SmartRoads ver 7.1.2
SmartRoads ver 7.1.3

28 Oct 2015

arrb GROUP

TC-423-1-4-8

Trusted advisor on roads and transport

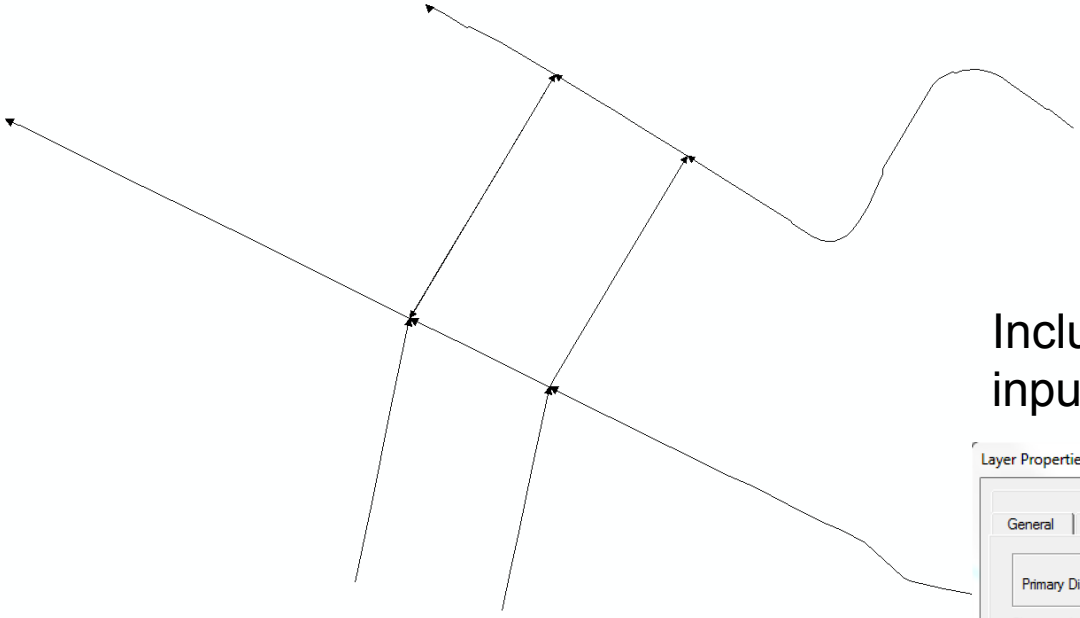
Introduction

- SmartRoads version 6.2.6 was developed by VicRoads (2013)
- SmartRoads version 7.1.3 was developed by ARRB (2015)
- Version 7.1.3 uses the same methodology and formulas as version 6.2.6
- GIS interface was introduced in version 7.1.3 to allow users the option to visualise and edit in a GIS interface and to easily translate SmartRoads files to/from GIS shapefiles
- This user guide illustrates the GIS interface functionality
- For details on the method and formula refer to version 6.2.6 user guide
- For feedback/support contact: nopsupport@arrb.com.au

Key application files

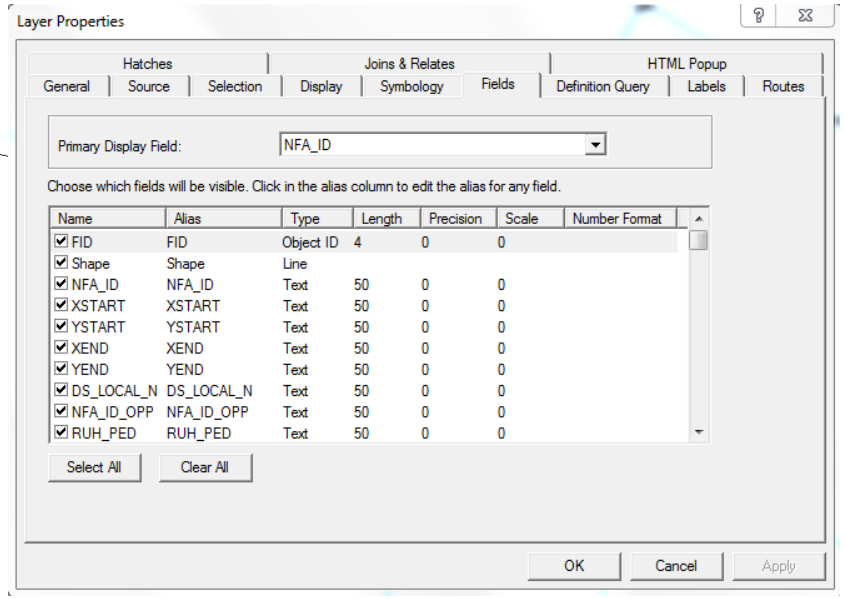
CsvHelper.dll	9/10/2015 4:09 PM	Application extens...	79 KB
CsvHelper.pdb	29/09/2015 3:52 PM	PDB File	262 KB
CsvHelper	9/10/2015 4:09 PM	XML Document	218 KB
DotSpatial.Data.dll	9/10/2015 4:09 PM	Application extens...	395 KB
DotSpatial.Mono.dll	9/10/2015 4:09 PM	Application extens...	5 KB
DotSpatial.Projections.dll	9/10/2015 4:09 PM	Application extens...	19,360 KB
DotSpatial.Topology.dll	9/10/2015 4:09 PM	Application extens...	318 KB
NFA	21/10/2015 4:30 PM	ClickOnce Applica...	2 KB
NFA	21/10/2015 4:30 PM	Application	837 KB
NFA.exe	22/09/2015 3:16 PM	XML Configuratio...	3 KB
NFA.exe.manifest	21/10/2015 4:30 PM	MANIFEST File	9 KB
NFA.pdb	21/10/2015 4:30 PM	PDB File	708 KB
NFA	21/10/2015 4:30 PM	XML Document	72 KB
NFAconfig	1/10/2015 4:50 PM	Text Document	17 KB
NFAhelp	16/08/2013 1:46 PM	Text Document	83 KB
NFAnetwork field mapping	28/09/2015 12:36 ...	Microsoft Excel C...	3 KB
NFAnetwork.cpg	29/09/2015 11:12 ...	CPG File	1 KB
NFAnetwork	28/10/2015 1:41 PM	Microsoft Excel C...	4 KB
NFAnetwork.dbf	20/10/2015 4:52 PM	DBF File	42 KB
NFANetwork	28/10/2015 1:41 PM	ESRI ArcMap Doc...	405 KB
NFAnetwork	28/10/2015 1:41 PM	NFA File	80 KB
NFAnetwork.prj	13/10/2015 11:33 ...	PRJ File	1 KB
NFANetwork.sbn	20/10/2015 4:52 PM	SBN File	1 KB
NFANetwork.sbx	20/10/2015 4:52 PM	SBX File	1 KB
NFAnetwork.shp	20/10/2015 4:52 PM	SHP File	4 KB
NFAnetwork.shx	20/10/2015 4:52 PM	SHX File	1 KB
NFANetwork	13/10/2015 11:33 ...	XML Document	2 KB

