Baltimore Regional Transportation Board

Draft Round 10 Summary

Technical Committee

July 6, 2022

BMC

Cooperative Forecasting Process

Round 10 – Cooperative Forecasting Group

- Who develops the forecasts?
  - What is the Cooperative Forecasting Group?
- What are the forecasts used for?
- “Bottom-up” Approach

Dates of Historical Forecast Rounds

Round	Date	Round	Date
Round 1	March 1980	Round 6B	August 2005
Round 2	February 1983	Round 6C	October 2006
Round 3	September 1986	Round 7	February 2007
Round 3A	December 1988	Round 7A	August 2008
Round 4	September 1991	Round 7B	July 2009
Round 5	September 1994	Round 7C	July 2010
Round 5A	October 1997	Round 8	August 2013
Round 5B	December 2000	Round 8A	June 2014
Round 5C	May 2001	Round 8B	August 2016
Round 5D	August 2002	Round 9	June 2018
Round 6	December 2003	Round 9A	July 2020
Round 6A	December 2004	Round 10	July 2022?

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

Round 10 – Process

- 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

Draft Round 10 Overview

Draft Round 10 Cooperative Forecasts - Summary

DRAFT - Round 10 Population

JURISDICTION	2020	2025	2030	2035	2040	2045	2050	CHANGE 2020-2030	CHANGE 2030-2040	CHANGE 2040-2050	CHANGE 2020-2050	PERCENT CHANGE 2020-2030	PERCENT CHANGE 2030-2040	PERCENT CHANGE 2040-2050	PERCENT CHANGE 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 2020-2030	CHANGE 2030-2040	CHANGE 2040-2050	CHANGE 2020-2050	PERCENT CHANGE 2020-2030	PERCENT CHANGE 2030-2040	PERCENT CHANGE 2040-2050	PERCENT CHANGE 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 2020-2030	CHANGE 2030-2040	CHANGE 2040-2050	CHANGE 2020-2050	PERCENT CHANGE 2020-2030	PERCENT CHANGE 2030-2040	PERCENT CHANGE 2040-2050	PERCENT CHANGE 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%

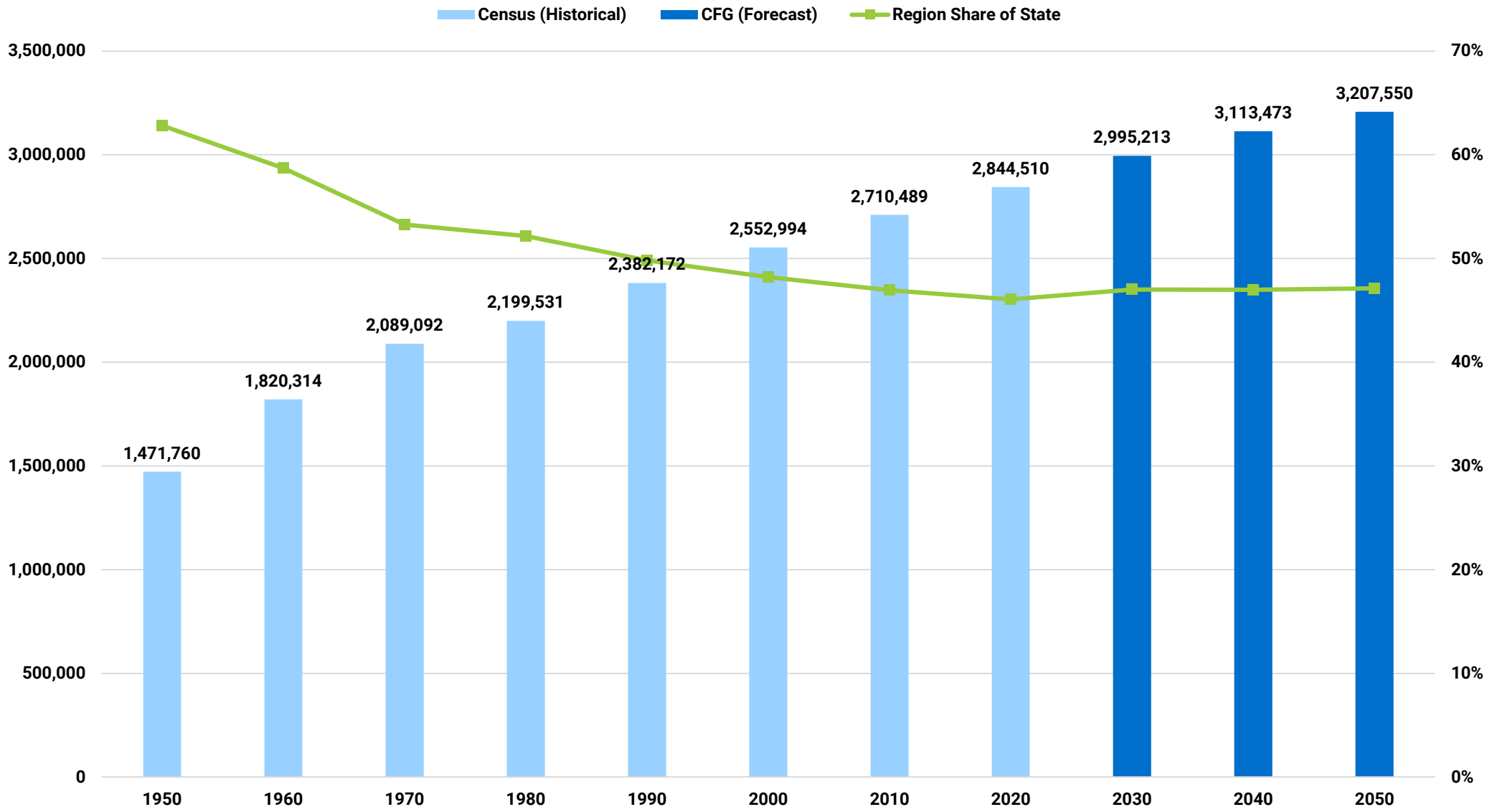
Note: Anne Arundel County data includes the City of Annapolis.

Source: Local jurisdictions; Cooperative Forecasting Group.

BMC

BRTB

Baltimore Region Population: Historical Trend and Draft R10 Forecast

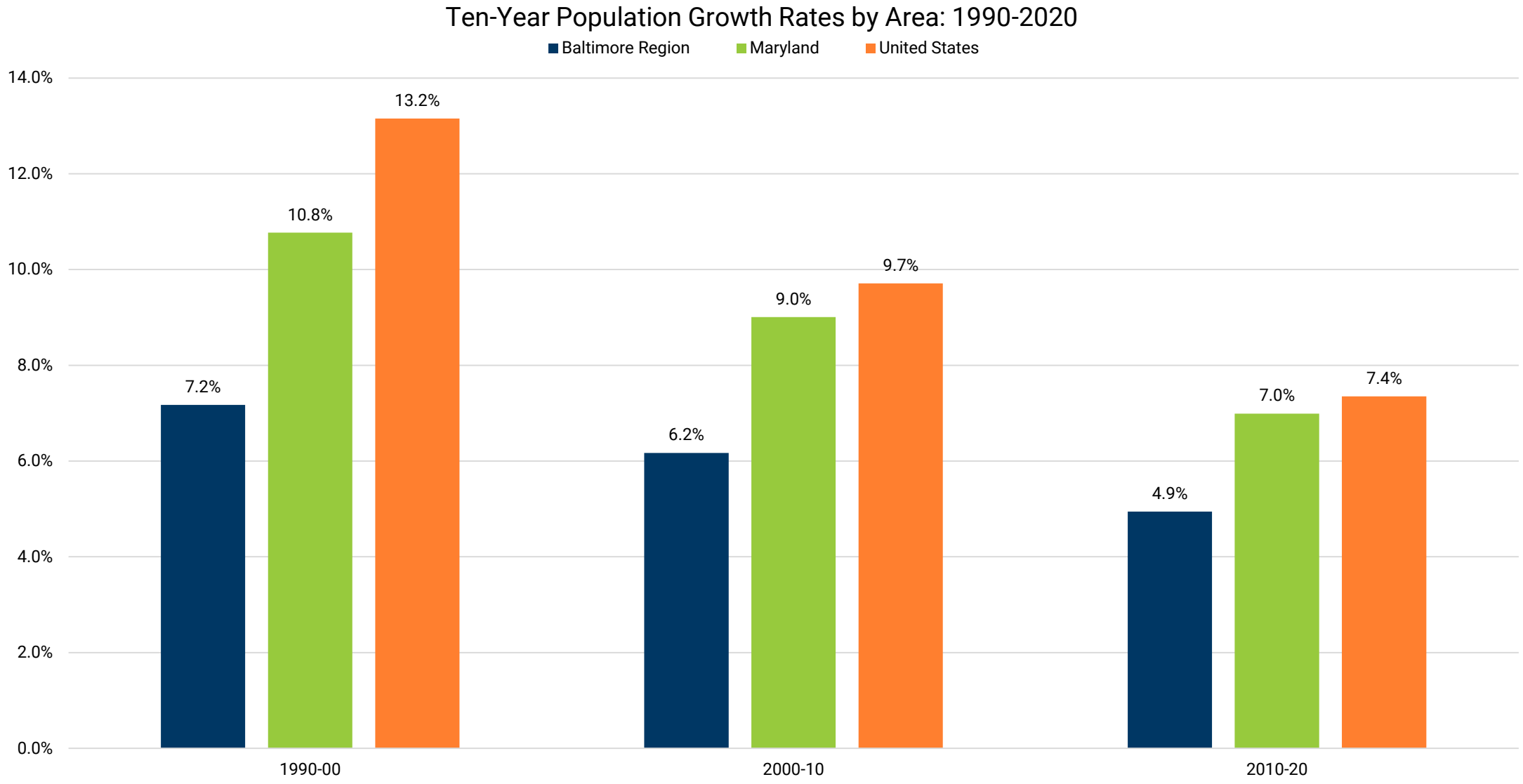


Source: U.S. Census Bureau; Cooperative Forecasting Group (Draft Round 10, April 2022); IHS Markit; Baltimore Metropolitan Council.

BMC

BRTB

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



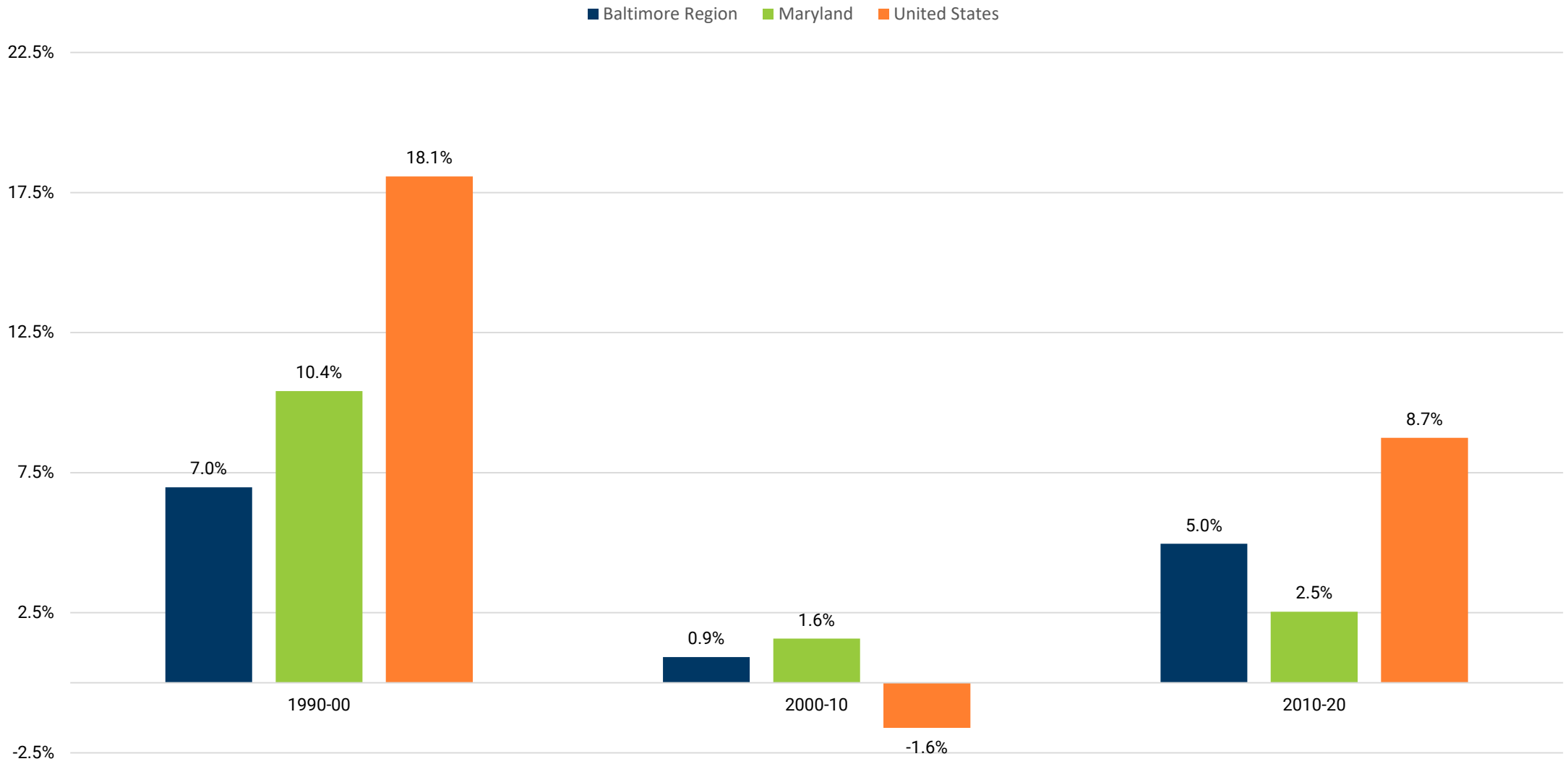
Source: U.S. Census Bureau; IPUMS NHGIS, University of Minnesota, www.nhgis.org.

BMC

BRTB

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

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

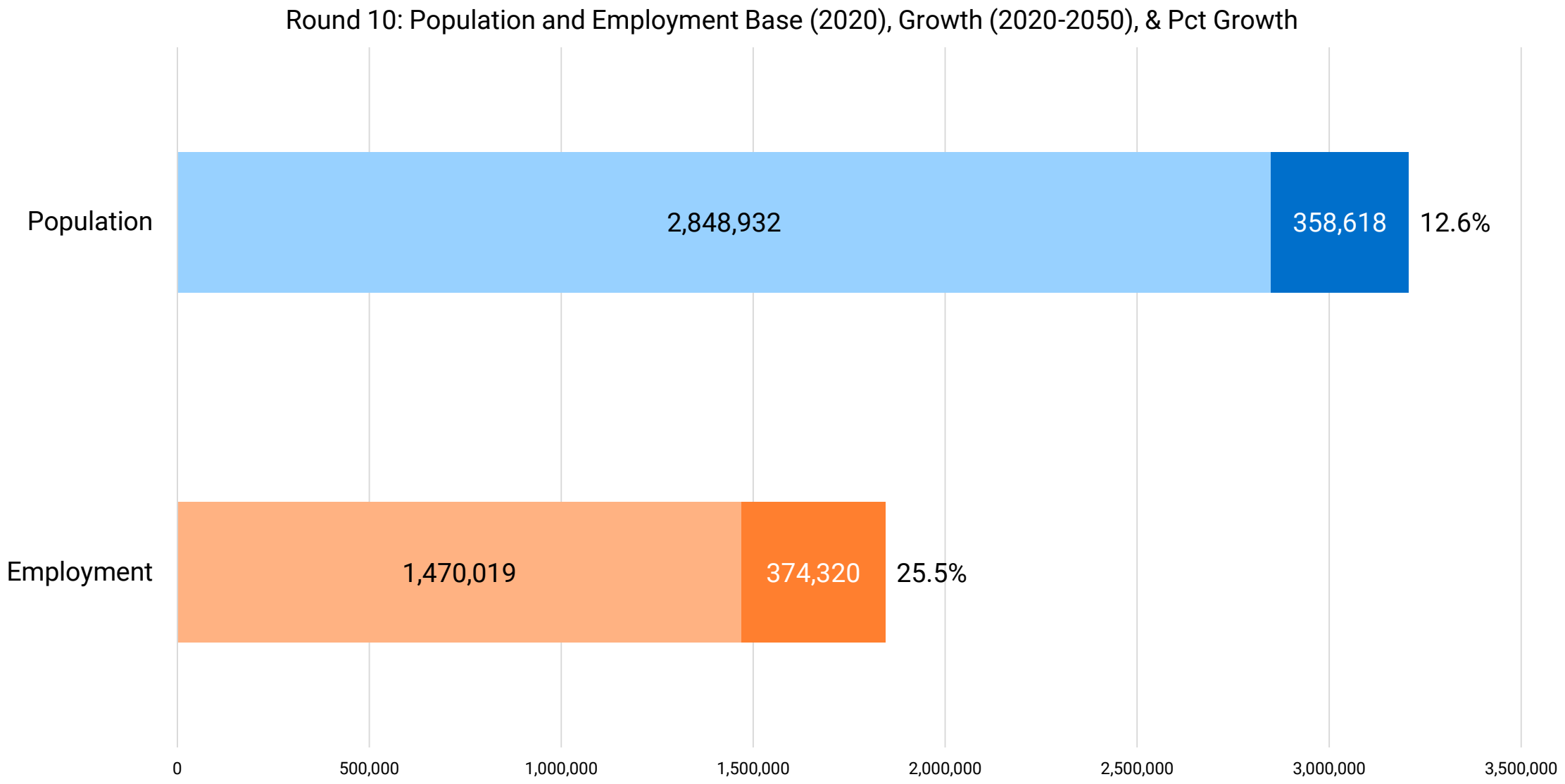


Source: Bureau of Economic Analysis, Wage and Salary Employment (CAEMP25N Full-Time and Part-Time Employment).

