ROUND 10.0 COOPERATIVE FORECASTS OF EMPLOYMENT, POPULATION, AND HOUSEHOLDS

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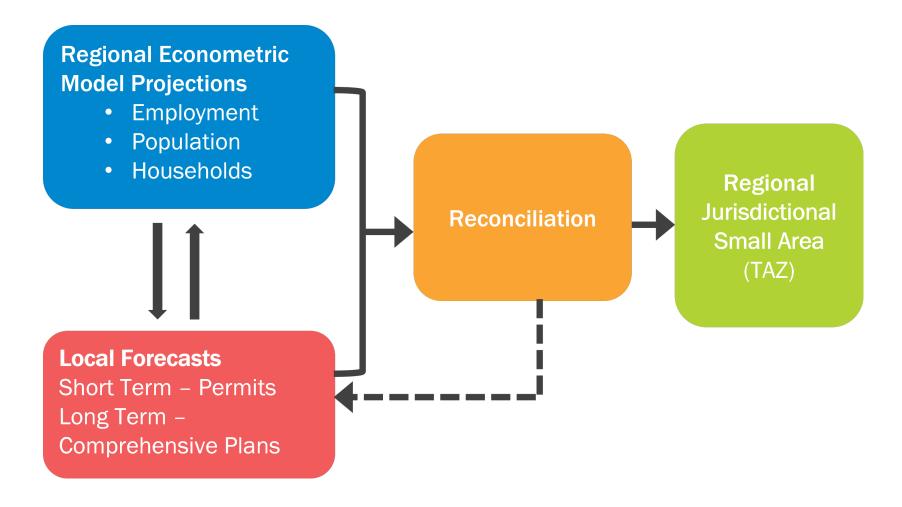
TPB Technical Committee July 7, 2023



Cooperative Forecasting Program

- Established by COG in 1975, enables local, regional, and federal agencies to coordinate planning decisions using common assumptions about future growth
- Each series or "Round" provides forecasts of employment, population, and households by five-year increment for a period of 20 to 30 years.
- Official land use inputs for planning by the Transportation Planning Board (TPB), Metropolitan Washington Air Quality Committee (MWAQC), Climate Energy Environment Policy Committee (CEEPC), and others.

COG Cooperative Forecasting Process



Prior Rounds of Cooperative Forecasts

Round 1 - 1976

Round 2 - 1979

Round 3 - 1983

Round 3.5 - 1985

Round IV - 1987

Round IV-1 - 1991

Round 5.1 - May 1994

Round 5.2 - 1995

Round 5.3 - 1996

Round 5.4 - 1997

Round 6a - 1998

Round 6.1 - 1999

Round 6.2 - 2000

Round 6.3 – 2003

Round 6.4A - 2004

Round 7.0 - 2005

Round 7.0a - 2006

Round 7.1 - 2008

Round 7.2 - July 2009

Round 7.2A - October 2009

Round 8.0 - 2010

Round 8.0a - 2011

Round 8.1 - 2012

Round 8.2 - 2013

Round 8.3 - 2014

Round 8.4 - 2015

Round 9.0 - 2016

Round 9.1 - 2018

Round 9.1a - 2019

Round 9.2 - 2021

Round 10.0 - 2023



Elements of Developing Round 10.0

- Review existing economic conditions–global, national and regional
- Provide "base year" employment and housing data to member jurisdictions
- Develop "Benchmark" Regional Econometric Model Forecast to new horizon year (2050)
- Reconcile jurisdictional projections with Regional Econometric Model Forecast
- Compile local government 2020 to 2050 TAZ forecasts

