



Draft Round 10 Summary

Baltimore Regional Transportation Board

July 15, 2022



Cooperative Forecasting Group/Process

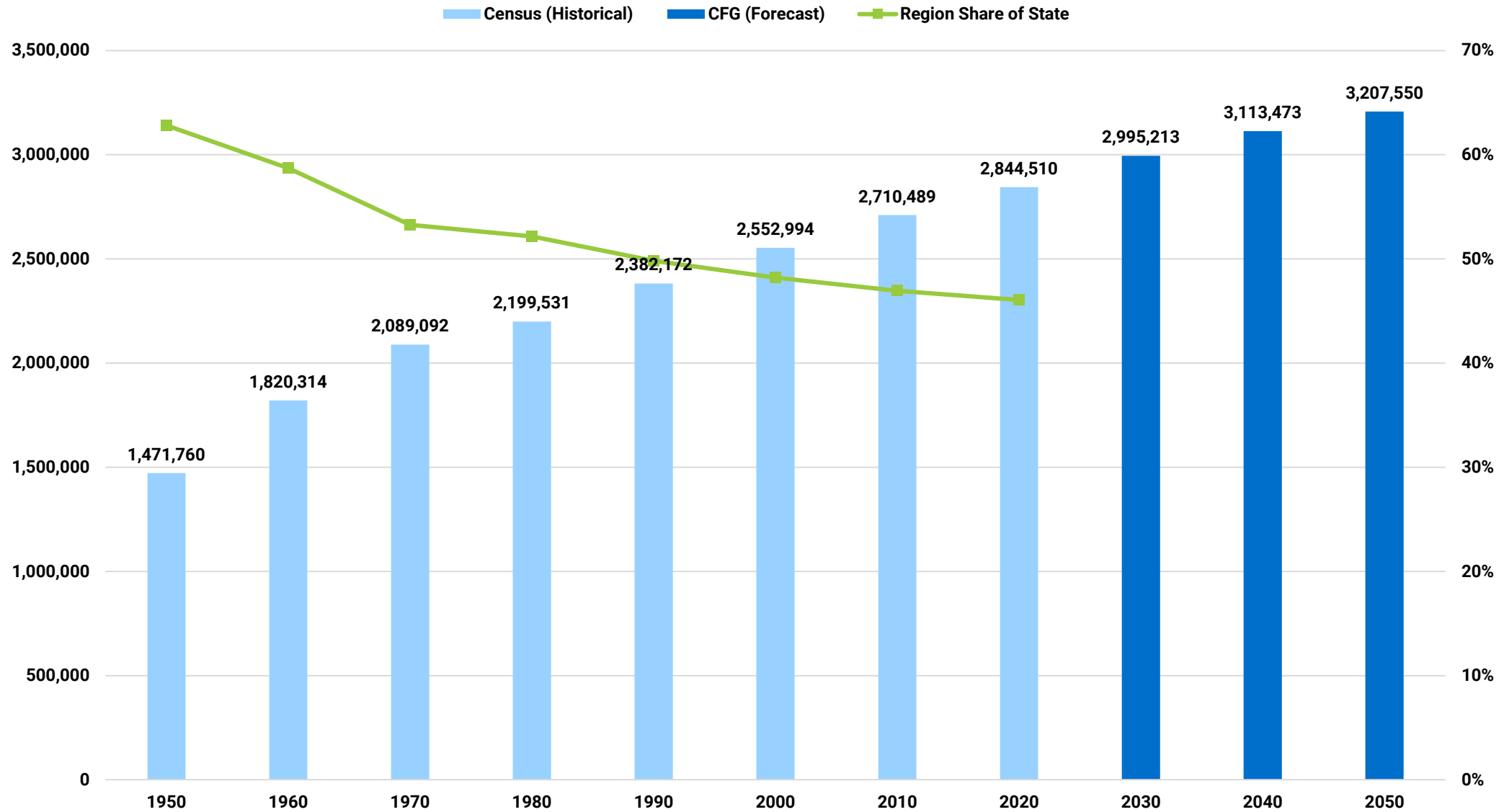
Round 10 – Cooperative Forecasting Group

– Membership of the CFG

- Anne Arundel County: Rick Fisher
- Baltimore City: Jamie Williams
- Baltimore County: Jennifer Meacham
- Carroll County: Kathleen Comber
- Harford County: Deborah Price (Vice Chair)
- Howard County: Jeff Bronow (Chair)
- Queen Anne's County: Steve Cohoon

Trends and Context

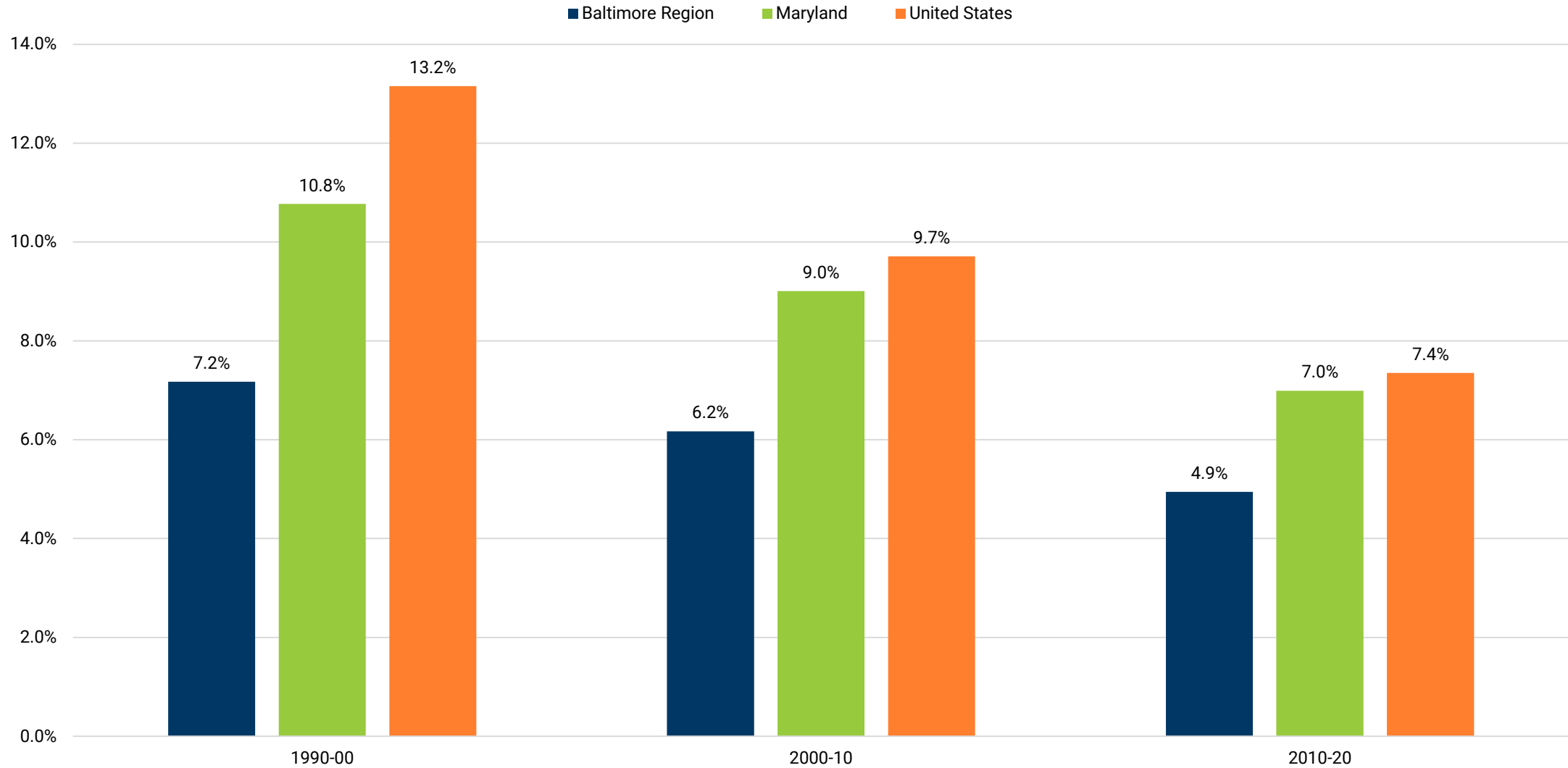
Baltimore Region Population: Historical Trend and Draft R10 Forecast



Source: U.S. Census Bureau; Cooperative Forecasting Group (Draft Round 10, April 2022); IHS Markit; Baltimore Metropolitan Council.

Historical Population Growth Trends – Baltimore Region, MD, U.S.

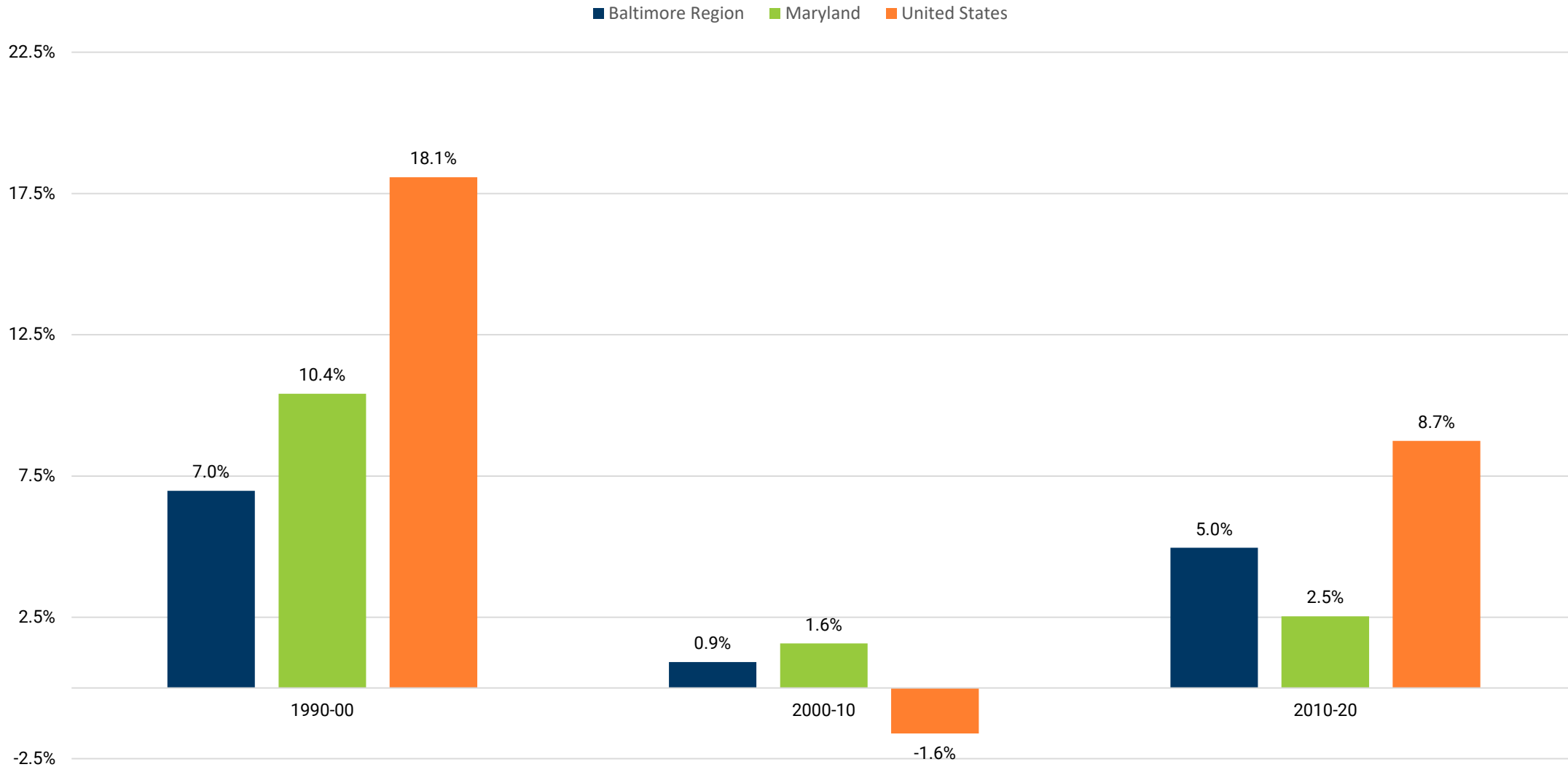
Ten-Year Population Growth Rates by Area: 1990-2020



Source: U.S. Census Bureau; IPUMS NHGIS, University of Minnesota, www.nhgis.org.

Historical Employment Growth Trends – Baltimore Region, MD, U.S.

Ten-Year Wage and Salary Employment Growth Rates by Area: 1990-2020



Source: Bureau of Economic Analysis, Wage and Salary Employment (CAEMP25N Full-Time and Part-Time Employment).

Draft Round 10 Overview

Round 10 – Factors/Points of Consideration

- The Pandemic

- Timing, inclusion of impacts in the forecasts, and data considerations

- New Jurisdiction Level Base-year Employment Methodology

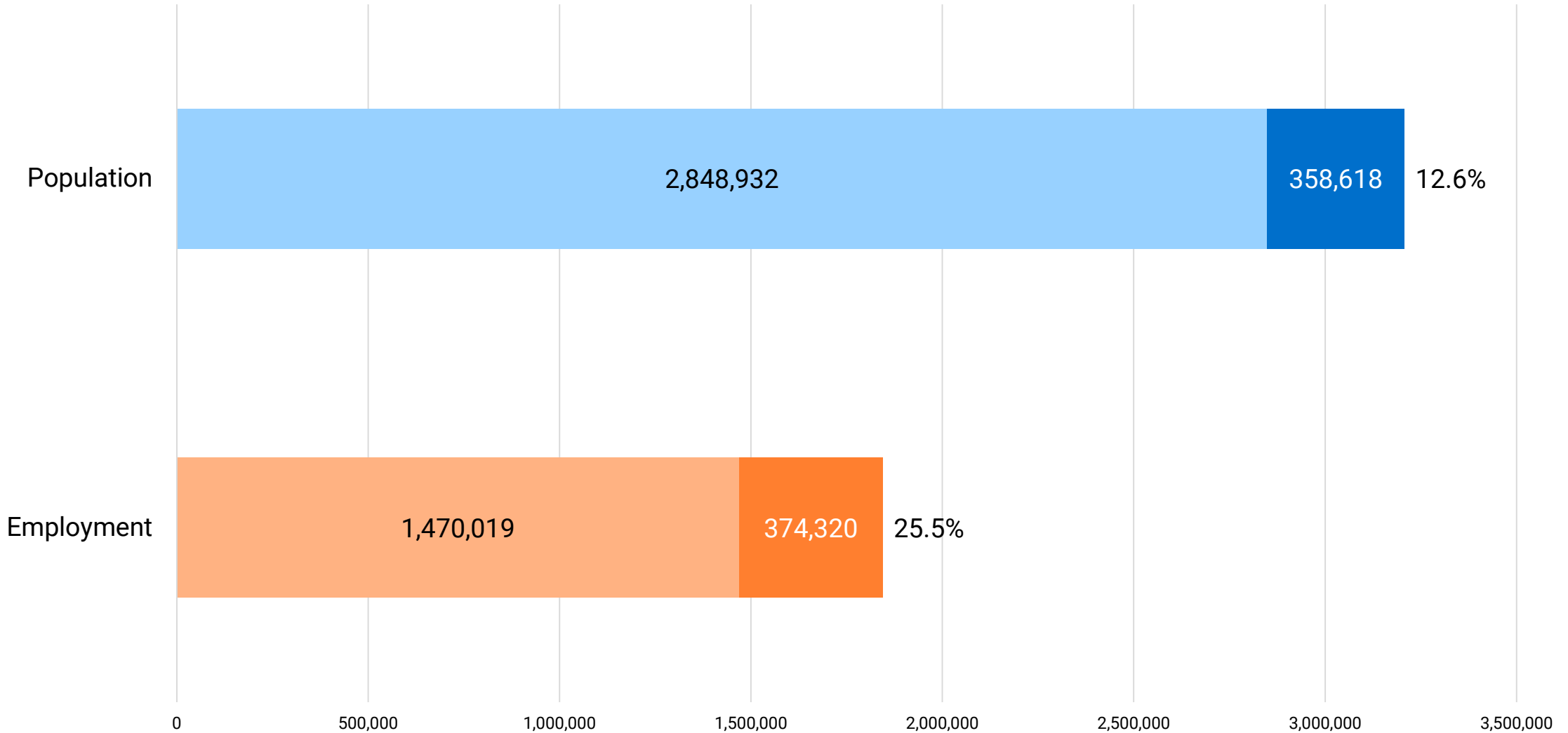
- 2020 Decennial Census

- New Base-year, New Horizon Year

- New TAZ Structure

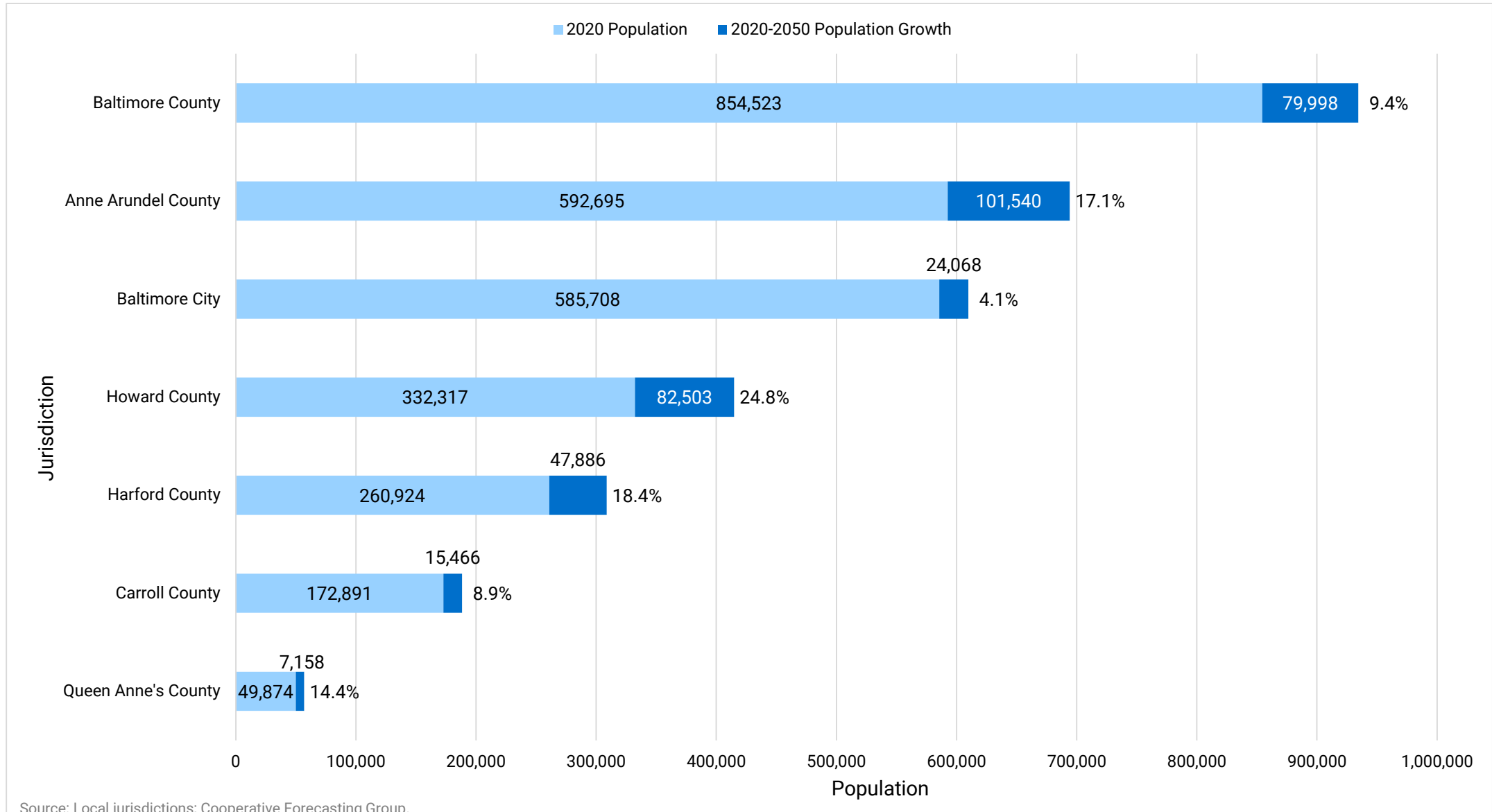
Draft Round 10 Cooperative Forecasts – Baltimore Region