BMC

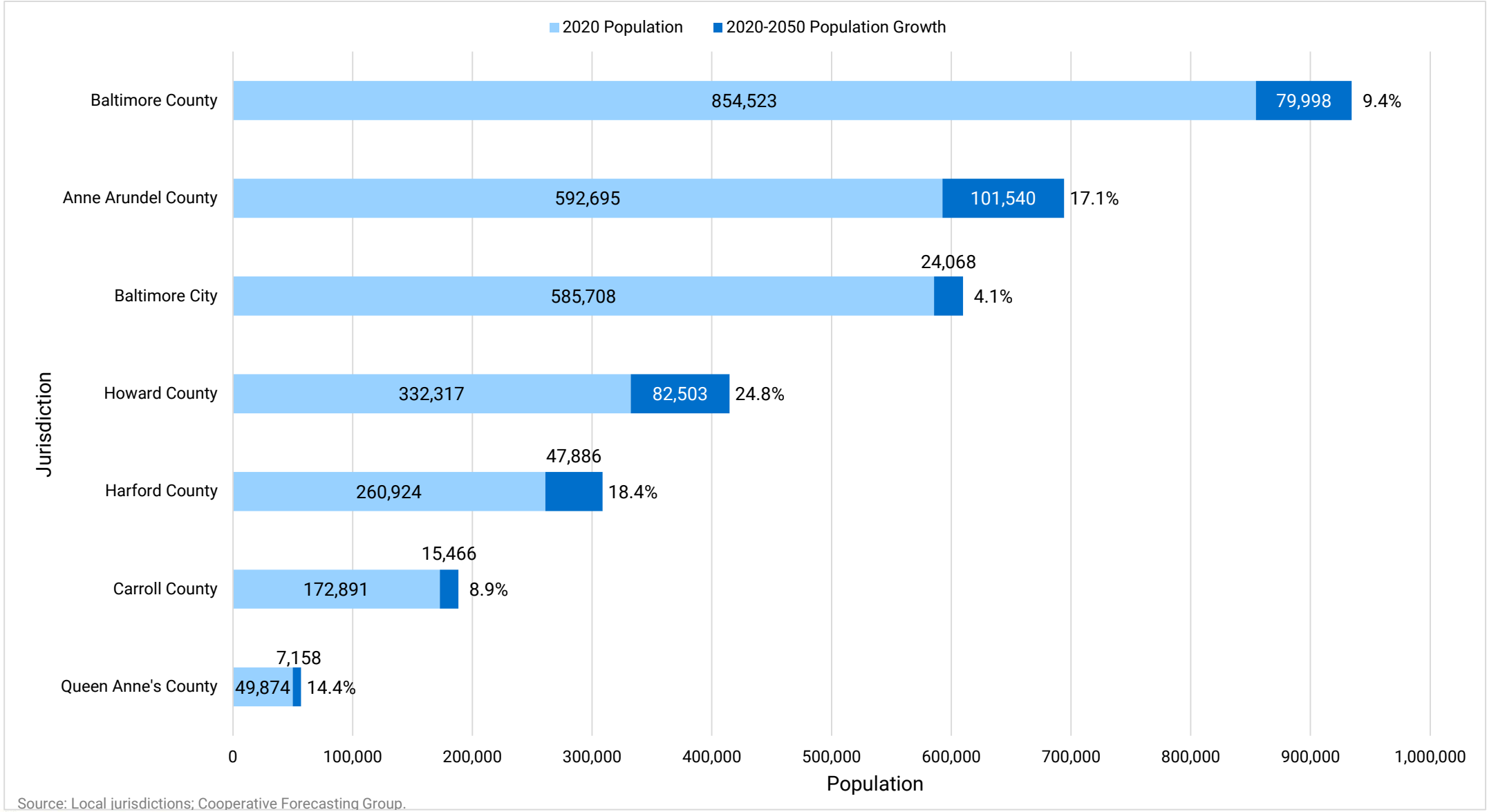
BRTB

Draft Round 10 Cooperative Forecasts – Baltimore Region



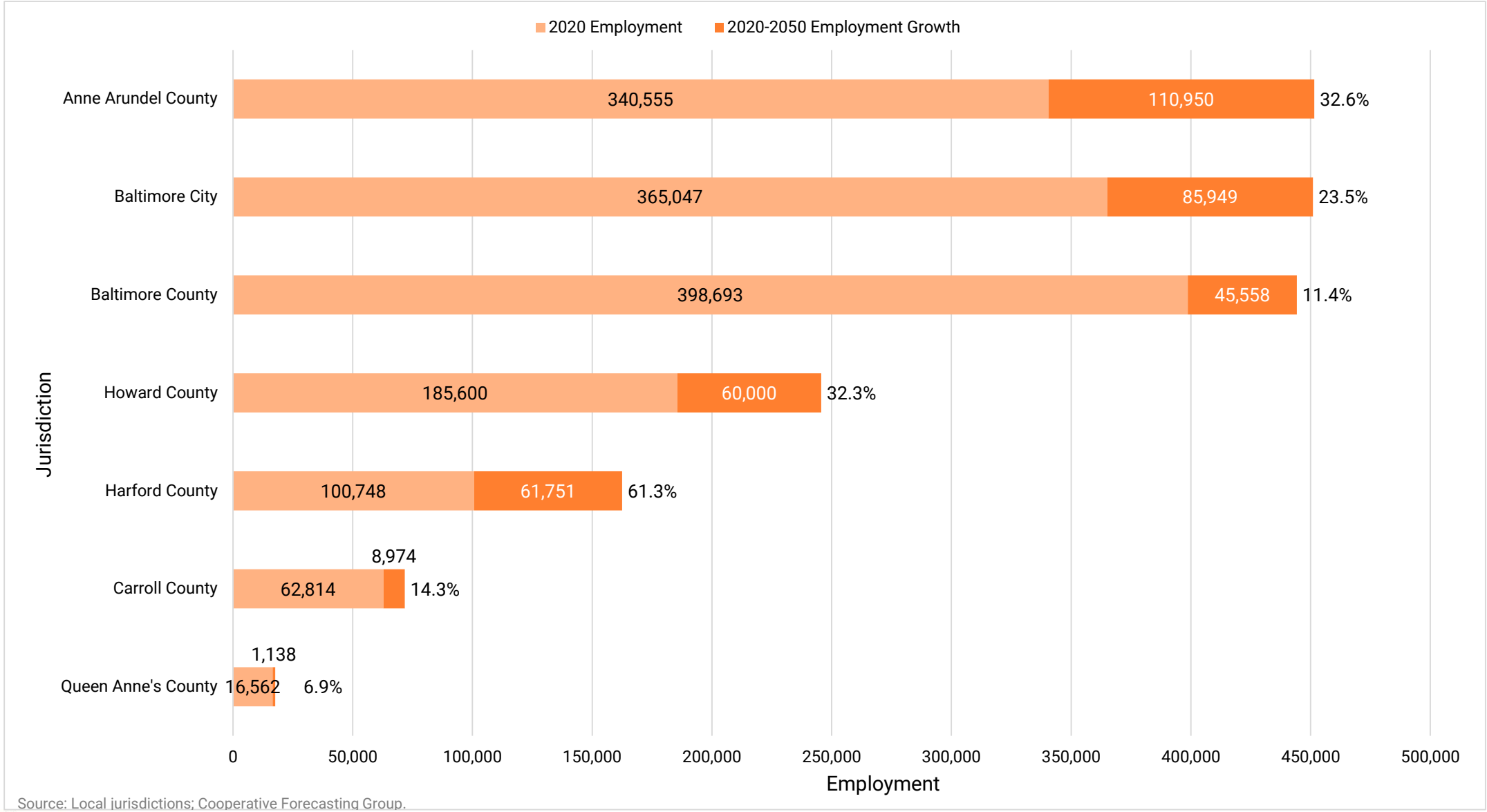
Source: Local jurisdictions; Cooperative Forecasting Group.

Draft Round 10 Cooperative Forecasts – Population



Source: Local jurisdictions; Cooperative Forecasting Group.

Draft Round 10 Cooperative Forecasts – Employment

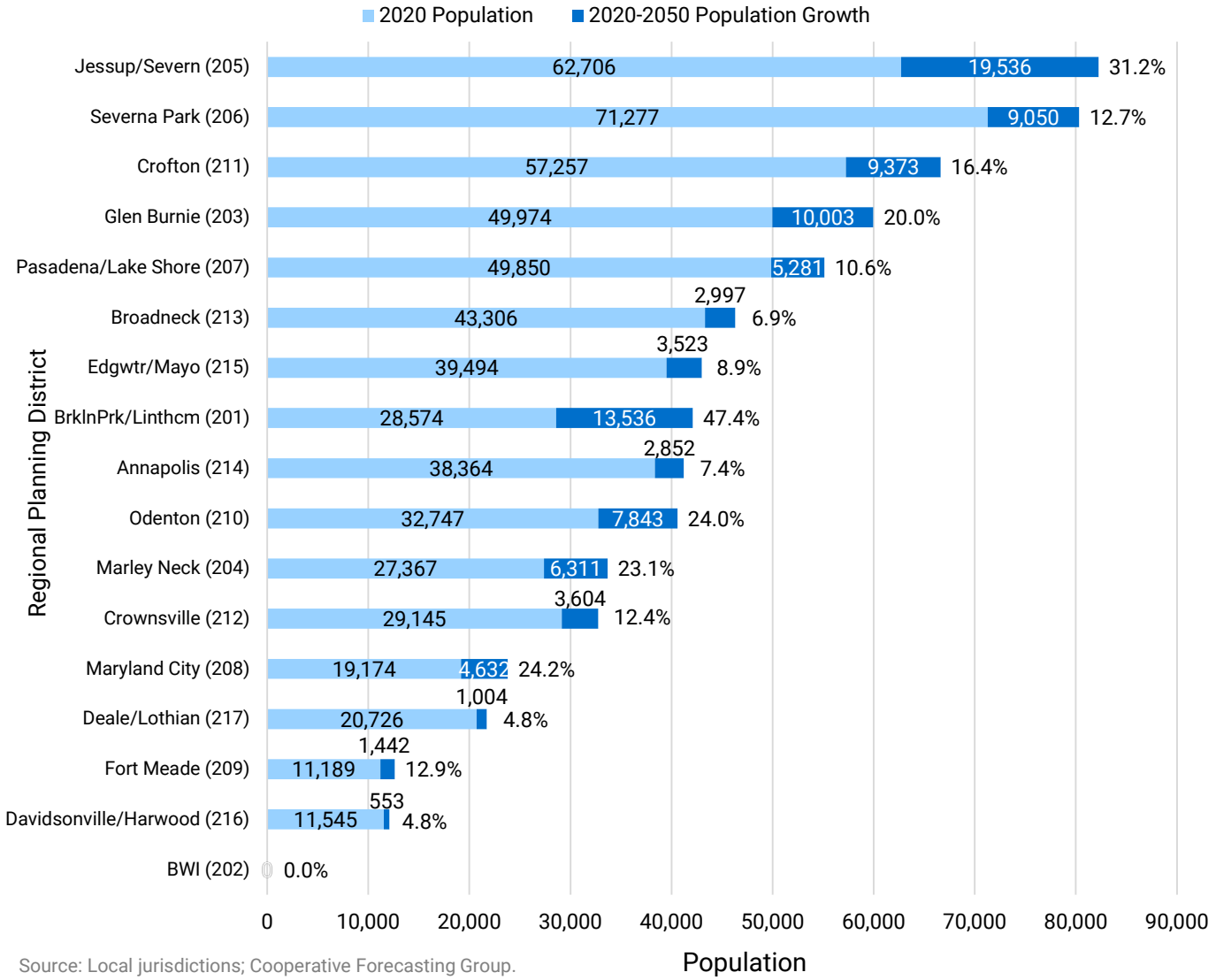


Source: Local jurisdictions; Cooperative Forecasting Group.

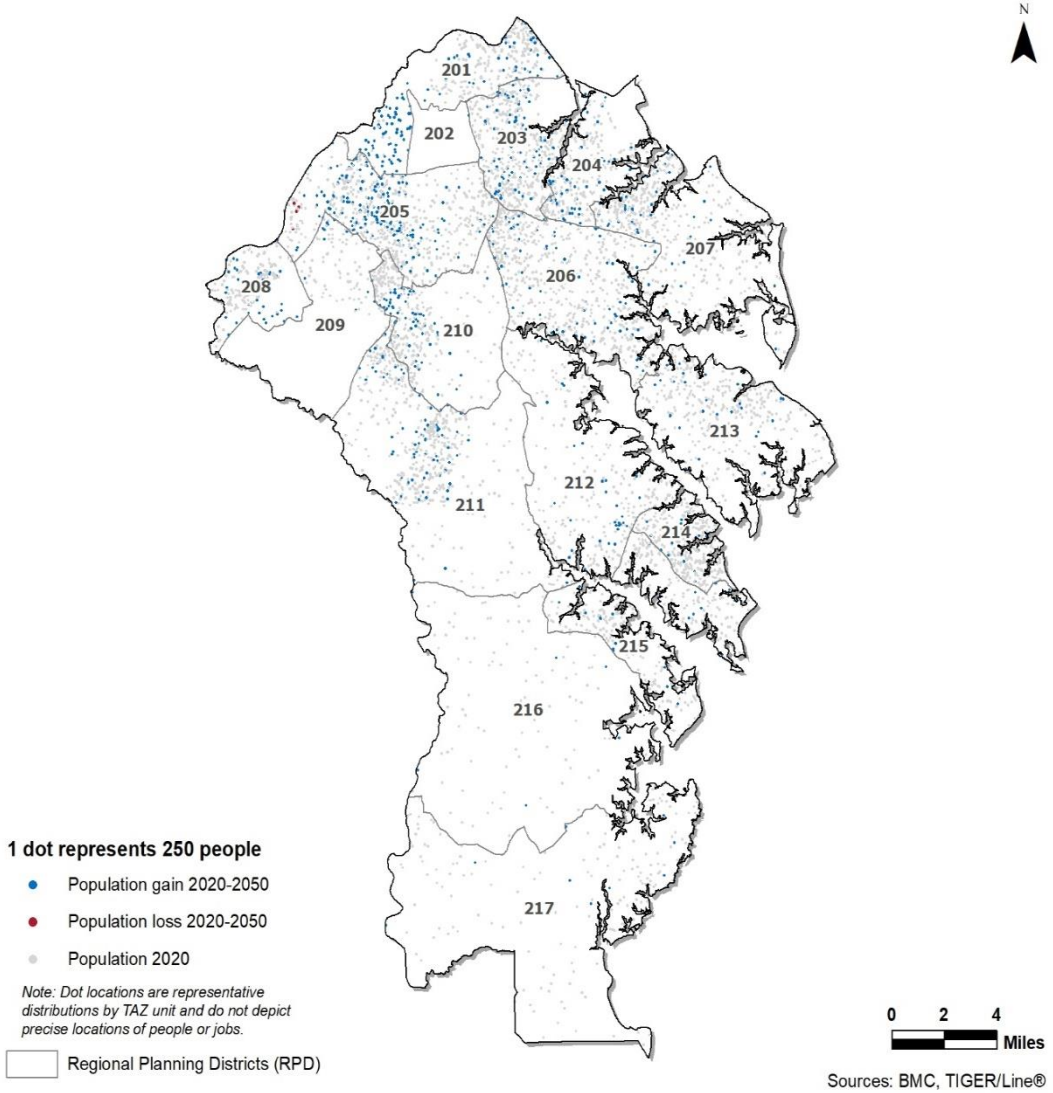
ROUND 10 ESTIMATES AND FORECASTS BY JURISDICTION

ANNE ARUNDEL COUNTY

Draft Round 10 Population – Within Anne Arundel County



Source: Local jurisdictions; Cooperative Forecasting Group.

