

Comprehensive Planning Forecasting Coordination

May 12, 2016

TAC Planning



Continued from Last Meeting

- New Regional Travel Demand Forecast Model Requirements
 - Hardware:
 - 16 GB RAM
 - ~50 GB per scenario storage space
 - 8-16 core processors
 - Software
 - Cube 6.1.1 or 6.4 or higher
 - ArcGIS 10.0 or higher
 - Python 2.6 or higher
 - Visual Studio 2010 or Visual Studio Redistributable

Regional Model Validation

	# of Links	Model	Observed	Difference	Target
Region	5,995	66,004,698	71,022,801	-7.1%	
30,000+	745	31,520,040	35,665,637	-11.6%	
20,000-30,000	267	6,693,583	6,654,863	0.6%	22%
10,000-20,000	810	10,743,659	11,391,493	-5.7%	25%
5,000-10,000	1401	9,385,162	10,091,230	-7.0%	29%
3,000-5,000	944	3,570,549	3,739,643	-4.5%	36%
1,000-3,000	1781	4,031,410	3,437,791	17.3%	47%
0-1,000	47	60,295	42,144	43.1%	60%

Local Forecasting Requirements

- Socio-Economic Data
- Traffic Volumes on Principal and A-minor Arterials

Socio-Economic Data

- Council provides municipal/township forecasts for:
 - Population
 - Households
 - Employment
- City allocates growth by Transportation Analysis Zone (TAZ) within city

TAZ System

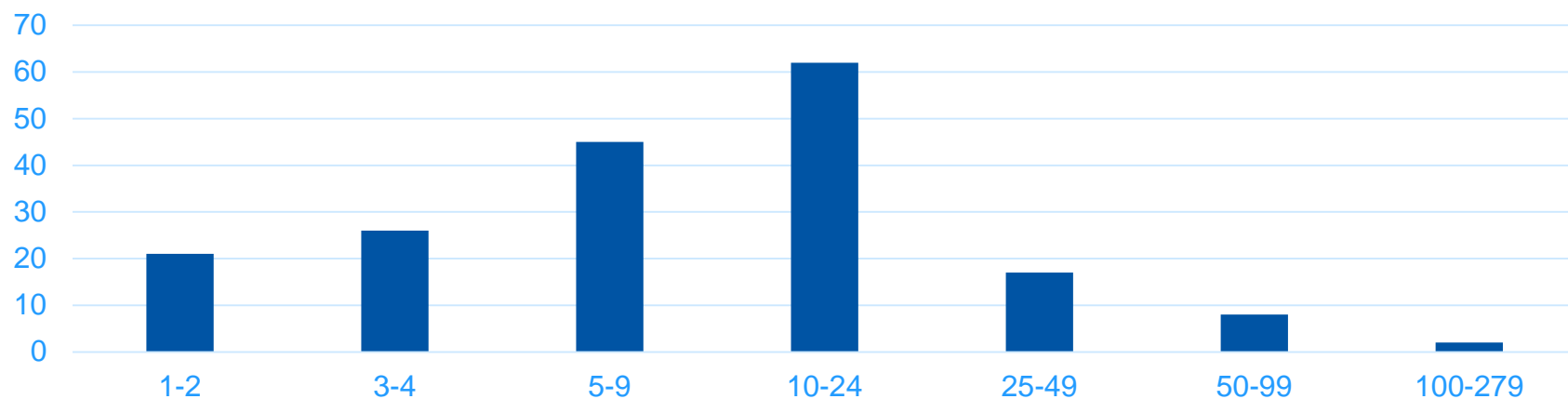
- Developed in 2009 for the 2010 TBI
- Considerations in Definition:
 - Transportation networks
 - Physical boundaries
 - Political boundaries
 - Shape
 - Socio-economic data
 - Transportation access
 - Size

