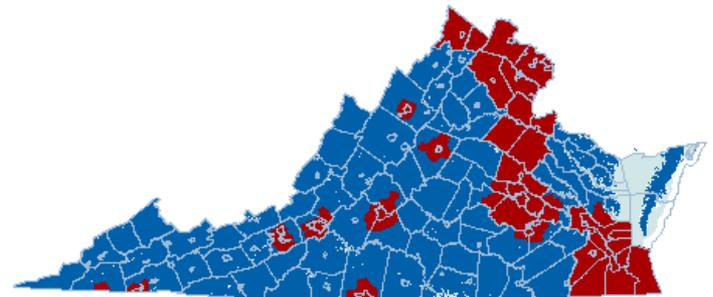




**MPO Technical Committee Meeting  
February 03, 2026  
2050 Demographics**



# Charlottesville Regional Travel Demand Model Update

- Regional travel demand model in the process of being updated
- Model base year 2022 and future year of 2050
- Updated demographics for year 2050

# Data Sources used to forecast 2050 Sociodemographic Data

- **Weldon Cooper (WC) 2050 Population Forecasts as of July 2025**
  - **Total Population**
- **Woods & Poole (W&P) 2050 Sociodemographic Forecasts**
  - **Housing Units**
  - **Household Income**
  - **Populations by Age**
  - **Employment**
- **Employment for the City of Charlottesville provided by City**
- **Various Decennial Census (DEC) and American Community Survey (ACS)**
  - **Group Quarters Population**
  - **Populations by Age**
  - **Populations by Working Status**
  - **Populations by Student Status**
  - **Household Vehicle Availability**
  - **Households by Age**
- **University of Virginia (UVA) Provided Data and Trending**
  - **University Enrollment**
  - **University Parking**

# Data development and Model Input Updates

- Updated 2050 population to use the Weldon Cooper Data (July 2025)

Geography	Weldon Cooper Data			Model*		
	2022	2050	Growth	2022	2050	Growth
Charlottesville city	51,278	57,832	13%	51,239	57,787	13%
Albemarle County	115,495	152,770	32%	95,157	125,868	32%
Fluvanna County	27,843	33,885	22%	17,706	21,549	22%
Greene County	21,165	27,366	29%	16,445	21,263	29%
Louisa County	39,725	54,467	37%	3,656	5,012	37%

*\*Model area includes City of Charlottesville, most of Albemarle County and portions from Greene, Louisa and Fluvanna counties*

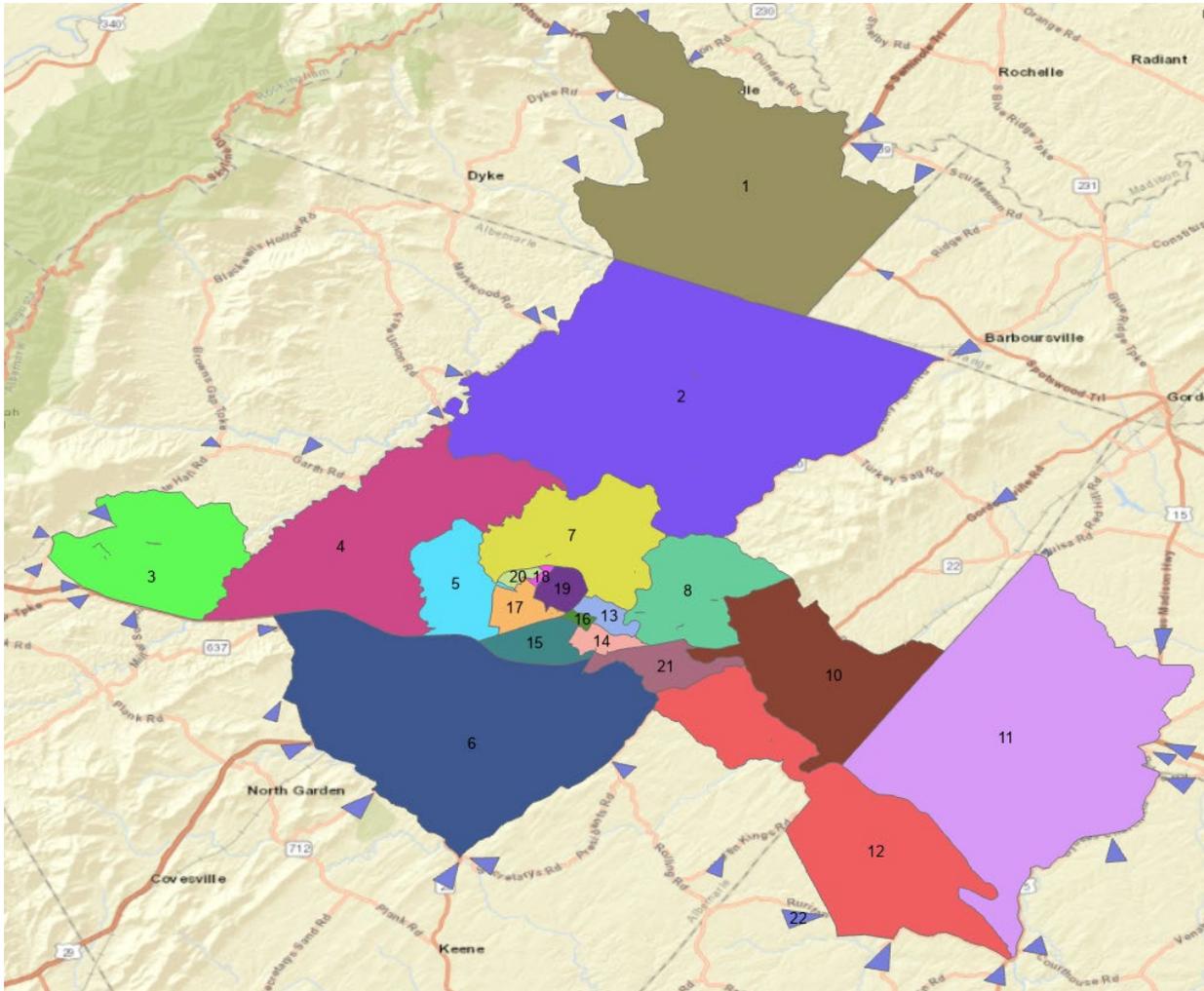
# Data development and Model Input Updates