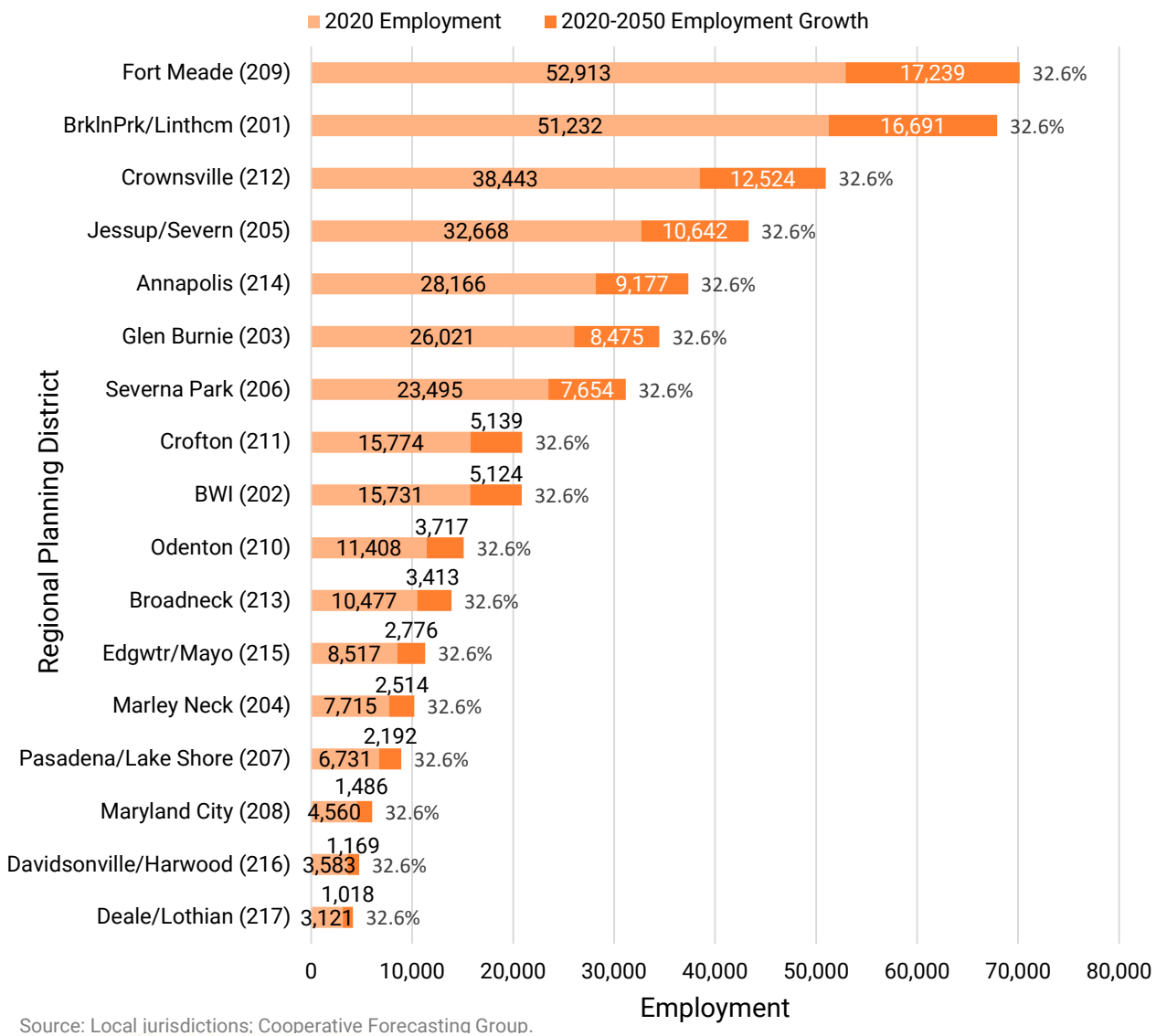


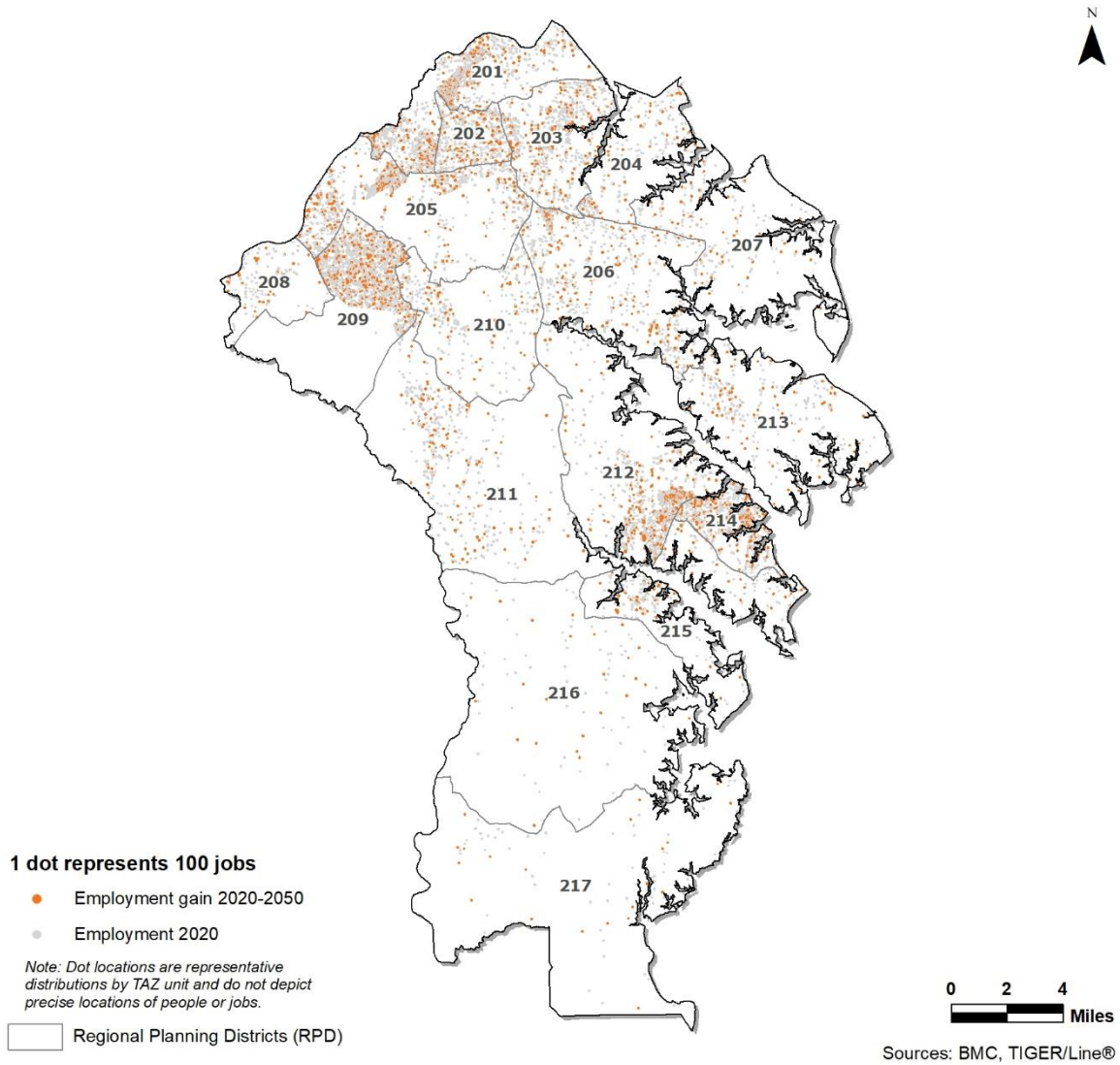
Sources: BMC, TIGER/Line®

BMC

BRTB

Draft Round 10 Employment – Within Anne Arundel County





Sources: BMC, TIGER/Line®

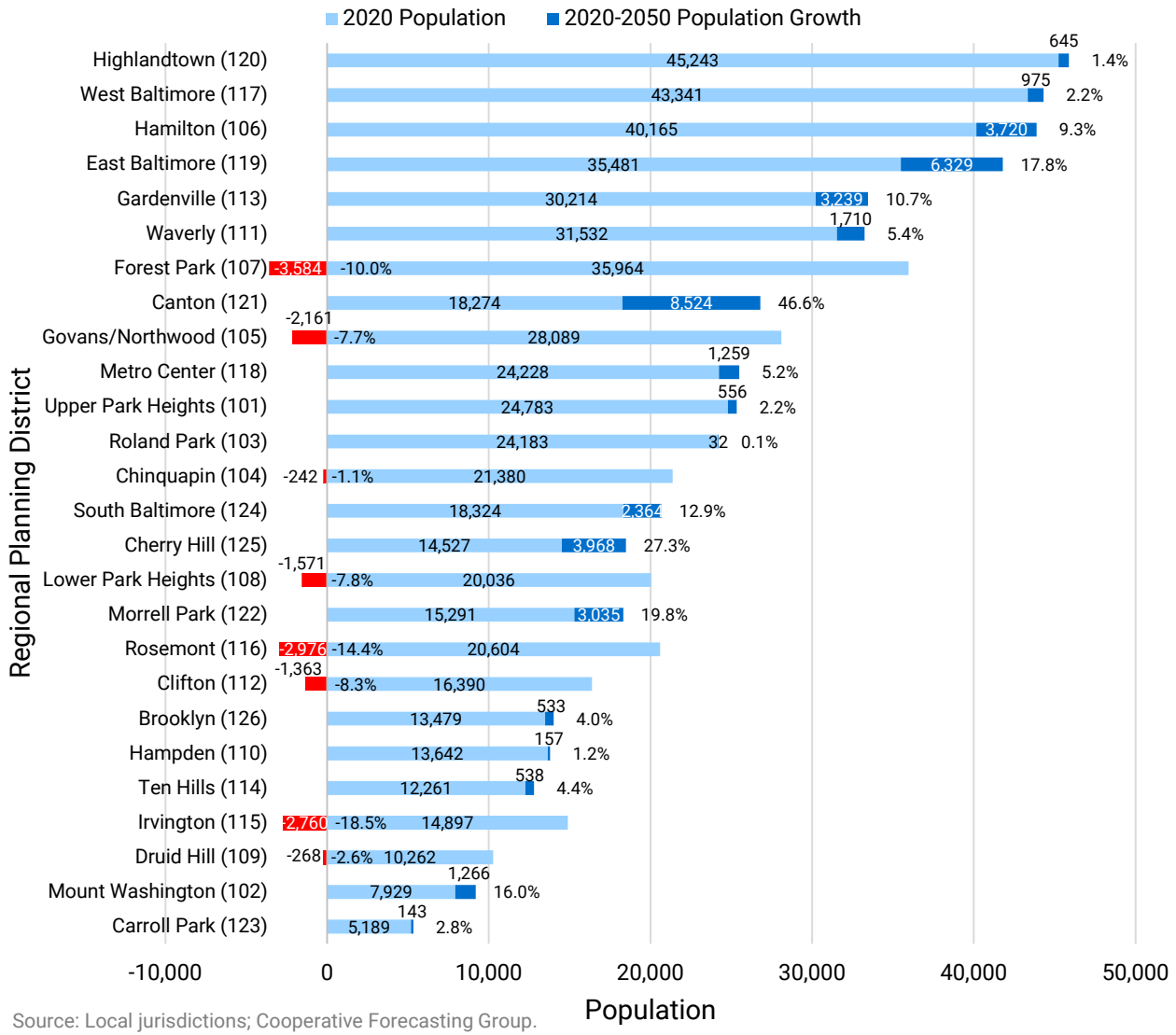
Source: Local jurisdictions; Cooperative Forecasting Group.

BMC

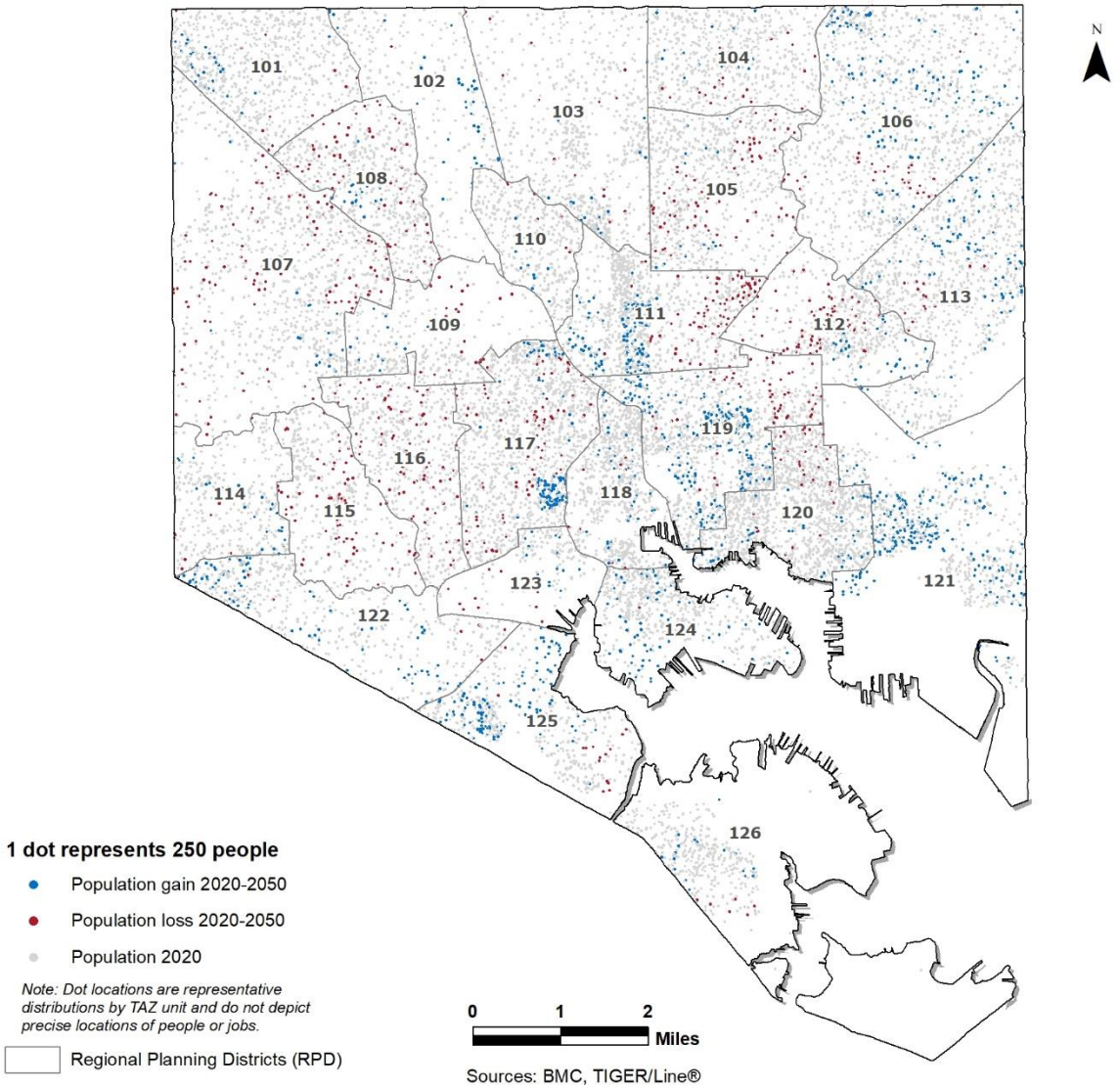
BRTB

BALTIMORE CITY

Draft Round 10 Population – Baltimore City RPDs



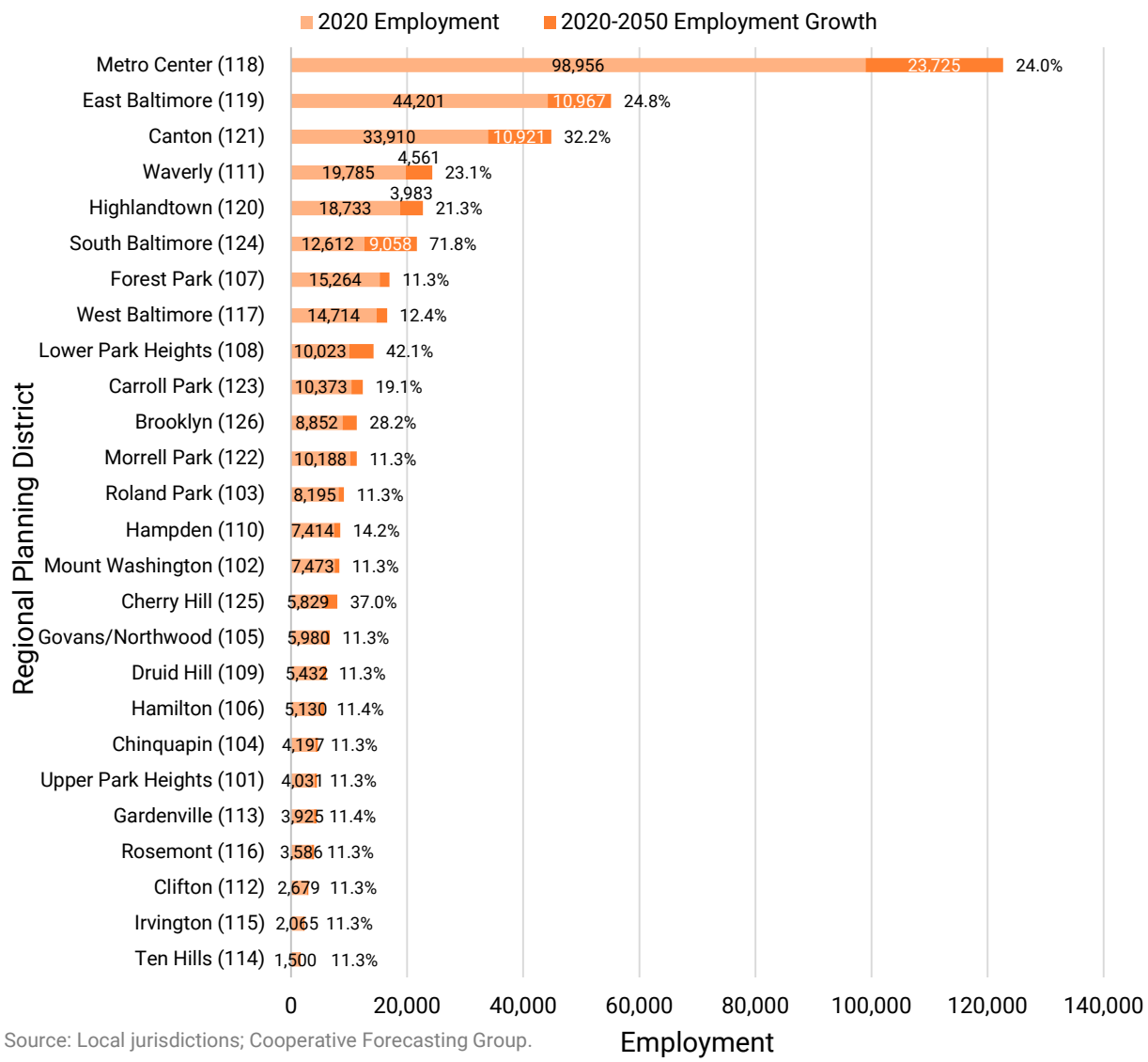
Source: Local jurisdictions; Cooperative Forecasting Group.



