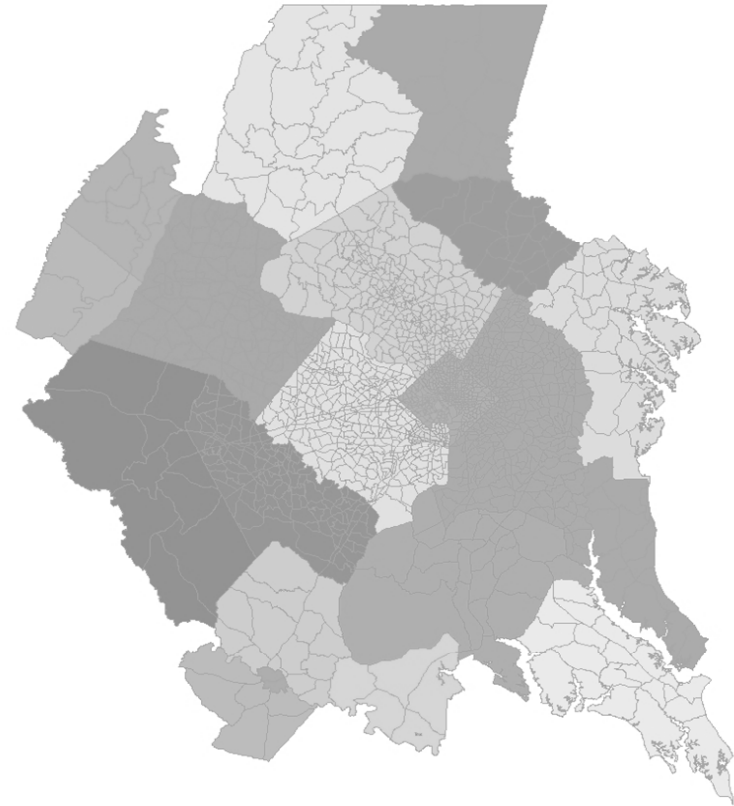


TPB/COG Transportation Analysis Zone (TAZ) Refinement

“It’s (finally) done”



Charlene Howard, GISP

Presentation to the
TPB Travel Forecasting Subcommittee
17 July 2009

Presentation overview

- Project objectives
- Project timeline
- TAZ 3675 vs. TAZ2191
- Wrap-up and next steps

Project objectives

- Primary reason for this exercise: to replace the 2191 TPB/COG zone system in place since 1995
- Key objective- balance the needs of transportation (network/model) and planning (cooperative forecasting)
- Smaller zones around activity centers, transit, areas of increased or planned development
- Incorporate local-level zone system as much as possible
- Strive for uniformity in zone size throughout the TPB Modeled Region
- Design a new zone structure that will be usable and meaningful until the next TAZ update