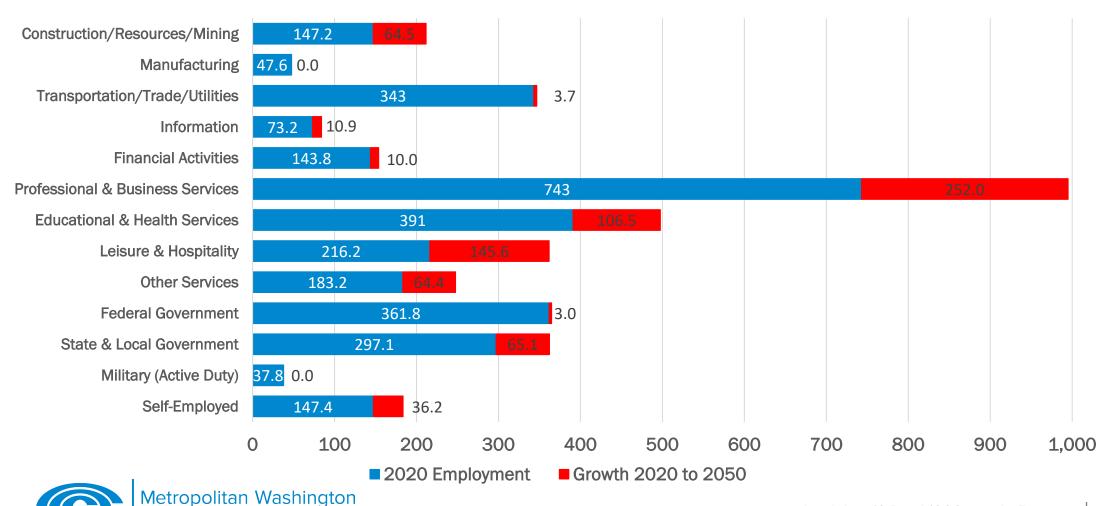


Round 10.0 Econometric Model (S & P Global)

- Economic projections of jobs, population and housing to 2050
 - Each state modeled individually and linked to the nation.
 - Net migration (population and household growth) driven by economic conditions. <u>People will follow jobs.</u>
 - Wage & salary job forecasts by sector for COG region
 - Population forecast by age cohort for COG region
- "Benchmark" regional growth to which COG member forecasts are reconciled



Round 10.0 Econometric Model: Forecast Job Growth by Sector (Thousands of jobs)

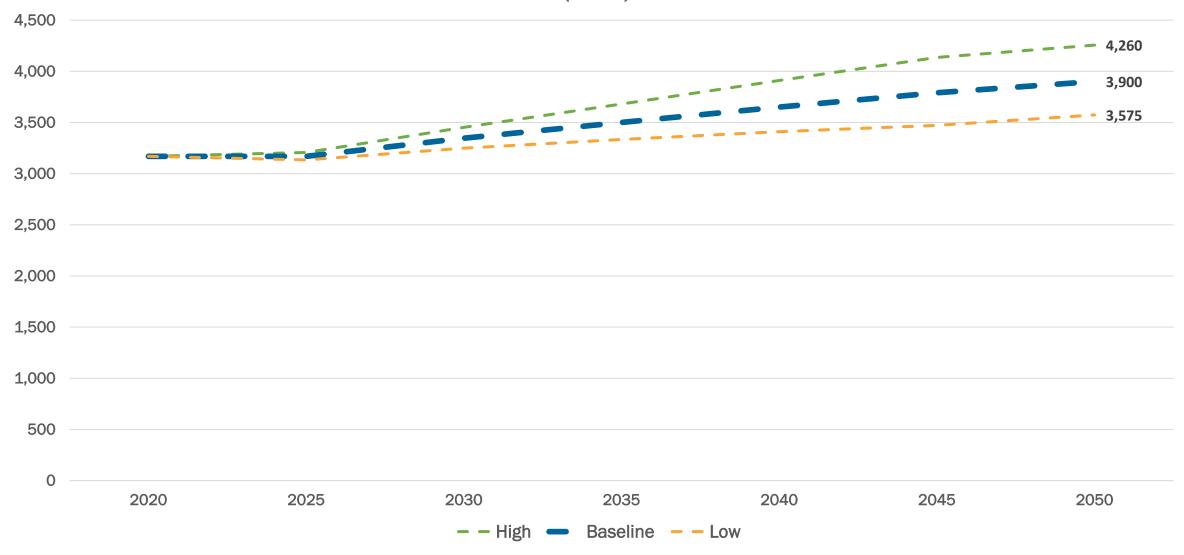


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Round 10.0 Econometric Model: Population Forecast by Age Cohort for the COG Region, 2020 – 2050 (Thousands)

