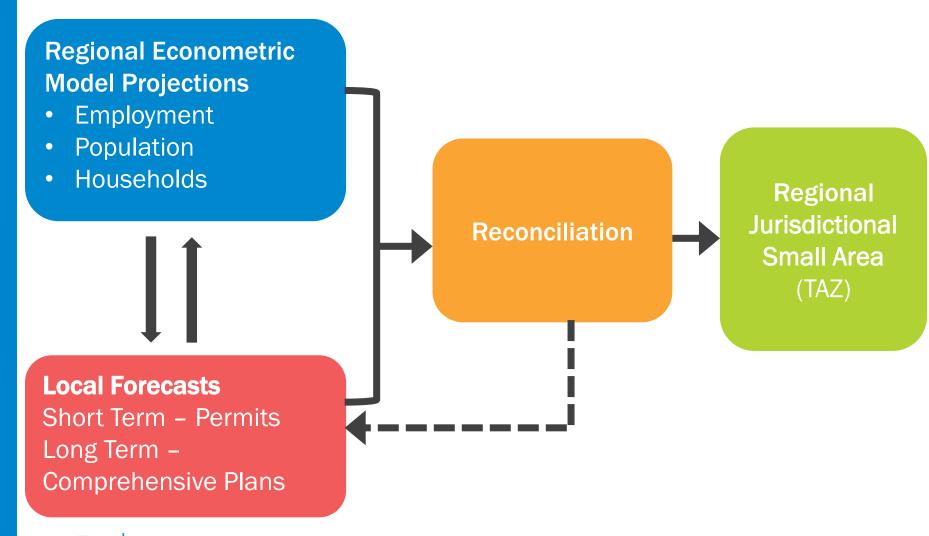
PRELIMINARY ROUND 10 ECONOMETRIC MODEL RESULTS

Greg Goodwin, Regional Planner, COG/DCPS Staff

Cooperative Forecasting and Data Subcommittee April 12, 2022



COG Cooperative Forecasting Process



S&P Global Product Description: Nonfarm Employment Forecast

Regional Econometric Model Projections

- Employment
- Population
- Households

- Historical Source: Bureau of Labor Statistics
- Thirty-Year Forecast Annual Data (2051 horizon year)
- Total Nonfarm Historical Data goes back to 1975
- Provided by NAICS sector (back to 1990)
 - Manufacturing
 - Transportation, Trade, & Utilities
 - Information
 - Financial Activities
 - Professional & Business Services
 - Educational & Health Services
 - Leisure & Hospitality
 - Services
 - Government
 - Federal Government
 - State & Local Government

Military Employment and Proprietors are not included

The S&P Global county employment has a base from the Quarterly Census of Employment and Wages (QCEW) program, but S&P Global makes an adjustment to make it consistent with the monthly Current Employment Statistics (CES), so it is a consistent definition at all levels.



S&P Global Nonfarm Employment Forecast for COG Region February 2022

			(Thousands)			
	2020	2025	2030	2035	2040	2045	2050
Construction, Natural Resources, and							
Mining	147.5	150.6	157.1	164.9	180.5	197.9	218.6
Manufacturing	47.4	49.3	48.2	47.9	48.2	48.4	48.4
Transportation, Trade, & Utilities	342.4	341.8	339.7	345.4	347.8	345.8	347.3
Information	73.0	78.9	82.1	80.7	83.3	81.6	80.5
Financial Activities	143.4	148.9	145.8	147.9	149.1	148.5	147.9
Professional & Business Services	744.6	829.8	902.5	924.9	970.9	1,004.0	1,052.5
Educational & Health Services	391.1	429.4	459.7	486.8	494.4	498.4	504.9
Leisure & Hospitality	215.2	342.8	364.0	363.3	361.1	374.9	389.4
Other Services	182.3	207.3	226.6	232.9	239.8	244.4	246.3
Government	661.3	685.8	698.6	707.2	718.9	730.3	745.5
Federal Government	362.6	368.1	369.8	366.1	366.4	366.6	370.9
State & Local Government	298.7	317.7	328.8	341.1	352.5	363.7	374.6
Total Nonfarm for COG Region	2,948.2	3,264.7	3,424.3	3,502.0	3,594.0	3,674.3	3,781.5