Variable		2022	2050	Difference	Percentage
Total Population	TOTPOP	184,203	231,479	47,276	26%
Household Population	HHPOP	171,215	215,057	43,842	26%
Group Quarter Population	GQPOP	12,988	16,422	3,434	26%
Total Households	HH	68,766	87,830	19,064	28%
High School and below in the household	K12HH	26,954	33,581	6,627	25%
Graduate and Undergraduate in the household	UNVHH	15,351	19,238	3,887	25%
65+, previously POP_65+	SENHH	21,520	27,526	6,006	28%
College/University Enrollment	UNVPOP	22,029	23,944	1,915	9%
School enrollment at the school	K12ENR	25,874	32,183	6,309	24%
Univ Enrollment	UNVENR	22,029	23,943	1,914	9%
Full-Time On-Campus Students (at university location)	ENR_UON	5,290	5,748	458	9%
Full-Time Off-Campus Students (at university location)	ENR_UOFF	16,739	18,194	1,455	9%
Total Employment	TOTEMP	93,884	130,080	36,196	39%

# Data development and Model Input Updates

- District Definition**

- District definition from the current model and suggested names



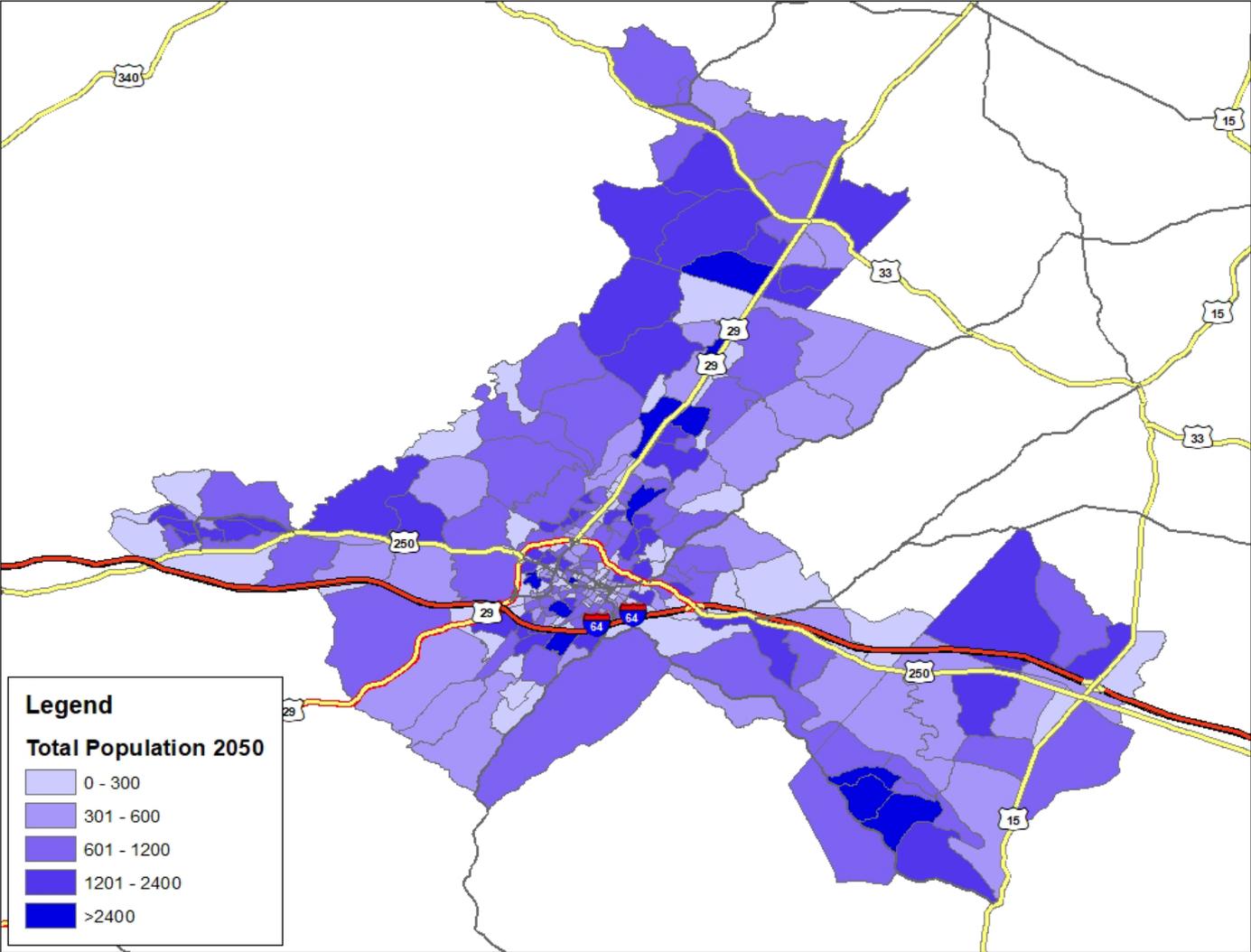
1	Greene
2	Hollymead
3	Crozet
4	W Albermarle
5	Ednam
6	S of Charlottesville
7	N of Charlottesville
8	E of Charlottesville
10	Keswick
11	Louisa
12	Fluvanna
13	N of Downtown
14	SE of Downtown
15	SW of Downtown
16	Downtown
17	University of Virginia
18	Barracks Road
19	Barracks Rugby
20	Darden UVA
21	Auburn Hills