Sample network

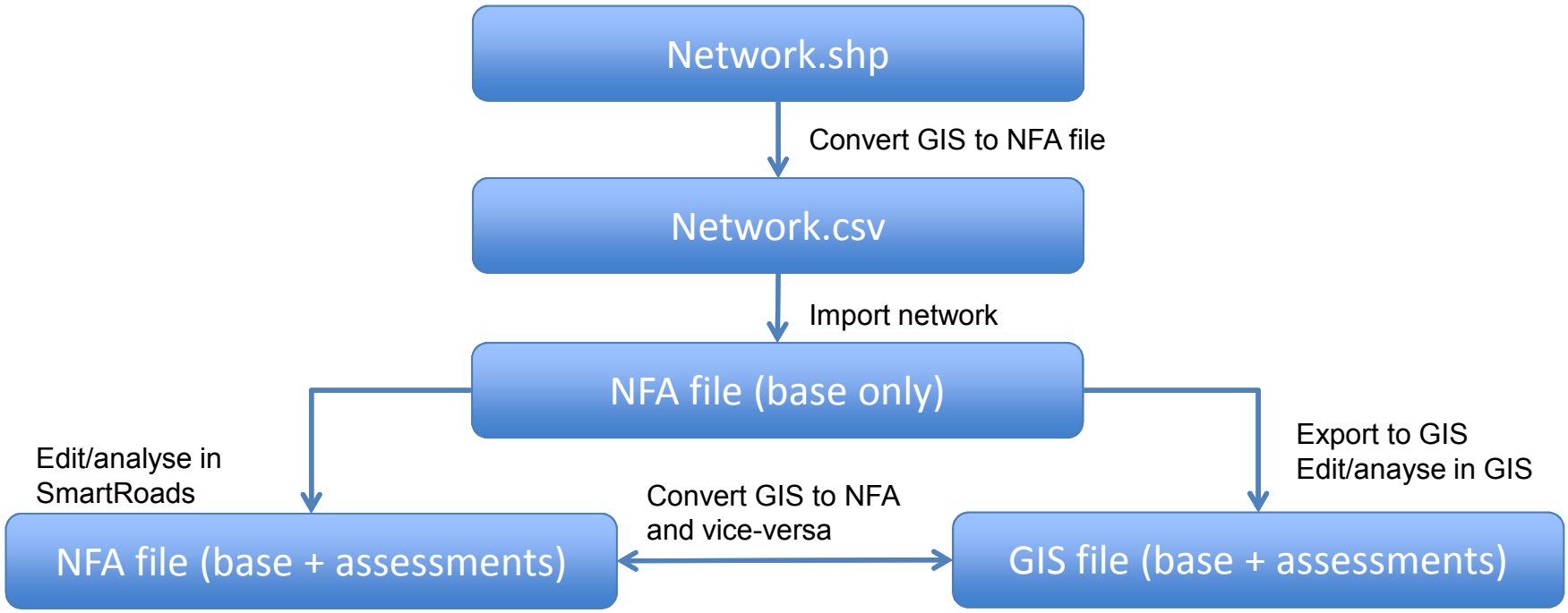


Test.dbf	20/10/2015 4:52 PM	DBF File	42 KB
test	26/10/2015 4:42 PM	ESRI ArcMap Doc...	405 KB
Test	20/10/2015 5:37 PM	NFA File	80 KB
Test.prj	13/10/2015 11:33 ...	PRJ File	1 KB
Test.sbn	20/10/2015 4:52 PM	SBN File	1 KB
Test.sbx	20/10/2015 4:52 PM	SBX File	1 KB
Test.shp	20/10/2015 4:52 PM	SHP File	4 KB
Test.shp	13/10/2015 11:33 ...	XML Document	2 KB
Test.shx	20/10/2015 4:52 PM	SHX File	1 KB