Round 10: Population and Employment Base (2020), Growth (2020-2050), & Pct Growth



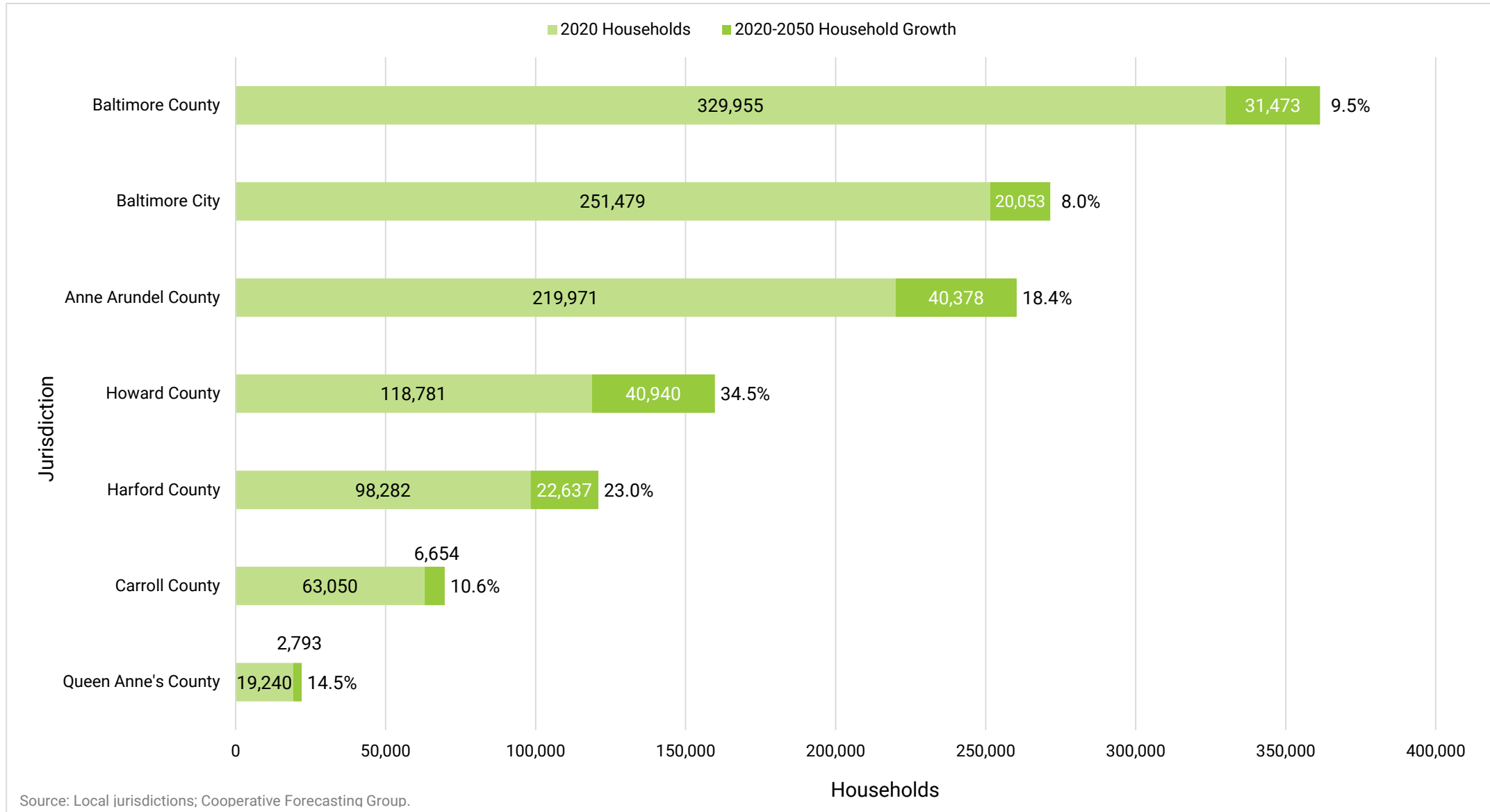
Source: Local jurisdictions; Cooperative Forecasting Group.

Draft Round 10 Cooperative Forecasts – Population



Source: Local jurisdictions; Cooperative Forecasting Group.

Draft Round 10 Cooperative Forecasts – Households



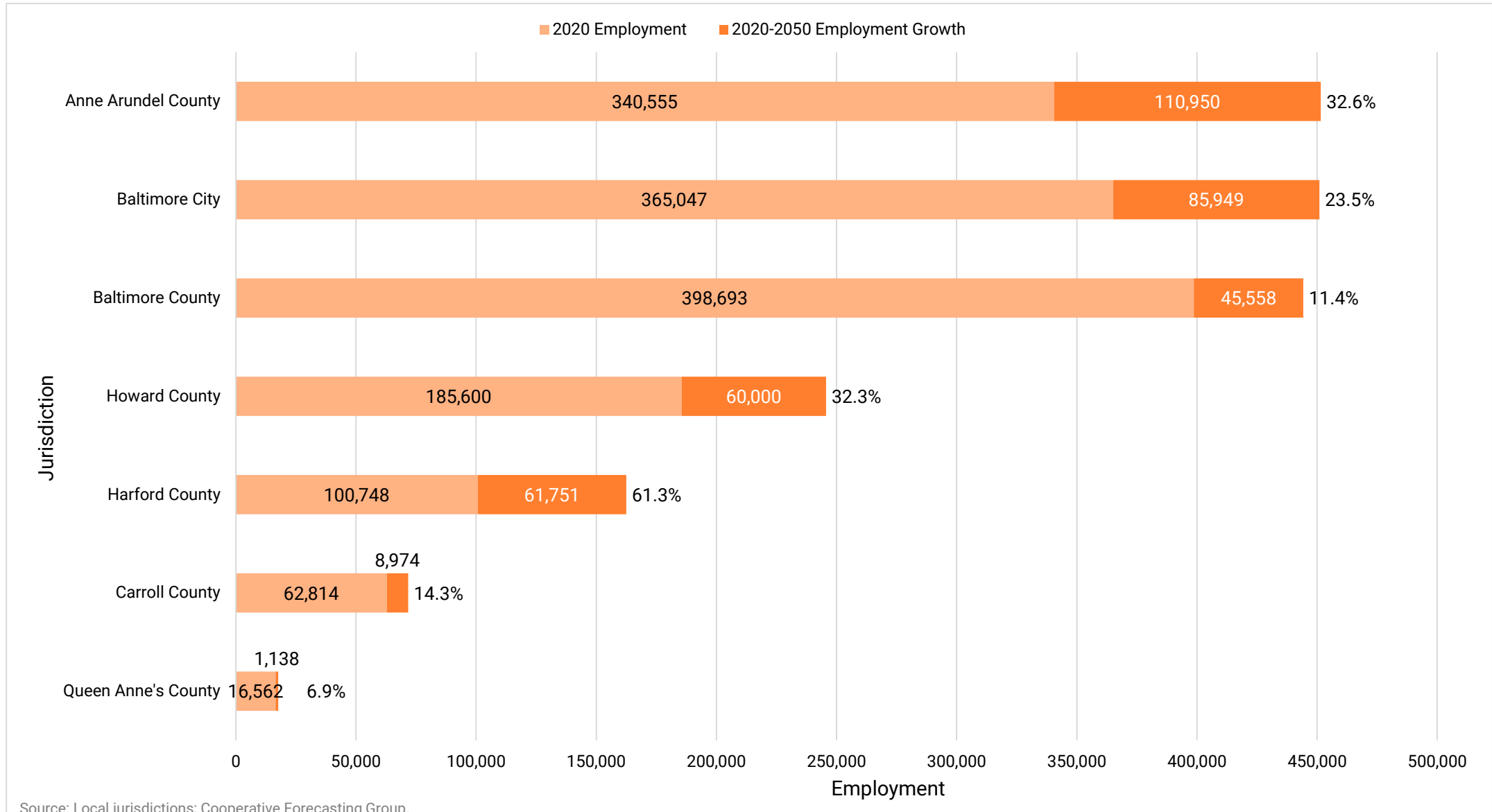
Draft Round 10 Cooperative Forecasts – Average Household Size

Average Household Size by Jurisdiction, 2020-2050

JURISDICTION	2020	2025	2030	2035	2040	2045	2050
Anne Arundel County	2.63	2.66	2.67	2.65	2.64	2.63	2.61
Baltimore City	2.26	2.23	2.22	2.21	2.20	2.19	2.18
Baltimore County	2.52	2.52	2.52	2.52	2.52	2.52	2.52
Carroll County	2.68	2.68	2.67	2.66	2.65	2.65	2.64
Harford County	2.64	2.63	2.61	2.59	2.57	2.55	2.53
Howard County	2.77	2.74	2.71	2.67	2.64	2.61	2.58
Queen Anne's County	2.57	2.57	2.57	2.57	2.57	2.57	2.57
Baltimore Region	2.53	2.53	2.52	2.51	2.50	2.49	2.48

Source: Local jurisdictions; Cooperative Forecasting Group.

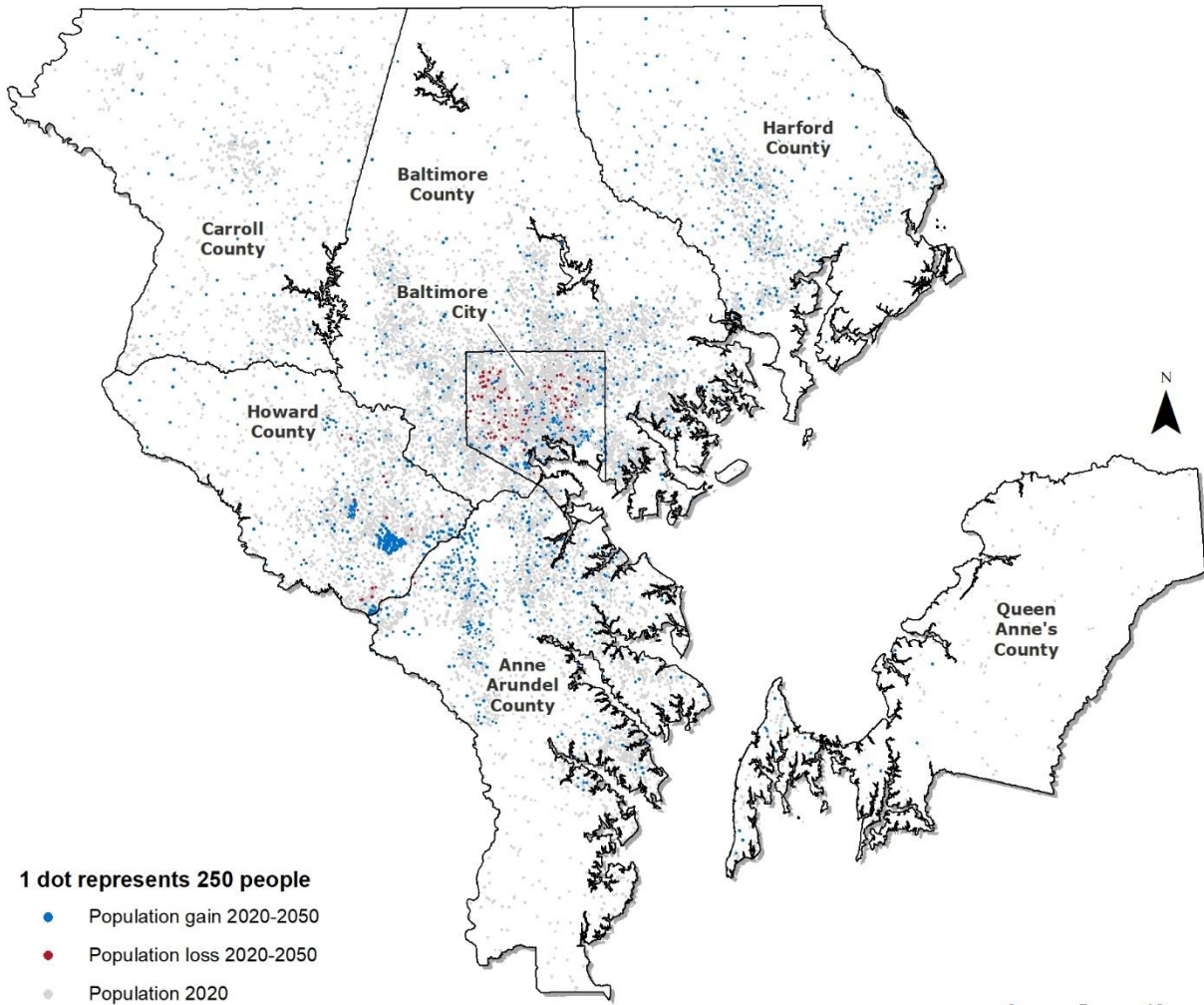
Draft Round 10 Cooperative Forecasts – Employment



Source: Local jurisdictions; Cooperative Forecasting Group.

Draft Round 10 Population and Employment – Estimates and Forecasts

Population



1 dot represents 250 people

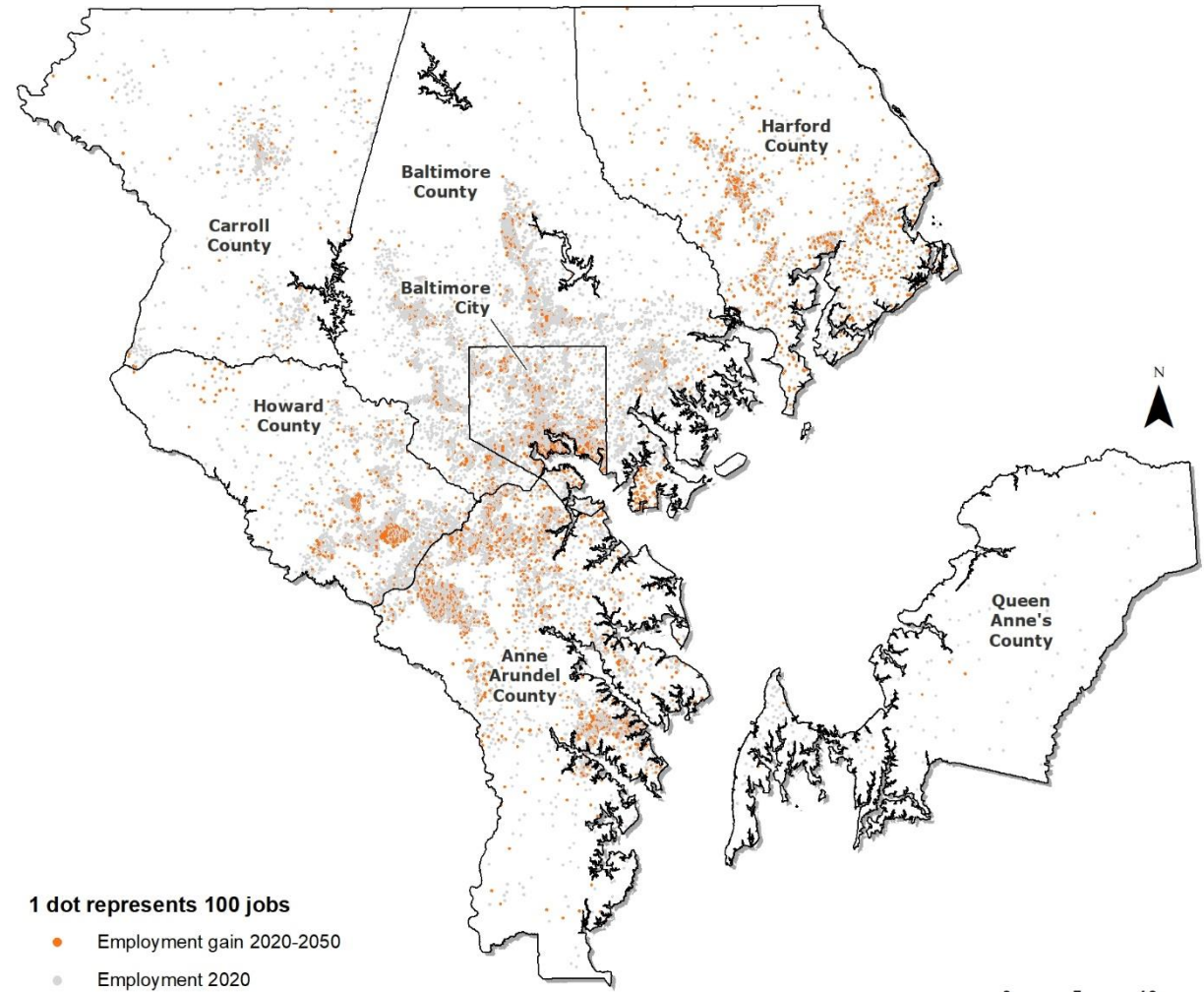
- Population gain 2020-2050
- Population loss 2020-2050
- Population 2020

Note: Dot locations are representative distributions by TAZ unit and do not depict precise locations of people or jobs.



