

**ITEM 13 – Information**  
March 16, 2016

Briefing on the COG Cooperative Forecasting Process

**Staff**

**Recommendation:** Receive briefing

**Issues:** None

**Background:** At the March 9 meeting, the board approved the Draft Round 9.0 Cooperative Forecasts for use by the TPB in the Air Quality Conformity Analysis of the 2016 CLRP Amendment and FY 2017-2022 TIP. At the March 16 meeting, the board will be briefed on the COG Cooperative Forecasting Process and the Round 9.0 Forecasts of future population, household and employment growth in the region.



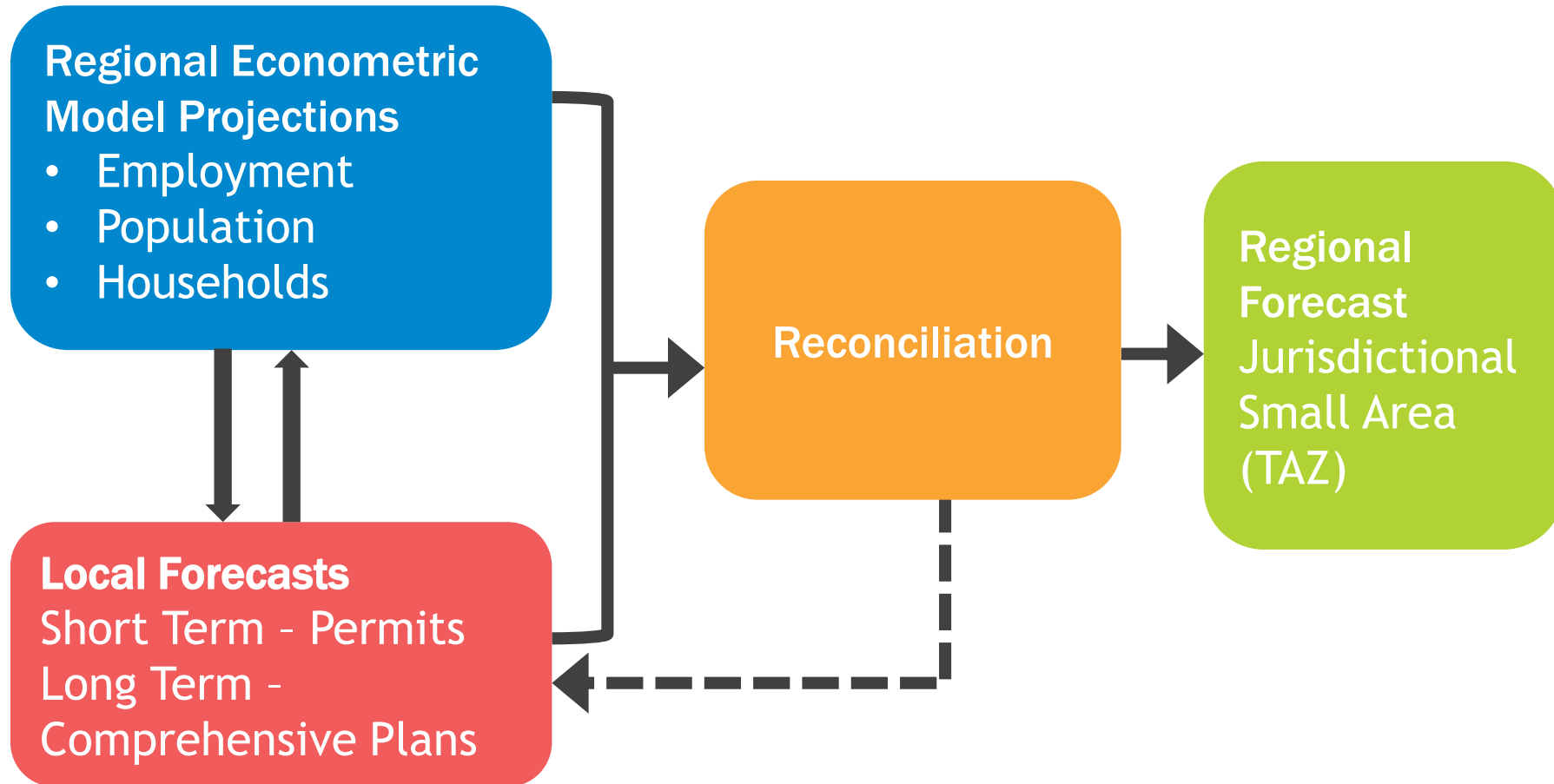
# ROUND 9.0 COOPERATIVE FORECASTS OF FUTURE GROWTH