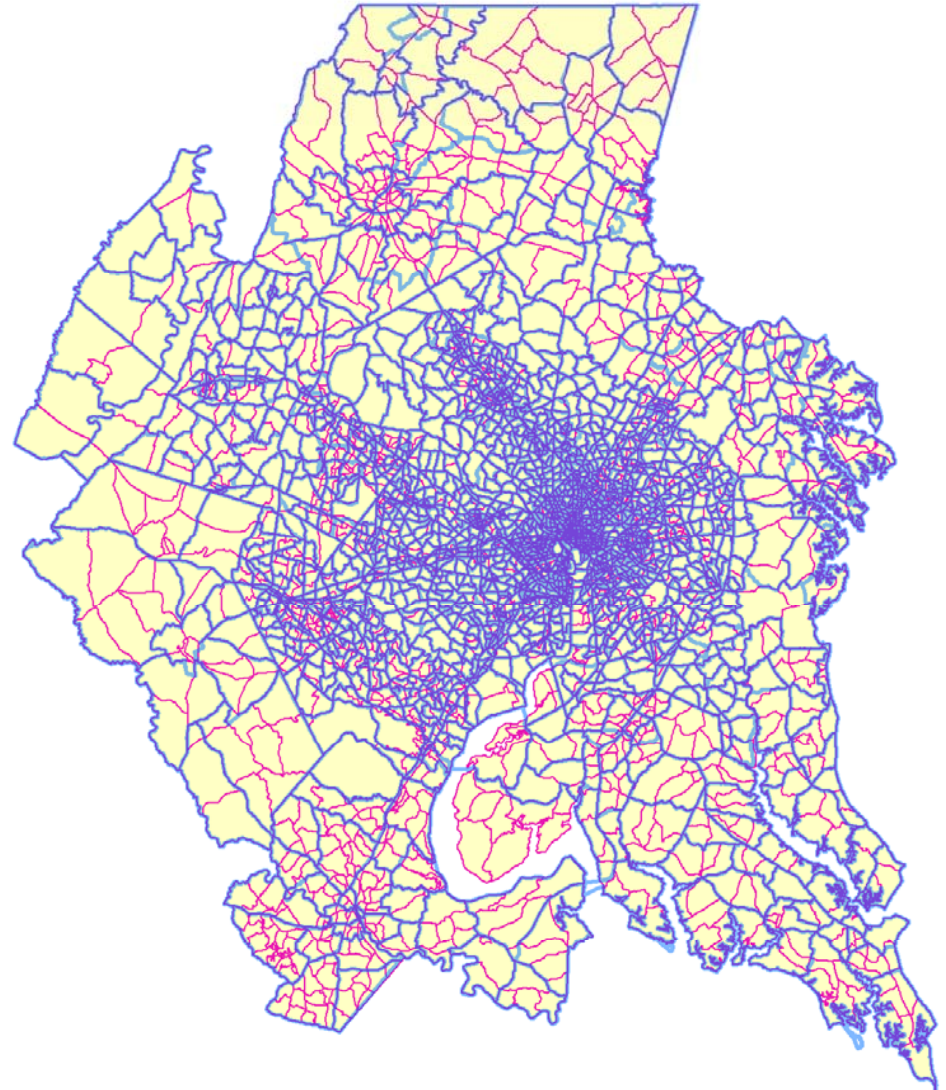
The (long) project timeline

- June 2007- first rough-cut of new zone system
- June 2008- 'good final draft' of new zone system
- March 2009- 'final' finalization of new zone system
- June 2009- the 'real' finalization...seriously
- July 2009 and beyond – utilize new zone system for events leading up to TPB 2010 Plan Update & Round 8 Cooperative Forecast

Introducing....TAZ3675

Key features of the new zone system

- Additional zones in areas that with increased development since the last TAZ update
- Greater detail for outer jurisdictions
- Common county boundary file
- Better alignment with street centerlines
- Considerable local input on zone configuration



TAZ2191 vs. TAZ3675: comparison by jurisdiction

JURISDICTION	JUR code	TAZ2191 number of zones	TAZ2191 zone number range	TAZ2191 zone average sq. mi	TAZ3675 number of zones	TAZ3675 zone number range	TAZ3675 zone average sq. mi
District of Columbia	0	1-319	319	0.192	393	1-393	0.17
Montgomery County MD	1	320-627	308	1.6	376	394-769	1.35
Prince Georges County MD	2	640-1020	381	1.28	635	770-1404	0.79
Arlington County VA	3	1230-1311	82	0.32	141	1405-1545	0.18
City of Alexandria VA	4	1330-1389	60	0.26	65	1546-1610	0.24
Fairfax County VA	5	1400-1755	356	1.13	549	1611-2159	0.76
Loudoun County VA	6	1780-1905	126	4.12	282	2160-2441	1.85
Prince William County VA	7	1920-2061	142	2.47	378	2442-2819	0.95
Frederick County MD	9	1030-1053	24	27.6	130	2820-2949	4.77
Howard County MD	10	1080-1099	20	12.61	68	2950-3017	3.72
Anne Arundel County MD	11	1110-1142	33	12.6	99	3018-3116	4.19
Charles County MD	12	1200-1223	24	19.21	113	3117-3229	4.08

TAZ2191 vs. TAZ3675:

comparison by jurisdiction, continued

JURISDICTION	JUR code	Number of zones, TAZ2191	TAZ2191 zone number range	TAZ2191 zone average sq. mi	TAZ3675 number of zones	TAZ3675 zone number range	TAZ3675 zone average sq. mi
Carroll County MD	14	14	1060-1073	32.1	58	3230-3287	7.8
Calvert County MD	15	14	1150-1163	15.37	47	3288-3334	4.61
St. Mary's County MD	16	21	1170-1190	17.2	75	3335-3409	4.84
King George County VA	17	5	2070-2074	36	25	3410-3434	7.41
City of Fredericksburg VA	18	2	2100-2101	5.26	14	3435-3448	0.75
Stafford County VA	19	14	2080-2093	19.28	93	3449-3541	2.98
Spotsylvania County VA	20	6	2105-2110	26.54	62	3542-3603	2.63
Fauquier County VA	21	11	2115-2125	59.11	50	3604-3653	13.05
Clark County VA	22	3	2130-2132	58.87	9	3654-3662	19.79
Jefferson County WV	23	7	2135-2141	29.93	13	3663-3675	16.28
TOTAL		1972		17.41	3675		4.69

Wrap-up & next steps

- First things first:
 - We're DONE!
 - Thank you for your assistance with making the new zone system the best it can be
- Hand-off to Networks & Models group so they can use new TAZ for various tasks (zone centroid addition, Cooperative Forecast allocation, model calibration files, etc.)
- Hand-off to the Cooperative Forecasting Subcommittee members so they can begin developing TAZ-level forecasts for Round 8.0
- New zones for each jurisdiction will be available on the subcommittee webpage for download