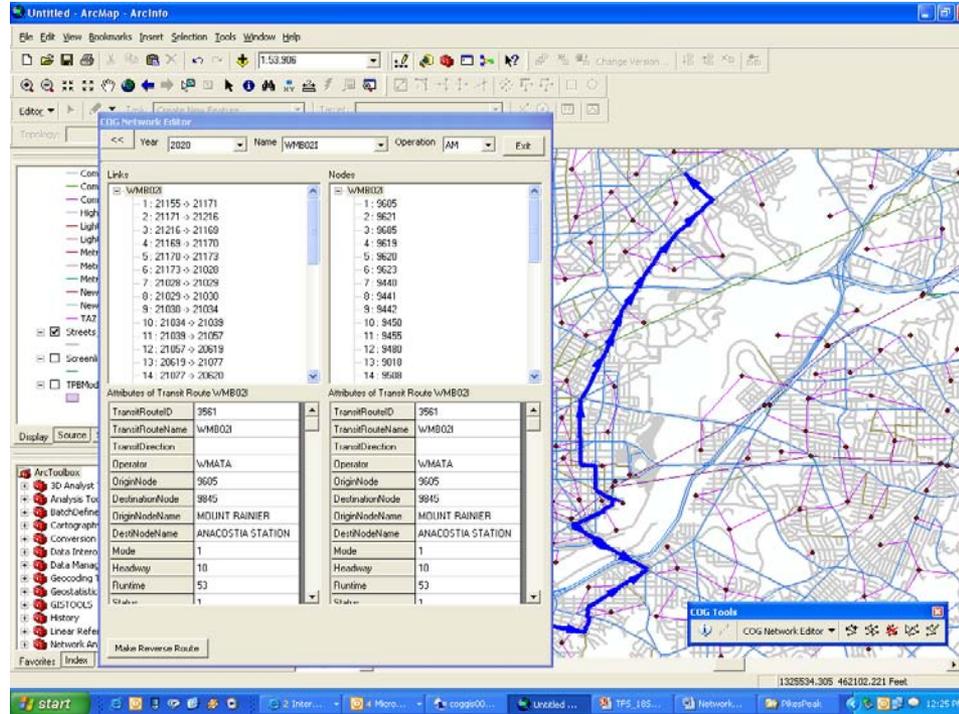


Network Development: Status report



Robert Sned, COG/TPB

Presentation to the TPB Travel Forecasting Subcommittee
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Overview of presentation

1. Editing capabilities of TPBMAN application (the new geodatabase and ArcGIS application for editing and managing multi-year networks)
2. Status of effort to develop year-2007 highway and transit networks on the new zone system (3,722 TAZ) for use with the Version 2.3 travel model
3. Next steps



Editing capabilities of TPBMAN

- Features
 - Editing multi-year highway networks
 - Supports multiple users
 - Automatic updating transit routes that are affected when a link is split
- Areas for refinement identified during application
 - Ability to 'undo' certain operations that are currently not possible automatically
 - Additional batch update capabilities
 - Optimize conditions to improve performance (database design, application programming, workflow design)
 - Implement changes previously identified
- A new maintenance contract could address application enhancements identified throughout the course of this application



Status of developing year-2007 networks on the new TAZ system



Developing a network: Some of the steps

Step	Status
Finalize 3,722 TAZ system	Complete
Add new road links, since more TAZ means a more detailed road network	In progress (subject of today's pres.)
Create new centroids for each TAZ	In progress (subject of today's pres.)
Add centroid connectors	In progress (subject of today's pres.)
Add network detail that was omitted in the past due to software limits	In progress (subject of today's pres.)
QC/QA: Highway network (tree tracing, etc.)	Future work
Add network components representing transit infrastructure	In progress
Code transit routes	In progress
Export highway and transit networks from GDB into Cube format for modeling	Future work
QC/QA: Transit network (tree tracing, etc.)	Future work



Developing networks on new TAZ system: Details

- Centroid connectors and supporting roadways annotated for jurisdictions in COG/TPB modeled area
- Google Earth images and NAVTEQ street base employed
- New zone centroid connectors added to road network to facilitate new 3722 area system
- Networks enhanced with additional facilities & correcting “short cuts” due to software limitations in the 80’s and 90’
- Draft first-cut maps completed for Alexandria, Montgomery, Prince William, Anne Arundel, Charles, Carroll, Calvert, King George Stafford, Fauquier, Clarke, and Jefferson Counties
- See next slide