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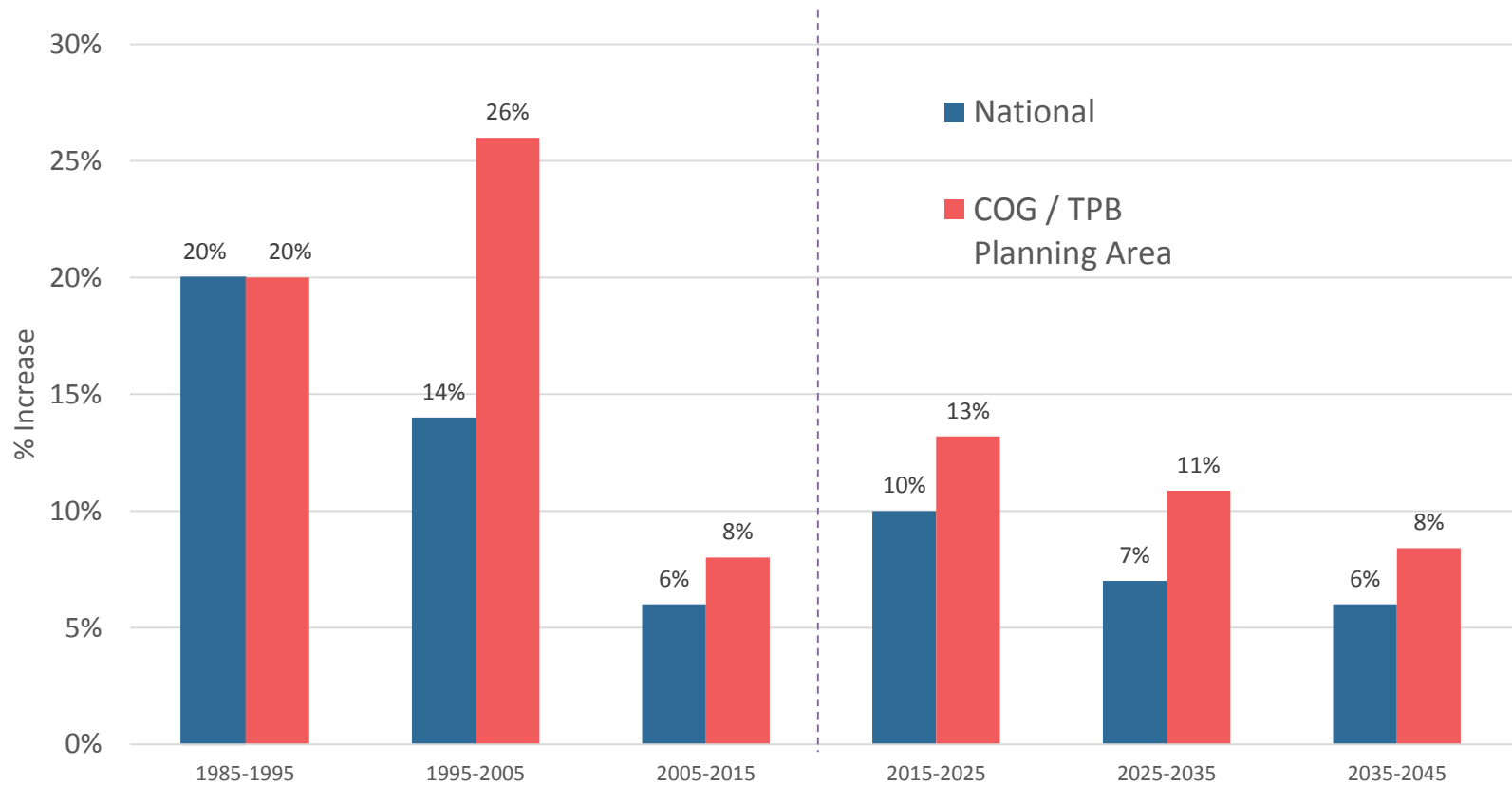
Paul DesJardin  
COG Director of Community Planning and Services