# Data development and Model Input Updates

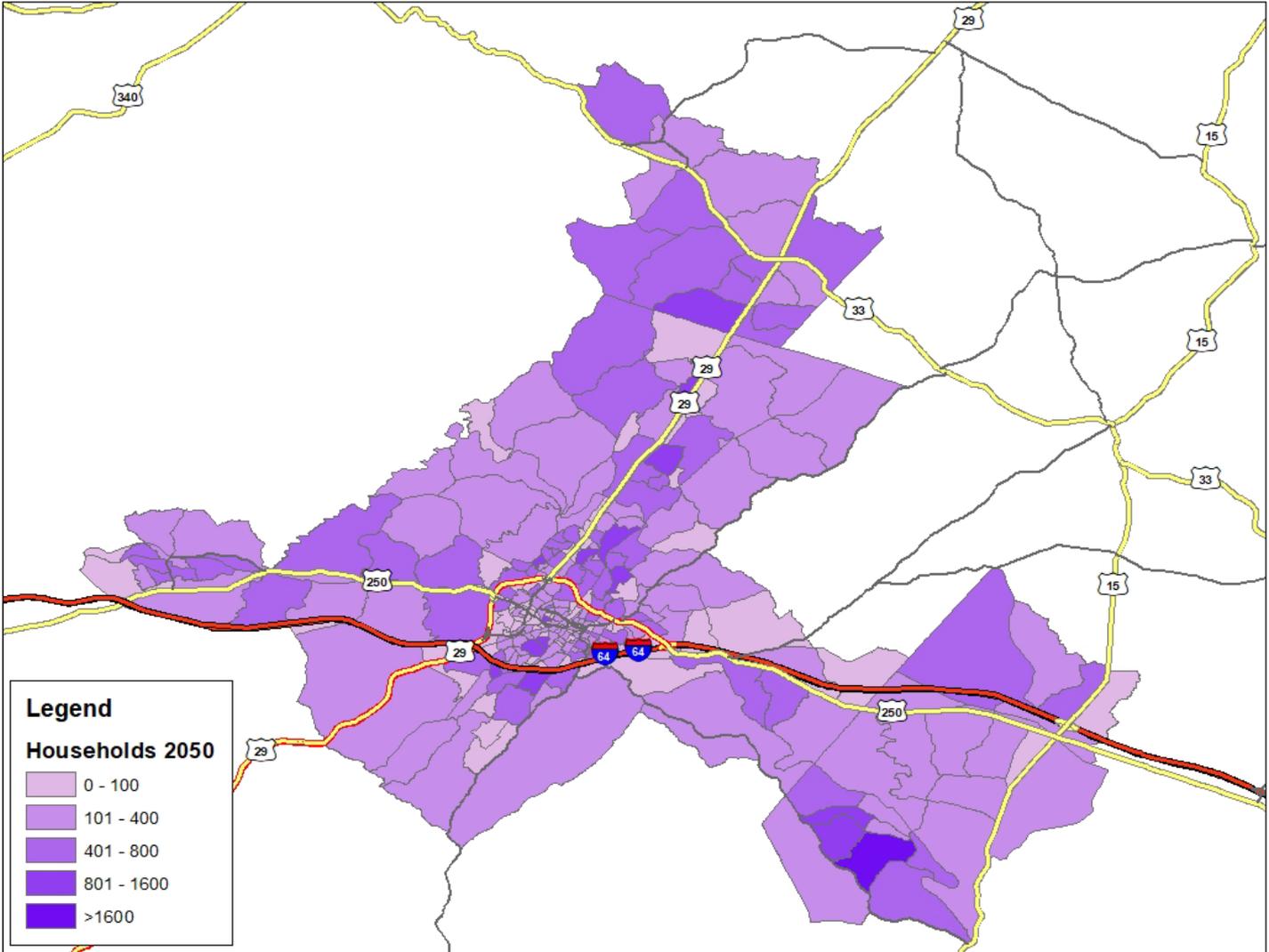
- **N of Charlottesville district shows most increase in population and employment**