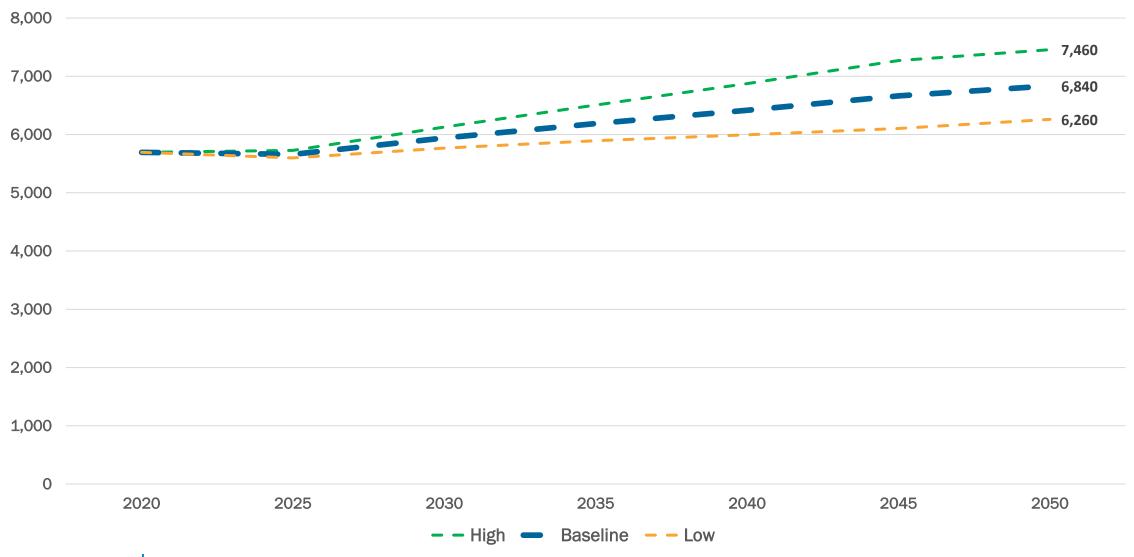


ICF Estimate of Regional Employment Change due to COVID (000s)

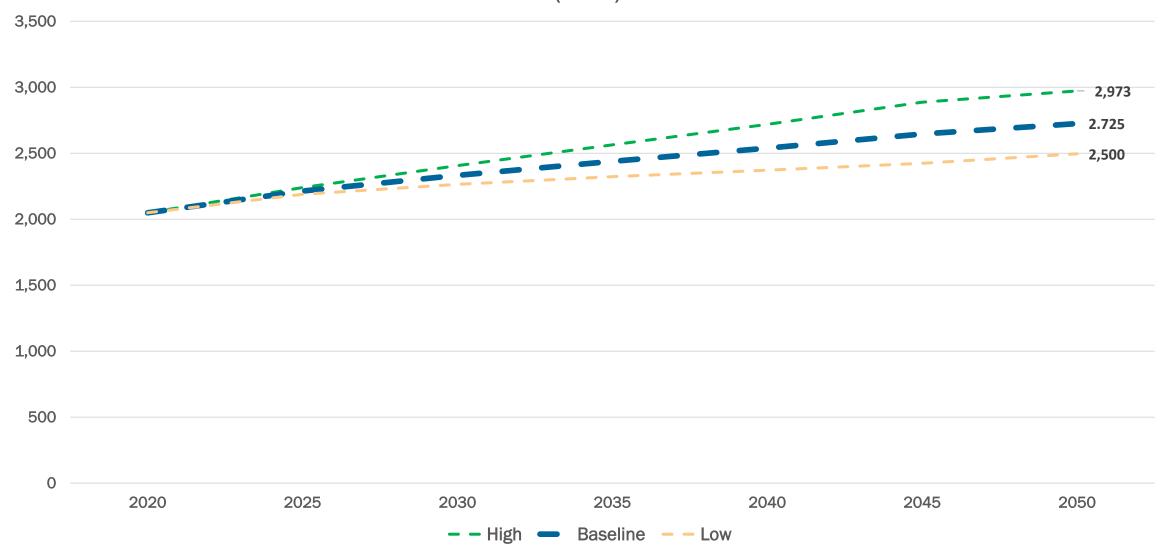




ICF Estimate of Regional Population Change due to COVID (000s)



ICF Estimate of Regional Households Change due to COVID (000s)