National Capital Region Transportation Planning Board  
March 16, 2016

# Cooperative Forecasting Process



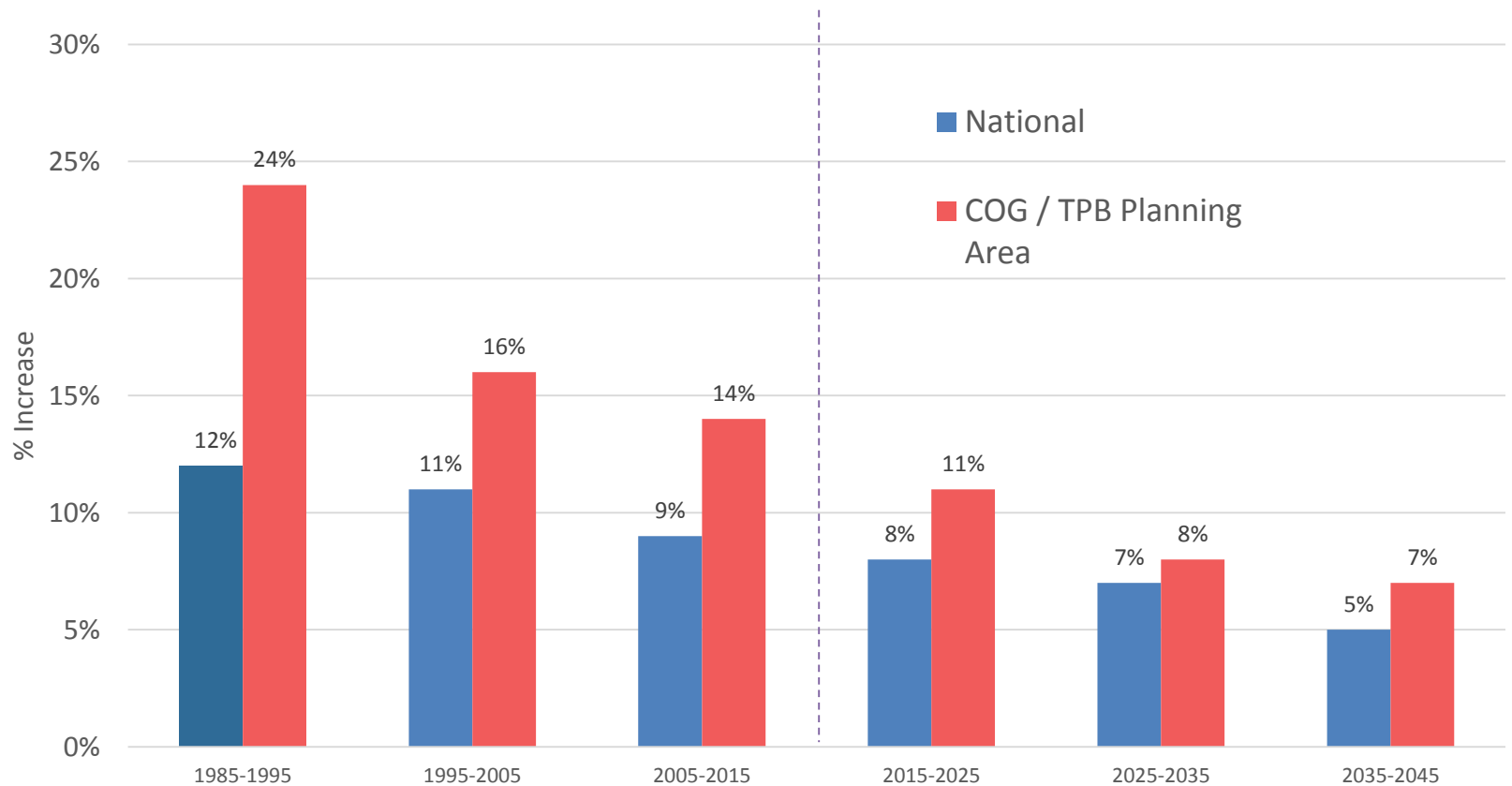
# Employment Change by 10-Year Increments National vs. COG / TPB Planning Area