Sources: BMC, TIGER/Line®

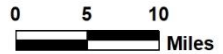
Employment



1 dot represents 100 jobs

- Employment gain 2020-2050
- Employment 2020

Note: Dot locations are representative distributions by TAZ unit and do not depict precise locations of people or jobs.



Sources: BMC, TIGER/Line®

For More Information

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Draft Round 10 Cooperative Forecasts - Summary

DRAFT - Round 10 Population

JURISDICTION	2020	2025	2030	2035	2040	2045	2050	CHANGE				PERCENT CHANGE			
								2020-2030	2030-2040	2040-2050	2020-2050	2020-2030	2030-2040	2040-2050	2020-2050
Anne Arundel County	592,695	621,687	646,214	664,214	677,424	687,119	694,235	53,519	31,210	16,811	101,540	9.0%	4.8%	2.5%	17.1%
Baltimore City	585,708	594,526	596,393	596,916	599,216	603,436	609,776	10,685	2,823	10,560	24,068	1.8%	0.5%	1.8%	4.1%
Baltimore County	854,523	868,112	876,726	894,541	909,000	920,275	934,521	22,203	32,275	25,520	79,998	2.6%	3.7%	2.8%	9.4%
Carroll County	172,891	176,399	179,140	181,580	183,956	186,253	188,357	6,249	4,816	4,401	15,466	3.6%	2.7%	2.4%	8.9%
Harford County	260,924	270,059	277,819	285,759	293,569	301,252	308,810	16,895	15,750	15,241	47,886	6.5%	5.7%	5.2%	18.4%
Howard County	332,317	349,697	363,987	380,016	393,641	404,607	414,820	31,670	29,654	21,179	82,503	9.5%	8.1%	5.4%	24.8%
Queen Anne's County	49,874	52,712	54,935	56,000	56,667	56,883	57,032	5,061	1,732	365	7,158	10.1%	3.2%	0.6%	14.4%
Baltimore Region	2,848,932	2,933,192	2,995,213	3,059,026	3,113,473	3,159,824	3,207,550	146,281	118,260	94,077	358,618	5.1%	3.9%	3.0%	12.6%

DRAFT - Round 10 Households

JURISDICTION	2020	2025	2030	2035	2040	2045	2050	CHANGE				PERCENT CHANGE			
								2020-2030	2030-2040	2040-2050	2020-2050	2020-2030	2030-2040	2040-2050	2020-2050
Anne Arundel County	219,971	228,528	236,781	244,935	251,583	256,061	260,349	16,810	14,802	8,766	40,378	7.6%	6.3%	3.5%	18.4%
Baltimore City	251,479	258,233	260,583	262,036	264,323	267,459	271,532	9,104	3,740	7,209	20,053	3.6%	1.4%	2.7%	8.0%
Baltimore County	329,955	334,975	338,408	345,501	351,261	355,753	361,428	8,453	12,853	10,167	31,473	2.6%	3.8%	2.9%	9.5%
Carroll County	63,050	64,455	65,595	66,670	67,701	68,709	69,704	2,545	2,106	2,003	6,654	4.0%	3.2%	3.0%	10.6%
Harford County	98,282	101,919	105,719	109,519	113,319	117,119	120,919	7,437	7,600	7,600	22,637	7.6%	7.2%	6.7%	23.0%
Howard County	118,781	126,599	133,334	141,148	147,881	153,953	159,721	14,553	14,547	11,840	40,940	12.3%	10.9%	8.0%	34.5%
Queen Anne's County	19,240	20,355	21,223	21,636	21,892	21,975	22,033	1,983	669	141	2,793	10.3%	3.2%	0.6%	14.5%
Baltimore Region	1,100,758	1,135,064	1,161,643	1,191,444	1,217,960	1,241,029	1,265,686	60,885	56,317	47,727	164,928	5.5%	4.8%	3.9%	15.0%

DRAFT - Round 10 Employment

JURISDICTION	2020	2025	2030	2035	2040	2045	2050	CHANGE				PERCENT CHANGE			
								2020-2030	2030-2040	2040-2050	2020-2050	2020-2030	2030-2040	2040-2050	2020-2050
Anne Arundel County	340,555	375,489	389,833	404,256	419,012	434,725	451,505	49,278	29,179	32,493	110,950	14.5%	7.5%	7.8%	32.6%
Baltimore City	365,047	377,443	396,188	413,808	430,379	446,685	450,996	31,141	34,191	20,617	85,949	8.5%	8.6%	4.8%	23.5%
Baltimore County	398,693	411,260	425,058	428,306	434,620	441,159	444,251	26,365	9,562	9,631	45,558	6.6%	2.2%	2.2%	11.4%
Carroll County	62,814	64,313	65,821	67,319	68,809	70,290	71,789	3,006	2,988	2,979	8,974	4.8%	4.5%	4.3%	14.3%
Harford County	100,748	110,606	120,560	130,808	141,273	151,868	162,499	19,812	20,712	21,226	61,751	19.7%	17.2%	15.0%	61.3%
Howard County	185,600	193,976	203,284	217,619	231,970	238,935	245,600	17,684	28,686	13,630	60,000	9.5%	14.1%	5.9%	32.3%
Queen Anne's County	16,562	16,775	17,125	17,250	17,375	17,525	17,700	563	250	325	1,138	3.4%	1.5%	1.9%	6.9%
Baltimore Region	1,470,019	1,549,862	1,617,869	1,679,367	1,743,438	1,801,187	1,844,339	147,850	125,568	100,902	374,320	10.1%	7.8%	5.8%	25.5%

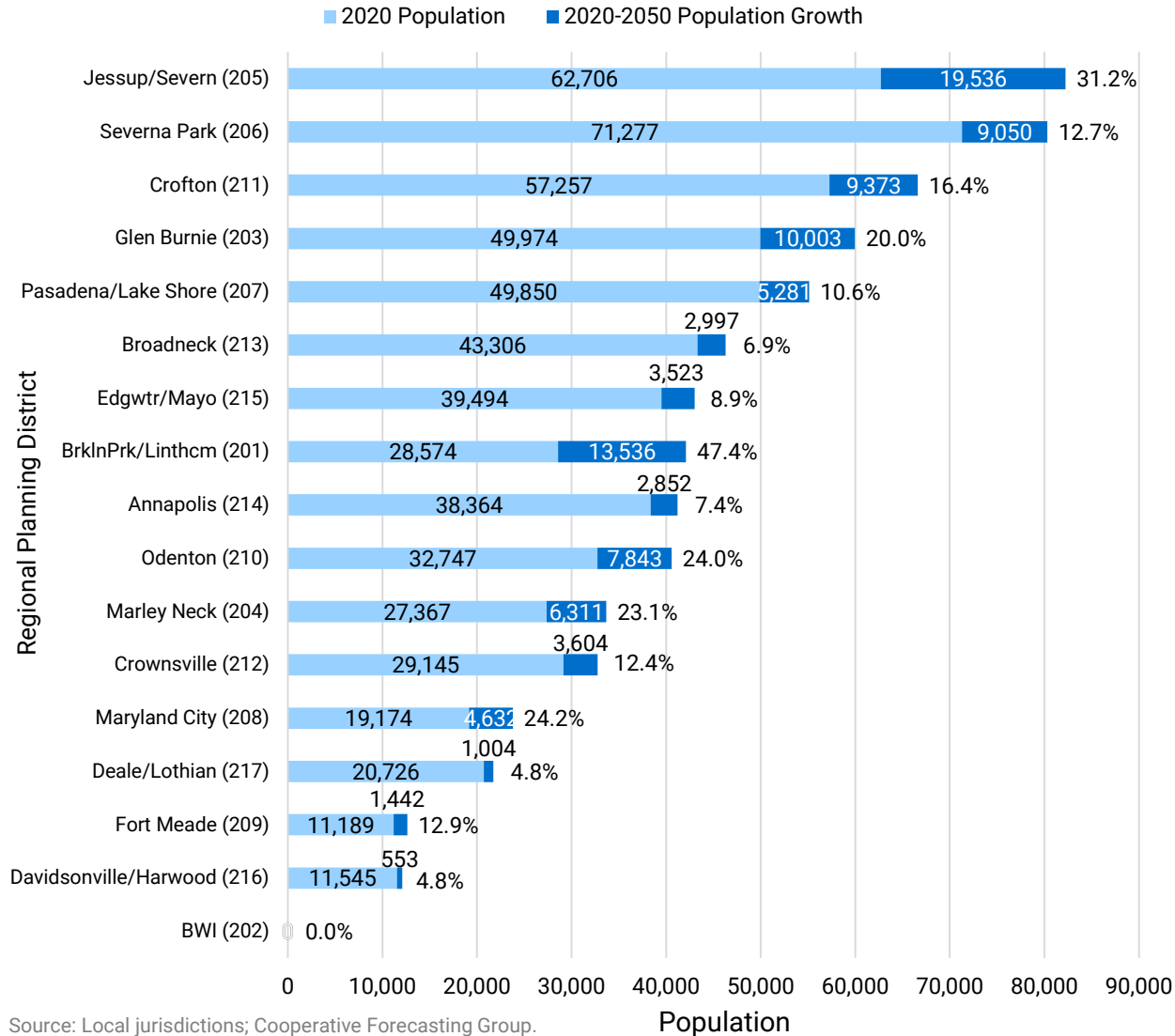
Note: Anne Arundel County data includes the City of Annapolis.

Source: Local jurisdictions; Cooperative Forecasting Group.

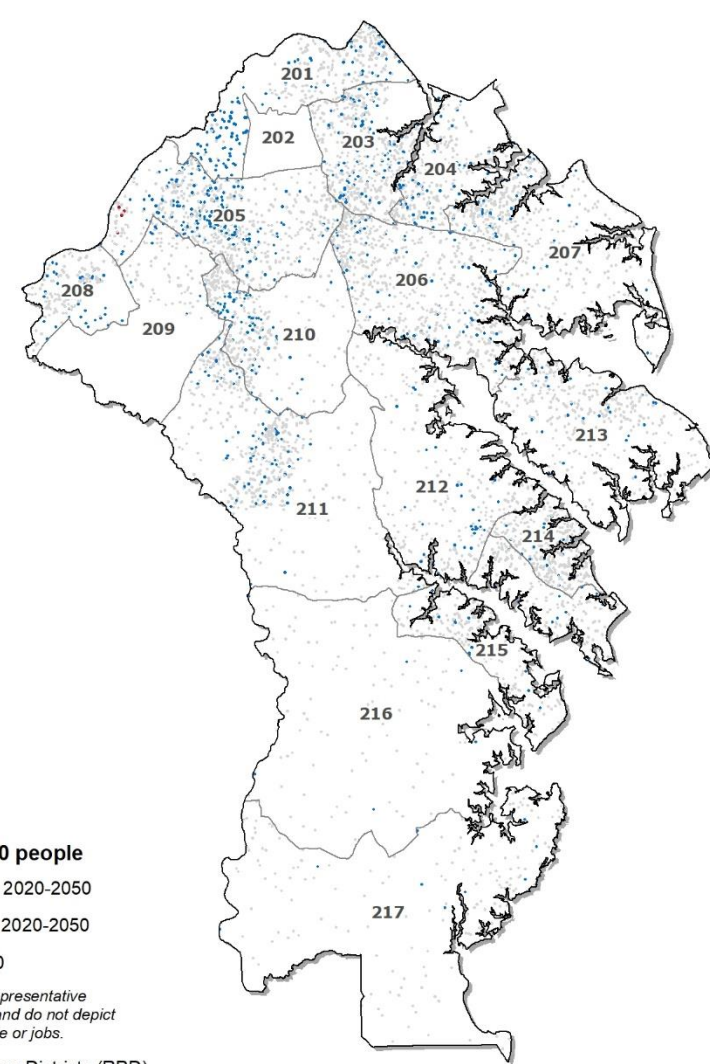
ROUND 10 ESTIMATES AND FORECASTS BY JURISDICTION

ANNE ARUNDEL COUNTY

Draft Round 10 Population – Within Anne Arundel County



Source: Local jurisdictions; Cooperative Forecasting Group.

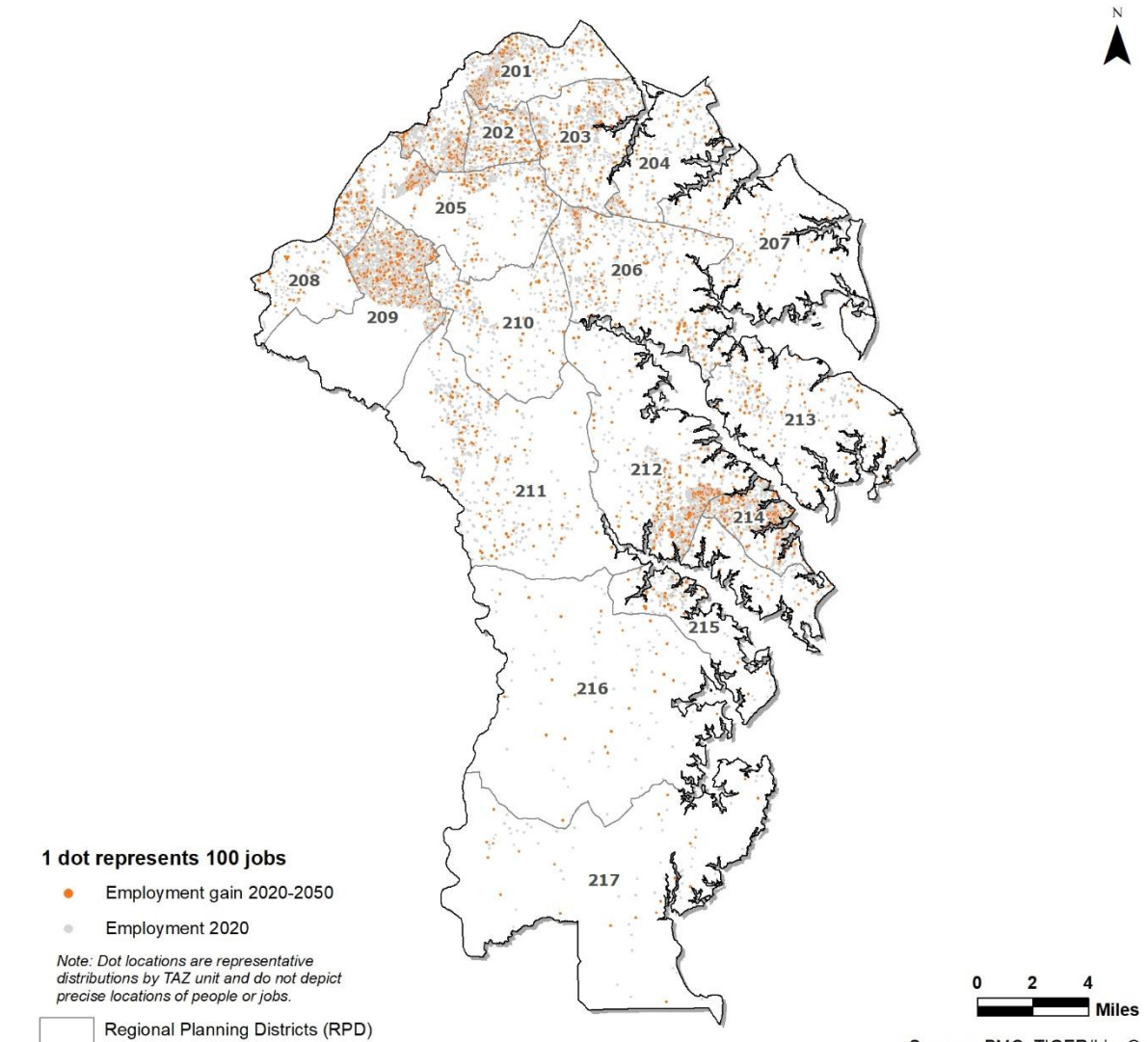
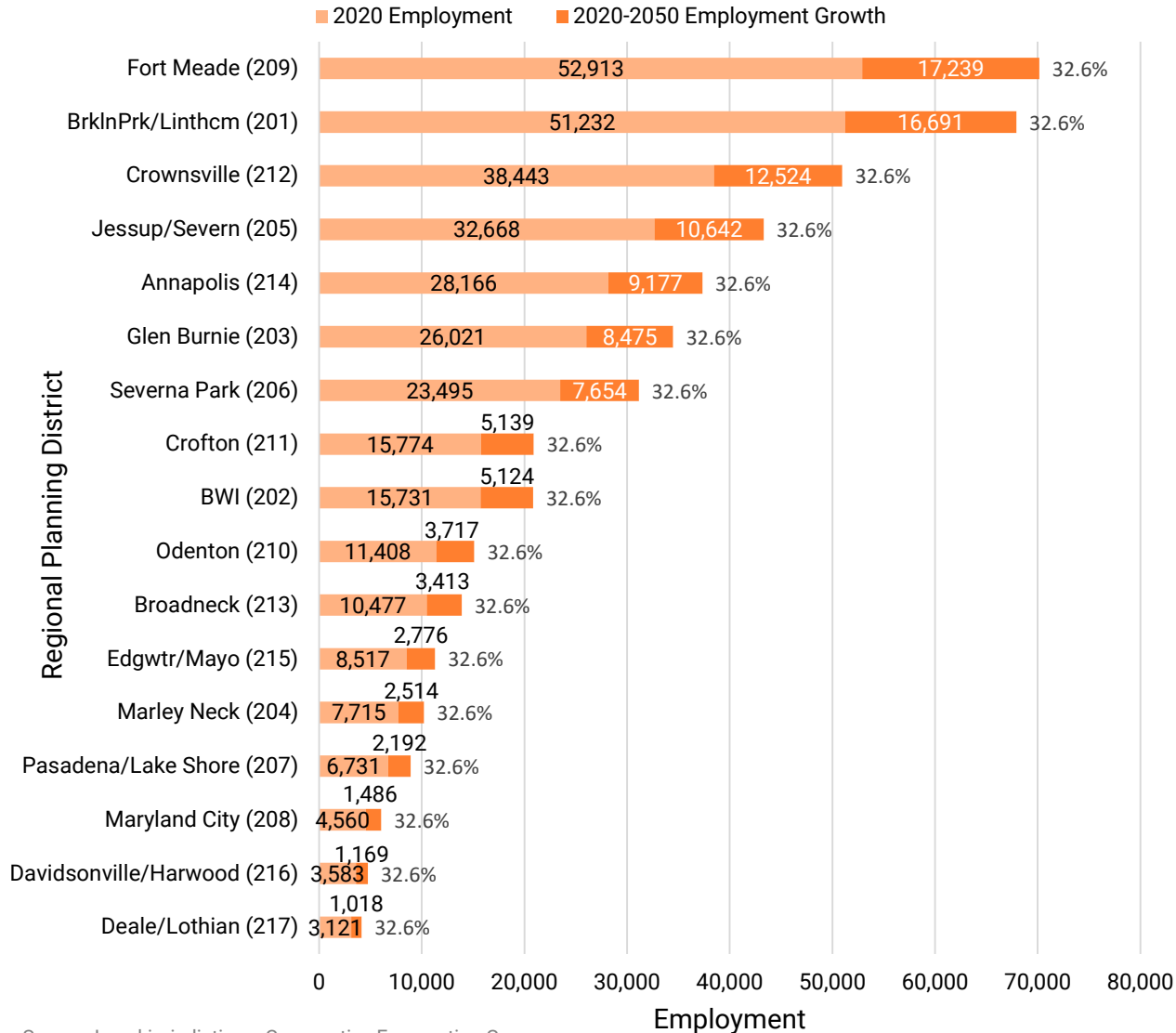