Return to Office and Impact on Central Business Districts

Source: ICF 2022

- April 2022: daily Metrorail boardings were 36% of prepandemic levels
- March 2022: regional traffic levels returned to 91% of 2019 levels
- Weekly office activity in the Washington region has only returned to 37% of pre-pandemic levels
- Office vacancy rates in downtown D.C. increased by 56% (from 11.1% to 17.5%) from 2019 to 2022; in February 2022, the DowntownDC BID reported 9.7M square feet of vacant office space
- Significant potential for office-to-residential conversions (2.3M SF being targeted as of 2021)

Weekday office activity % (compared to 2019)

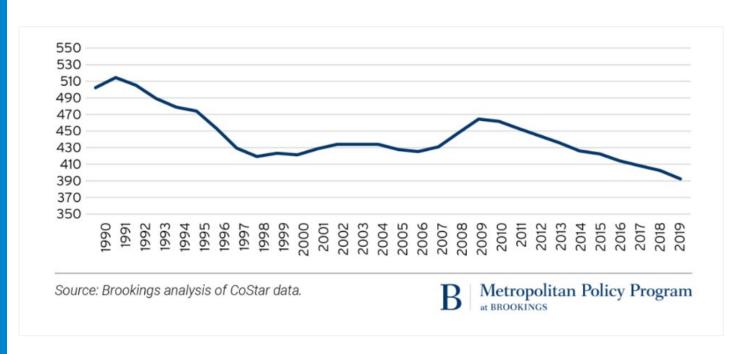
	May 25	June 1	% Change	
Chicago metro	40.0%	37.2%	2.7%	
Austin metro	58.5%	56.1%	2.4%	
Houston metro	56.0%	53.8%	2.1%	
San Francisco metro	33.6%	31.6%	2.0%	
Washington D.C. metro	39.1%	37.3%	1.8%	
San Jose metro	33.9%	32.1%	1.8%	
Average of 10	42.9%	41.2%	1.7%	
Philadelphia metro	38.1%	36.7%	1.4%	
New York metro	38.0%	36.6%	1.4%	
Dallas metro	51.3%	50.2%	1.1%	
Los Angeles metro	41.0%	40.5%	0.5%	



Office Utilization Trends

(Source: ICF, Brookings, and COG)

Median office square feet per worker (top 10 US metropolitan areas

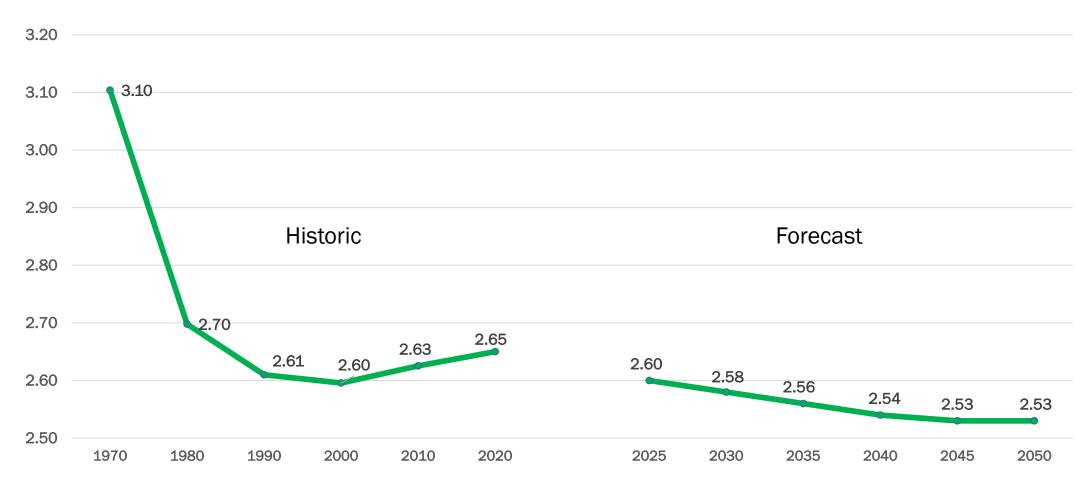


- With fewer employees returning to the office full-time, private sector companies are reevaluating space needs and the location of offices.
- Remote work is firmly established as the "new normal" and will have permanent effects on both office space use and travel patterns in the region.
- With fewer employees in the office full-time, companies are shifting to "hotel" models where space is collectively shared and reserved when employees are in the office (Source: ICF Technical Report).