		Total Population				Total Employment			
		2022	2050	Difference	Percent	2022	2050	Difference	Percent
Greene	1	16,445	21,263	4,818	29%	3,504	5,649	2,145	61%
Hollymead	2	19,461	25,742	6,281	32%	6,970	10,687	3,717	53%
Crozet	3	9,956	13,171	3,215	32%	1,596	2,516	920	58%
W Albermarle	4	5,511	7,288	1,777	32%	509	769	260	51%
Ednam	5	1,708	2,260	552	32%	3,976	6,743	2,767	70%
S of Charlottesville	6	12,717	16,821	4,104	32%	3,180	4,686	1,506	47%
N of Charlottesville	7	29,971	38,428	8,457	28%	18,110	26,409	8,299	46%
E of Charlottesville	8	5,934	7,849	1,915	32%	7,672	12,304	4,632	60%
Keswick	10	3,443	4,553	1,110	32%	1,211	1,963	752	62%
Louisa	11	8,335	10,707	2,372	28%	3,899	5,403	1,504	39%
Fluvanna	12	14,015	17,161	3,146	22%	2,433	3,111	678	28%
N of Downtown	13	6,199	6,992	793	13%	8,834	9,592	758	9%
SE of Downtown	14	6,163	6,962	799	13%	2,773	2,972	199	7%
SW of Downtown	15	14,371	16,528	2,157	15%	2,351	2,856	505	21%
Downtown	16	1,697	1,913	216	13%	8,249	9,724	1,475	18%
University of Virginia	17	16,772	20,437	3,665	22%	10,696	15,176	4,480	42%
Barracks Road	18	1,326	1,496	170	13%	2,805	2,935	130	5%
Barracks Rugby	19	9,039	10,404	1,365	15%	3,794	4,331	537	14%
Darden UVA	20	1,050	1,385	335	32%	958	1,603	645	67%
Auburn Hills	21	90	119	29	32%	364	652	288	79%
	Total	184,203	231,479	47,276	26%	93,884	130,081	36,197	39%

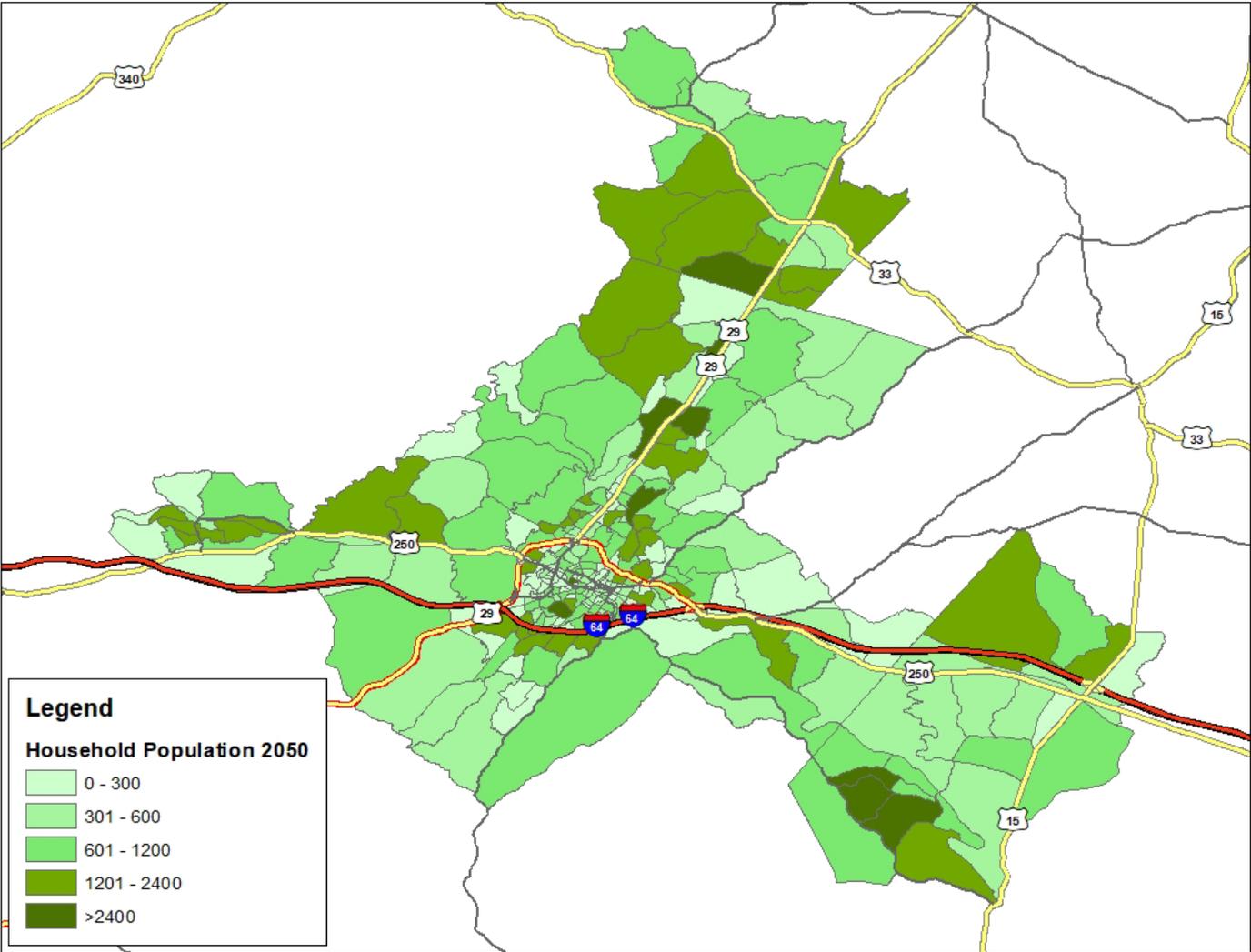
# Data development and Model Input Updates