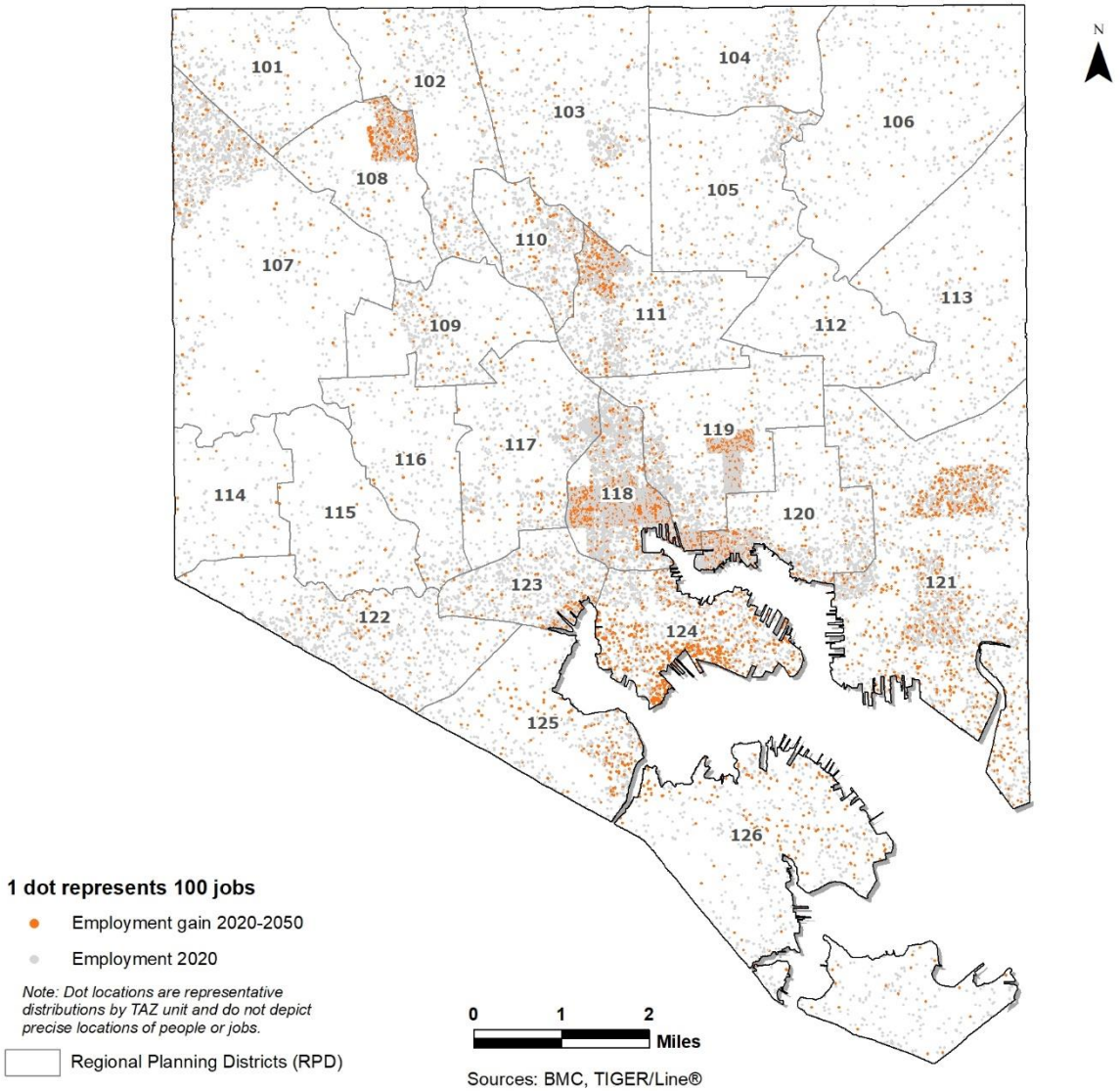
BMC

BRTB

Draft Round 10 Employment – Baltimore City RPDs



Source: Local jurisdictions; Cooperative Forecasting Group.

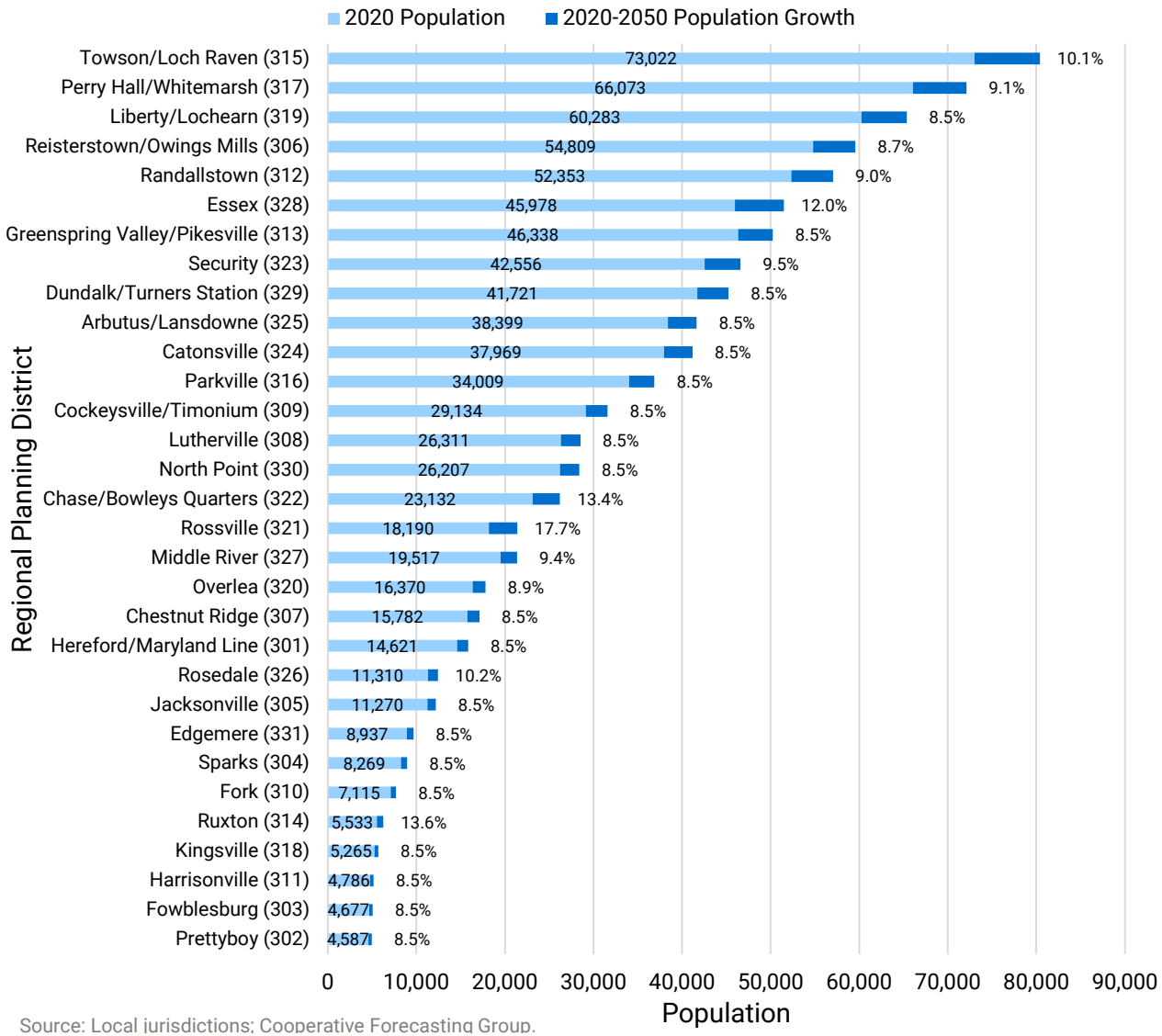


BMC

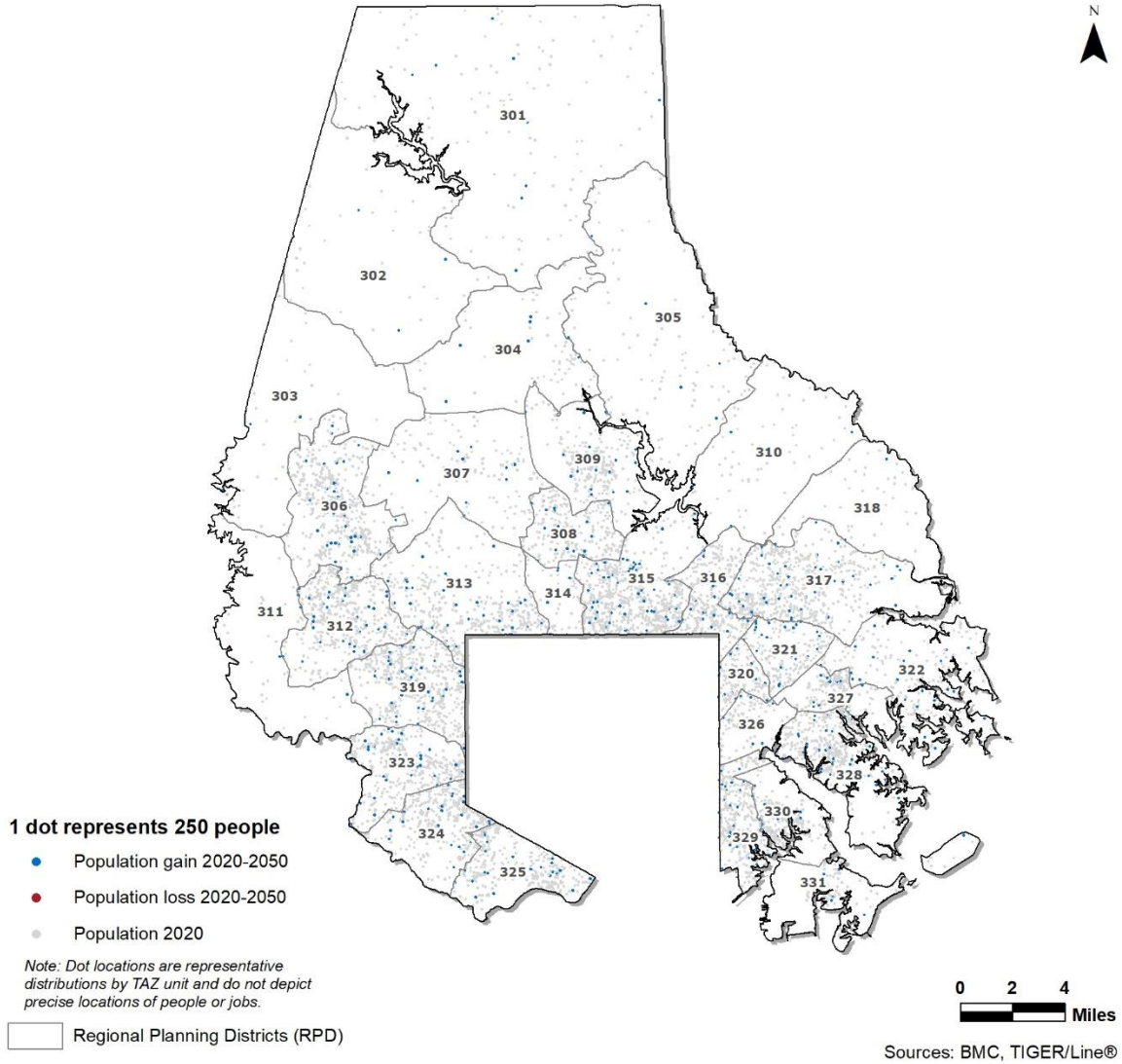
BRTB

BALTIMORE COUNTY

Draft Round 10 Population – Baltimore County RPDs



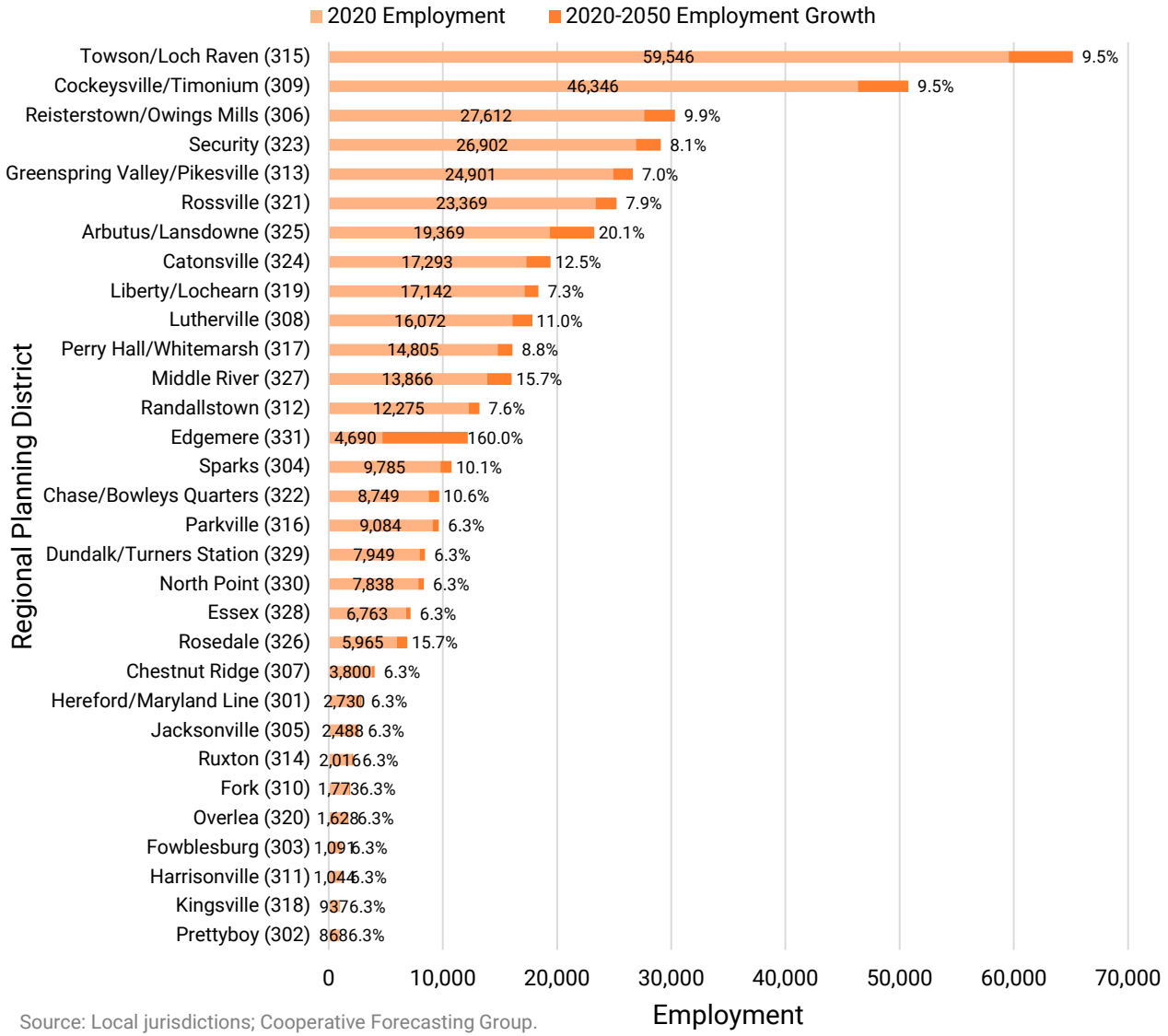
Source: Local jurisdictions; Cooperative Forecasting Group.



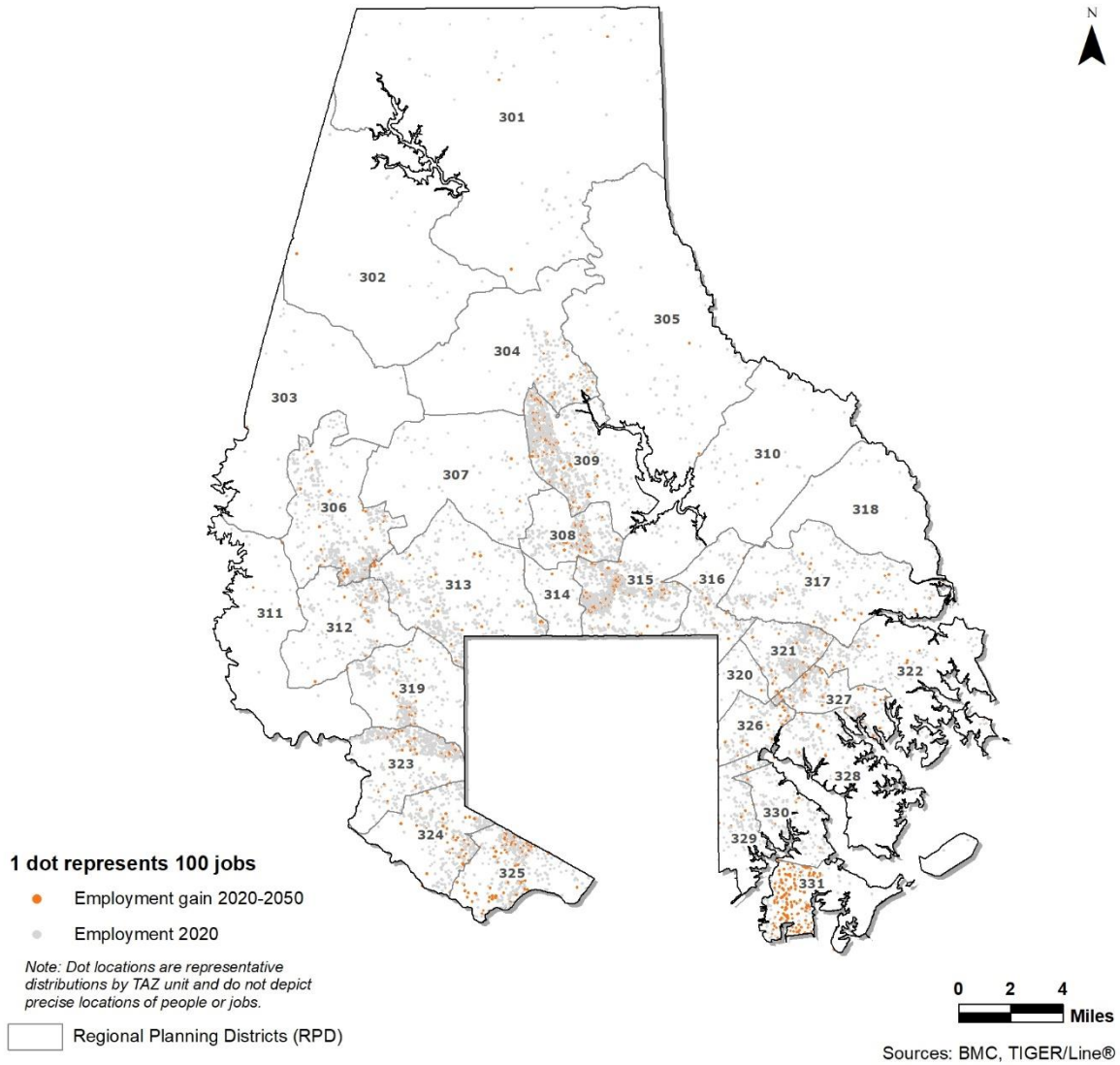
BMC

BRTB

Draft Round 10 Employment – Baltimore County RPDs



Source: Local jurisdictions; Cooperative Forecasting Group.