Regional Planning Districts (RPD)



Sources: BMC, TIGER/Line®

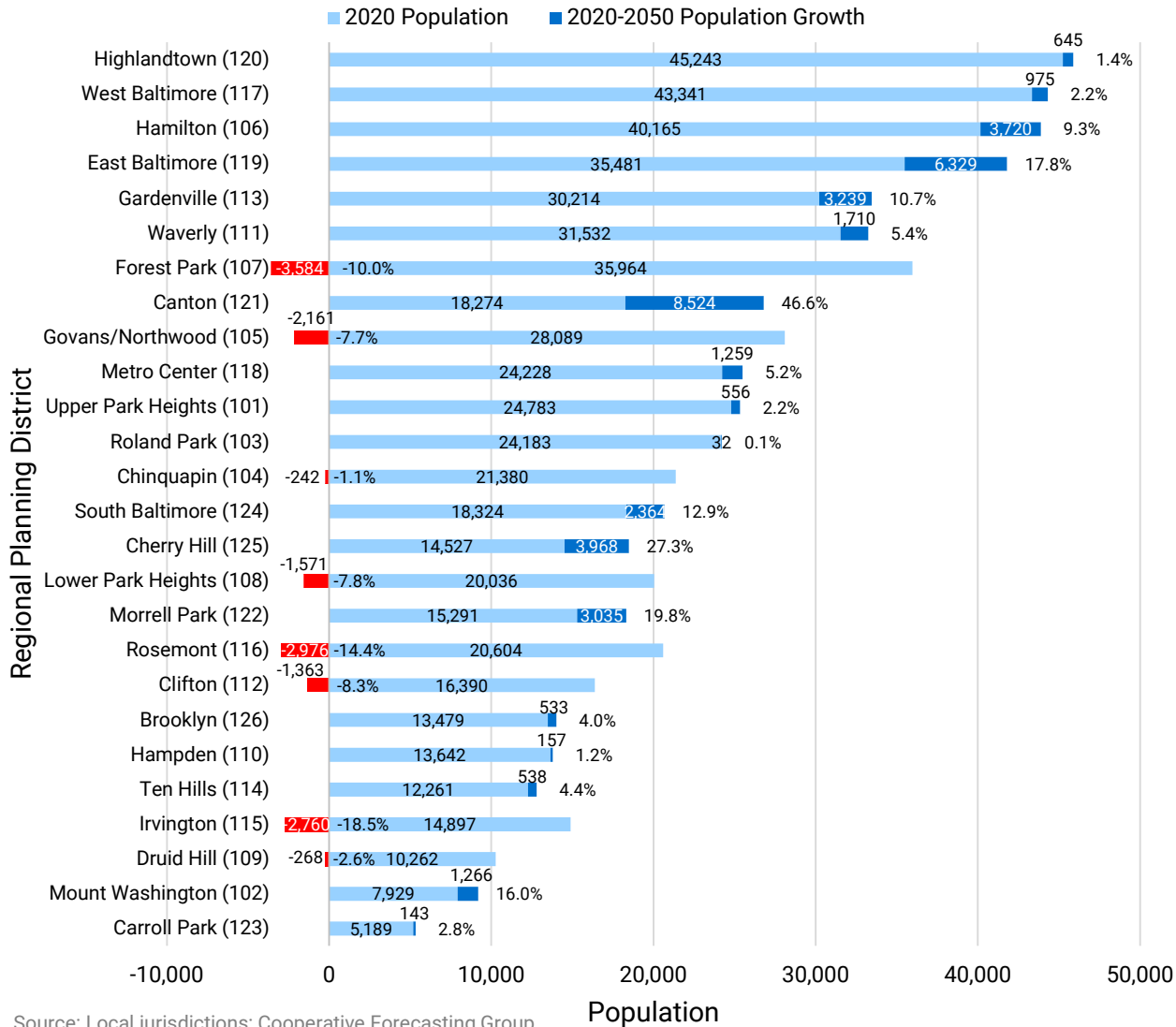
Draft Round 10 Employment – Within Anne Arundel County



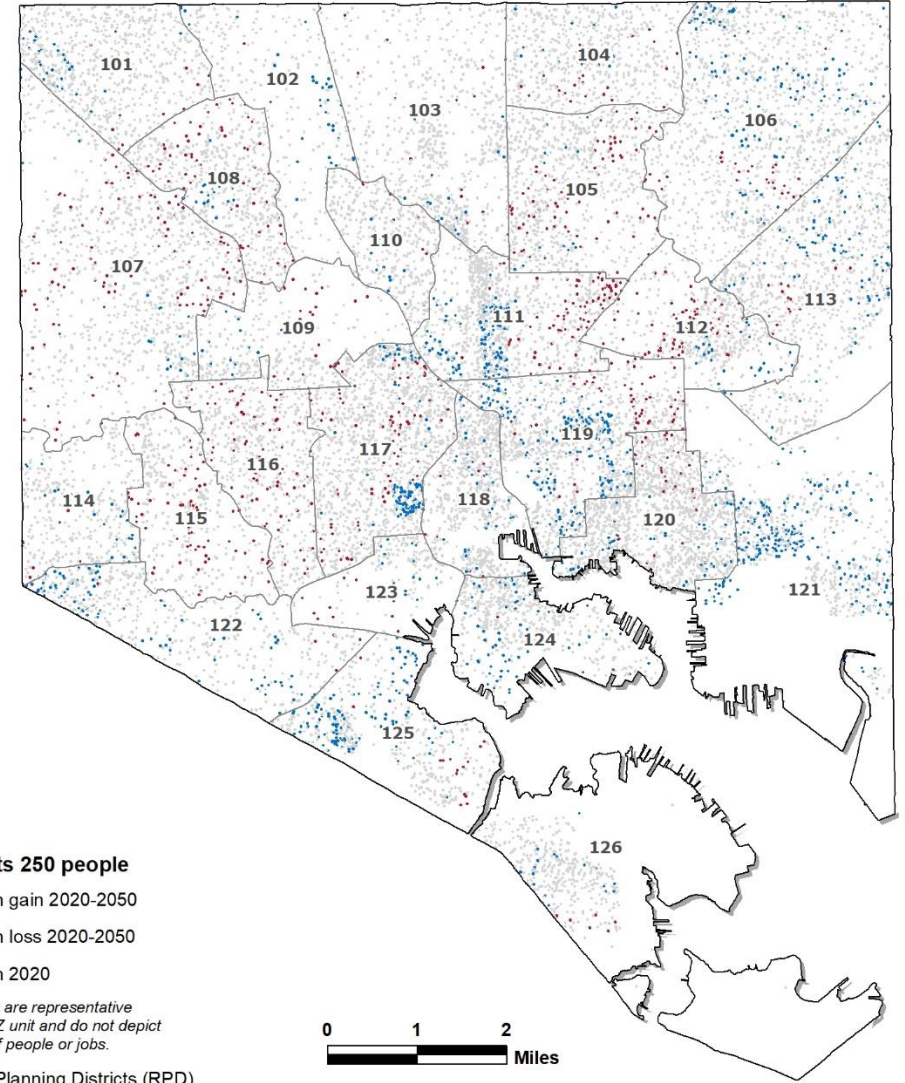
Source: Local jurisdictions; Cooperative Forecasting Group.

BALTIMORE CITY

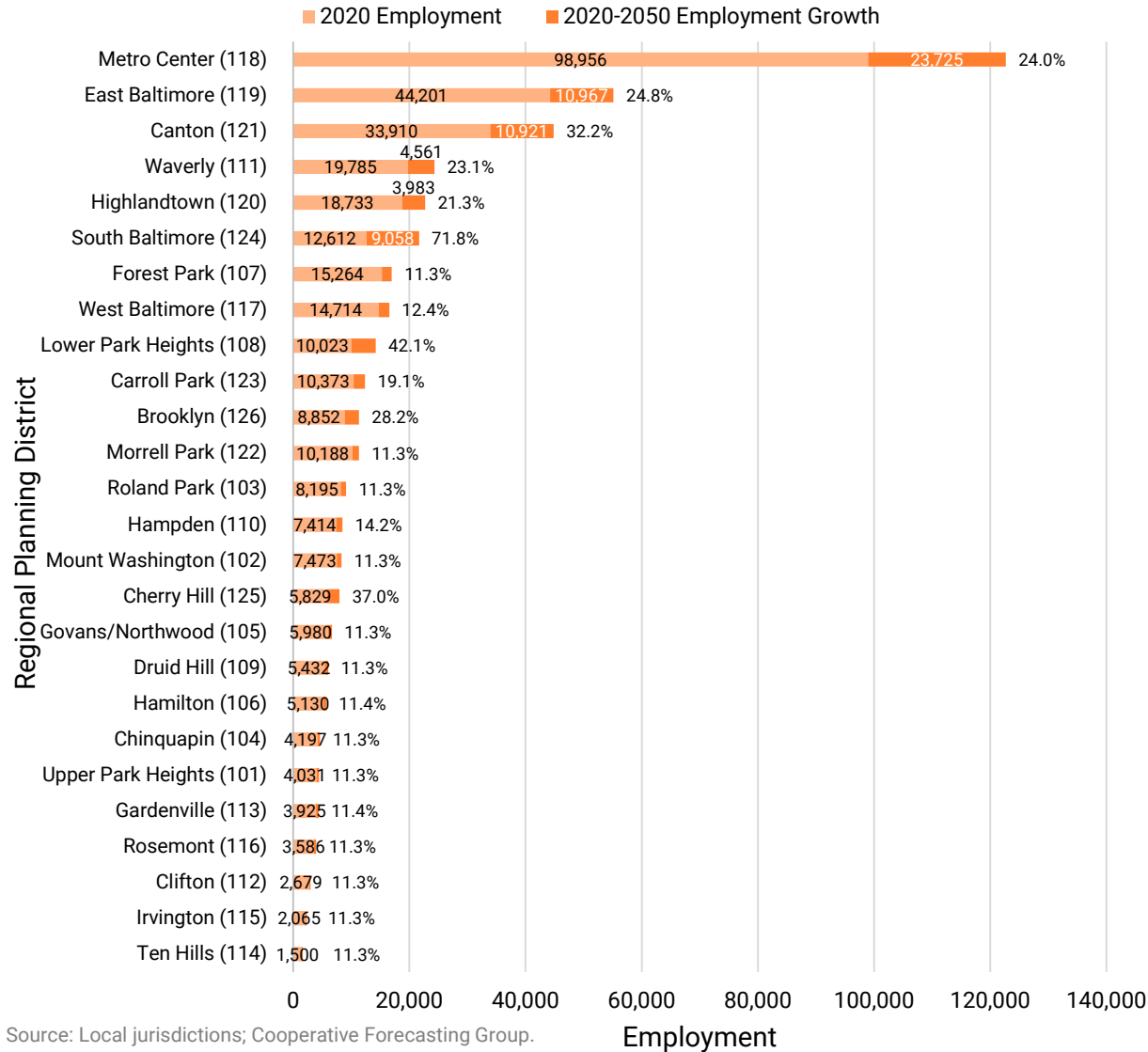
Draft Round 10 Population – Baltimore City RPDs



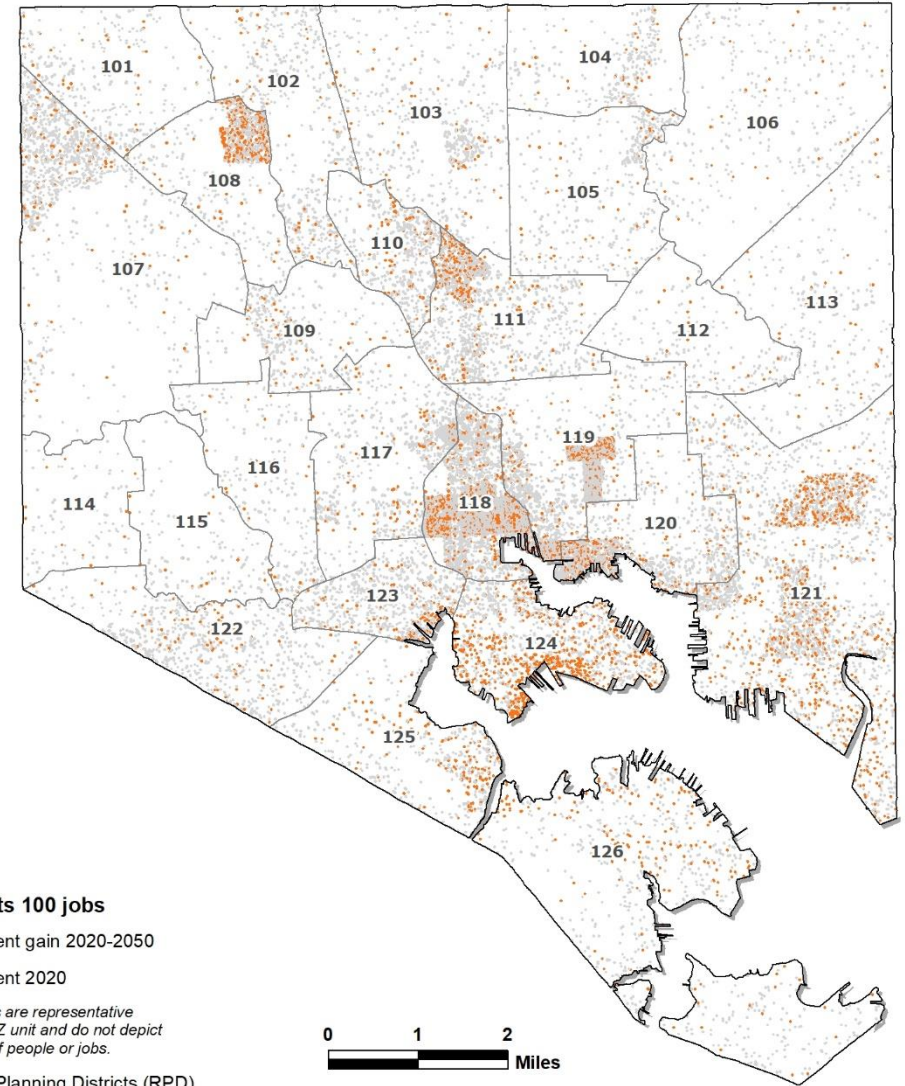
Source: Local jurisdictions; Cooperative Forecasting Group.