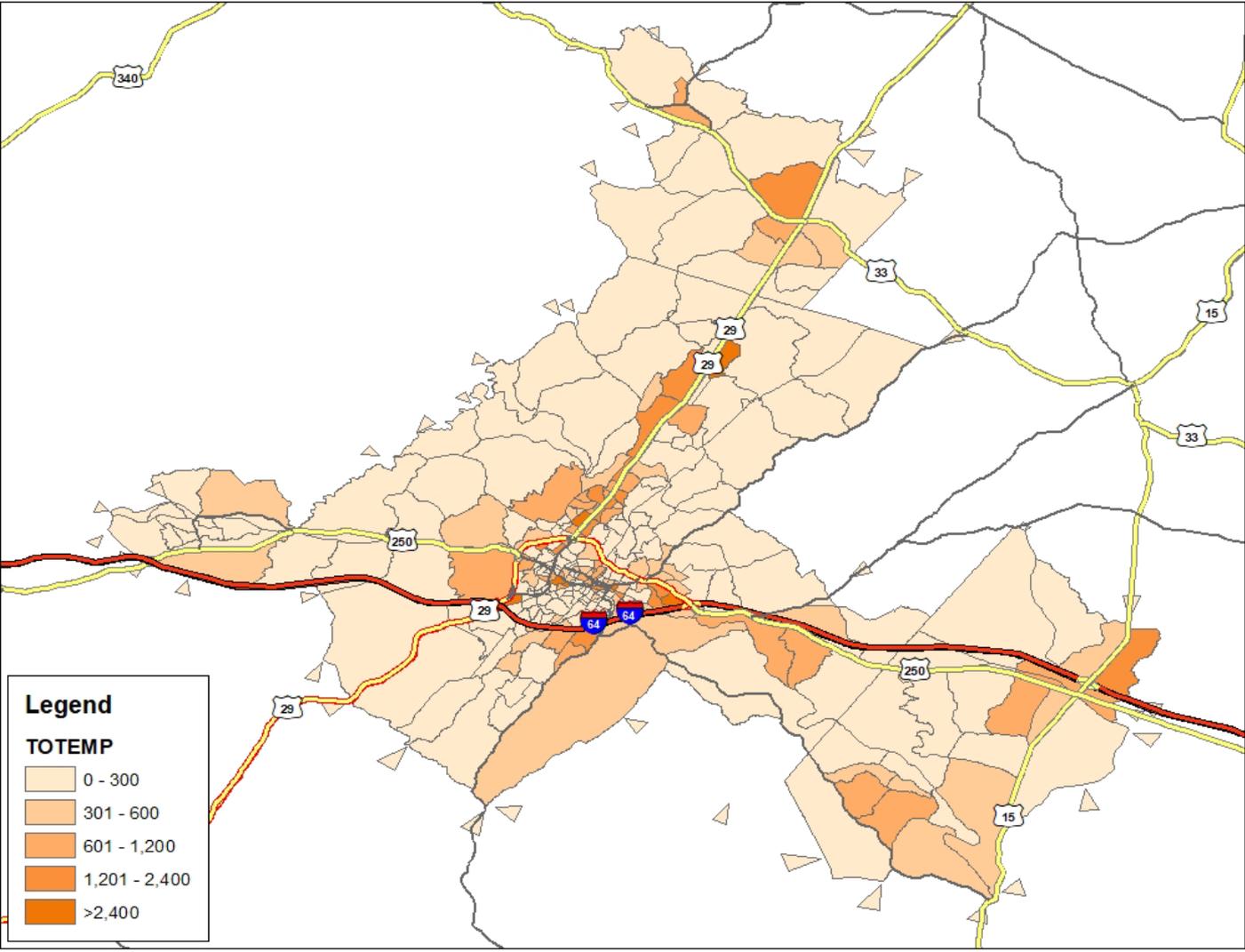
# Data development and Model Input Updates