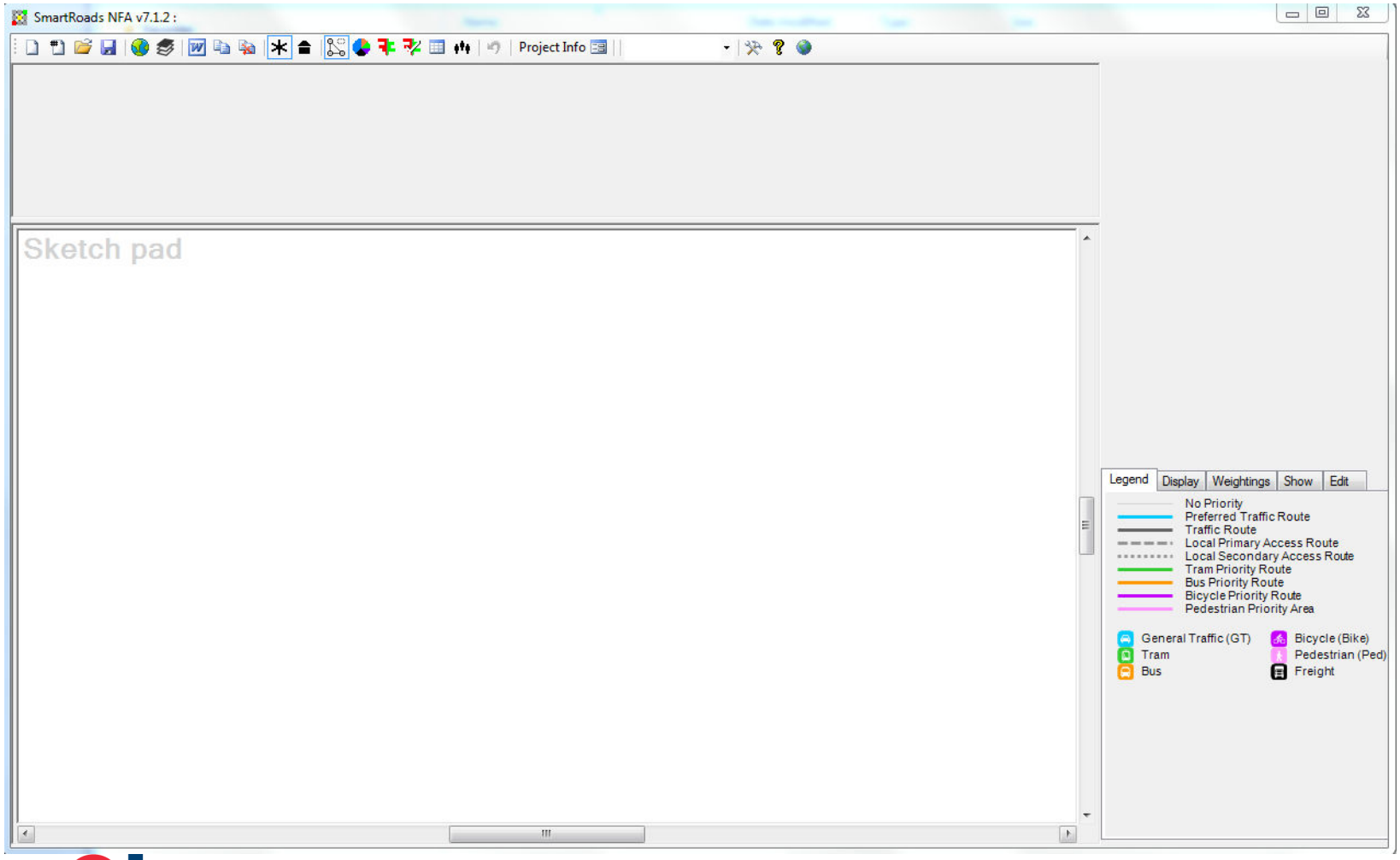
Includes 116 input fields



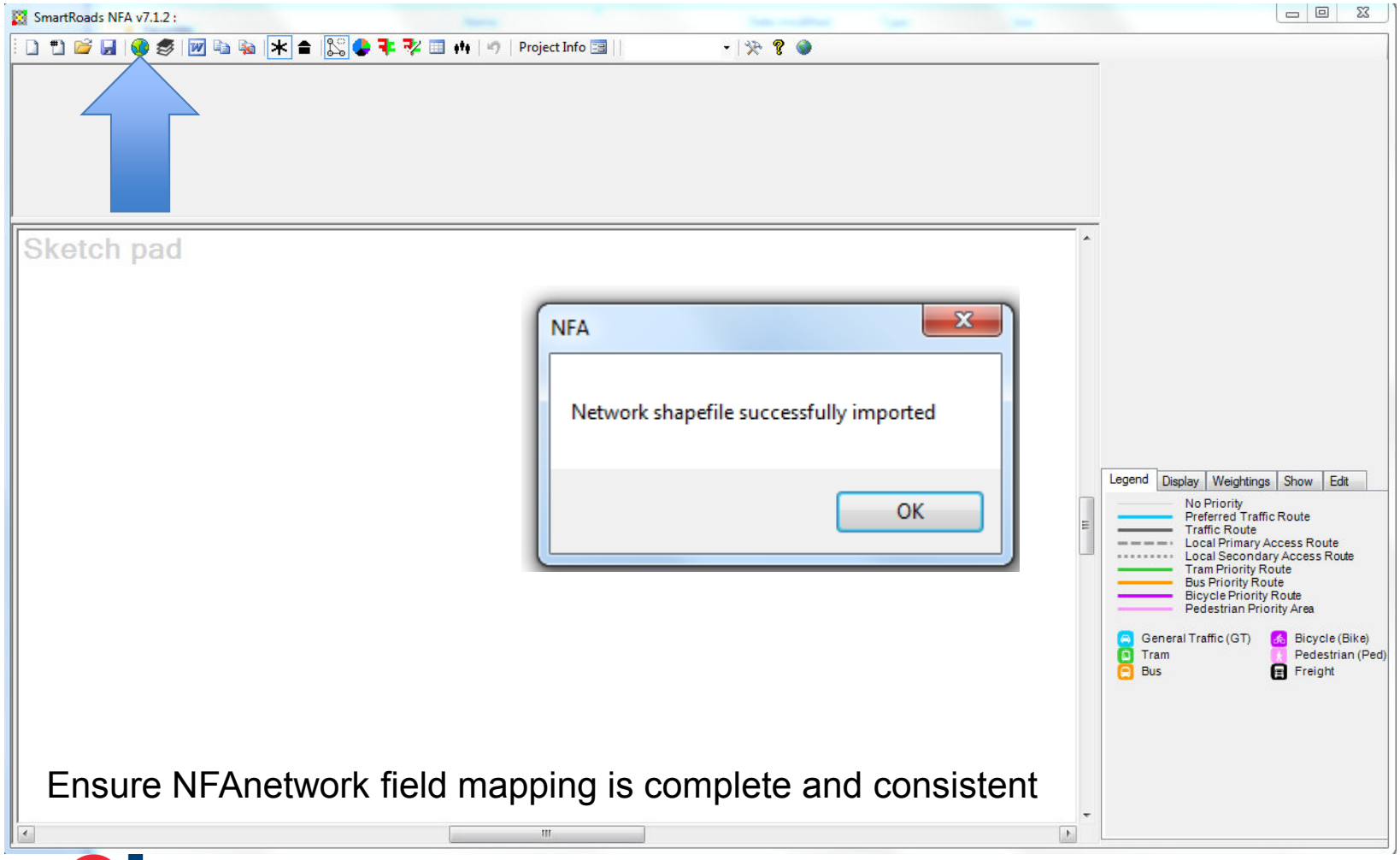
Overview of process



Step 1: Open NFA application

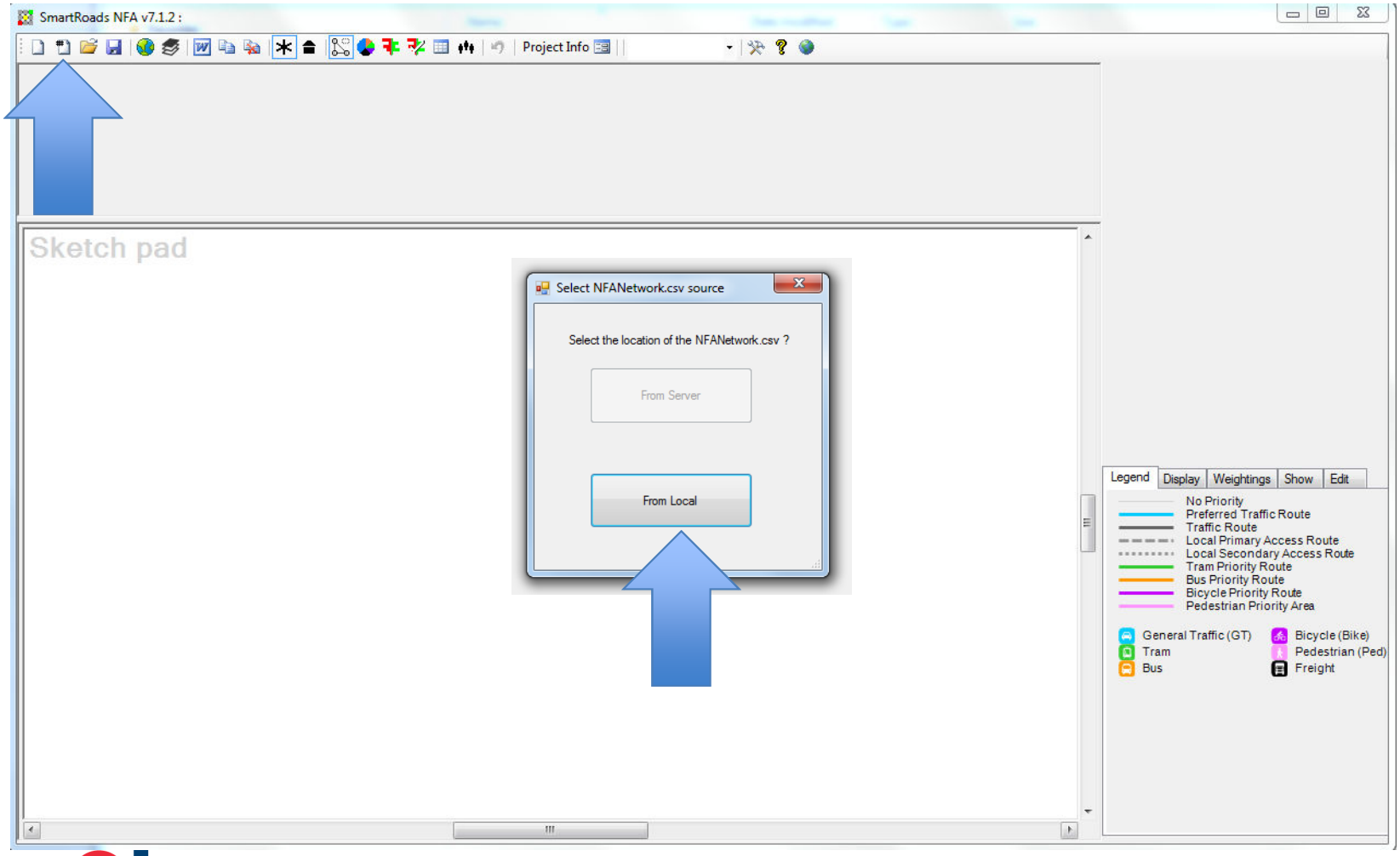


Step 2: Import shapefile ‘test.shp’