Draft Round 10 Employment – Baltimore City RPDs

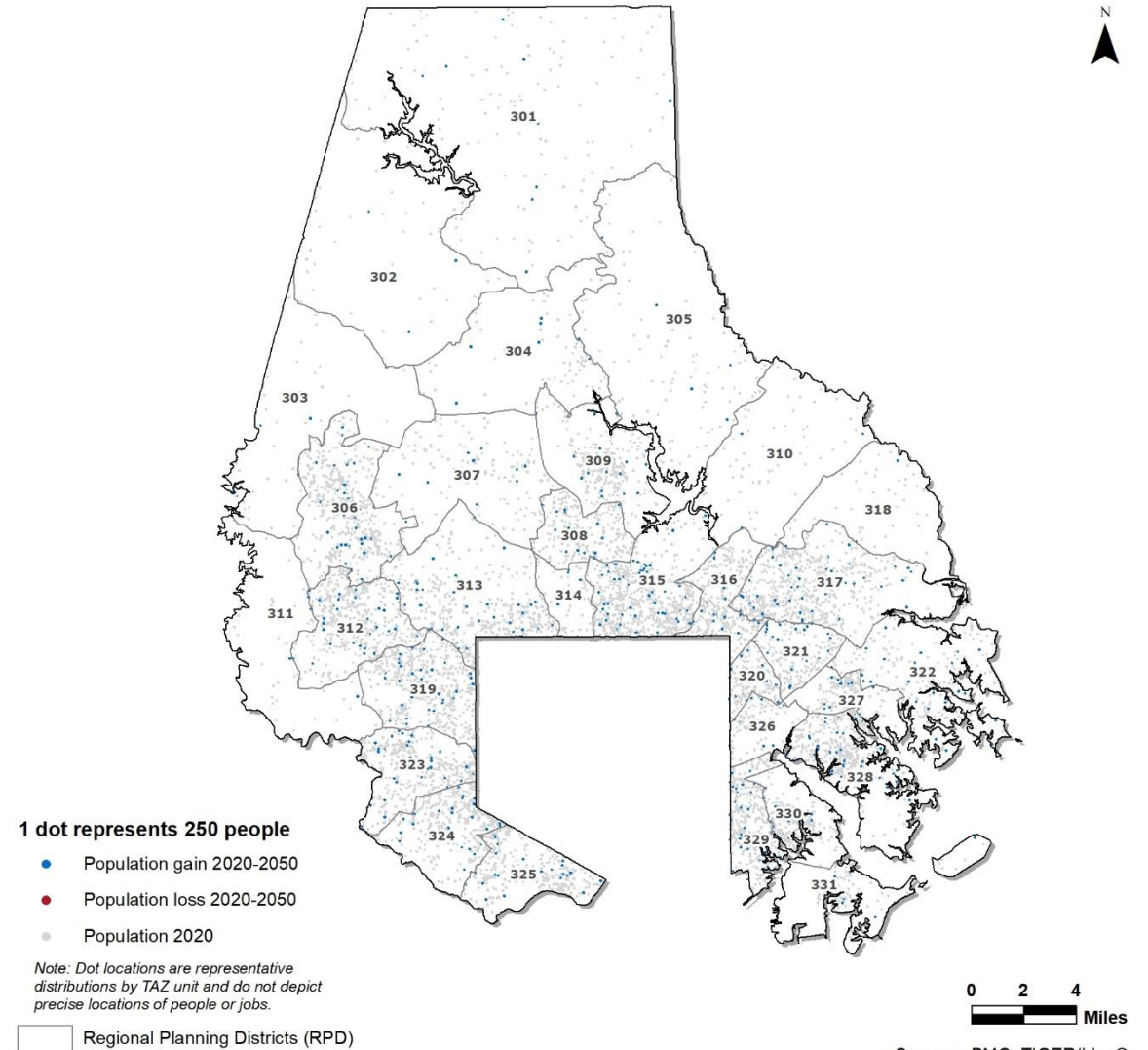
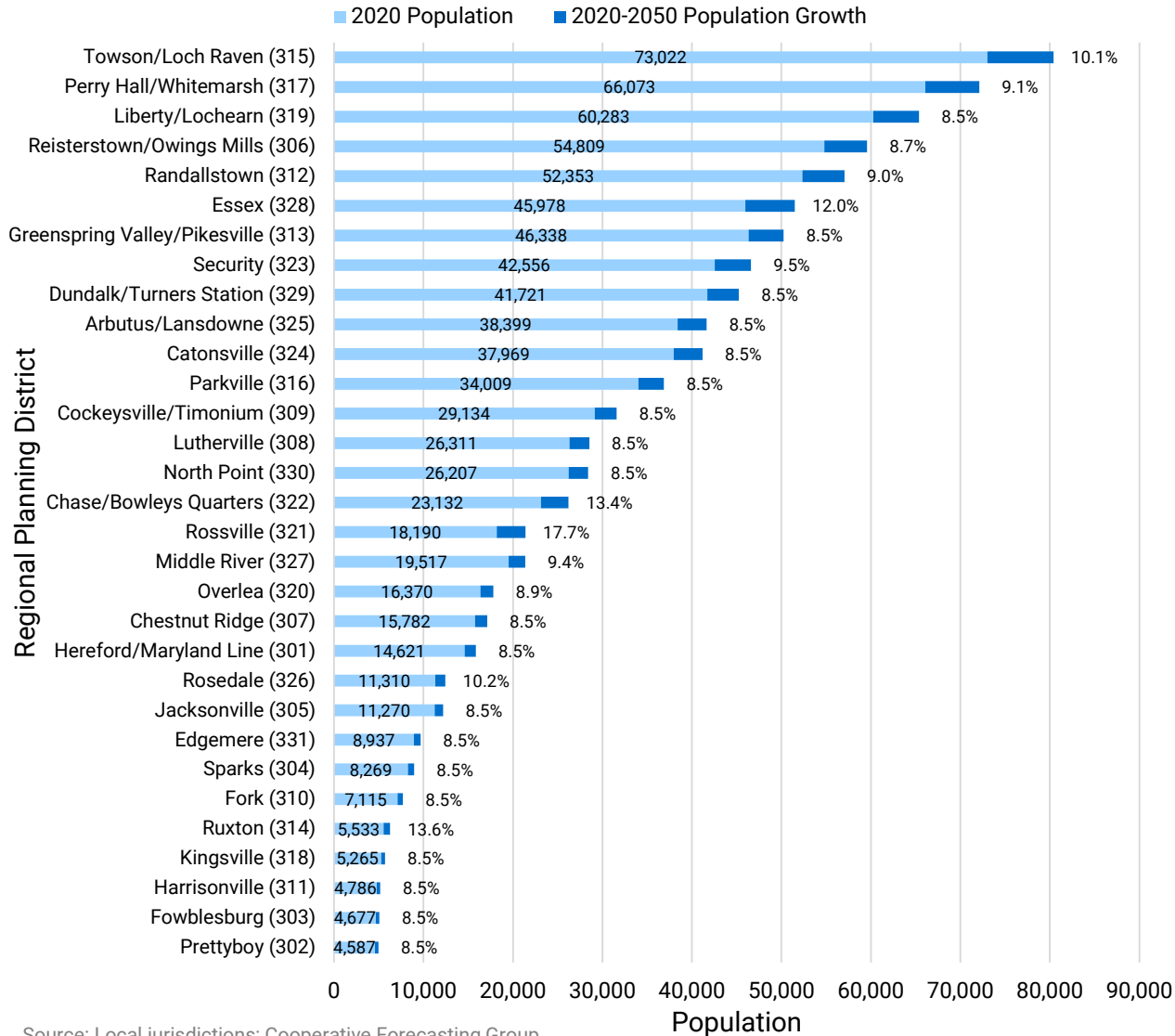


Source: Local jurisdictions; Cooperative Forecasting Group.



BALTIMORE COUNTY

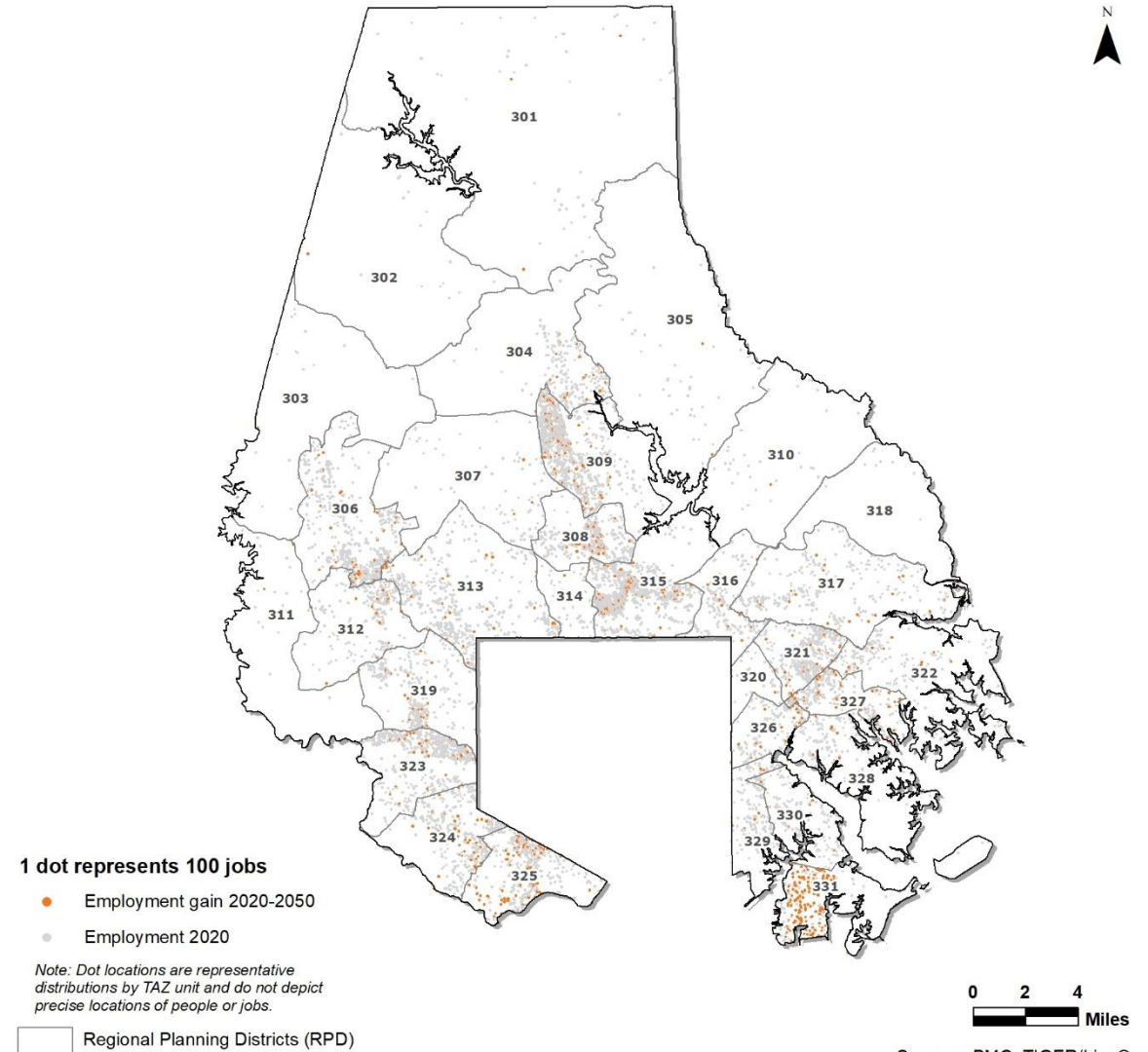
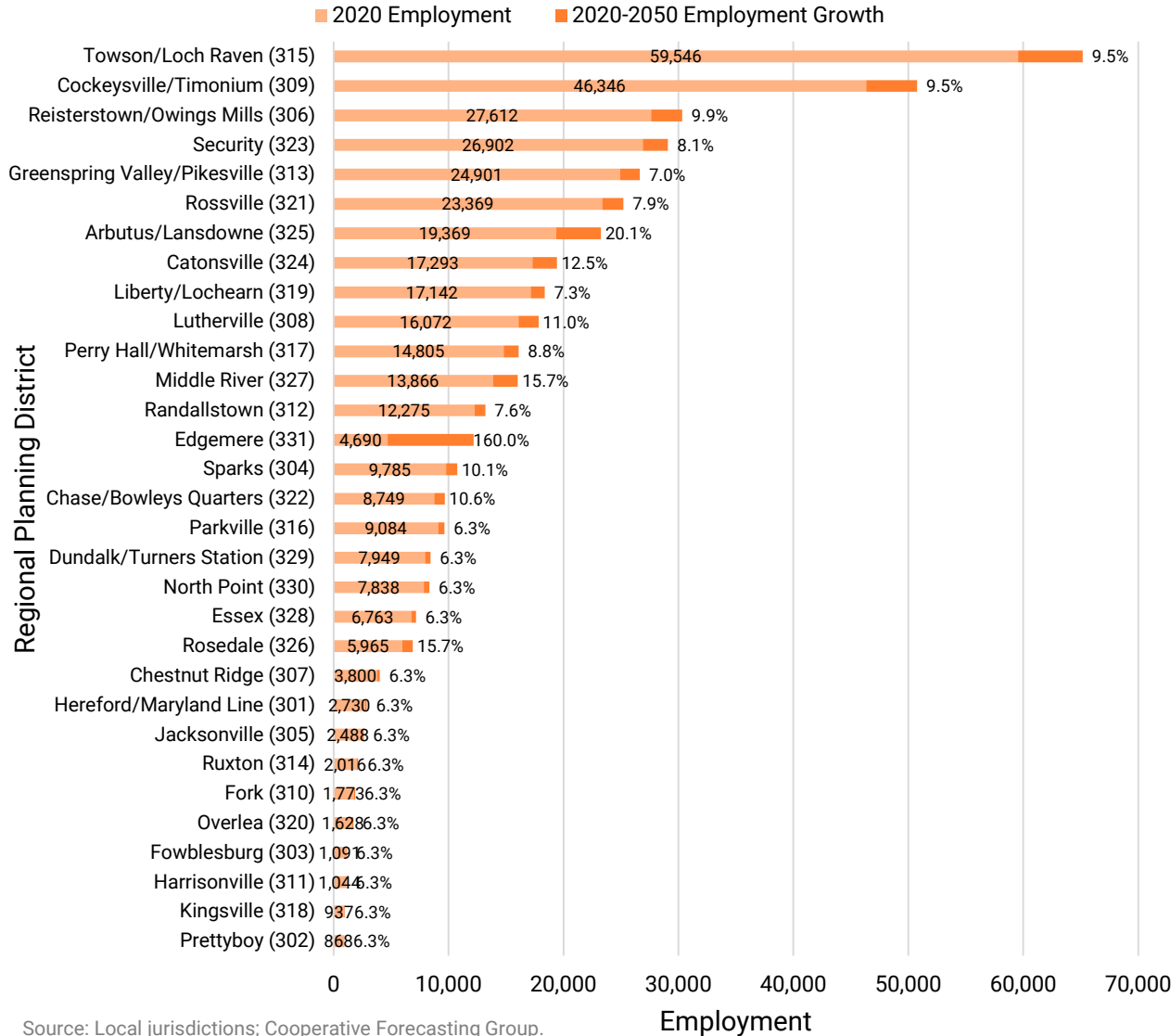
Draft Round 10 Population – Baltimore County RPDs



Source: Local jurisdictions; Cooperative Forecasting Group.

Sources: BMC, TIGER/Line®

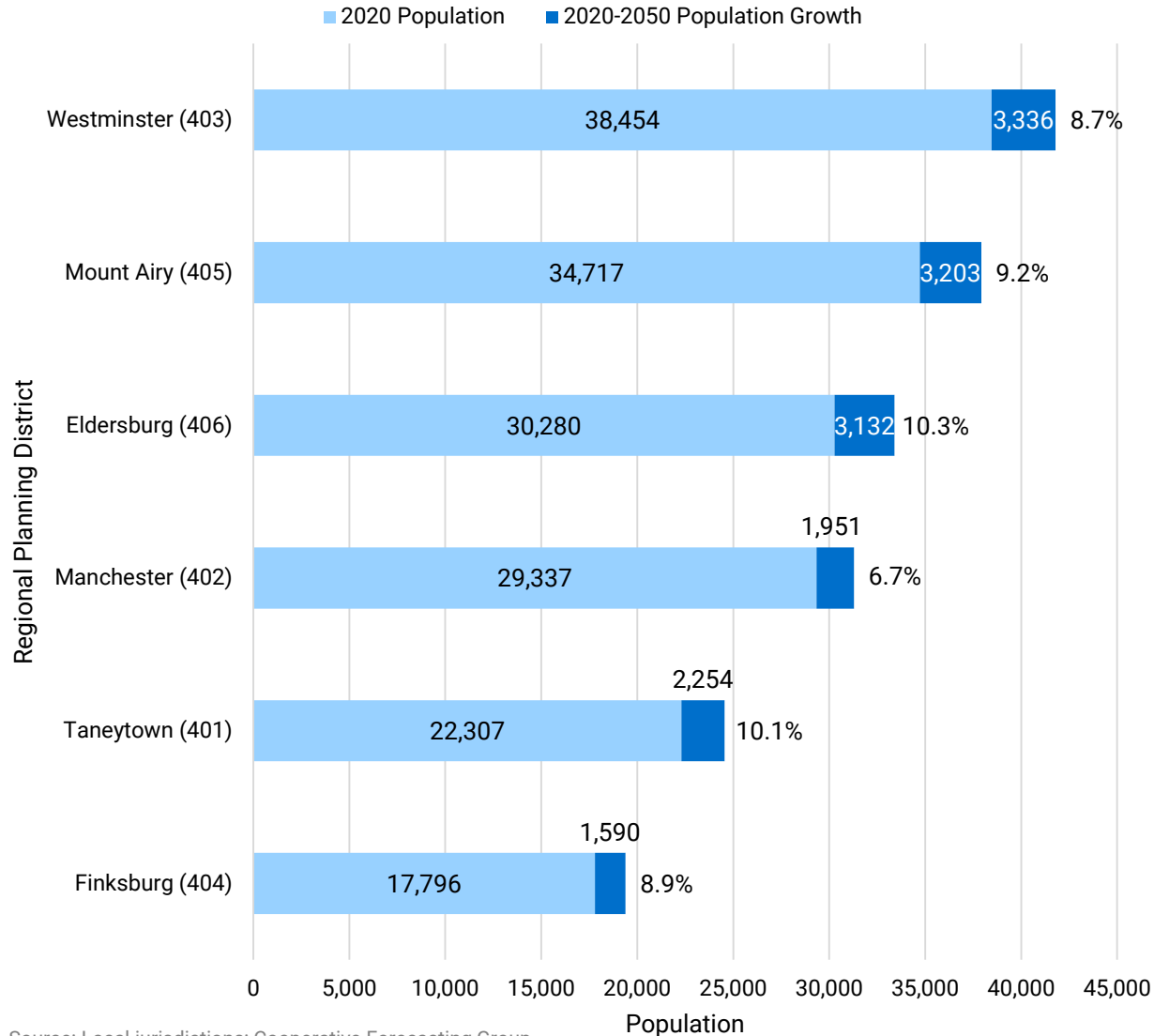
Draft Round 10 Employment – Baltimore County RPDs



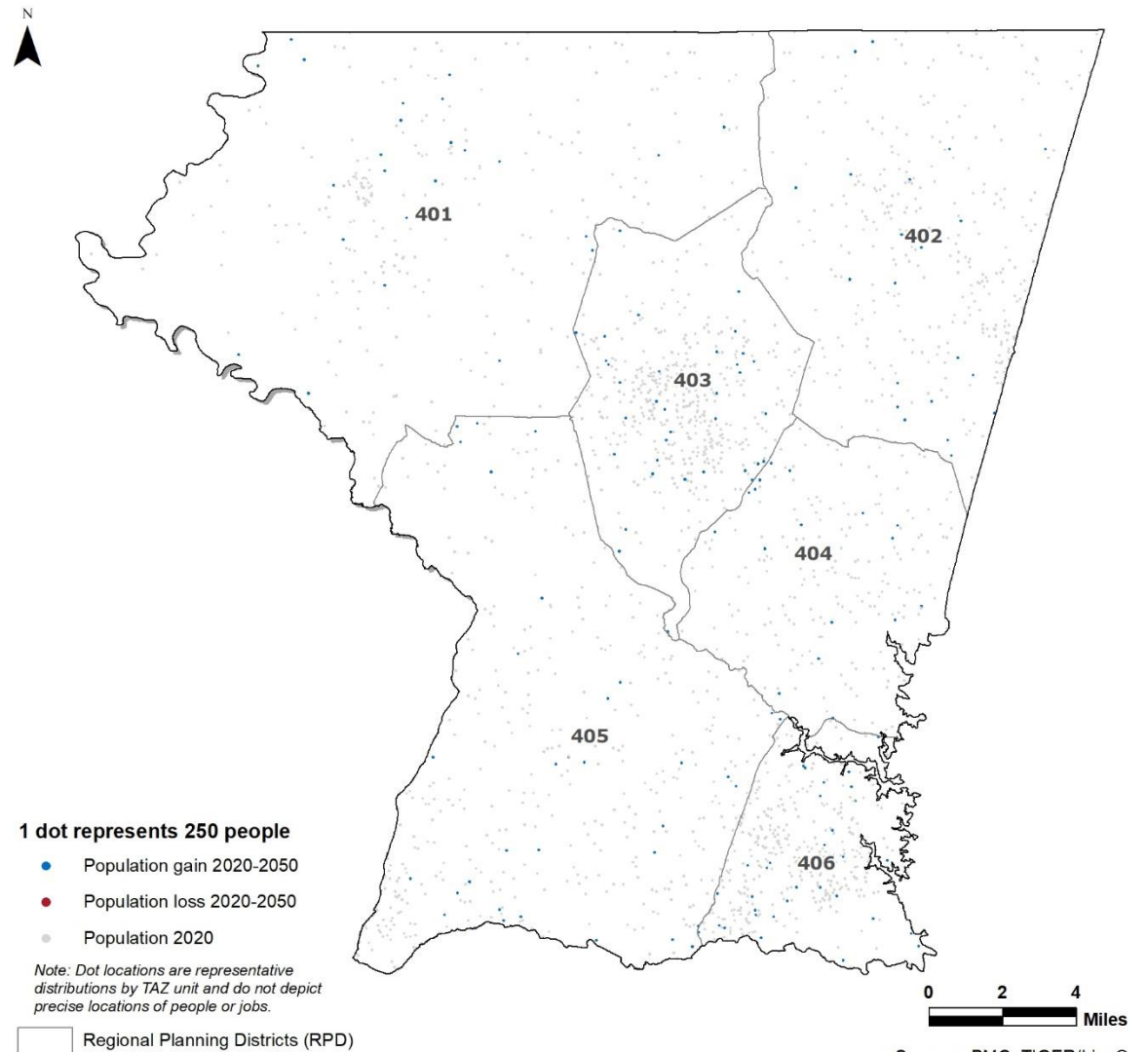
Source: Local jurisdictions; Cooperative Forecasting Group.