# Data development and Model Input Updates

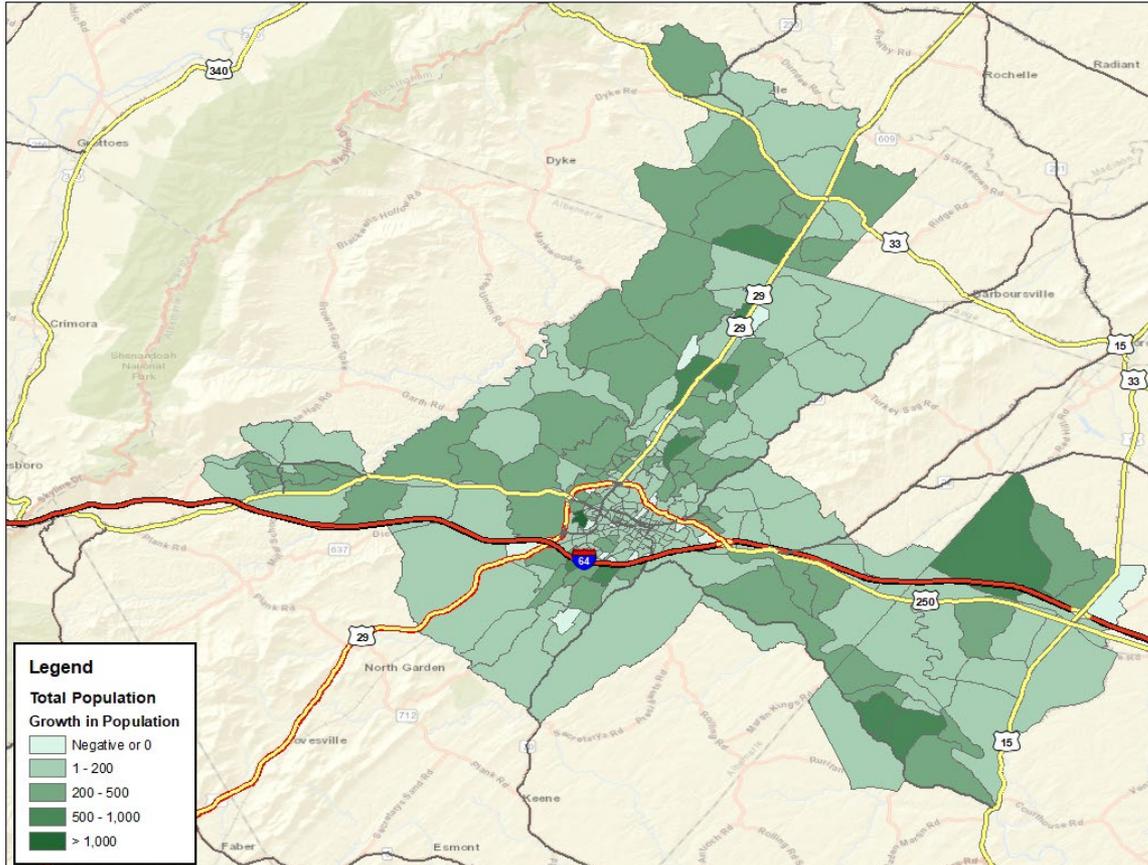


# Data development and Model Input Updates



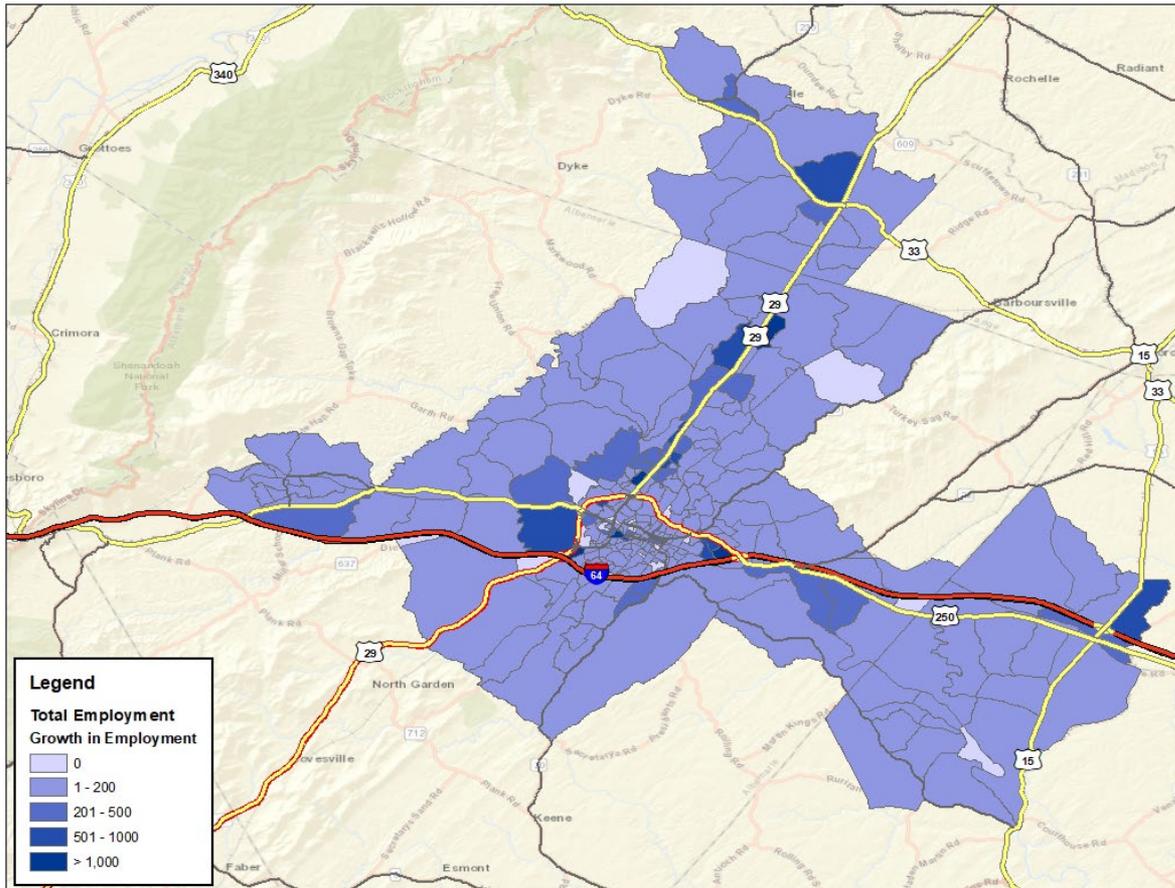
# Data development and Model Input Updates