Draft Round 9.0 Cooperative Forecasts



# Population Change by 10-Year Increments National vs. COG / TPB Planning Area

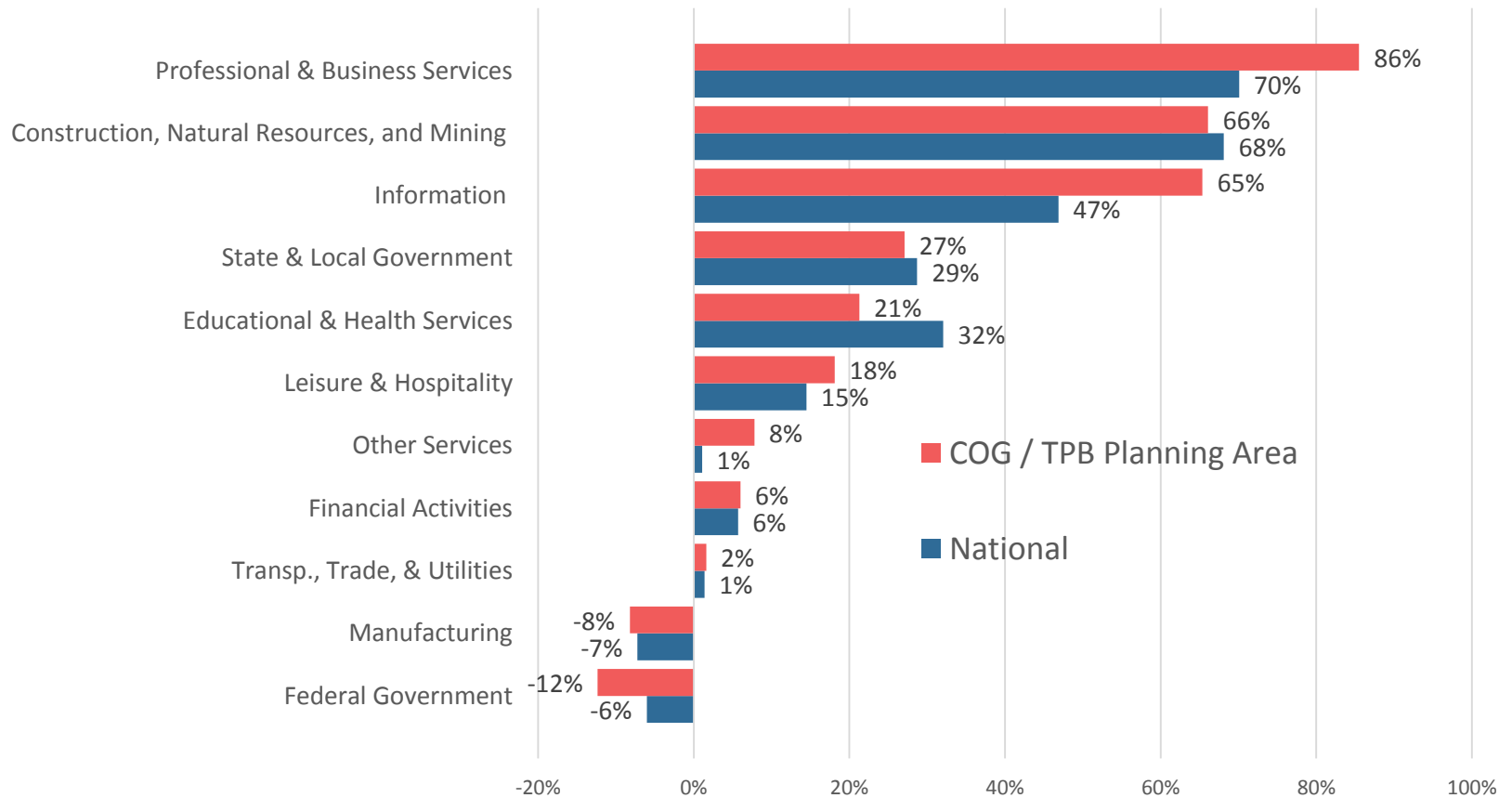


Draft Round 9.0 Cooperative Forecasts



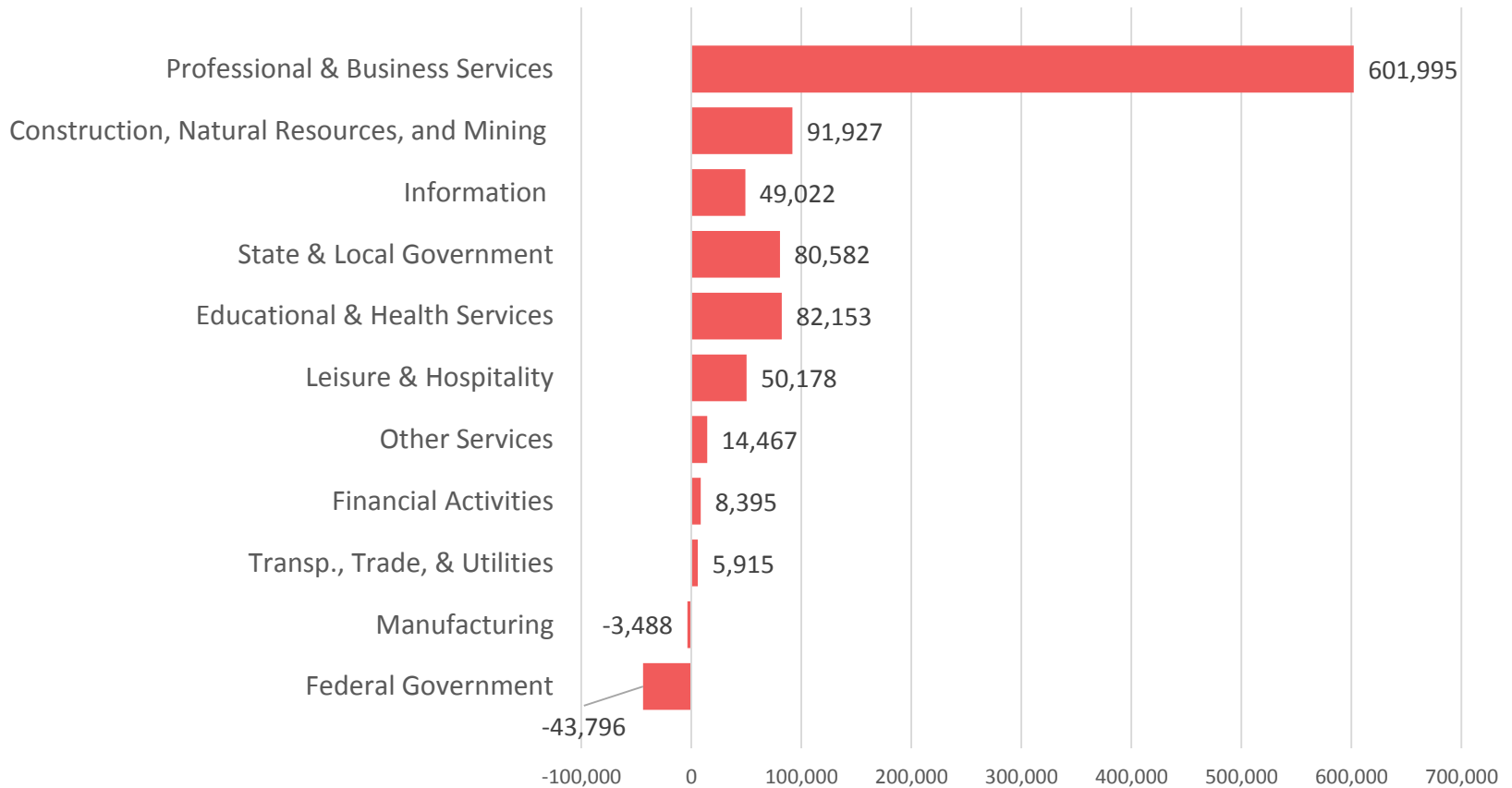
# Employment Change by Sector 2015–2045

## National vs. COG / TPB Planning Area



# Employment Change by Sector 2015 – 2045

## COG / TPB Planning Area





# Summary of Round 9.0 Cooperative Forecasts

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## COG / TPB Planning Area (Thousands)