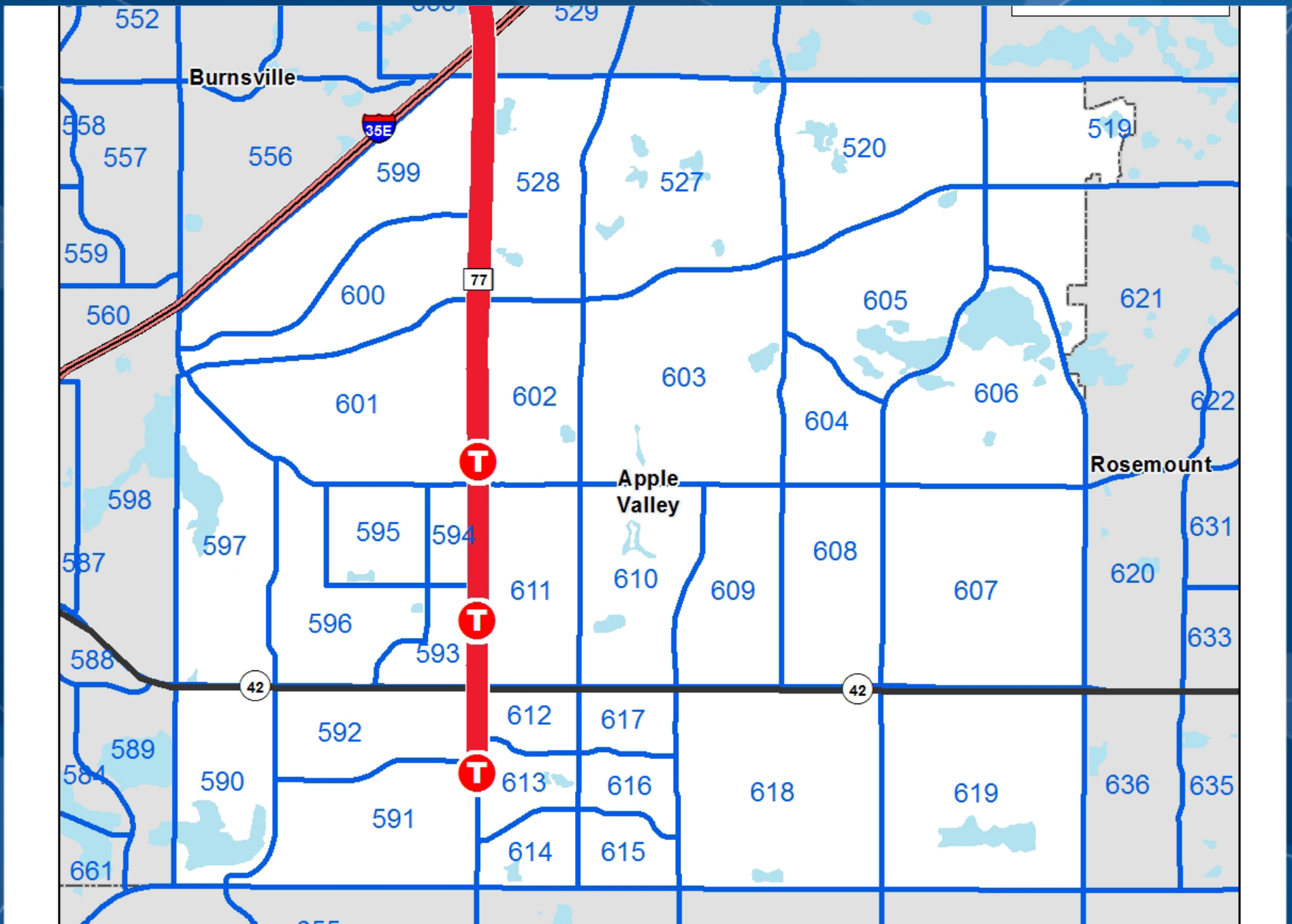
New TAZ System

	Legacy TAZ System	Current TAZ System
Anoka	126	284
Carver	37	111
Dakota	152	387
Hennepin	506	915
Ramsey	228	418
Scott	48	148
Washington	104	222
MN- 9 Ring Counties	240	356
WI- 3 Ring Counties	125	189
Total	1566	3030

TAZs by City/Township

Number of Cities/Townships





Forecast Coordination

- Consistency with
 - TPP Current Revenue Scenario
 - County plans
 - Adjacent city plans
- Consistency in
 - Inputs
 - Outputs
 - Not necessarily methods

Discussion



METROPOLITAN
C O U N C I L