- Change in Population between 2050 and 2022



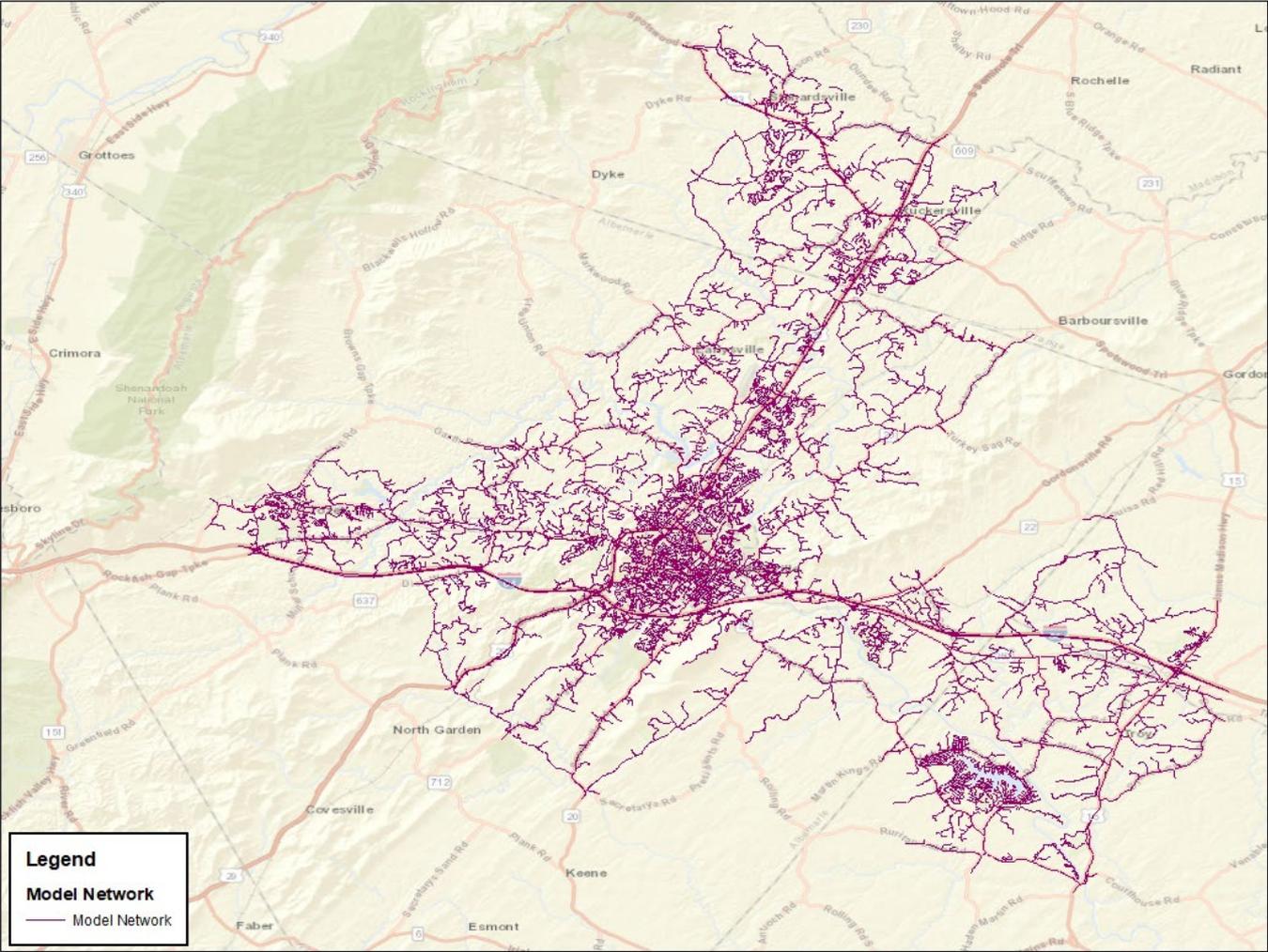
# Data development and Model Input Updates