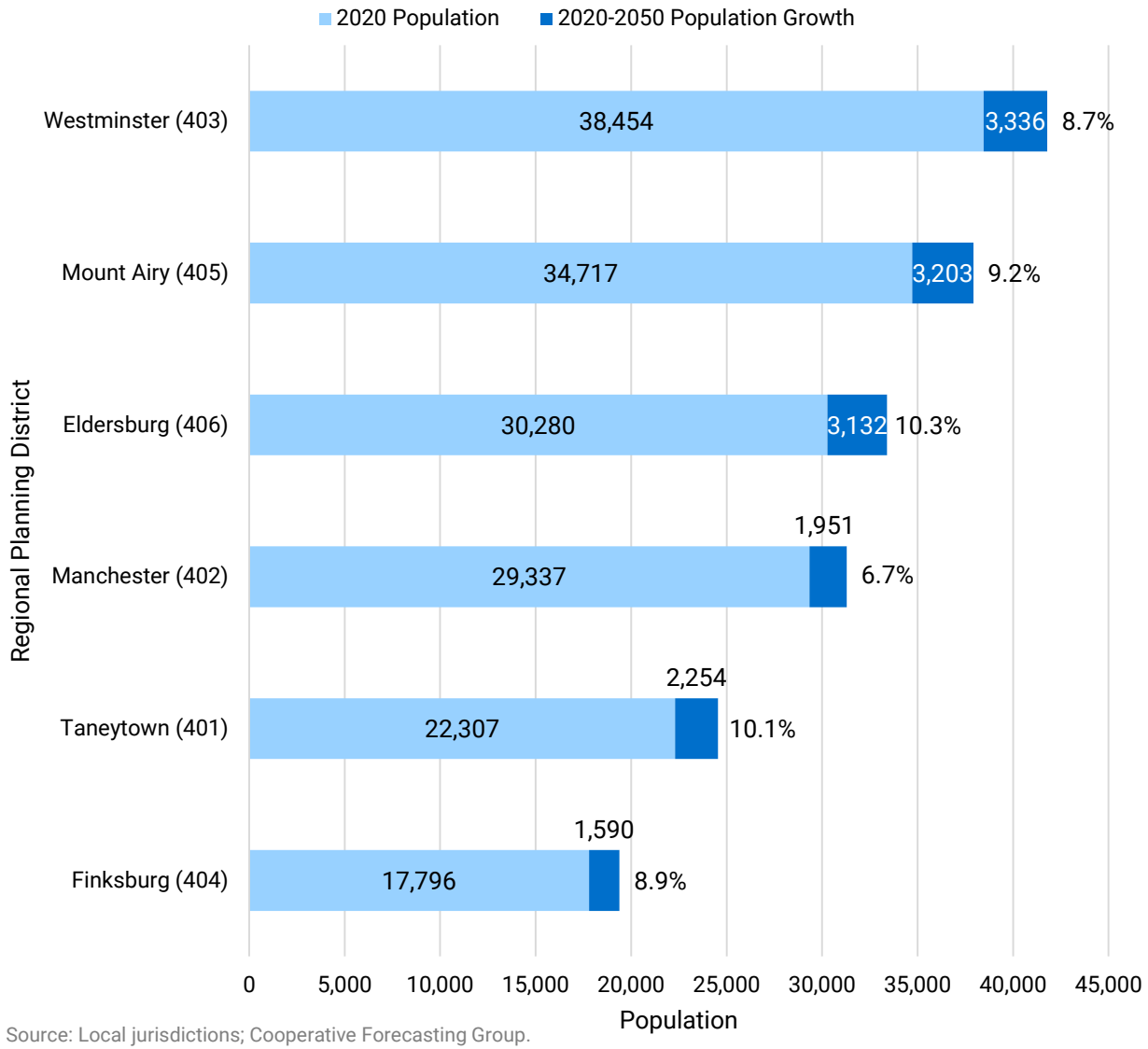


BMC

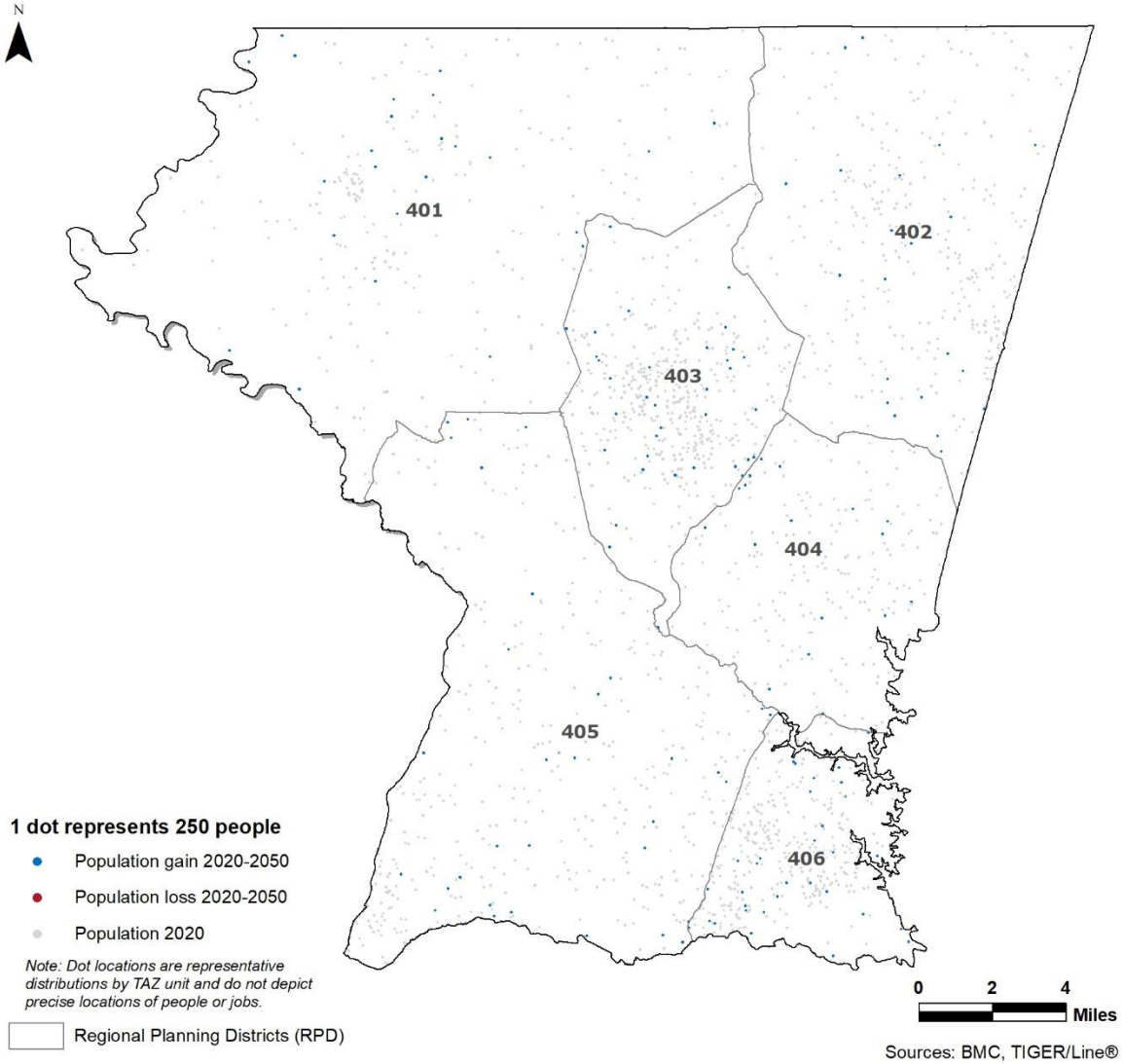
BRTB

CARROLL COUNTY

Draft Round 10 Population – Carroll County RPDs



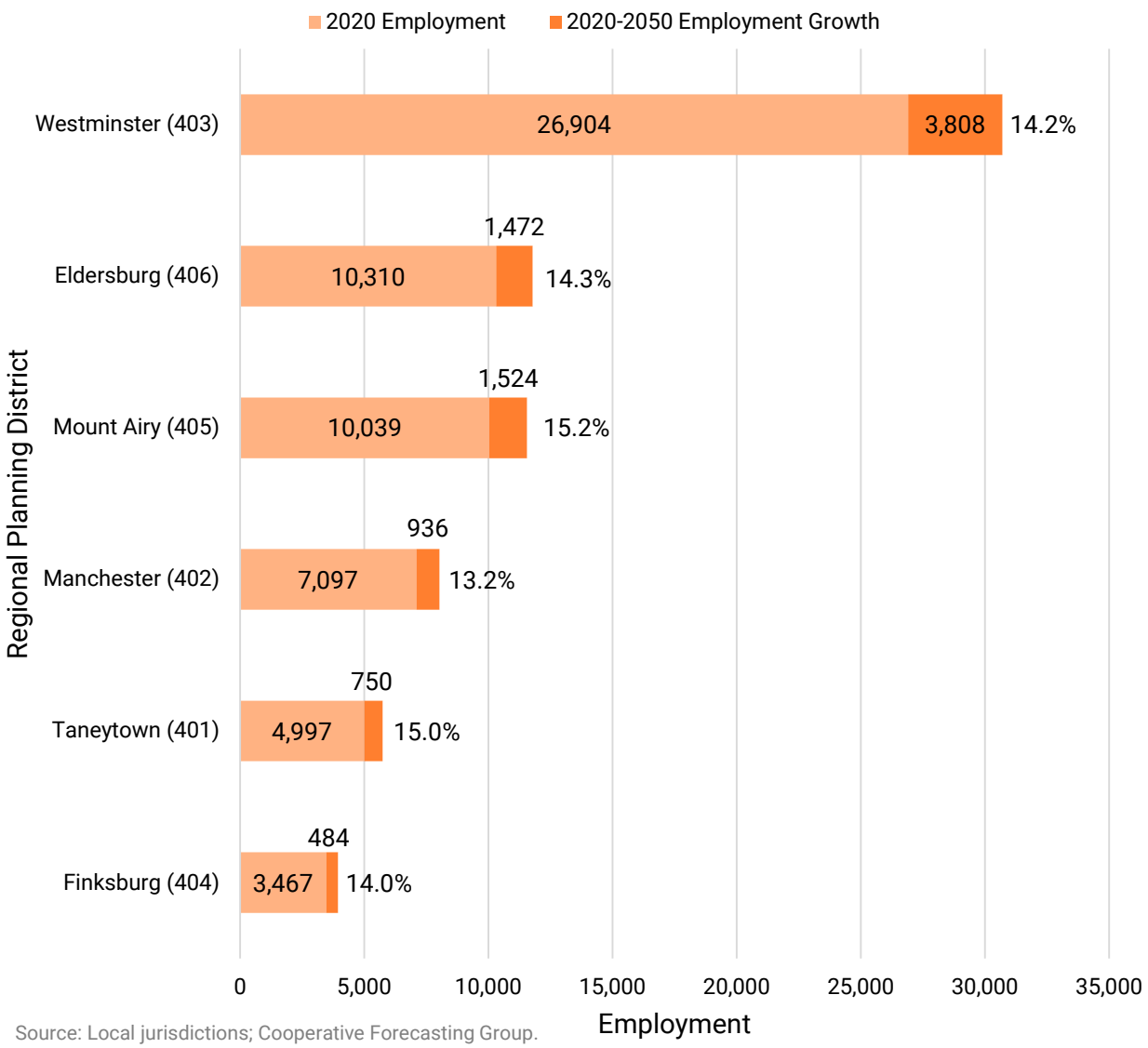
Source: Local jurisdictions; Cooperative Forecasting Group.



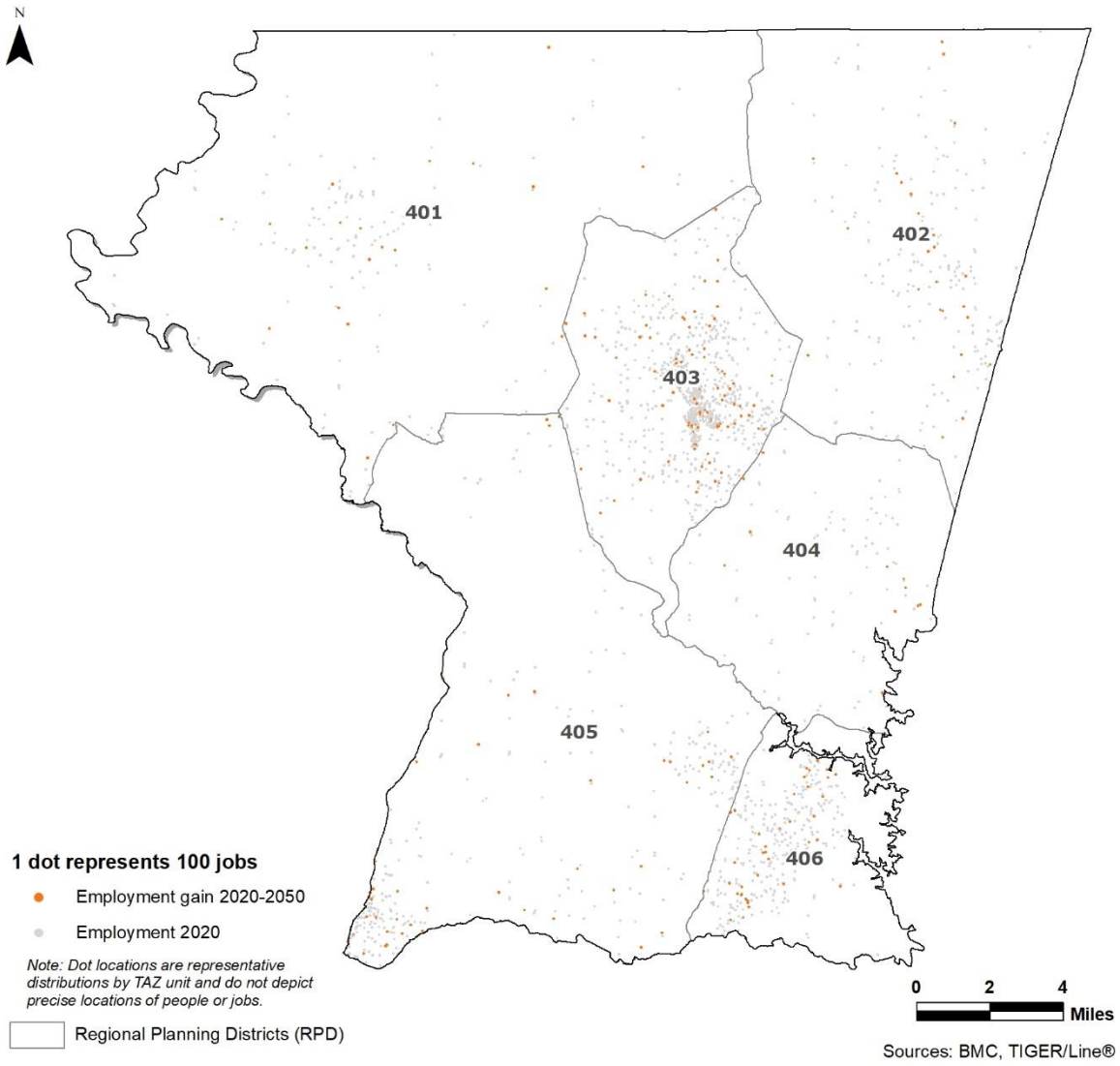
BMC

BRTB

Draft Round 10 Employment – Carroll County RPDs



Source: Local jurisdictions; Cooperative Forecasting Group.