Historic Average Household Size 1970 – 2020 And Forecast Household Size, 2025 – 2050

(Source: ICF and COG)



Summary of Round 10.0 Cooperative Forecasts

COG Region

(Millions)

								2020 to 2050			
Г	2020	2025	2030	2035	2040	2045	2050	Number	%		
Employment	3.2	3.4	3.6	3.7	3.9	4.0	4.2	1.0	31%		
Population	5.7	6.0	6.2	6.5	6.8	7.0	7.2	1.5	25%		
Households	2.1	2.3	2.4	2.5	2.6	2.7	2.8	0.7	32%		



Comparison of Forecasts: Round 10.0 vs Round 9.2

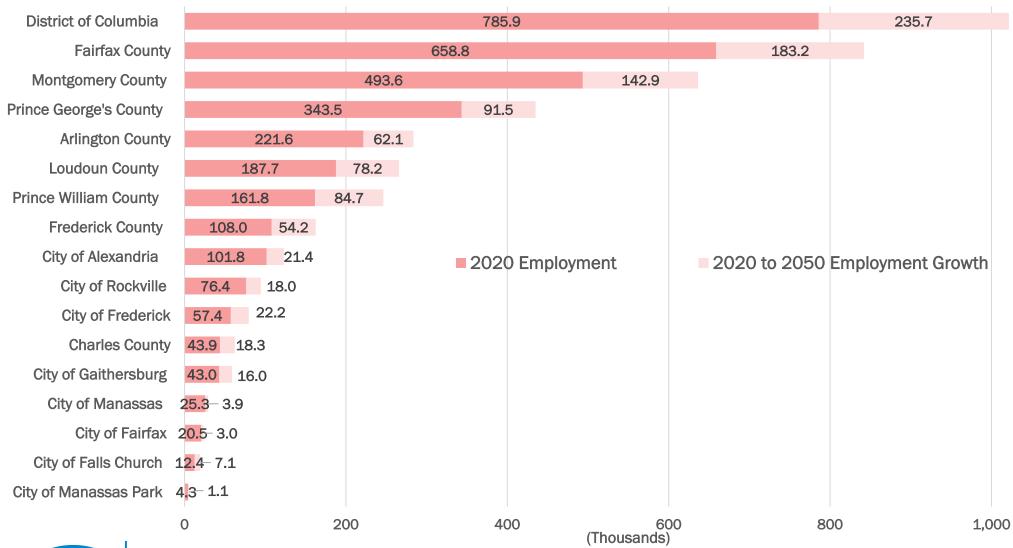
COG Region

(Thousands)

Employment	2020 -194.7	2025 -214.1	2030 -220.1	2035 -212.9	2040 -288.9	2045 -219.9	2050 n/a
Population	31.5	-43.0	-44.4	-39.8	-23.2	-9.1	n/a
Households	-2.3	-1.6	5.5	22.7	45.6	65.3	n/a