- Change in Employment between 2050 and 2022



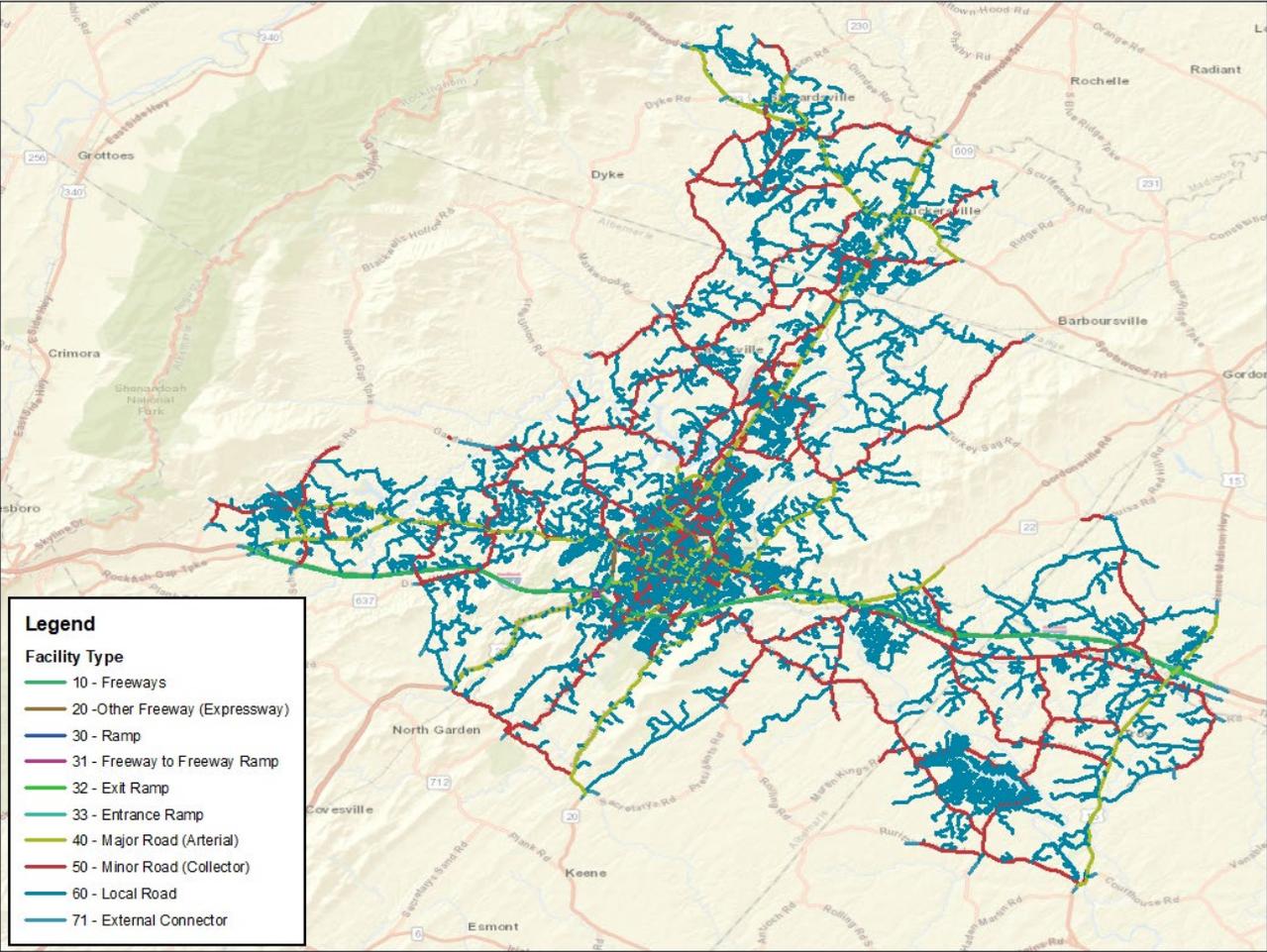
# Model Network

- Model Network for the year 2050



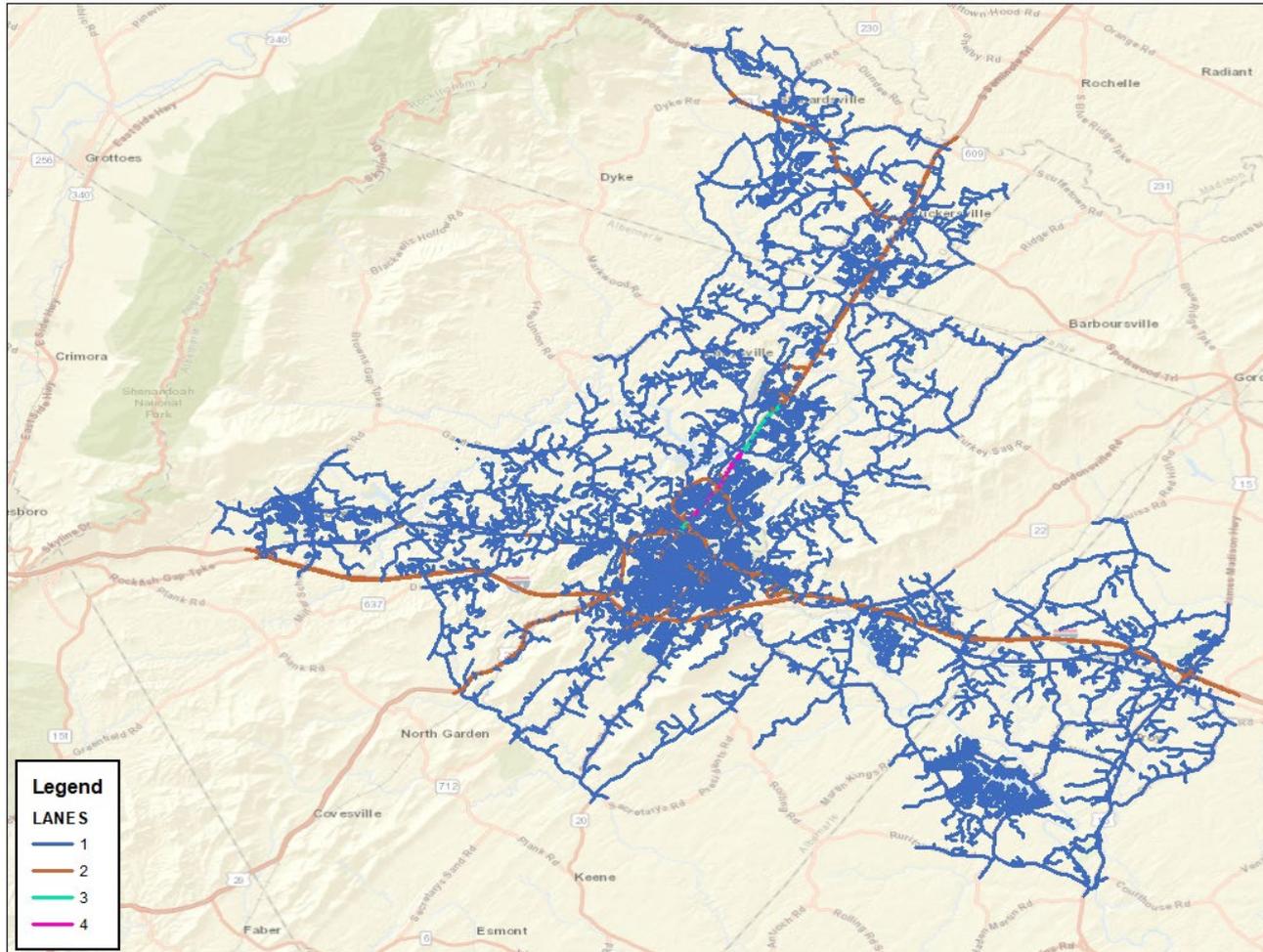
# Model Network

- Model 2050 network by facility types



# Model Network

- Model 2050 network by number of lanes



## Potential uses of the model

- **Congestion (measure by vehicle-hours of delay)**
- **Congestion maps showing road level-of-service**
- **Transit ridership**
- **Mode Share**
- **VMT per capita**
- **Average driving commute time**

Questions?