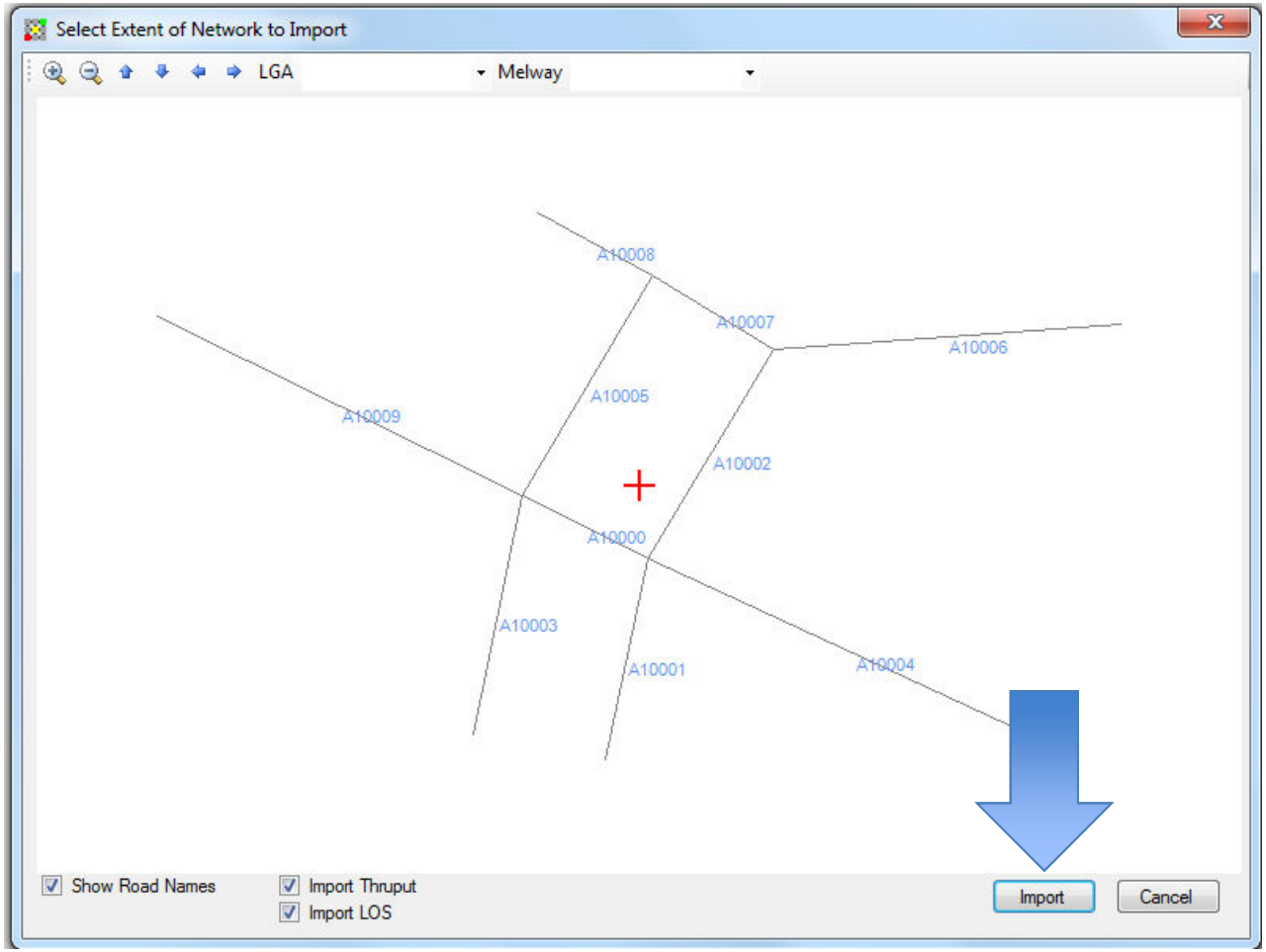


Ensure NFAnetwork field mapping is complete and consistent

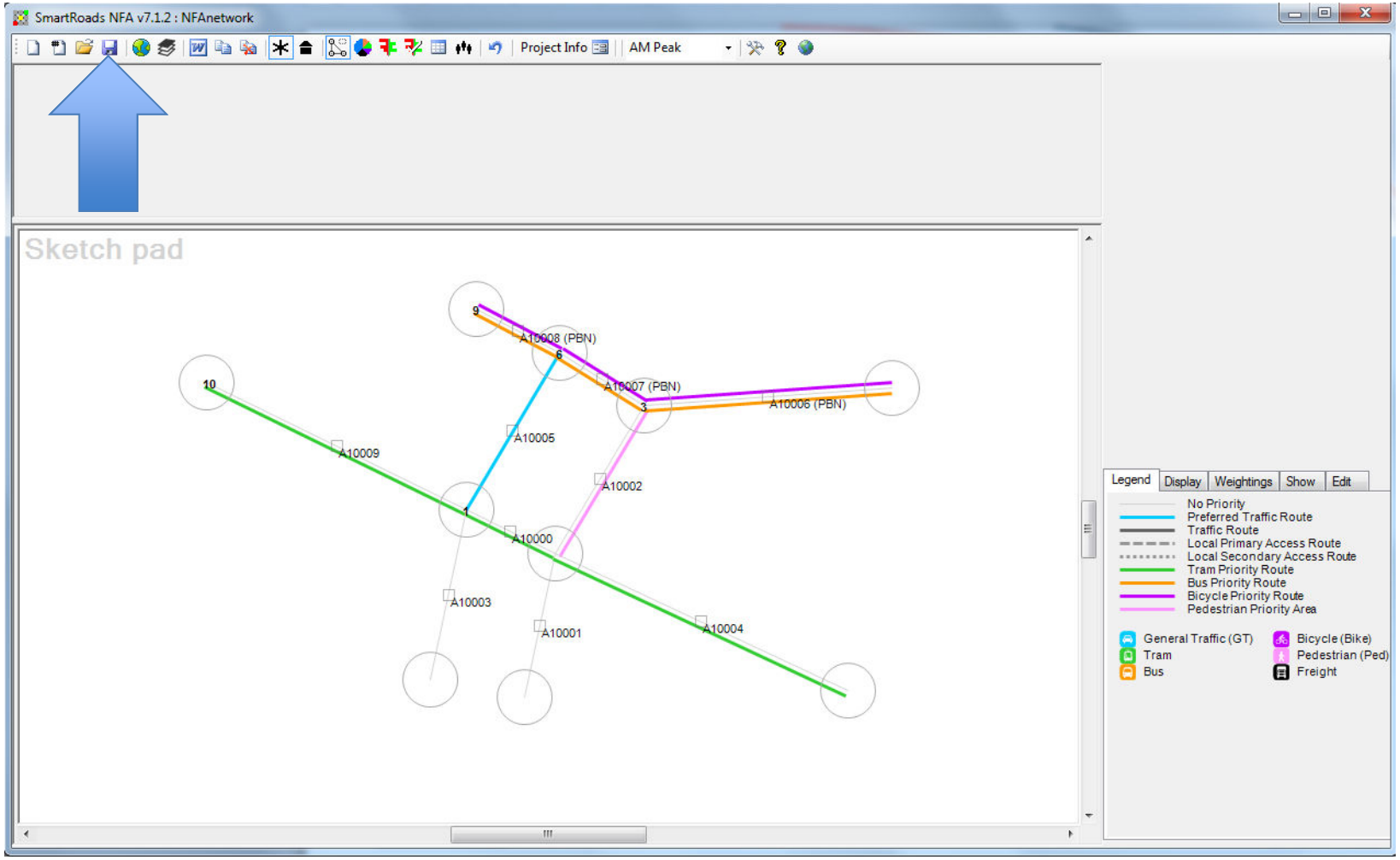