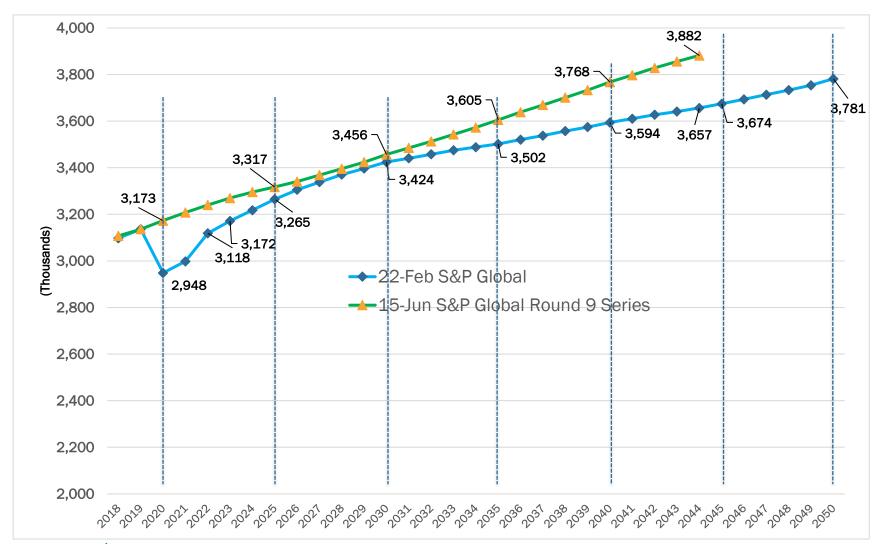
S&P Global Nonfarm Employment Forecast for the COG Region 25-Yr. Growth Rate

	(Thousands)							
	2020	2025	2030	2035	2040	2044	2045	2050
Feb-22	2,948.2	3,264.7	3,424.3	3,502.0	3,594.0	3,656.6	3,674	3,781
Jun-15	3,173.1	3,317.3	3,456.4	3,605.2	3,767.9	3,881.8	N/A	N/A
	-224.9	-52.6	-32.2	-103.2	-173.8	-225.2		

		(Thousands)								
									Absolute Change	Percent Change
	2020	2025	2030	2035	2040	2044	2045	2050	2020 - 2045	2020 - 2045
Feb-22	2,948.2	3,264.7	3,424.3	3,502.0	3,594.0	3,656.6	3,674.3	3,781.5	726.1	24.6%
Jun-15	3,173.1	3,317.3	3,456.4	3,605.2	3,767.9	3,881.8	N/A	N/A	708.7	22.3%



S&P Global - Nonfarm Employment Forecast for COG Region Comparison Feb. 2022 vs. Jun. 2015 (Thousands)





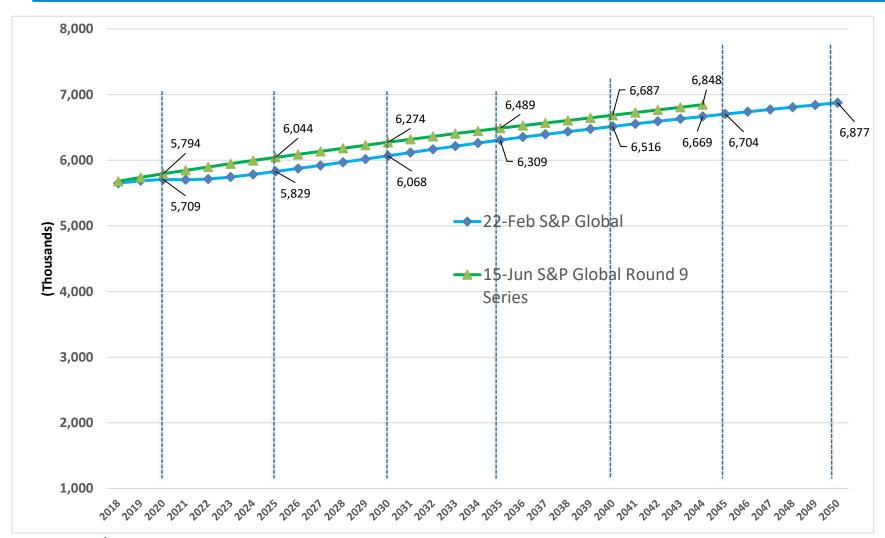
S&P Global Population Forecasts – COG Region Comparison February 2022 with June 2015

		(Thousands)							
	2020	2025	2030	2035	2040	2044	2045	2050	
Feb-22	5,708.8	5,829.1	6,067.5	6,308.9	6,516.2	6,668.5	6,704.3	6,877.2	
Jun-15	5,793.6	6,043.6	6,274.3	6,488.7	6,686.6	6,847.8	N/A	N/A	
	-84.8	-214.5	-206.7	-179.8	-170.4	-179.3			

		(Thousands)								
									Absolute	Percent
									Change 2020	Change 2020
	2020	2025	2030	2035	2040	2044	2045	2050	- 2045	- 2045
Feb-22	5,708.8	5,829.1	6,067.5	6,308.9	6,516.2	6,668.5	6,704.3	6,877.2	995.6	17.4%
Jun-15	5,793.6	6,043.6	6,274.3	6,488.7	6,686.6	6,847.8	N/A	N/A	1,054.3	18.2%



S&P Global Population Forecasts – COG Region Comparison Feb. 2022 with Jun. 2015 (Thousands)





