Package\Dataset_1_West_Jordan\West_Jordan_base_case and select File Open Button to open Base_condition.tnp.

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.