Step 3: Import network



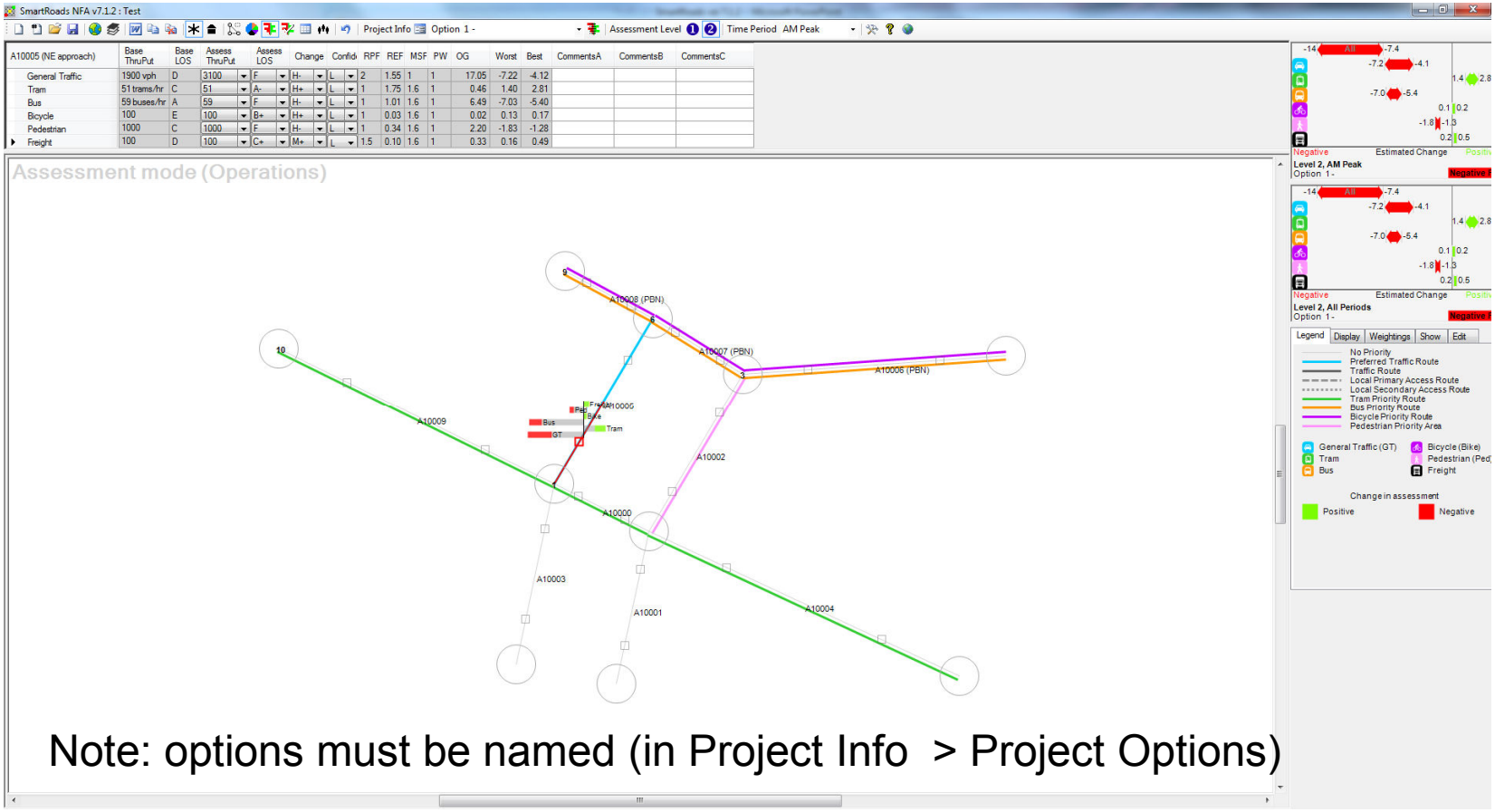
Step 4: Zoom out to include all



Step 5: Save file

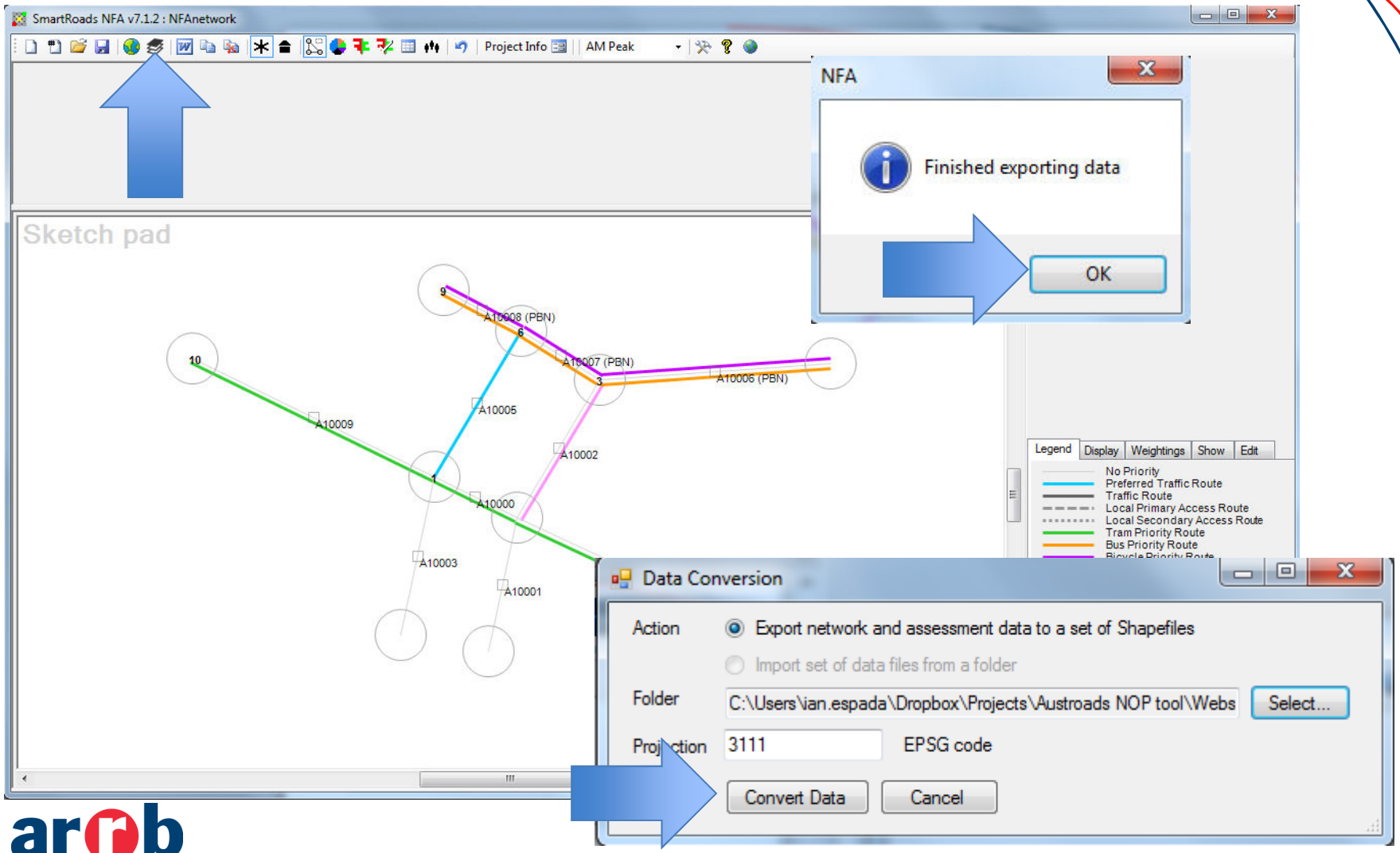