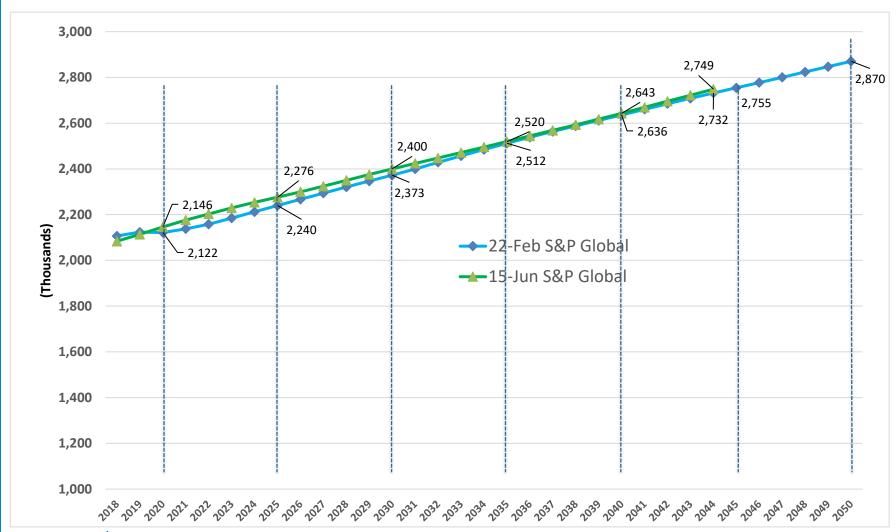
S&P Global Household Forecasts – COG Region Comparison Feb. 2022 with Jun. 2015

		(Thousands)							
	2020	2025	2030	2035	2040	2044	2045	2050	
Feb-22	2,121.9	2,239.8	2,372.6	2,512.2	2,635.8	2,731.8	2,754.6	2,870.4	
Jun-15	2,146.2	2,276.2	2,400.2	2,519.6	2,642.7	2,748.6	N/A	N/A	
	-24.3	-36.3	-27.7	-7.4	-6.8	-16.8			

		(Thousands)								
									Absolute Change	Percent Change
	2020	2025	2030	2035	2040	2044	2045	2050	2020 - 2045	2020 - 2045
Feb-22	2,121.9	2,239.8	2,372.6	2,512.2	2,635.8	2,731.8	2,754.6	2,870.4	632.7	29.8%
Jun-15	2,146.2	2,276.2	2,400.2	2,519.6	2,642.7	2,748.6	N/A	N/A	602.4	28.1%



S&P Global Household Forecasts – COG Region Comparison Feb. 2022 with Jun. 2015



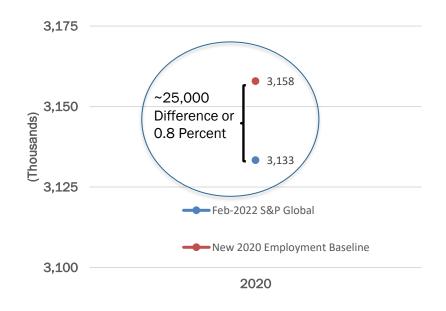
COG Employment Baseline Memo (Year 2020) Comparison S&P Global Feb. 2022 (with Self-employed and Military) – Year 2020

Jurisdiction	QCEW (Thousands)	CES Adjustment Factor	Self- Employment Adjustment Factor	Military Employment (Thousands)	Baseline Employment (Thousands)
District of Columbia	726.08	1.03	1.04	8.25	785.89
Arlington County	174.42	1.08	1.04	9.92	205.66
City of Alexandria	83.92	1.08	1.06	0.00	96.29
Montgomery County	439.26	1.04	1.07	4.29	495.71
Prince George's County	295.52	1.09	1.05	6.10	343.47
Fairfax County	591.64	1.08	1.05	4.47	676.57
City of Fairfax	18.02	1.08	1.05	0.00	20.48
City of Falls Church	10.90	1.08	1.05	0.00	12.38
Loudoun County	165.17	1.08	1.06	0.00	190.23
Prince William County	125.25	1.08	1.07	3.23	147.92
City of Manassas	22.41	1.08	1.07	0.00	25.89
City of Manassas Park	3.74	1.08	1.07	0.00	4.32
Charles County	38.44	1.09	1.04	0.55	43.87
Frederick County	96.98	1.04	1.07	0.95	109.25
Region	2,791.75	1.06	1.05	37.76	3,157.92



COG Employment Baseline Memo (Year 2020) Comparison S&P Global Feb. 2022 (with Self-Employed and Military) – Year 2020

	Baseline Employment
Jurisdiction	2020
District of Columbia	785.89
Arlington County	205.66
City of Alexandria	96.29
Montgomery County	495.71
Prince George's County	343.47
Fairfax County	676.57
City of Fairfax	20.48
City of Falls Church	12.38
Loudoun County	190.23
Prince William County	147.92
City of Manassas	25.89
City of Manassas Park	4.32
Charles County	43.87
Frederick County	109.25
Region	3,157.92





Next Steps in the Regional Econometric Model Forecast

- Round 10 Cooperative Forecast Technical Assistance
 Consultant will develop a "Range" of Regional
 Economic Model Forecasts (June and July)
- COG staff will reassess with the next available release in June.
- Final Econometric Model Summer 2022



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