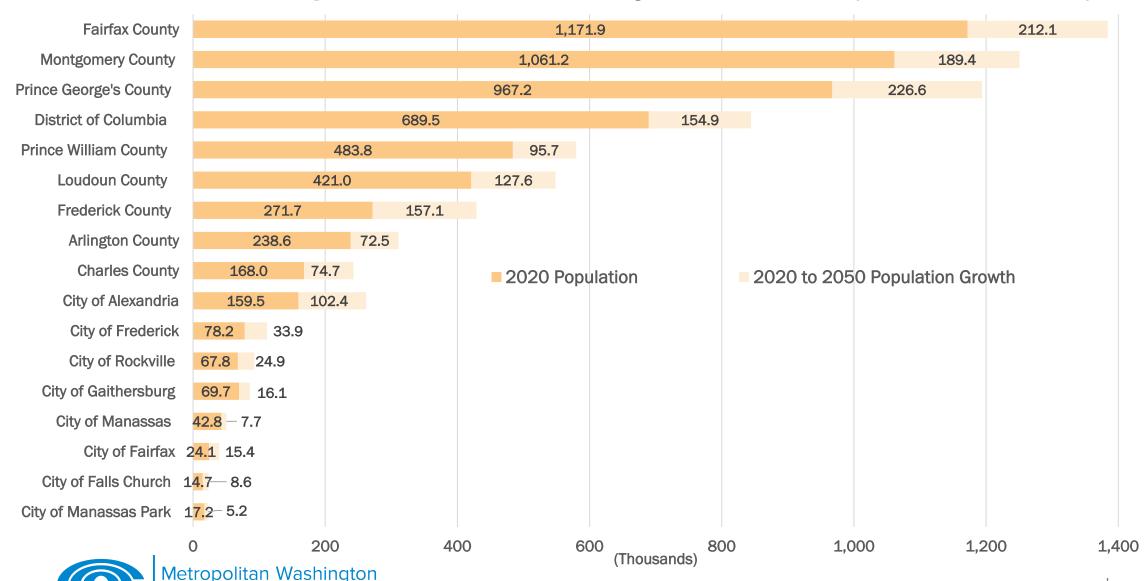


Round 10.0 Employment Forecasts by Jurisdiction (2020 to 2050)



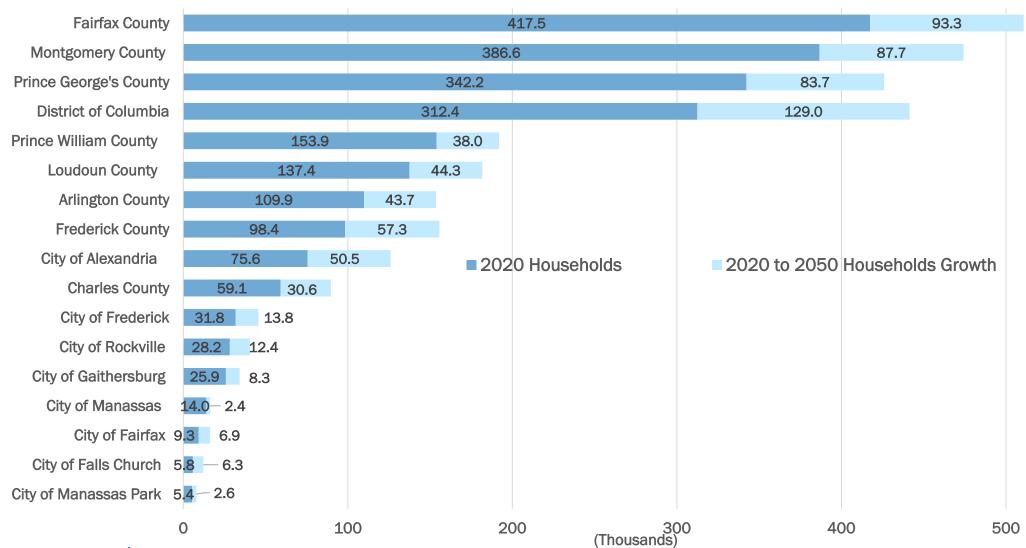


Round 10.0 Population Forecasts by Jurisdiction (2020 to 2050)



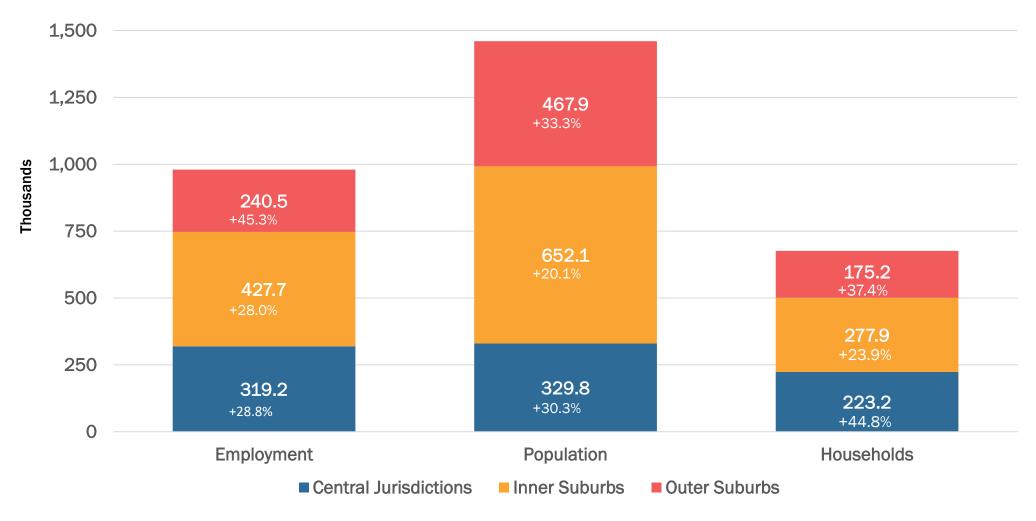
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Round 10.0 Household Forecasts by Jurisdiction (2020 to 2050)