Step 6: edit/analyse then save

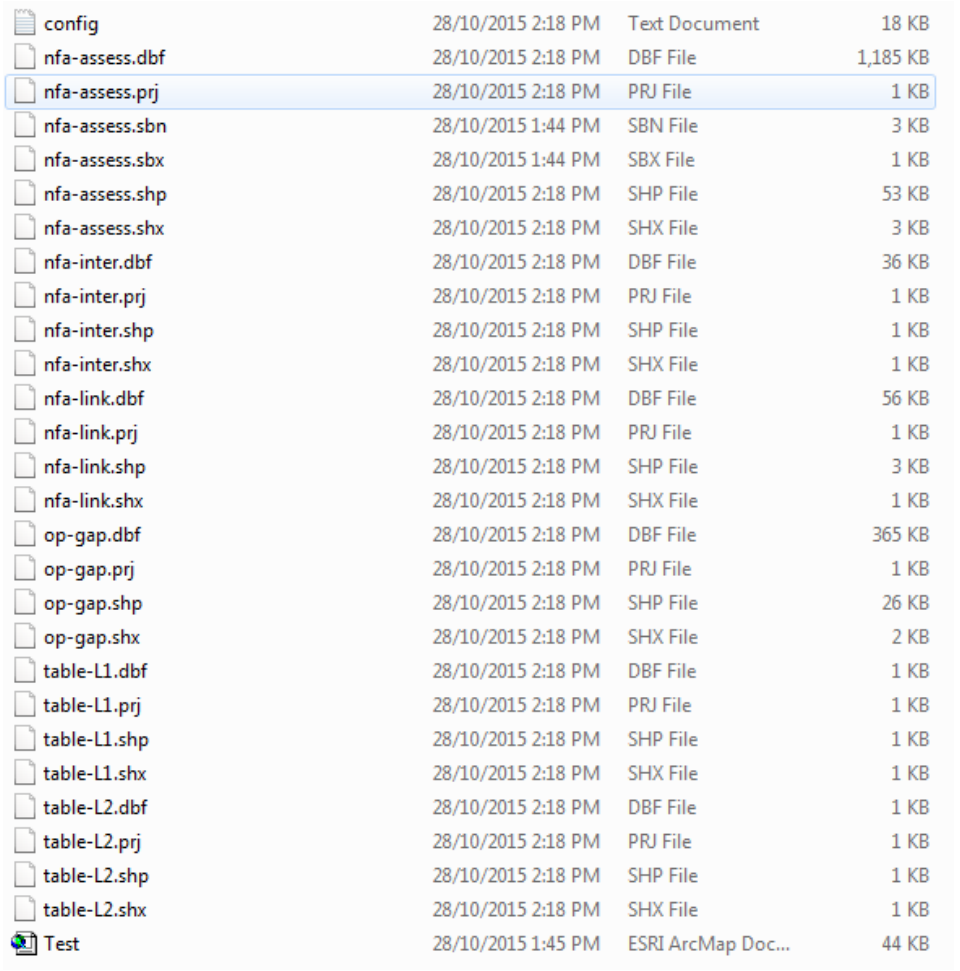


Note: options must be named (in Project Info > Project Options)