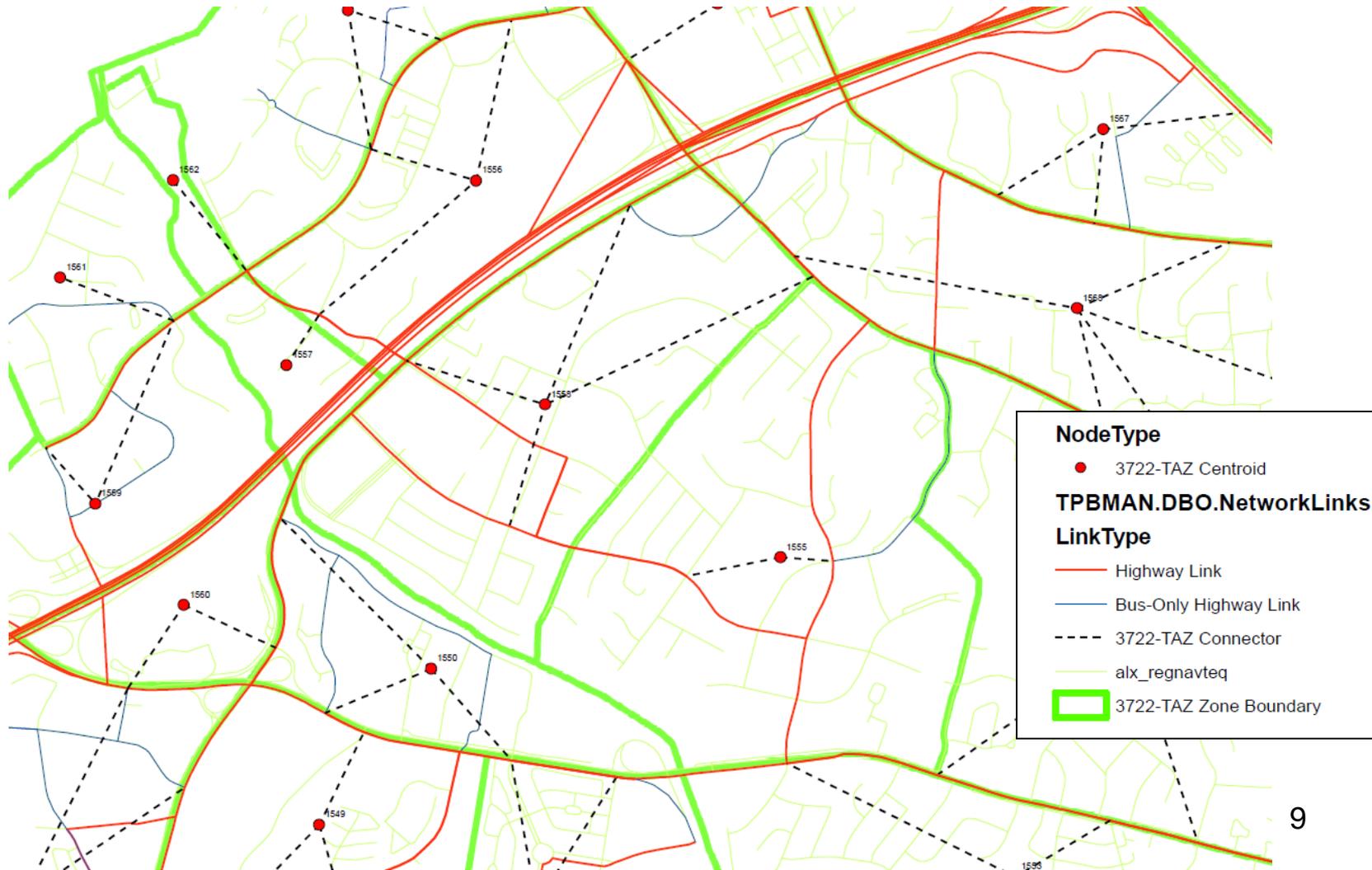


Status of the process to add centroids, centroid connectors and additional road links

Jurseq	Jurisdiction	TAZ	TAZ	% TAZ
			Connected	Connected
0	District of Columbia	393	0	0
1	Montgomery Co.	376	376	100
2	Prince George's Co.	635	0	0
3	Arlington Co.	141	68	48
4	Alexandria	65	65	100
5	Fairfax Co.	549	0	0
7	Prince William Co.	378	361	96
6	Loudoun Co.	282	119	42
9	Frederick Co.	130	90	69
10	Howard Co.	68	0	0
11	Anne Arundel Co.	99	98	99
12	Charles Co.	113	108	96
14	Carroll Co.	58	57	98
15	Calvert Co.	47	47	100
16	St. Mary's Co.	75	0	0
17	King George Co.	25	25	100
18	City of Fredericksburg	14	14	100
19	Stafford Co.	93	88	95
20	Spotsylvania Co.	62	62	100
21	Fauquier Co.	50	48	96
22	Clarke Co.	9	9	100
23	Jefferson Co.	13	13	100



Excerpt from one of the maps to be reviewed (portion of Alexandria)



Next Steps

- Electronic copies of the draft maps are available for review on the TFS webpage
(http://www.mwcog.org/transportation/committee/committee/default.asp?COMMITTEE_ID=43)
- Complete updates for remaining jurisdictions and distribute maps for review
- Review maps submitted by local and state agencies
- Update geodatabase (GDB) as necessary, generate transportation networks, build Cube-formatted networks and review
- Complete development of highway and transit networks on the new zone system with a focus on the base year (2007) network
- Complete development of highway and transit networks for forecast years