	2015	2045	2015 to 2045	
			Number	Percent
Employment	3,149.9	4,285.7	1,136	36%
Population	5,388.7	6,905.1	1,516	28%
Households	2,008.3	2,646.0	638	32%



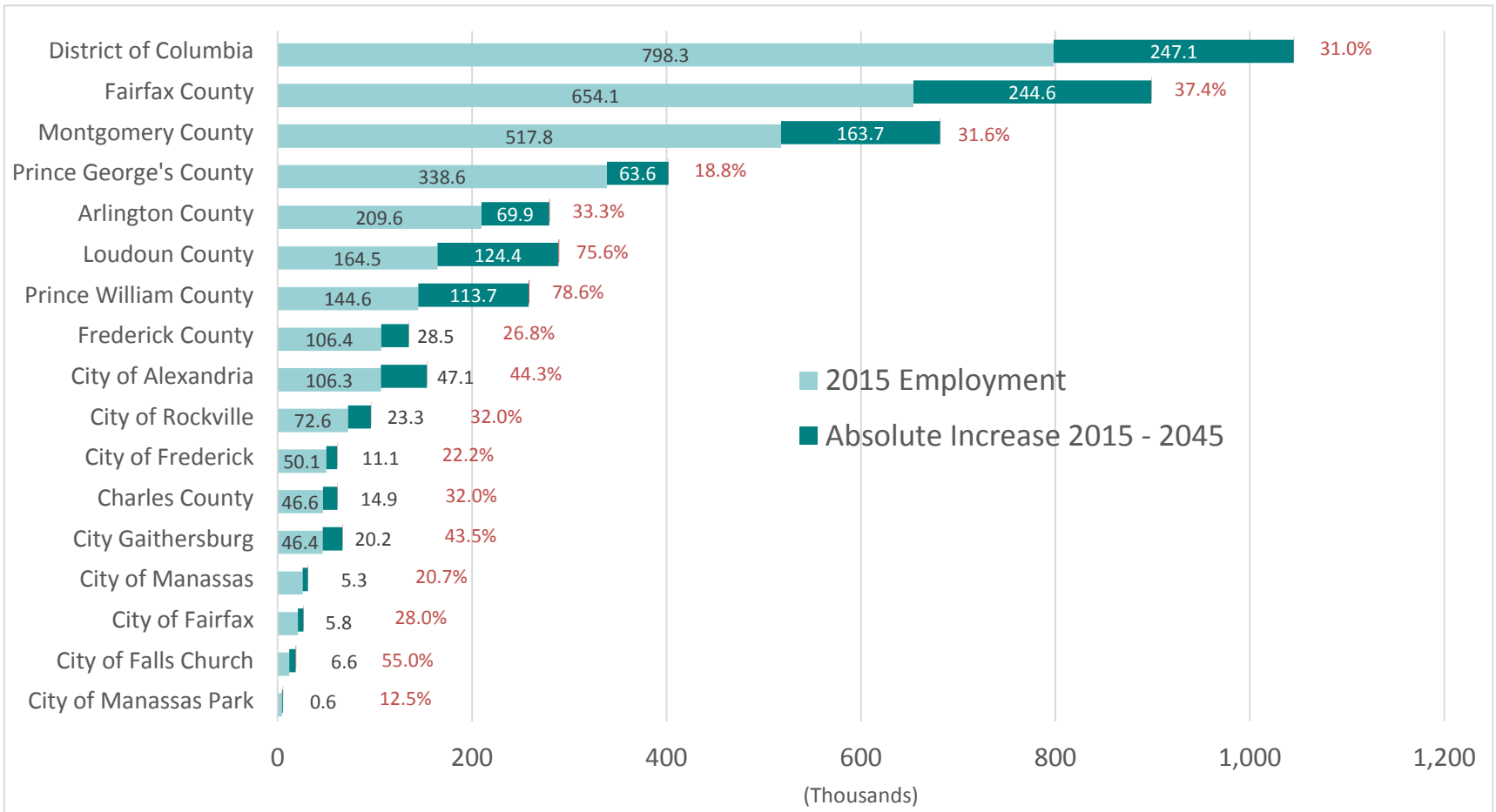
# Change in 2040 Forecast from Round 8.4