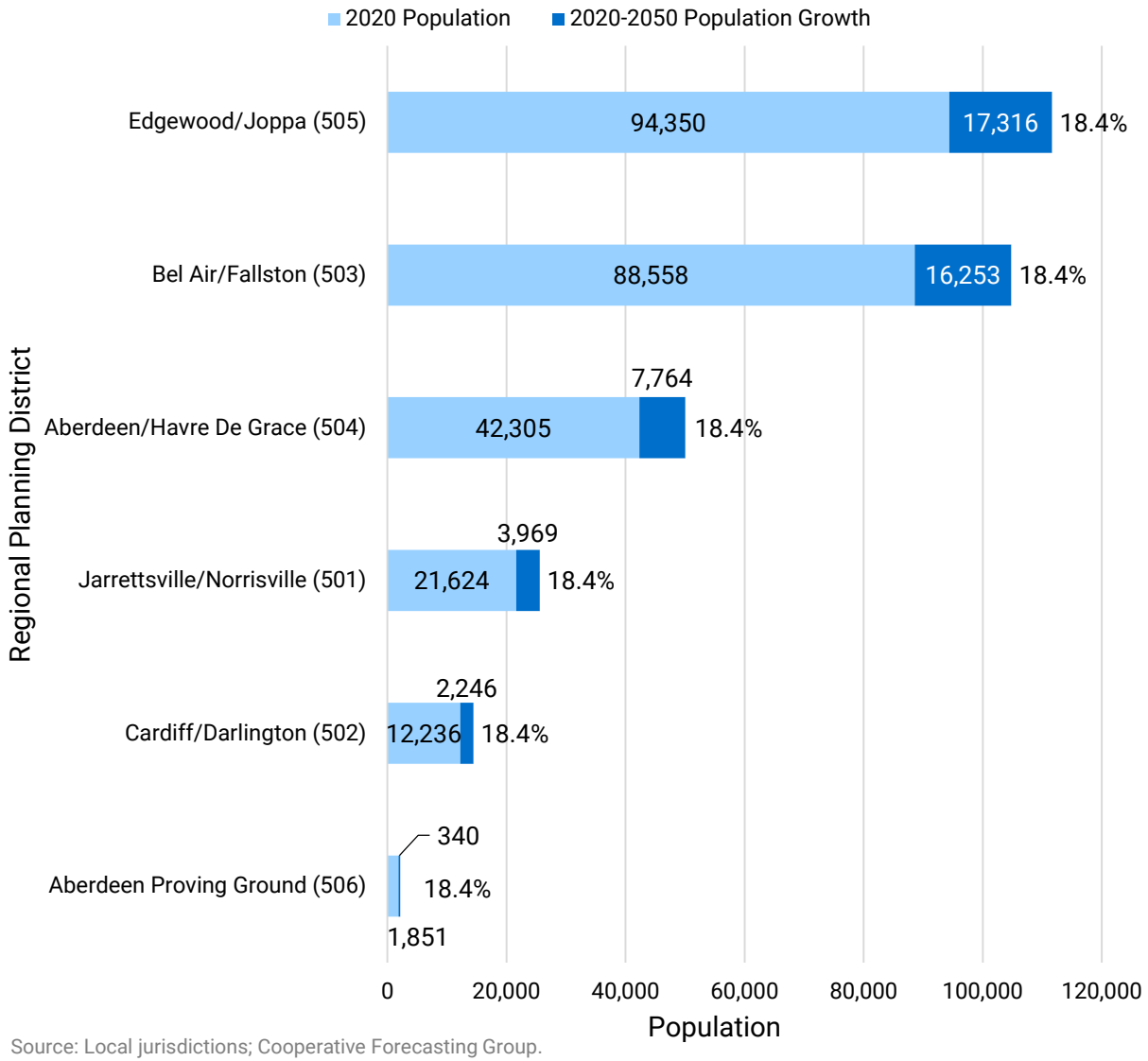


BMC

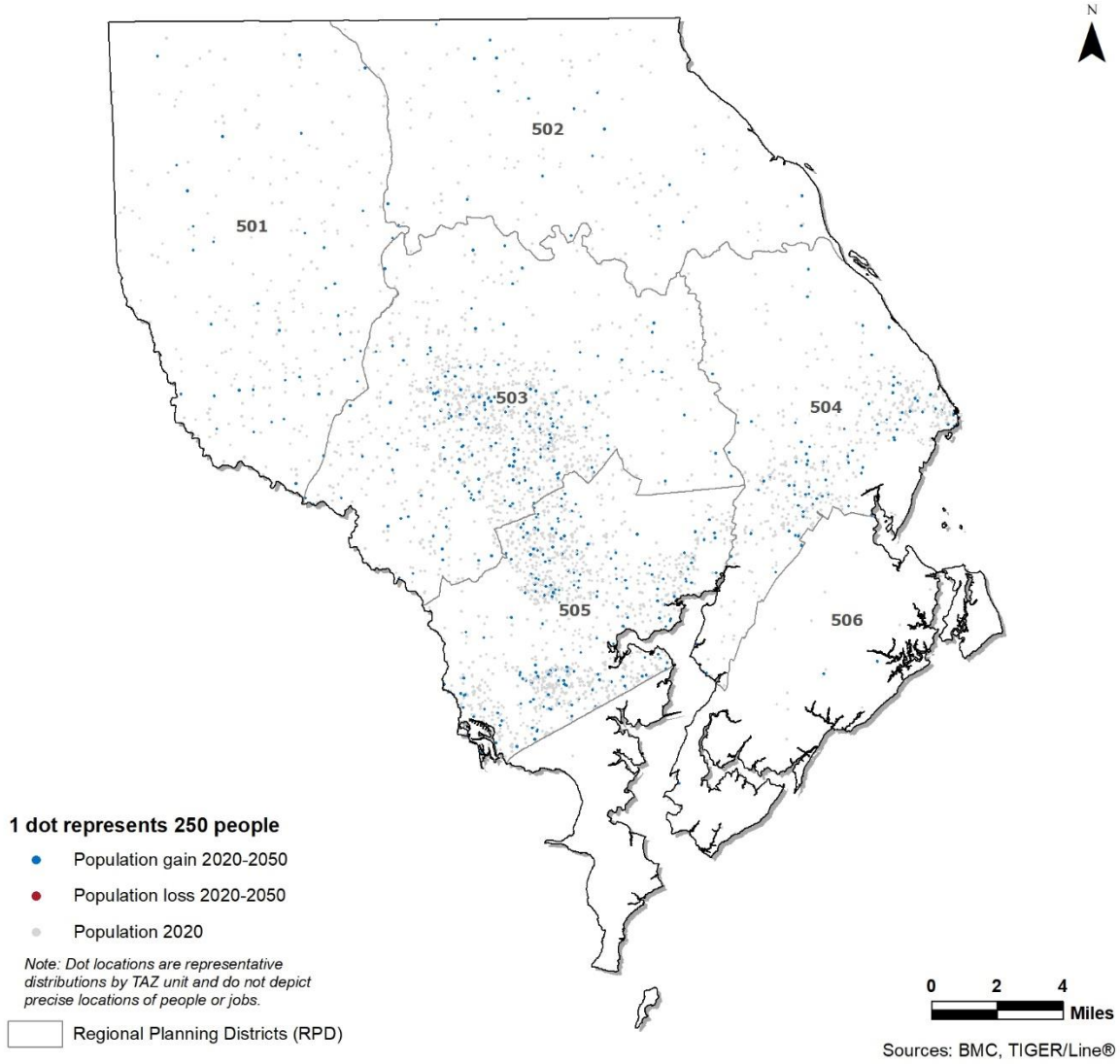
BRTB

HARFORD COUNTY

Draft Round 10 Population – Harford County RPDs



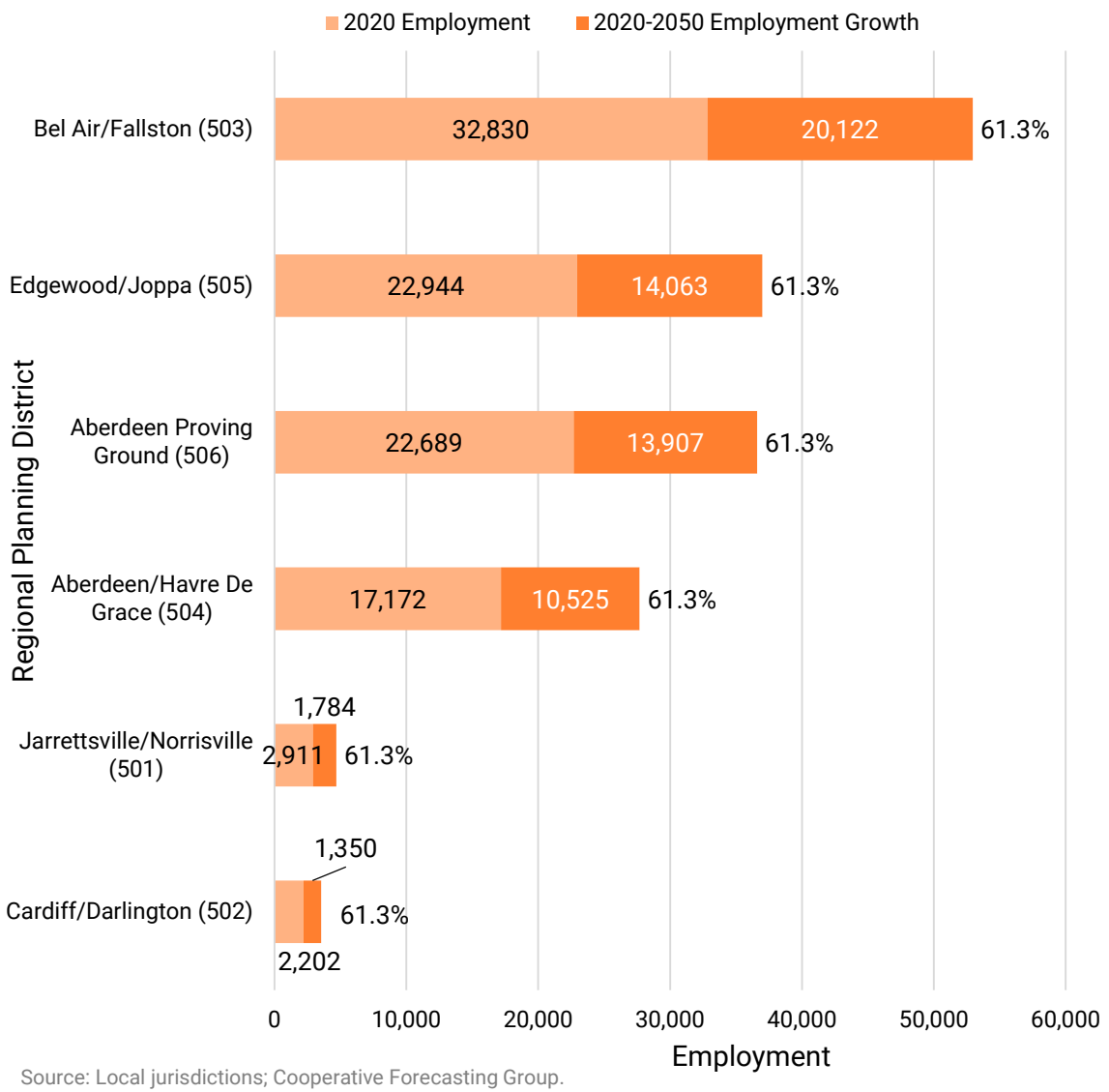
Source: Local jurisdictions; Cooperative Forecasting Group.



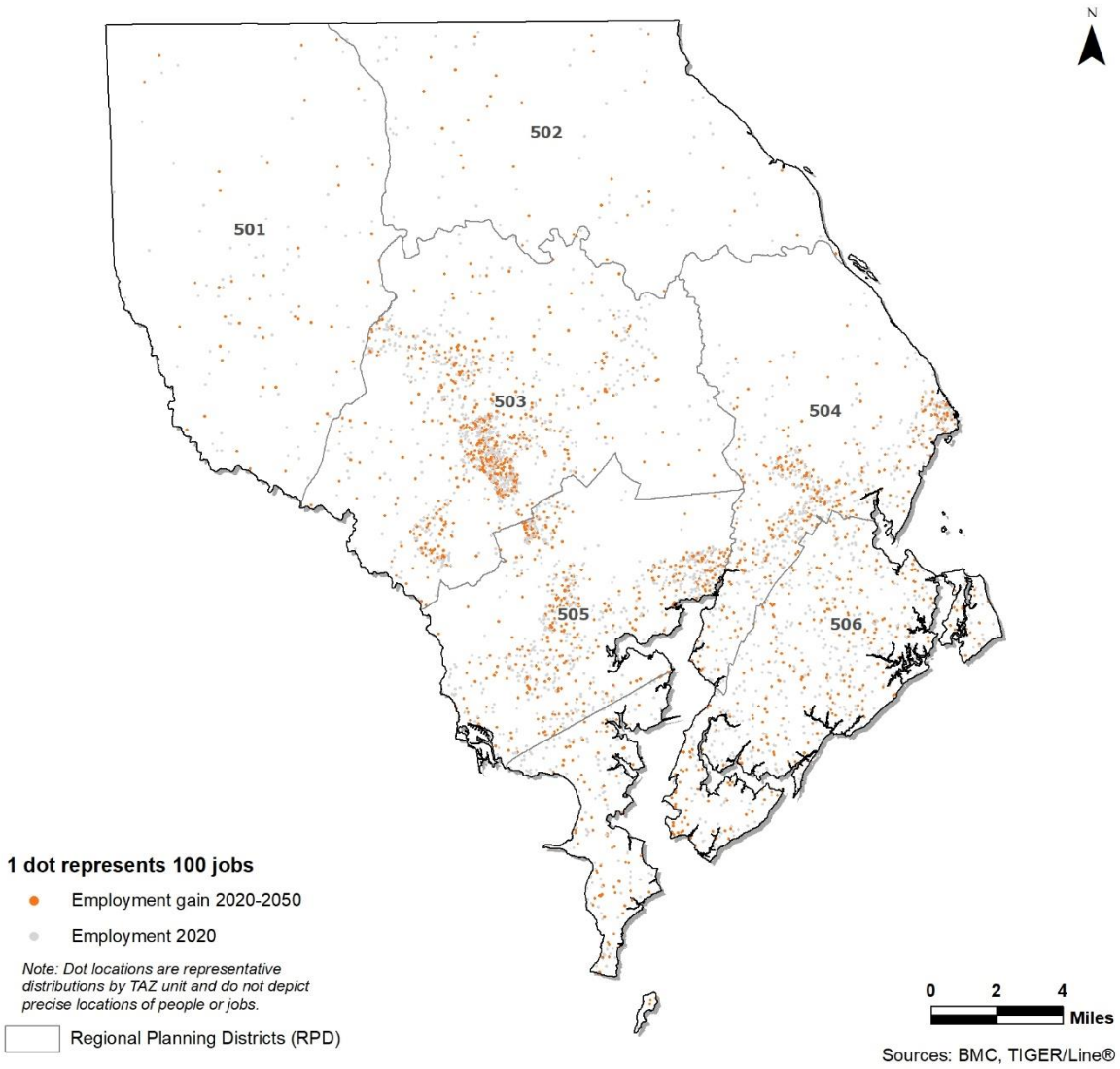
BMC

BRTB

Draft Round 10 Employment – Harford County RPDs



Source: Local jurisdictions; Cooperative Forecasting Group.