CARROLL COUNTY

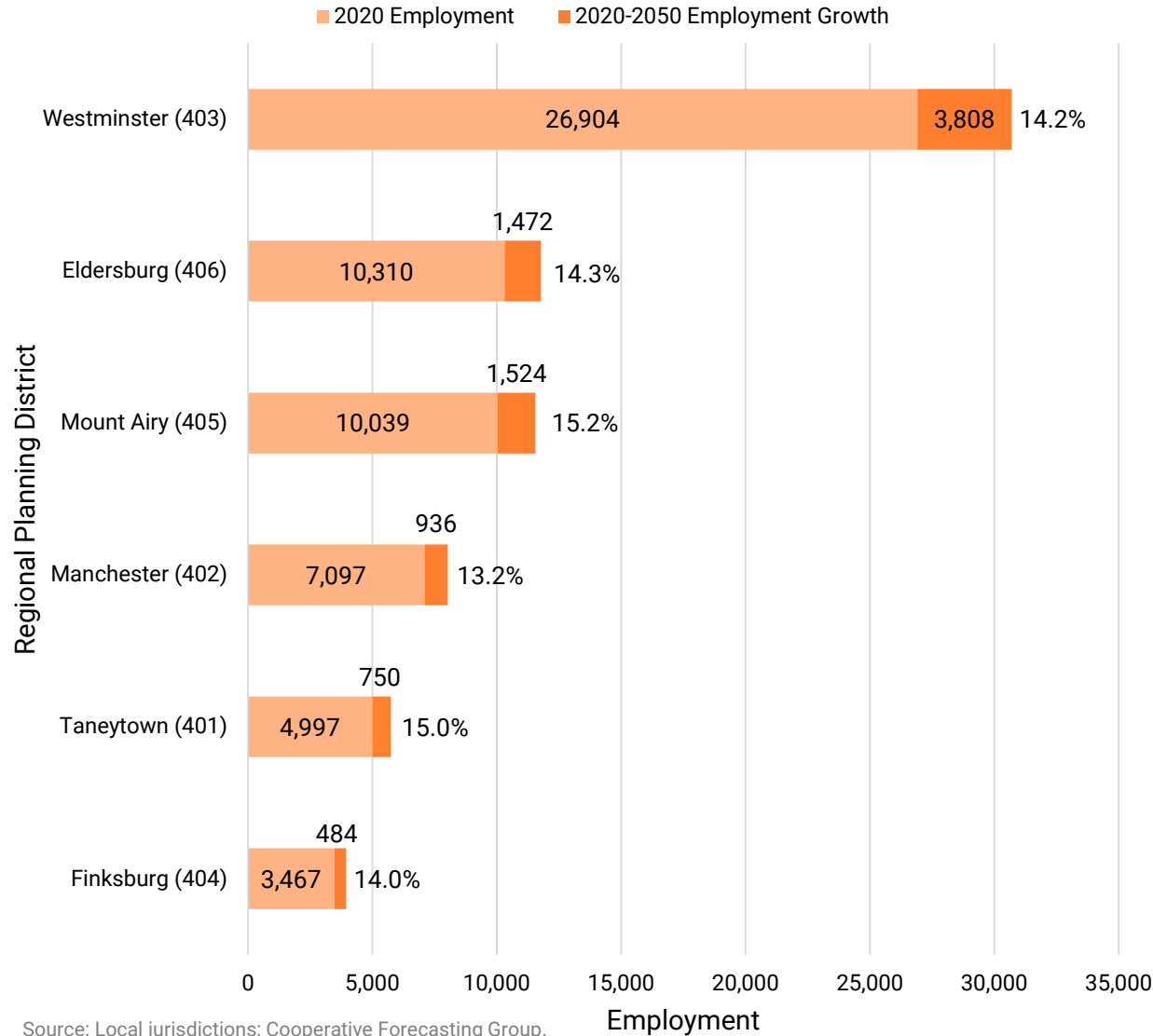
Draft Round 10 Population – Carroll County RPDs



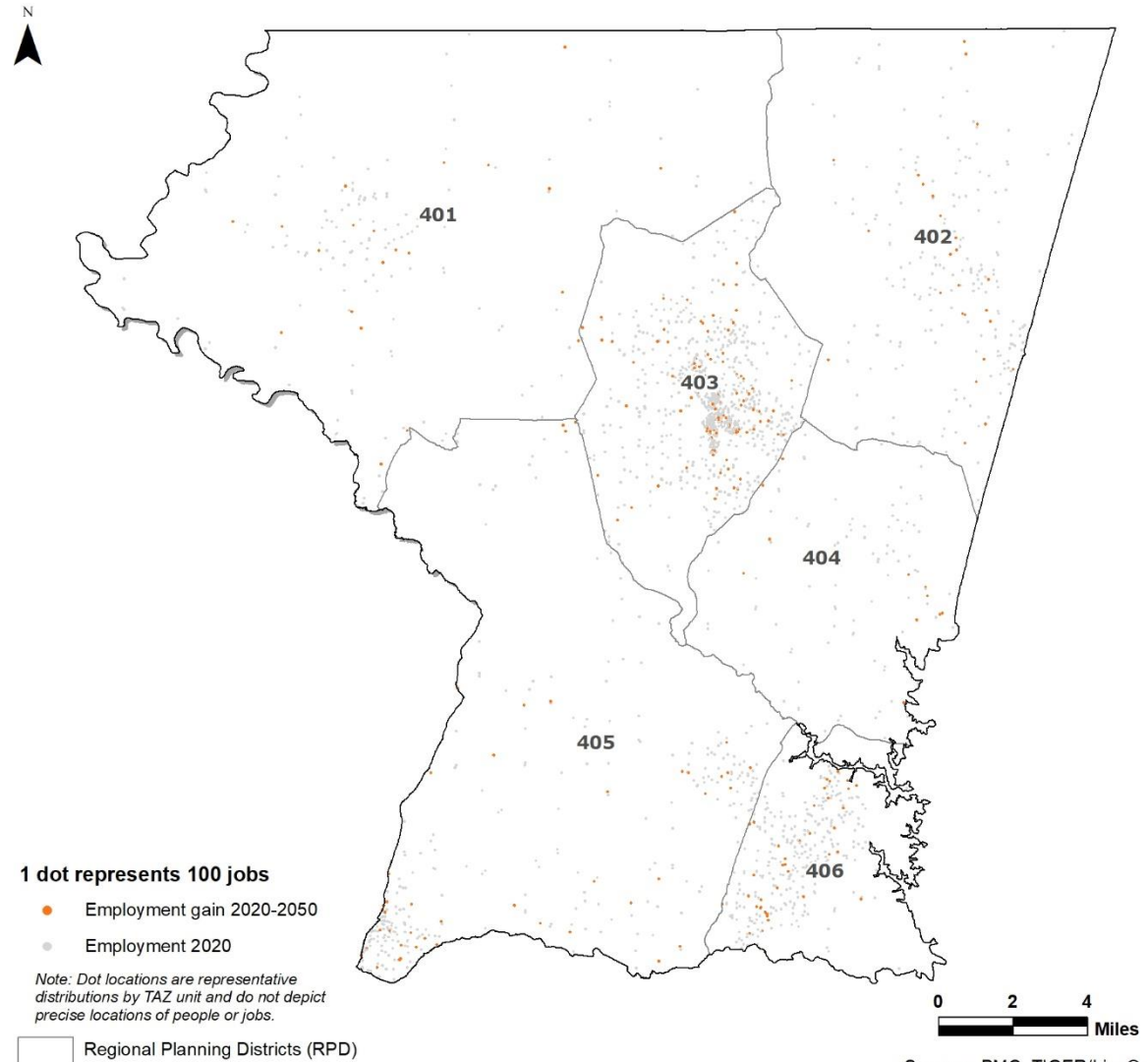
Source: Local jurisdictions; Cooperative Forecasting Group.



Draft Round 10 Employment – Carroll County RPDs



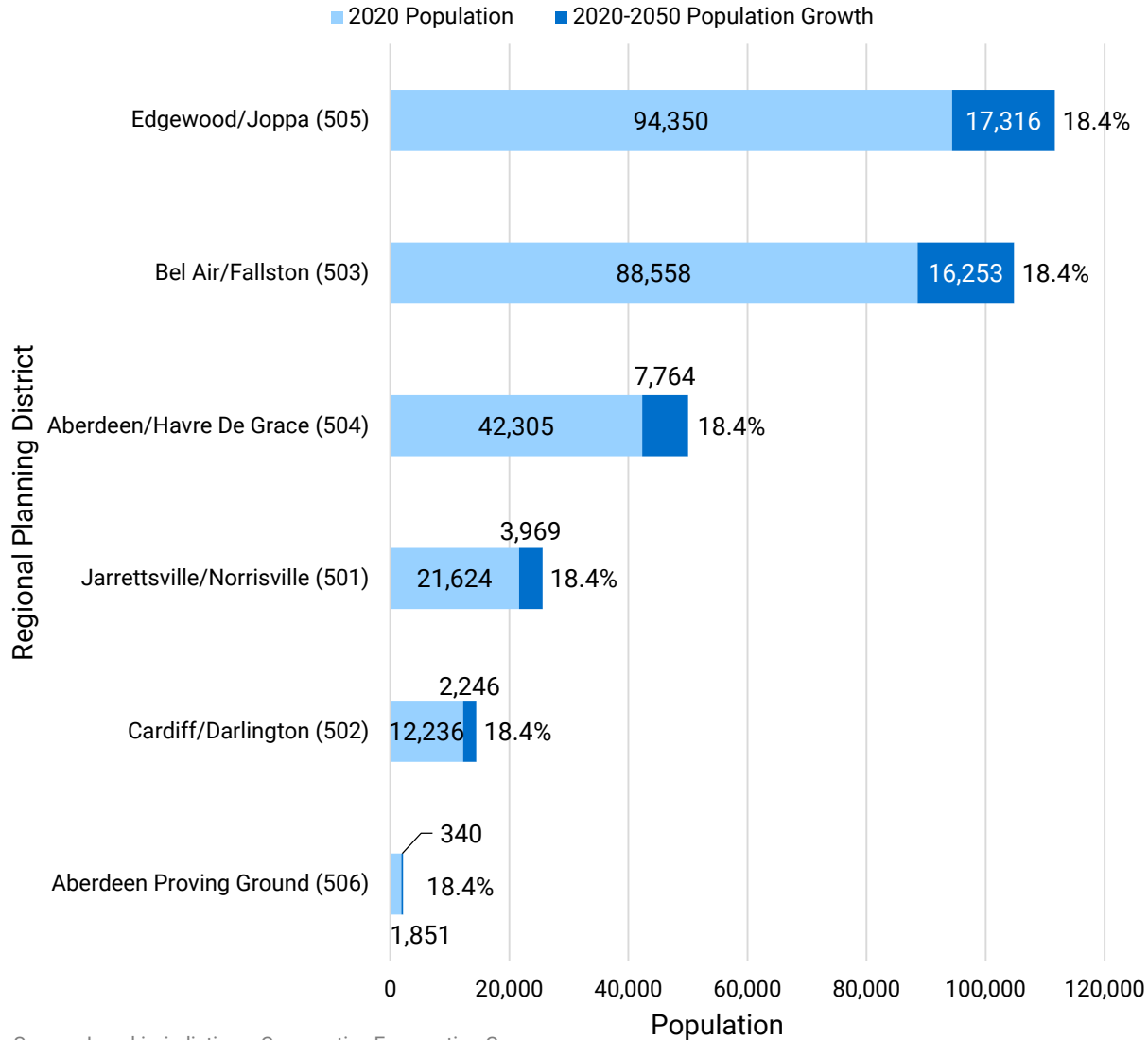
Source: Local jurisdictions; Cooperative Forecasting Group.



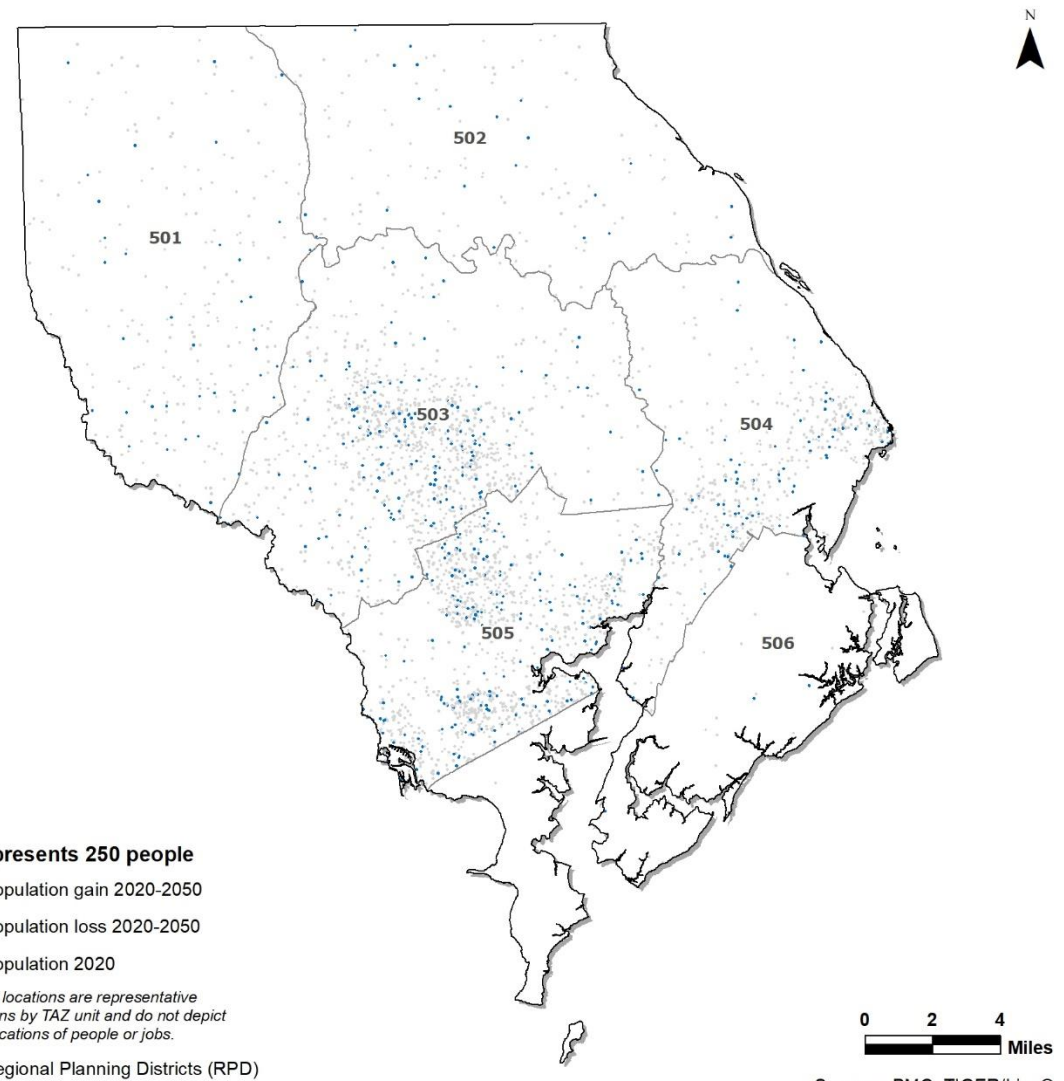
Sources: BMC, TIGER/Line®

HARFORD COUNTY

Draft Round 10 Population – Harford County RPDs

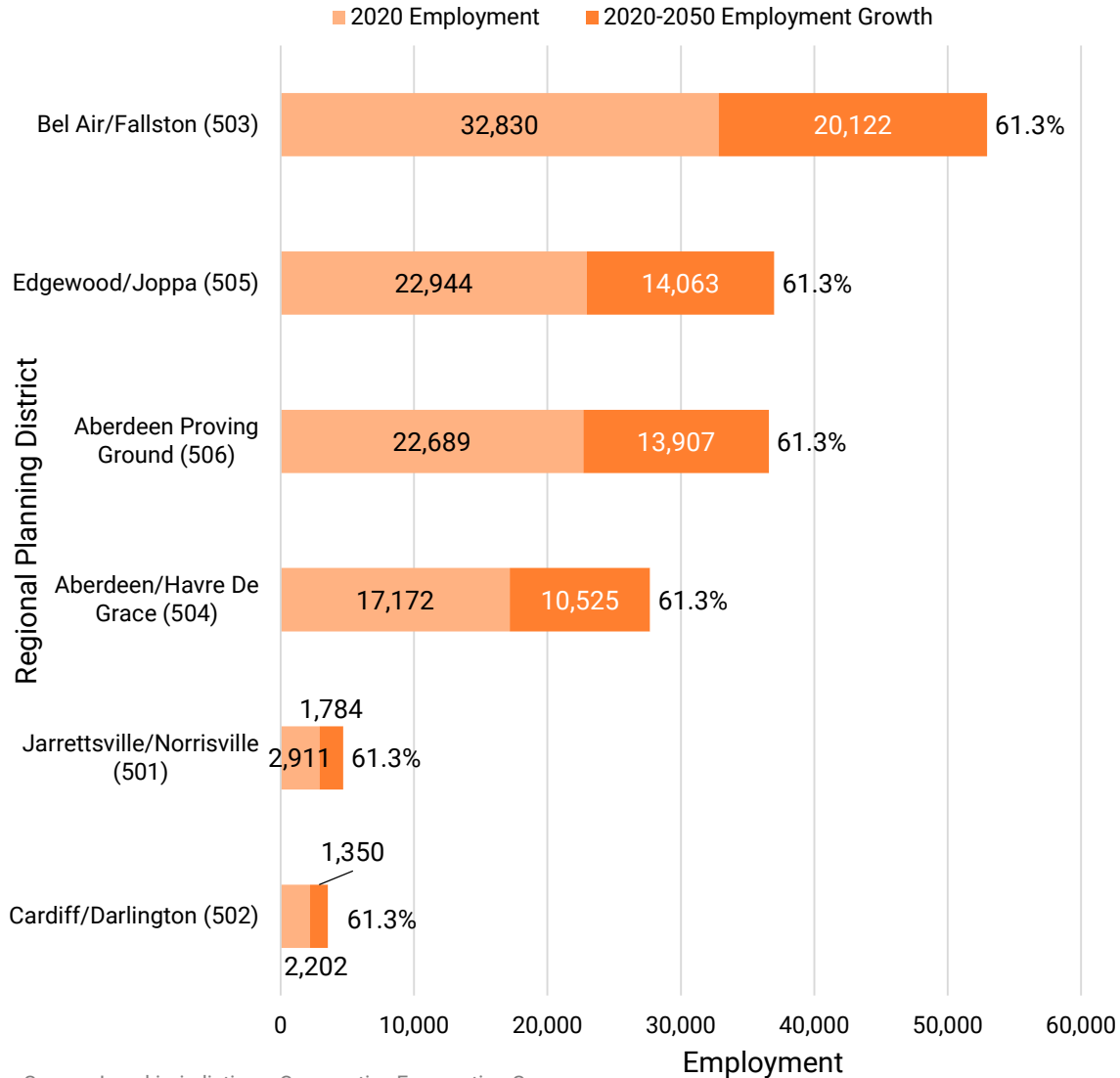


Source: Local jurisdictions; Cooperative Forecasting Group.