Step 7: Export file to GIS

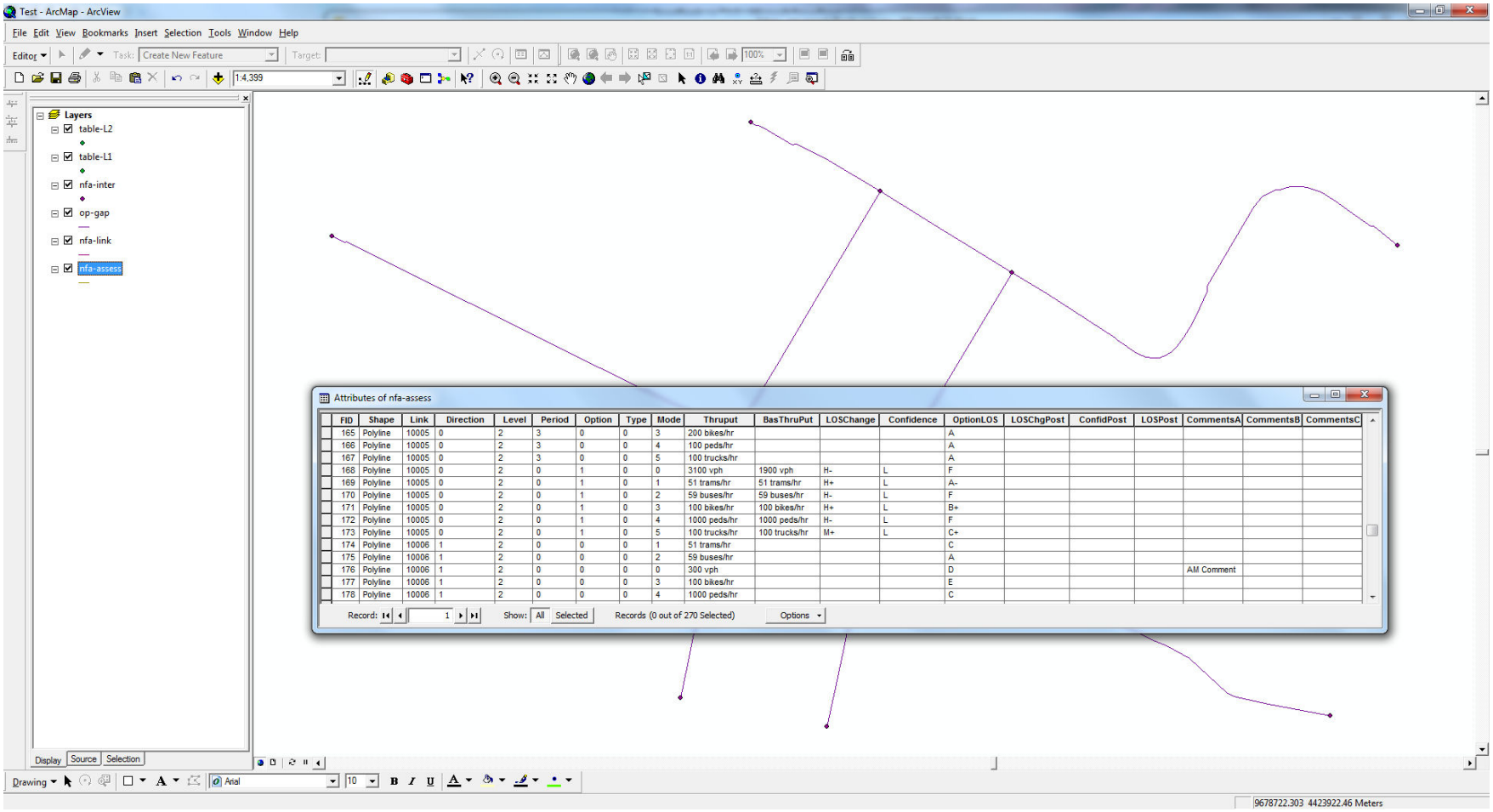


Step 8: Review output files

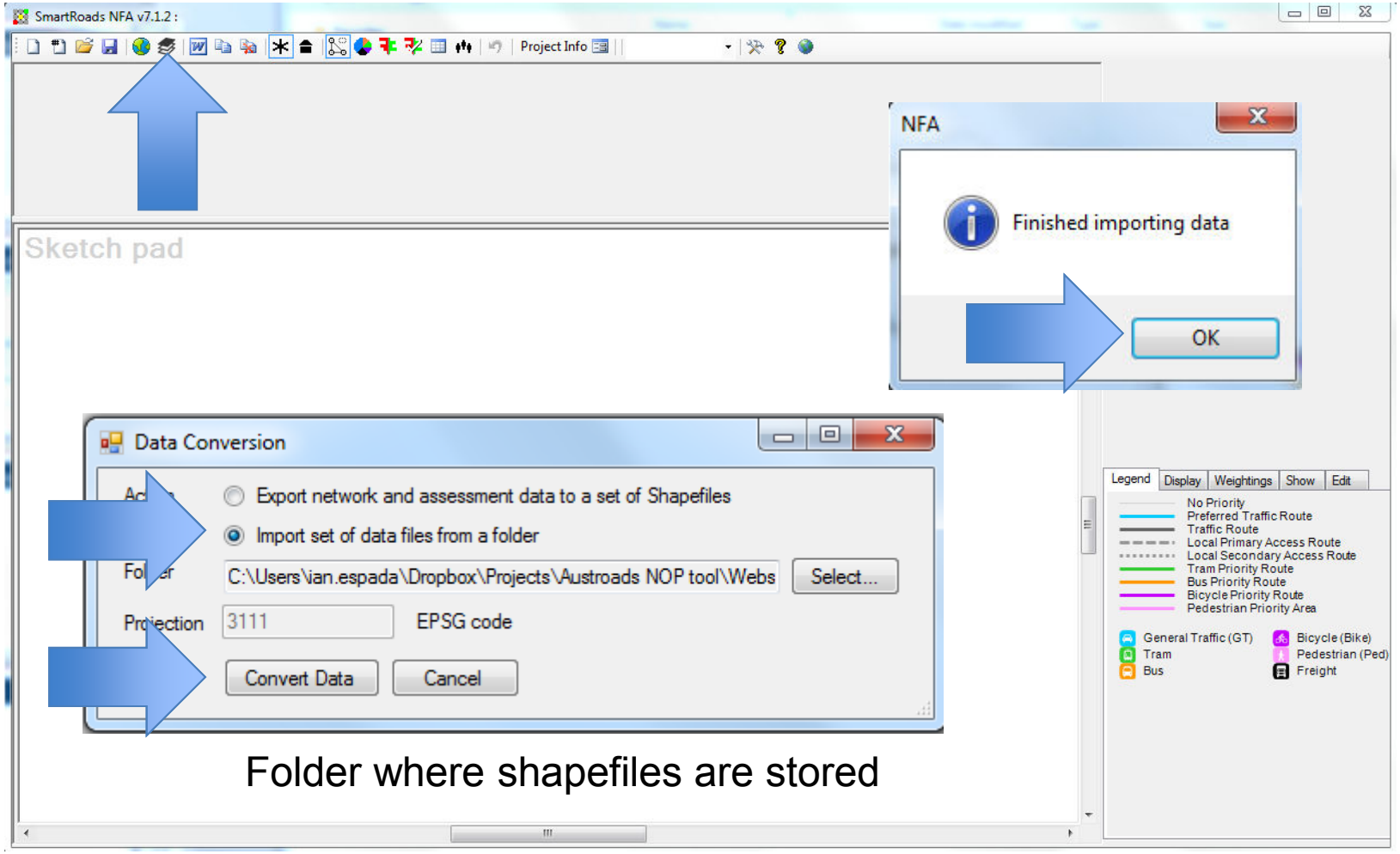


config	28/10/2015 2:18 PM	Text Document	18 KB
nfa-assess.dbf	28/10/2015 2:18 PM	DBF File	1,185 KB
nfa-assess.prj	28/10/2015 2:18 PM	PRJ File	1 KB
nfa-assess.sbn	28/10/2015 1:44 PM	SBN File	3 KB
nfa-assess.sbx	28/10/2015 1:44 PM	SBX File	1 KB
nfa-assess.shp	28/10/2015 2:18 PM	SHP File	53 KB
nfa-assess.shx	28/10/2015 2:18 PM	SHX File	3 KB
nfa-inter.dbf	28/10/2015 2:18 PM	DBF File	36 KB
nfa-inter.prj	28/10/2015 2:18 PM	PRJ File	1 KB
nfa-inter.shp	28/10/2015 2:18 PM	SHP File	1 KB
nfa-inter.shx	28/10/2015 2:18 PM	SHX File	1 KB
nfa-link.dbf	28/10/2015 2:18 PM	DBF File	56 KB
nfa-link.prj	28/10/2015 2:18 PM	PRJ File	1 KB
nfa-link.shp	28/10/2015 2:18 PM	SHP File	3 KB
nfa-link.shx	28/10/2015 2:18 PM	SHX File	1 KB
op-gap.dbf	28/10/2015 2:18 PM	DBF File	365 KB