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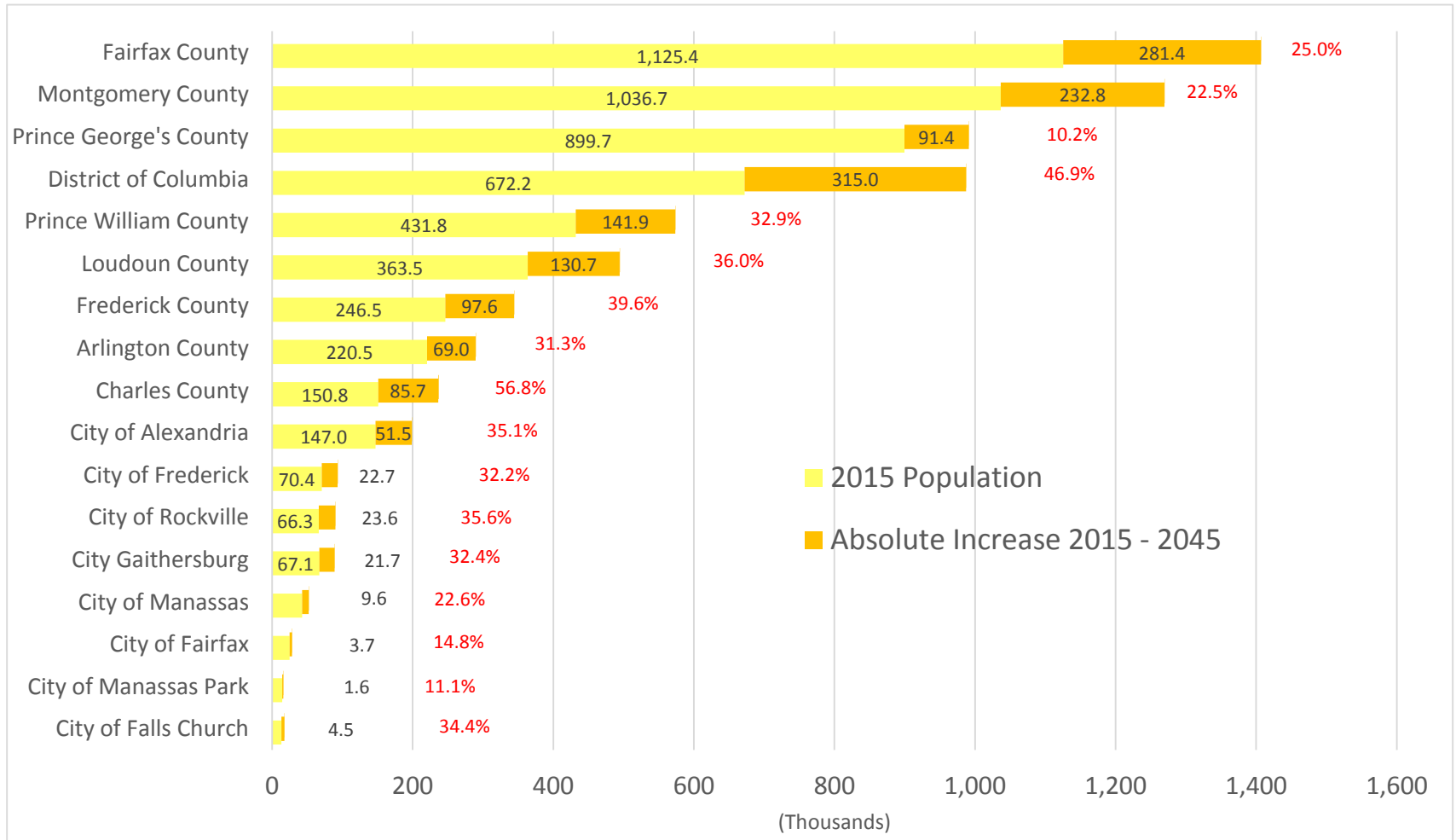
## COG / TPB Planning Area (Thousands)