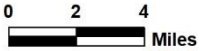
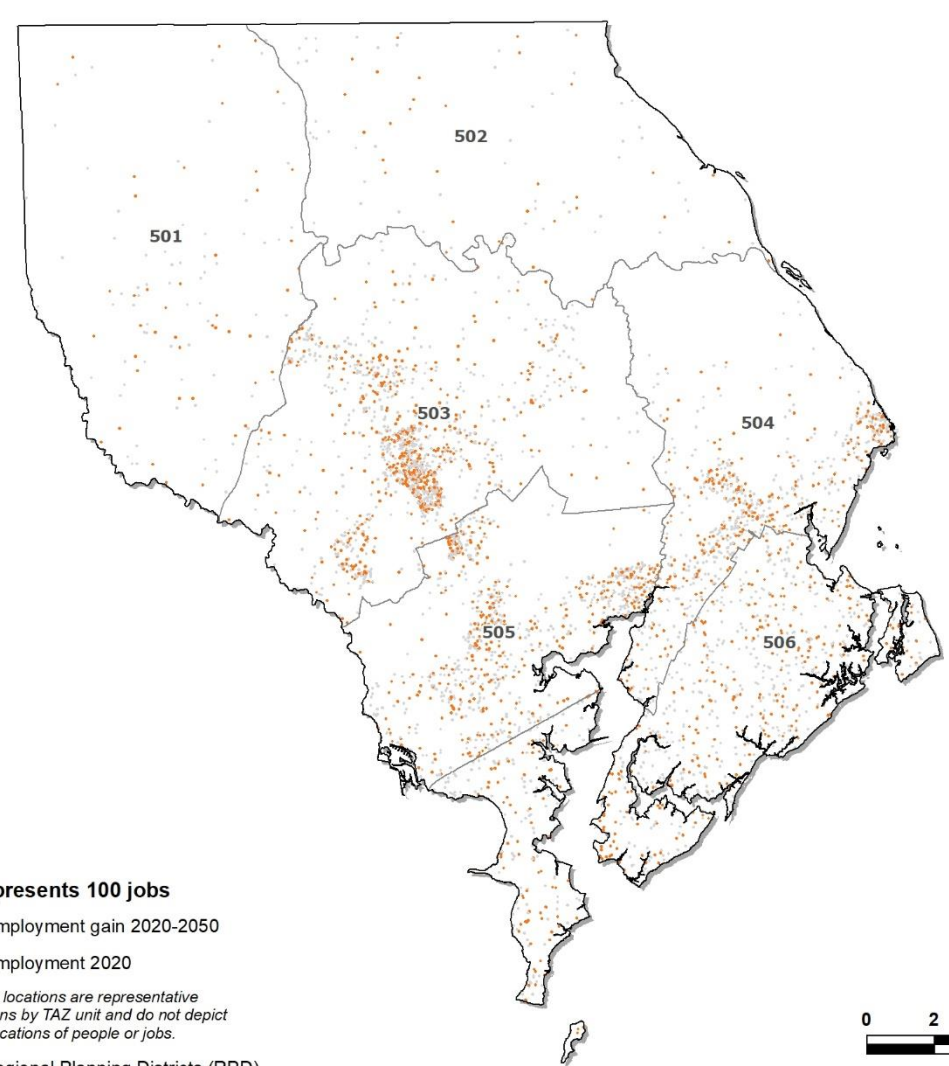


Sources: BMC, TIGER/Line®

Draft Round 10 Employment – Harford County RPDs



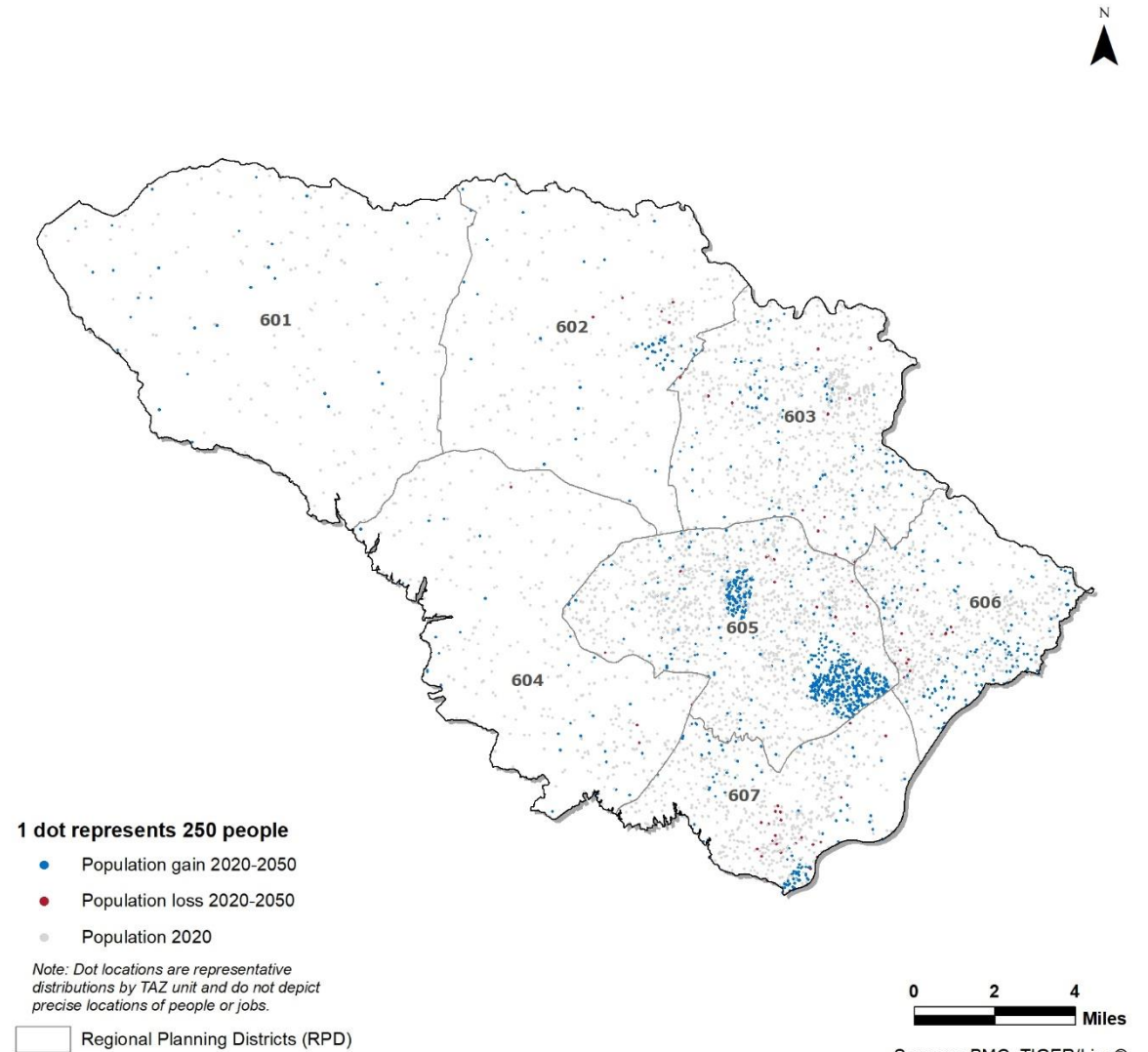
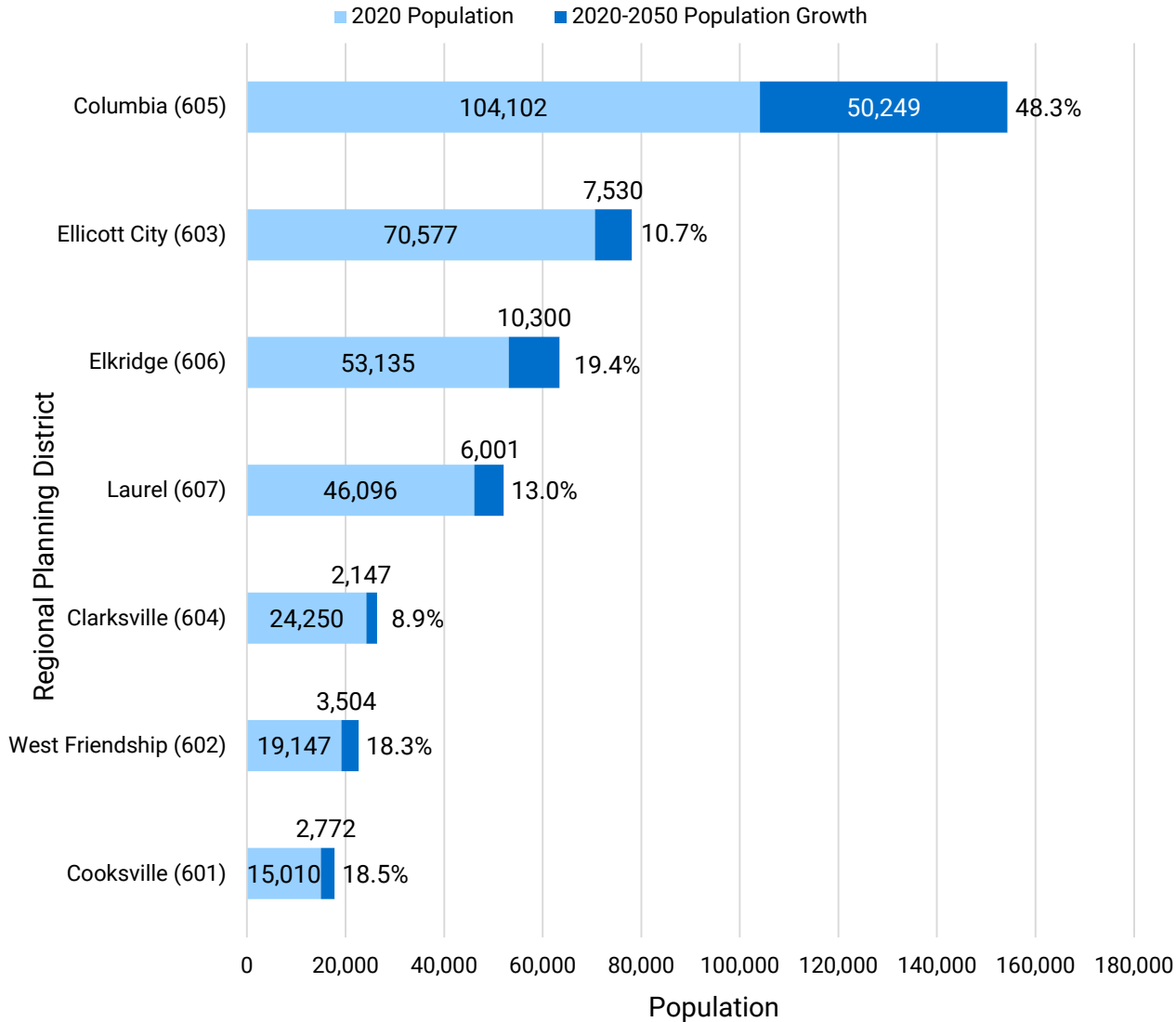
Source: Local jurisdictions; Cooperative Forecasting Group.



Sources: BMC, TIGER/Line®

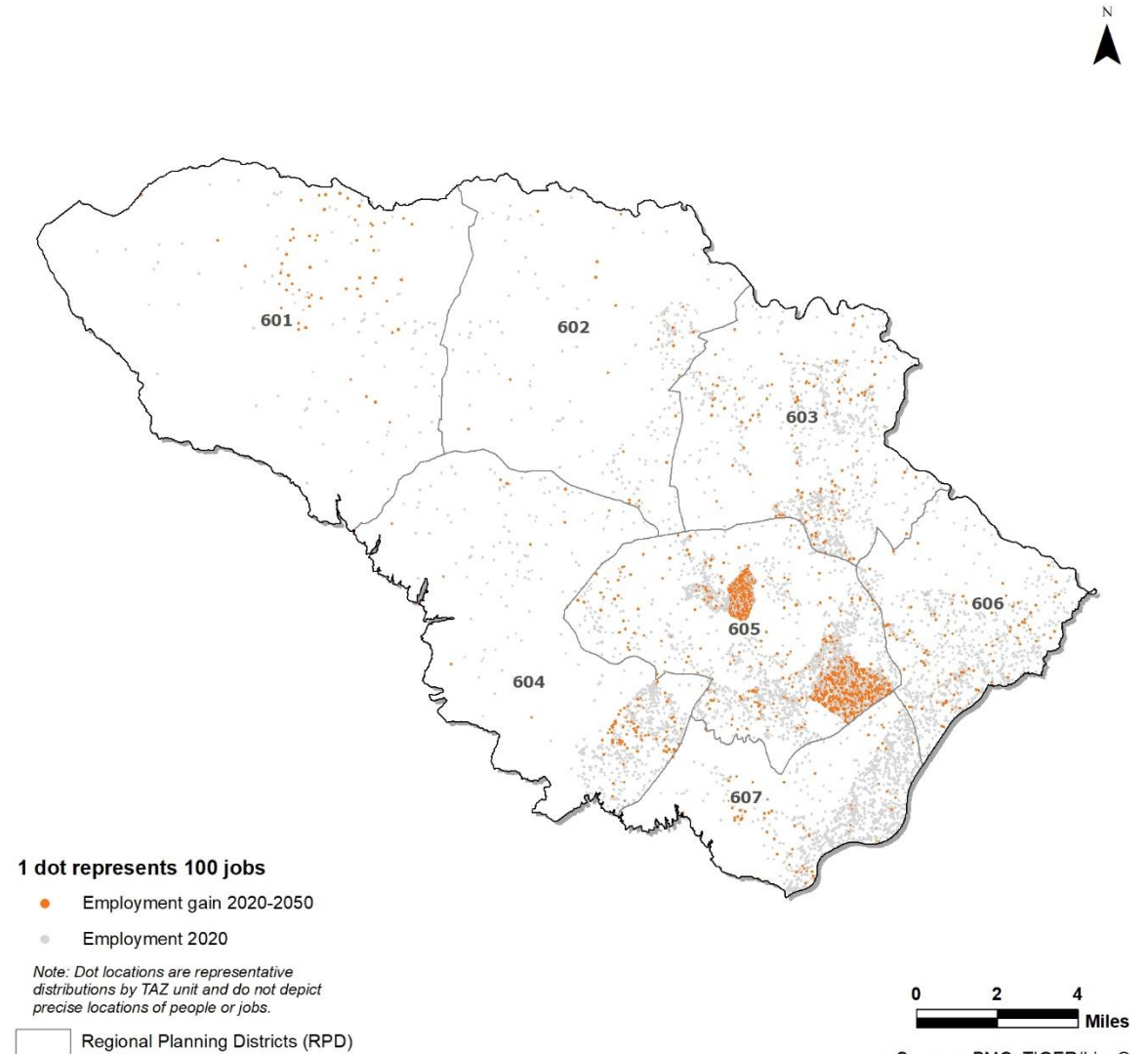
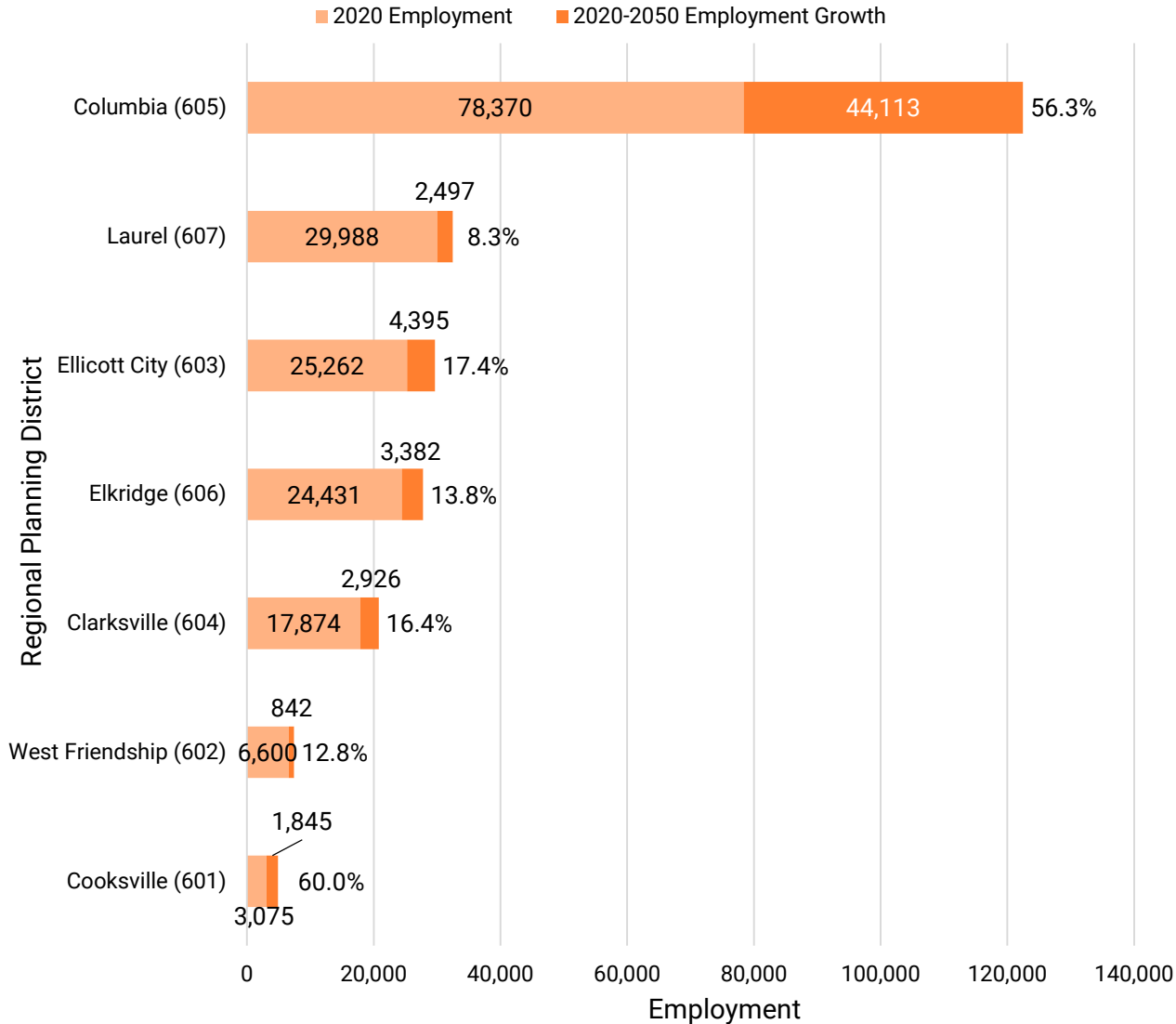
HOWARD COUNTY

Draft Round 10 Population – Howard County RPDs



Source: Local jurisdictions; Cooperative Forecasting Group.