op-gap.prj	28/10/2015 2:18 PM	PRJ File	1 KB
op-gap.shp	28/10/2015 2:18 PM	SHP File	26 KB
op-gap.shx	28/10/2015 2:18 PM	SHX File	2 KB
table-L1.dbf	28/10/2015 2:18 PM	DBF File	1 KB
table-L1.prj	28/10/2015 2:18 PM	PRJ File	1 KB
table-L1.shp	28/10/2015 2:18 PM	SHP File	1 KB
table-L1.shx	28/10/2015 2:18 PM	SHX File	1 KB
table-L2.dbf	28/10/2015 2:18 PM	DBF File	1 KB
table-L2.prj	28/10/2015 2:18 PM	PRJ File	1 KB
table-L2.shp	28/10/2015 2:18 PM	SHP File	1 KB
table-L2.shx	28/10/2015 2:18 PM	SHX File	1 KB
Test	28/10/2015 1:45 PM	ESRI ArcMap Doc...	44 KB

Step 9: Open/edit shapefiles in GIS

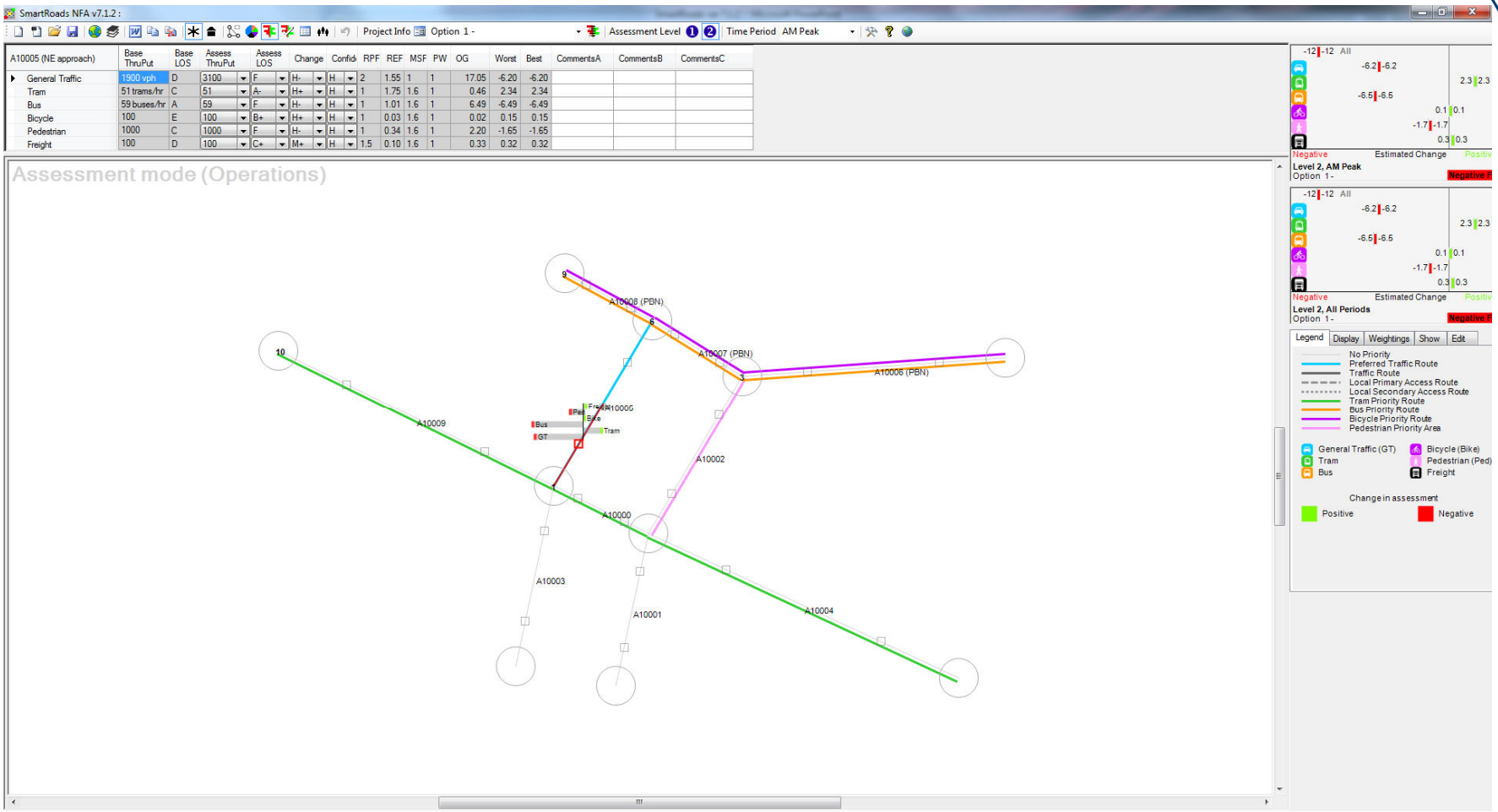


Step 10: Import shapefile



Folder where shapefiles are stored

Step 11: Edit/analyse then save



Resources, feedback and support

Contact: nopsupport@arrb.com.au

http://www.austroads.com.au/road-operations/network-operations/publications-resources/smartroads-tool