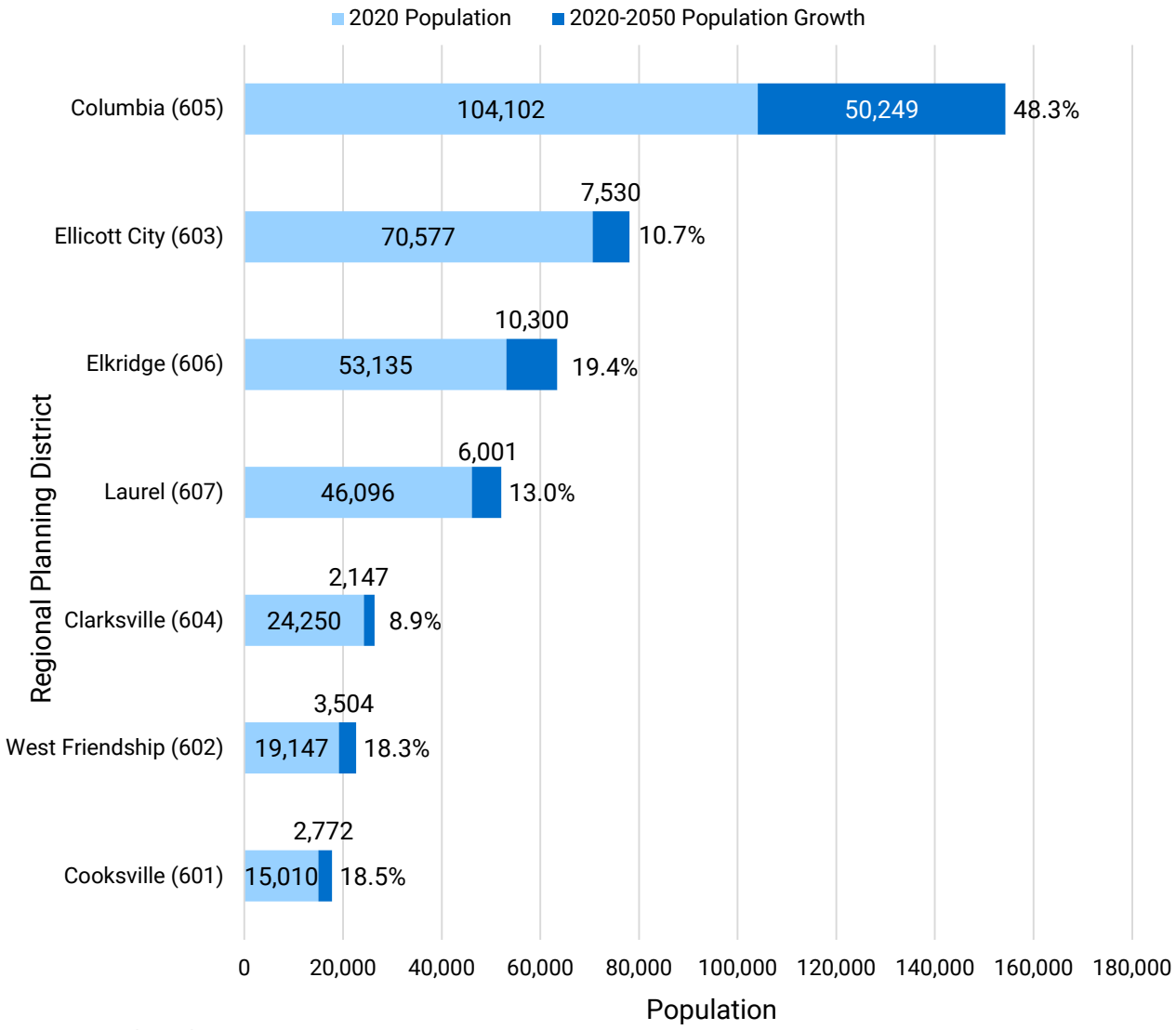


BMC

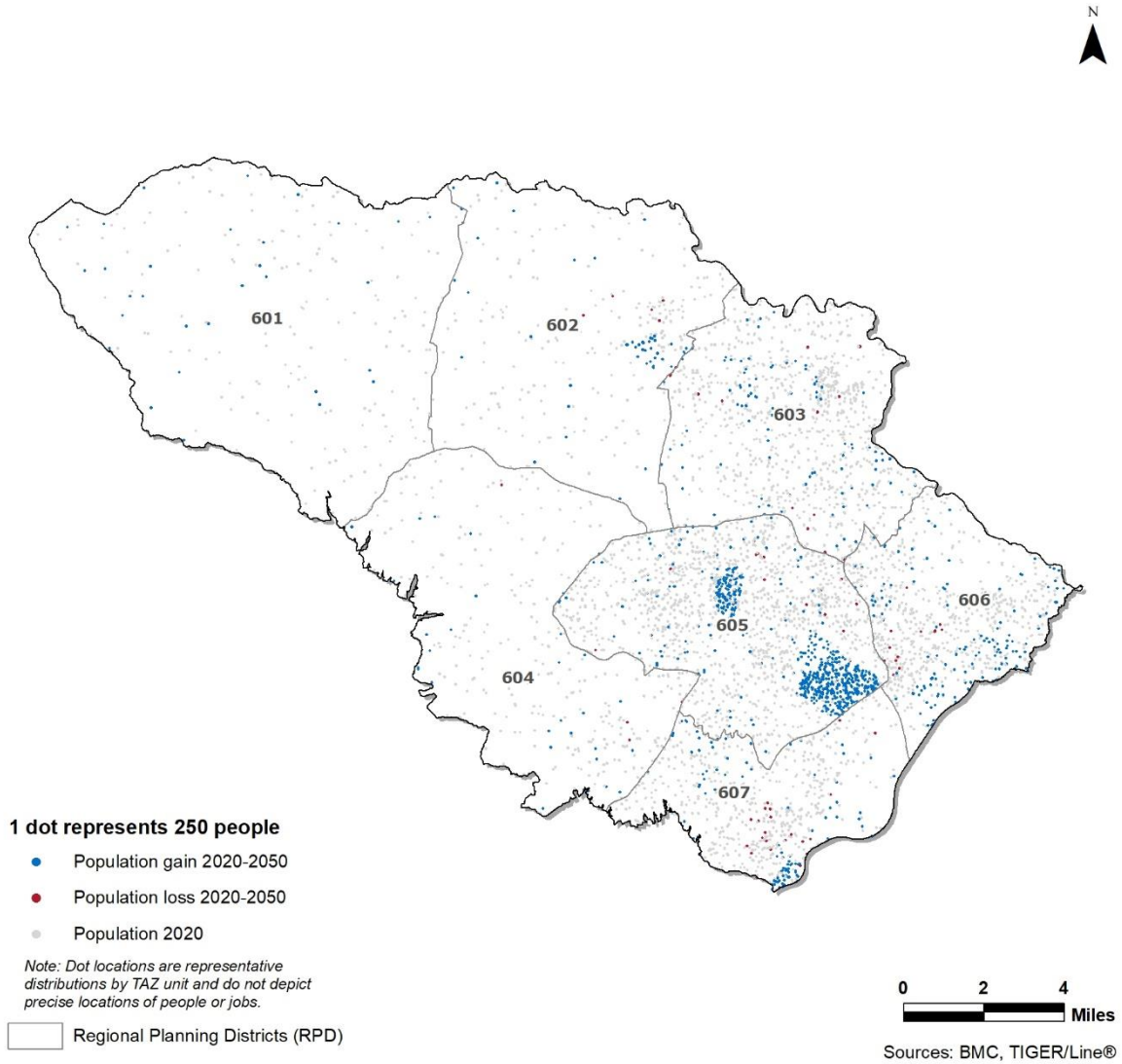
BRTB

HOWARD COUNTY

Draft Round 10 Population – Howard County RPDs



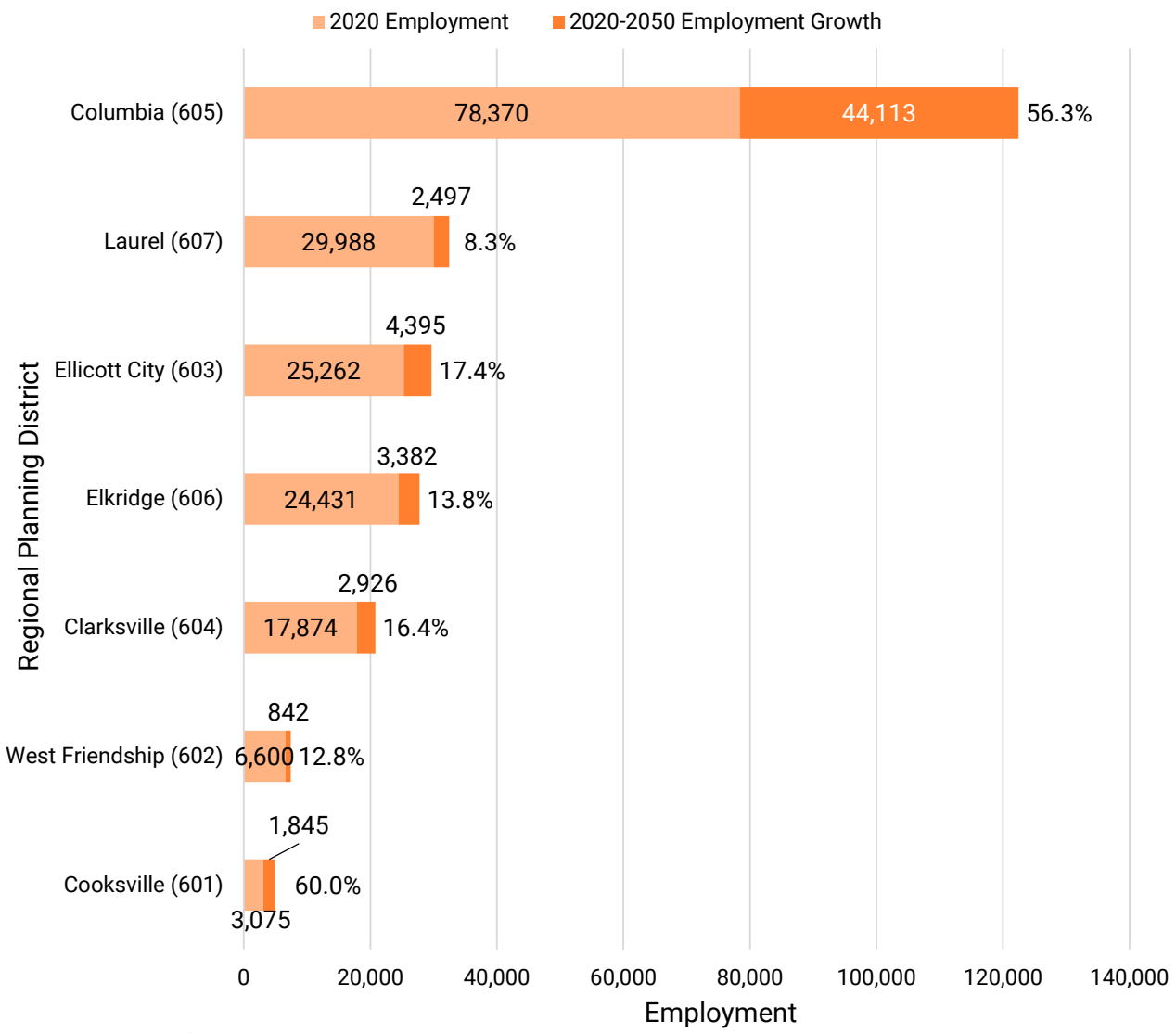
Source: Local jurisdictions; Cooperative Forecasting Group.

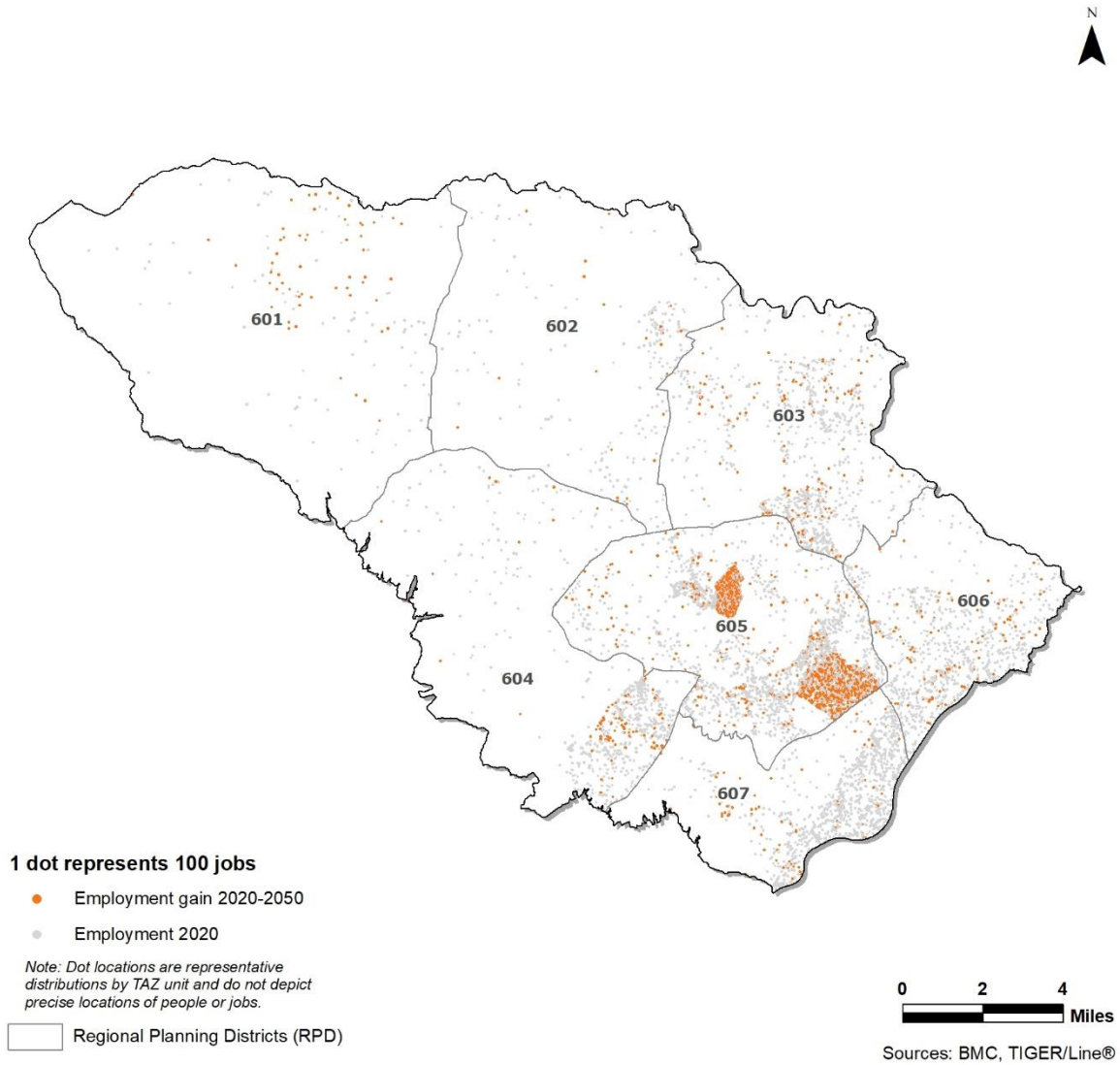


BMC

BRTB

Draft Round 10 Employment – Howard County RPDs





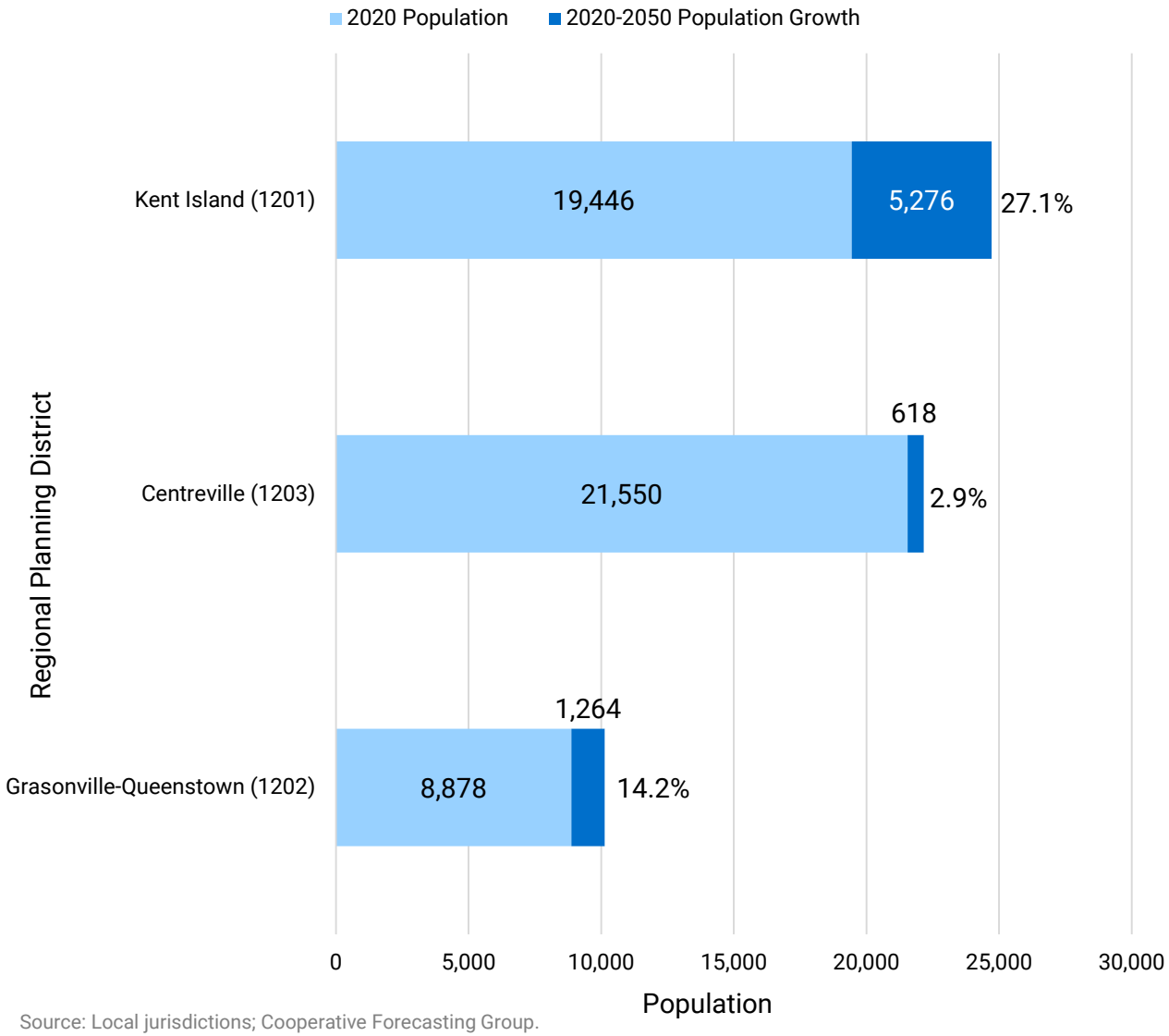
Source: Local jurisdictions; Cooperative Forecasting Group.