Draft Round 10 Employment – Howard County RPDs

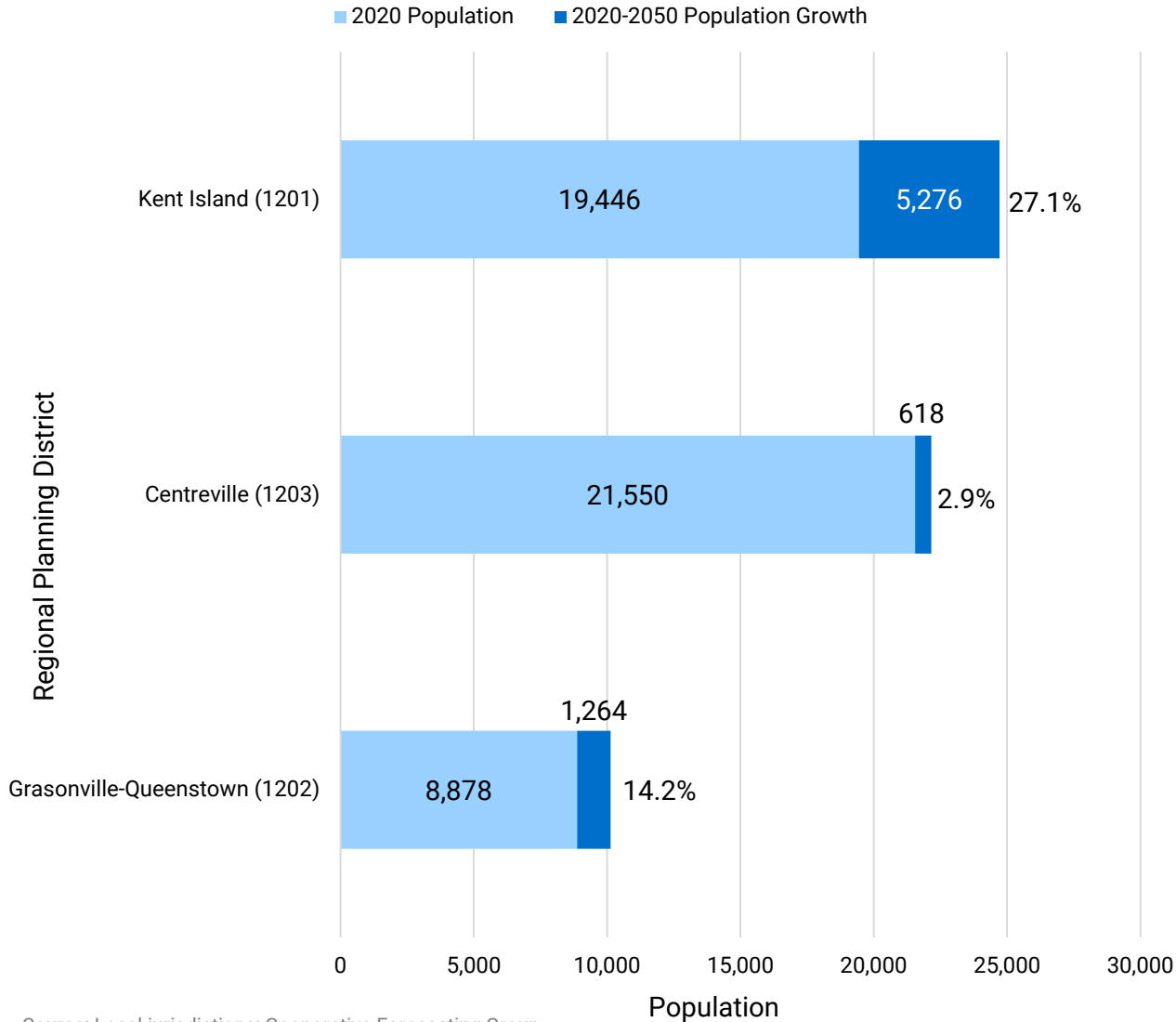


Source: Local jurisdictions; Cooperative Forecasting Group.

Sources: BMC, TIGER/Line®

QUEEN ANNE'S COUNTY

Draft Round 10 Population – Queen Anne’s County RPDs

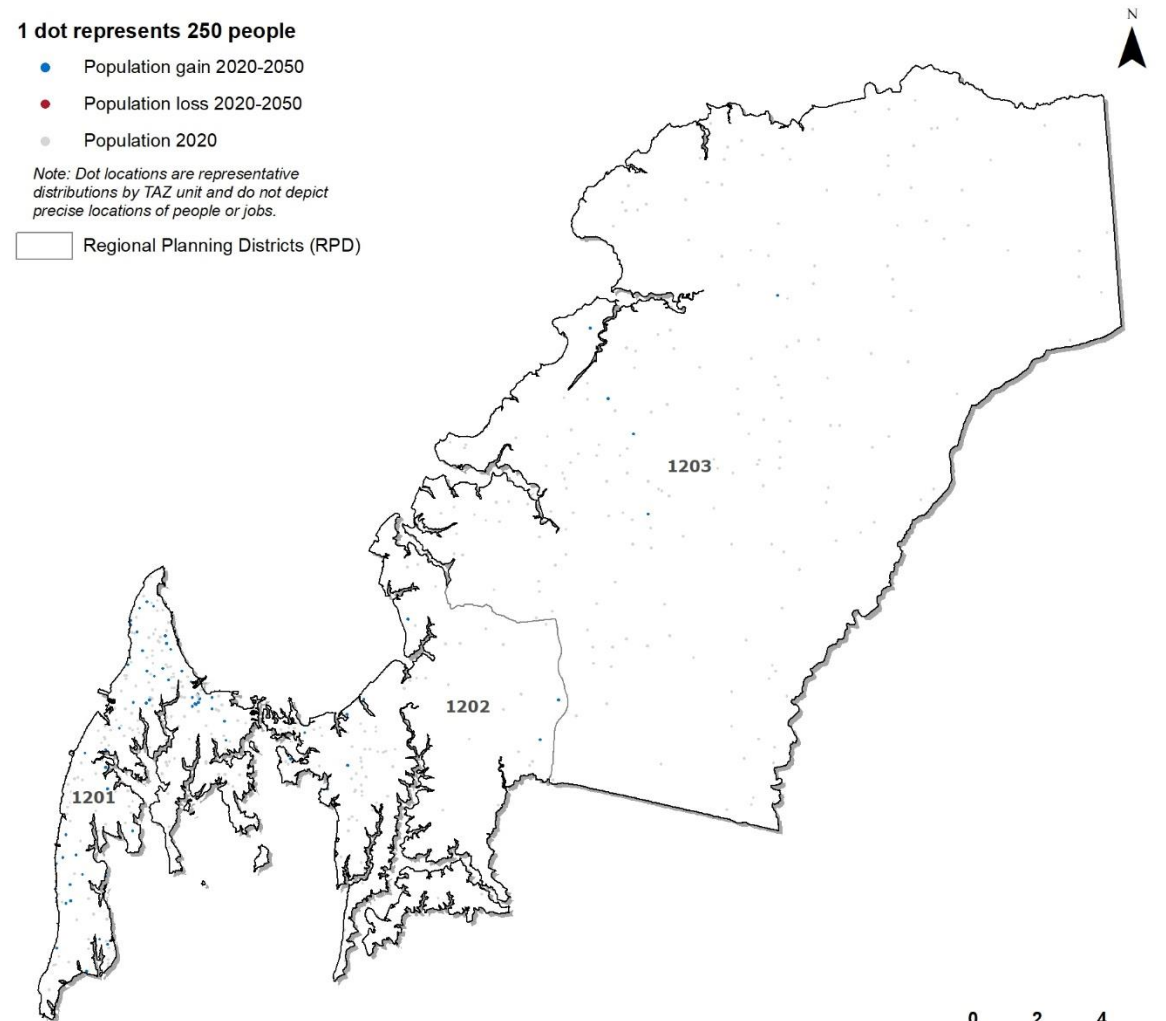


1 dot represents 250 people

- Population gain 2020-2050
- Population loss 2020-2050
- Population 2020

Note: Dot locations are representative distributions by TAZ unit and do not depict precise locations of people or jobs.

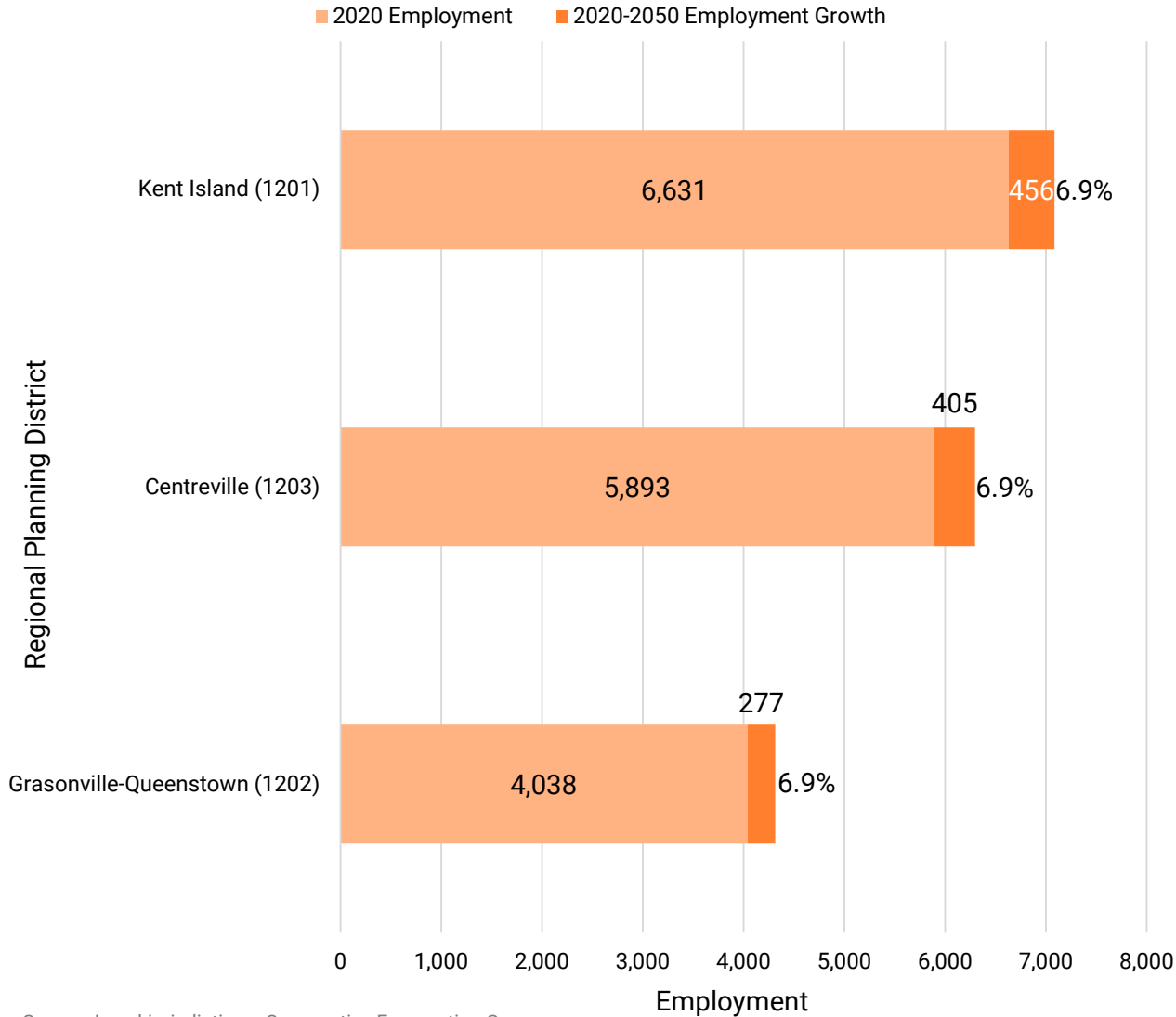
Regional Planning Districts (RPD)



Sources: BMC, TIGER/Line®

Source: Local jurisdictions; Cooperative Forecasting Group.

Draft Round 10 Employment – Queen Anne’s County RPDs

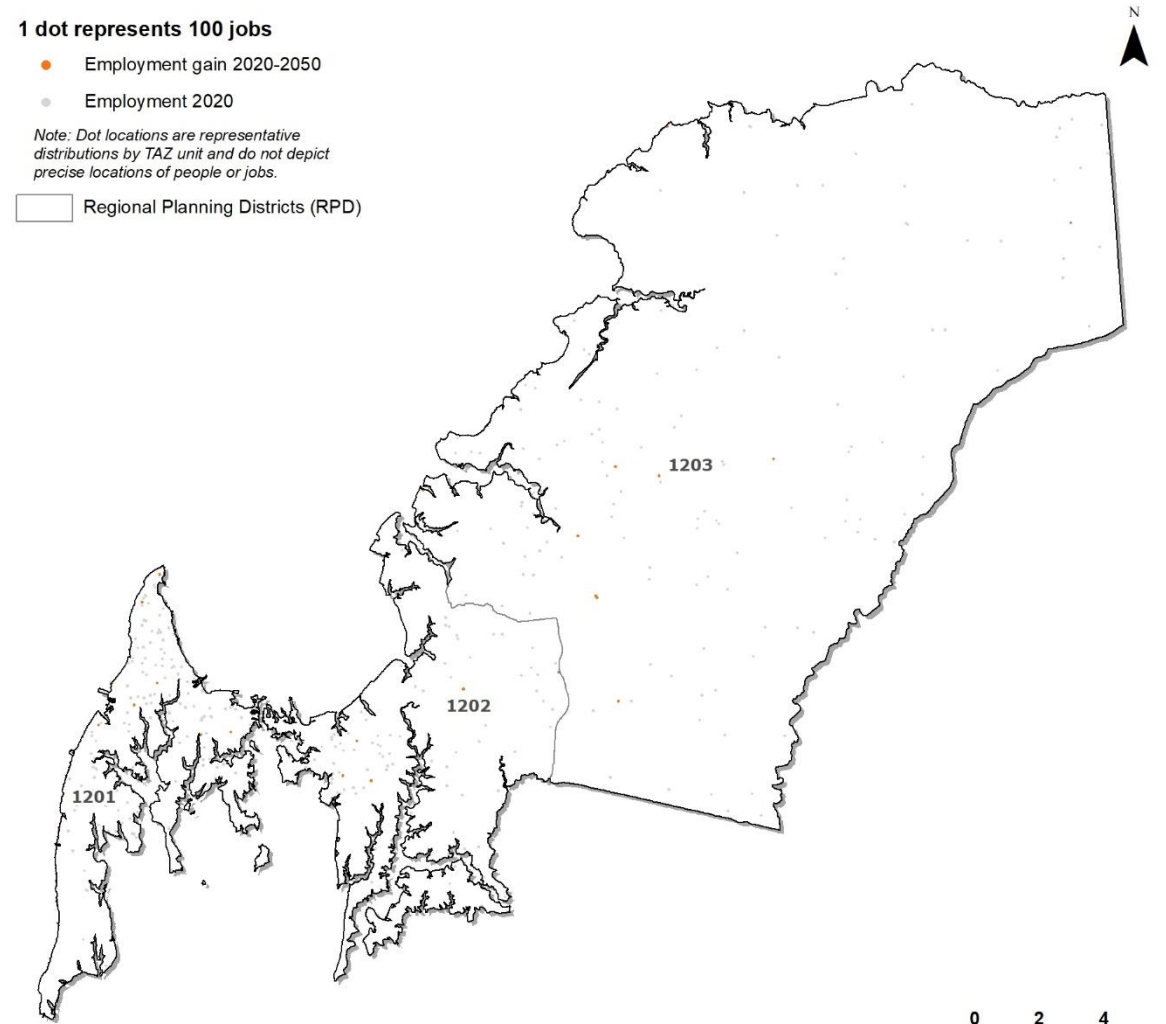


1 dot represents 100 jobs

- Employment gain 2020-2050
- Employment 2020

Note: Dot locations are representative distributions by TAZ unit and do not depict precise locations of people or jobs.

Regional Planning Districts (RPD)



0 2 4 Miles

Sources: BMC, TIGER/Line®

Source: Local jurisdictions; Cooperative Forecasting Group.