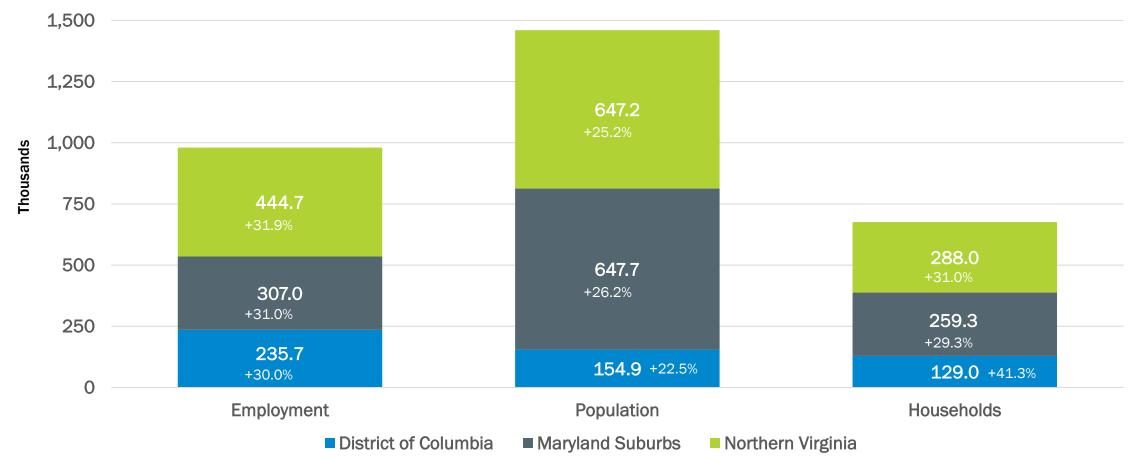


Round 10.0 Forecasts - Growth by Regional Group (2020 to 2050)





Round 10.0 Forecasts - Growth by Substate Region (2020 to 2050)





Trends in the Local Forecasts

- The District of Columbia contains the greatest number of jobs in 2020 (785,900) and anticipates the greatest increase in jobs between 2020 and 2050 (+235,700).
- Fairfax County contains the greatest number of people in 2020 (1.2 million), while Prince George's County would see the greatest increase in population between 2020 and 2050 (+226,500).
- Fairfax County contains the greatest number of households in 2020 (417,500), while the District of Columbia would see the greatest increase in households between 2020 and 2050 (+129,000).



Trends in the Local Forecasts, Continued

- The region's Inner Suburbs would, collectively, see the largest growth adding 427,700 jobs, 652,100 people, and 277,900 households.
- The Outer Suburbs would see the greatest rate of employment growth (+45.3%) and population growth (+37.4%) while the Central Jurisdictions would see the greatest rate of household growth (+44.8%).
- Northern Virginia jurisdictions would, together, see the largest growth in employment (+444,700) and households (+288,000).
- Northern Virginia and the Maryland Suburbs anticipate nearly identical growth in population, adding 647,300 and 647,700 persons, respectively. This reflects a larger assumed average household size in the Maryland jurisdictions when compared to Northern Virginia.



Next Steps

- COG/DCPS staff continues to receive TAZ data files and will be compiling the regional Round 10.0 database during July, with a public release file available later this Summer.
- COG/TPB will use the Round 10.0 Forecasts as key inputs in the regional travel demand forecasting model and in the Air Quality Conformity Analysis performed in future updates of the region's long-range transportation plan.
- DCPS, together with the Cooperative Forecasting Subcommittee and the Planning Directors, continue to monitor the region's economy and local land use changes for the potential need for future revisions to Round 10.0.



Questions?



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