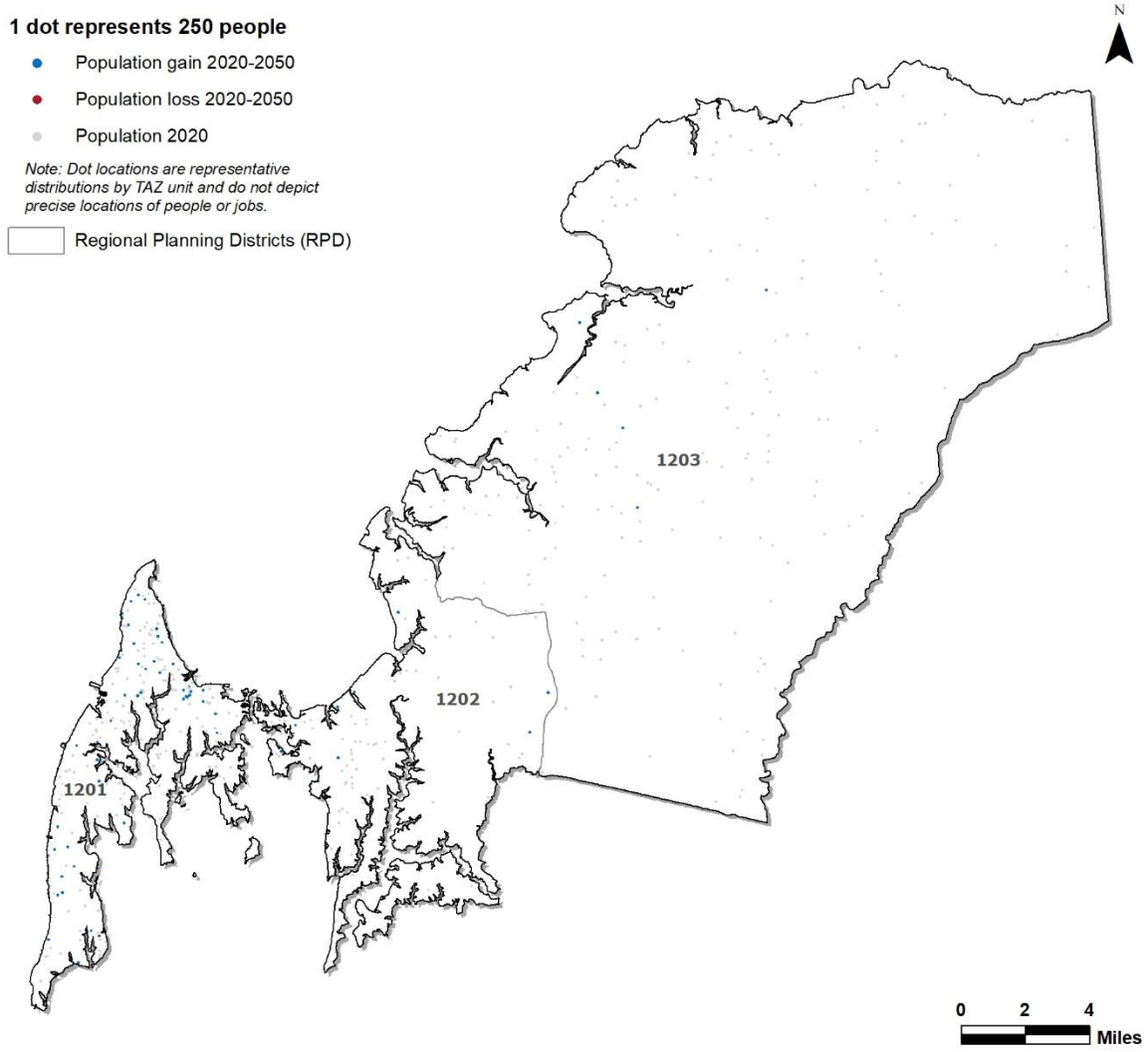
BMC

BRTB

QUEEN ANNE’S COUNTY

Draft Round 10 Population – Queen Anne's County RPDs





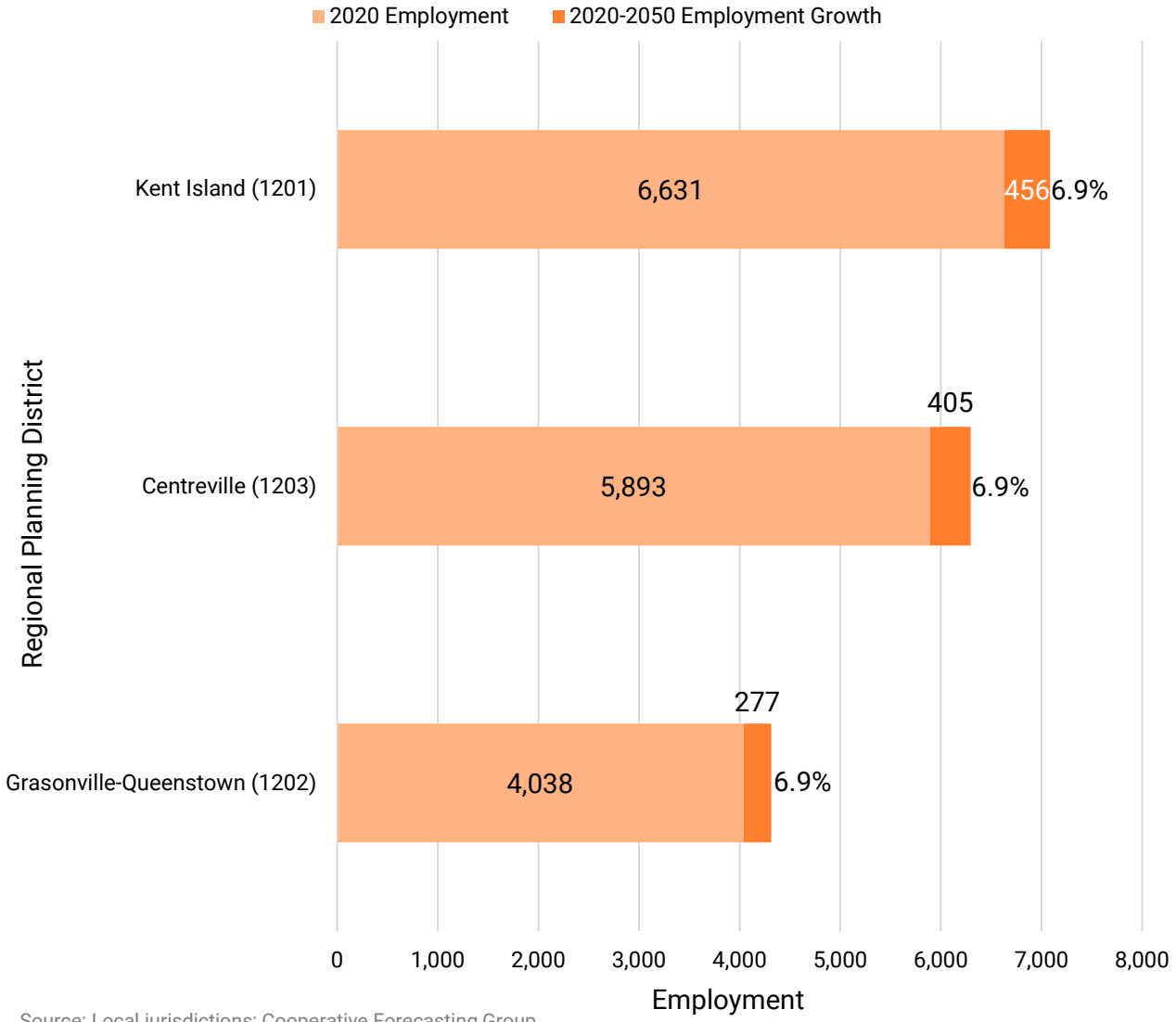
Source: Local jurisdictions; Cooperative Forecasting Group.

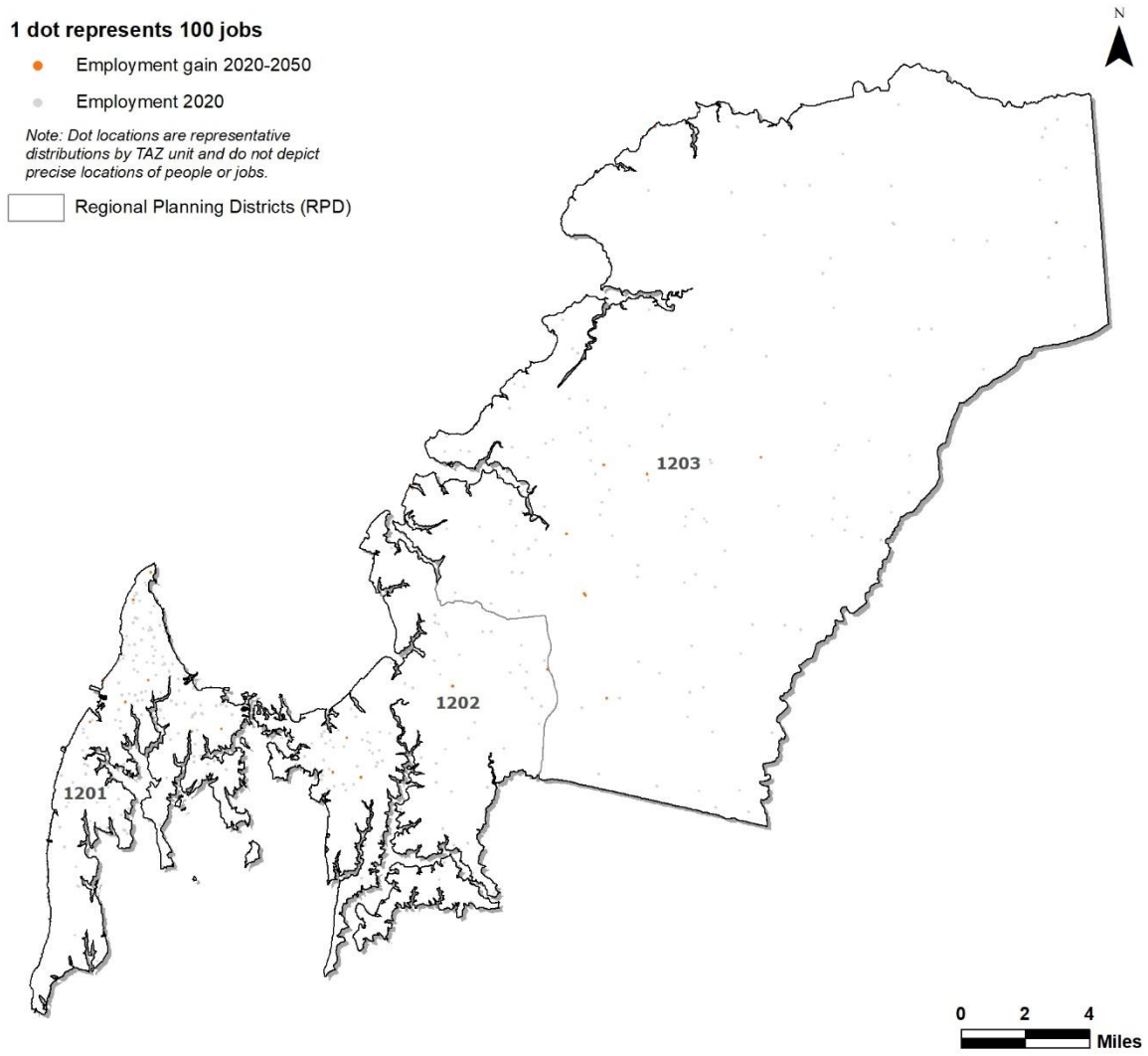
Sources: BMC, TIGER/Line®

BMC

BRTB

Draft Round 10 Employment – Queen Anne's County RPDs





Source: Local jurisdictions; Cooperative Forecasting Group.

Sources: BMC, TIGER/Line®

BMC

BRTB

For More Information

Shawn Kimberly, AICP | Senior Planner

410-732-0500 x1026 | skimberly@baltometro.org | www.baltometro.org

@BALTOMETROCOUNCIL

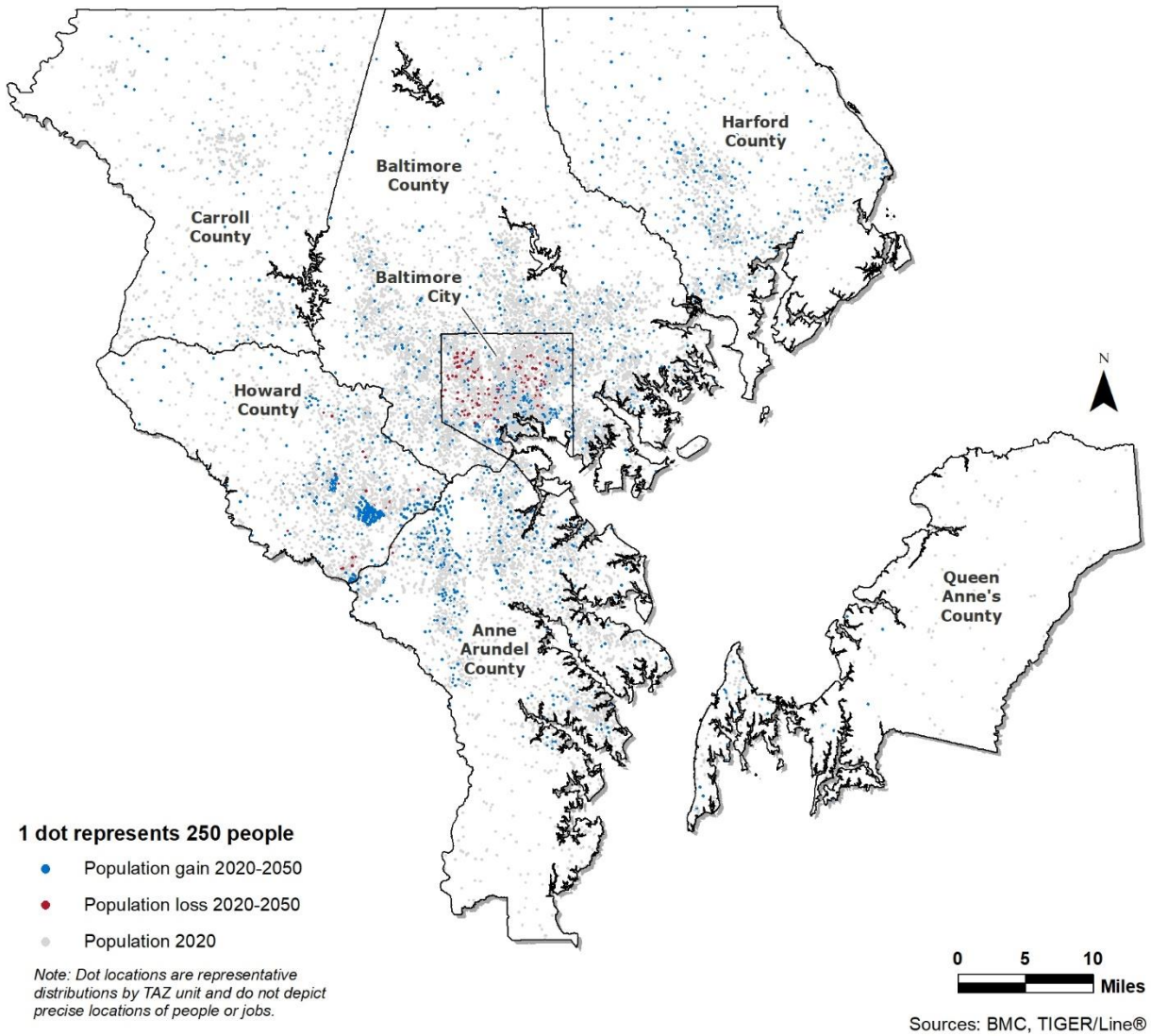
@BALTIMORE METROPOLITAN COUNCIL

@BALTIMORE METROPOLITAN COUNCIL

BMC

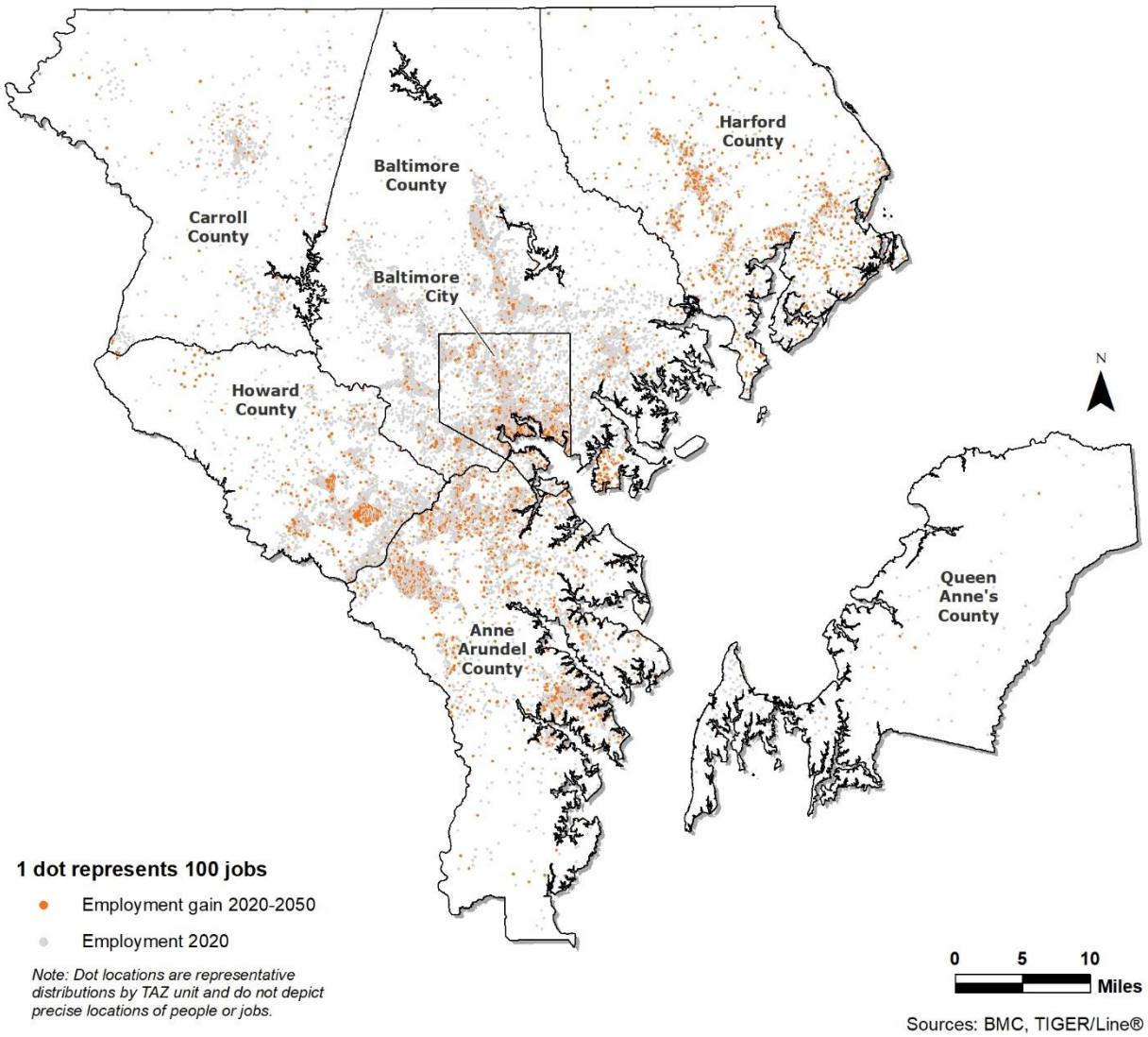
Draft Round 10 Population and Employment – Estimates and Forecasts

Population



Sources: BMC, TIGER/Line®

Employment



Sources: BMC, TIGER/Line®

BMC

BRTB