	Round 8.4	Round 9.0	Number	Percent
Employment	4,370.8	4,130.4	-240	-6%
Population	6,619.2	6,698.7	80	1%
Households	2,546.6	2,562.9	16	1%

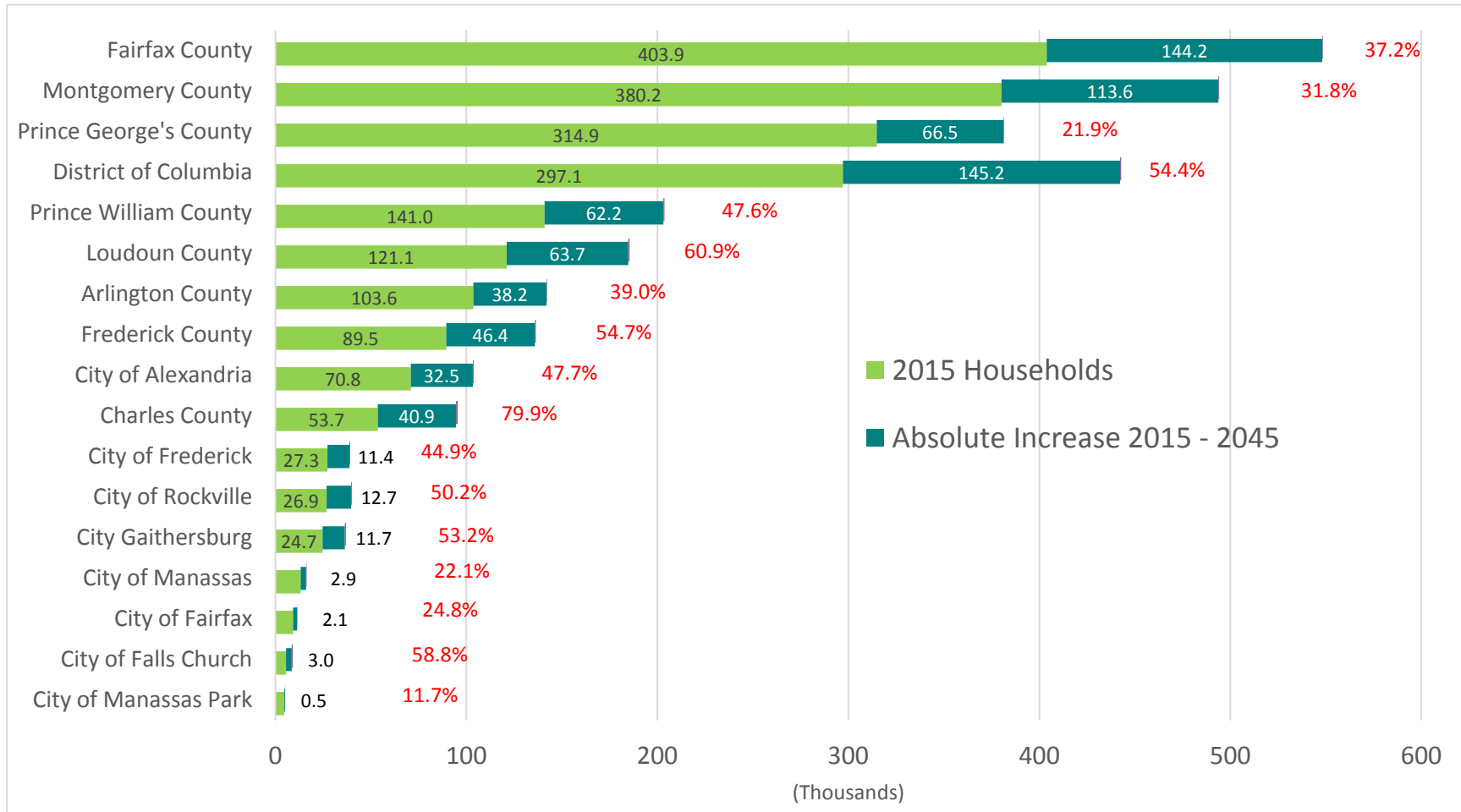
# Employment 2015 - 2045



# Population 2015 - 2045



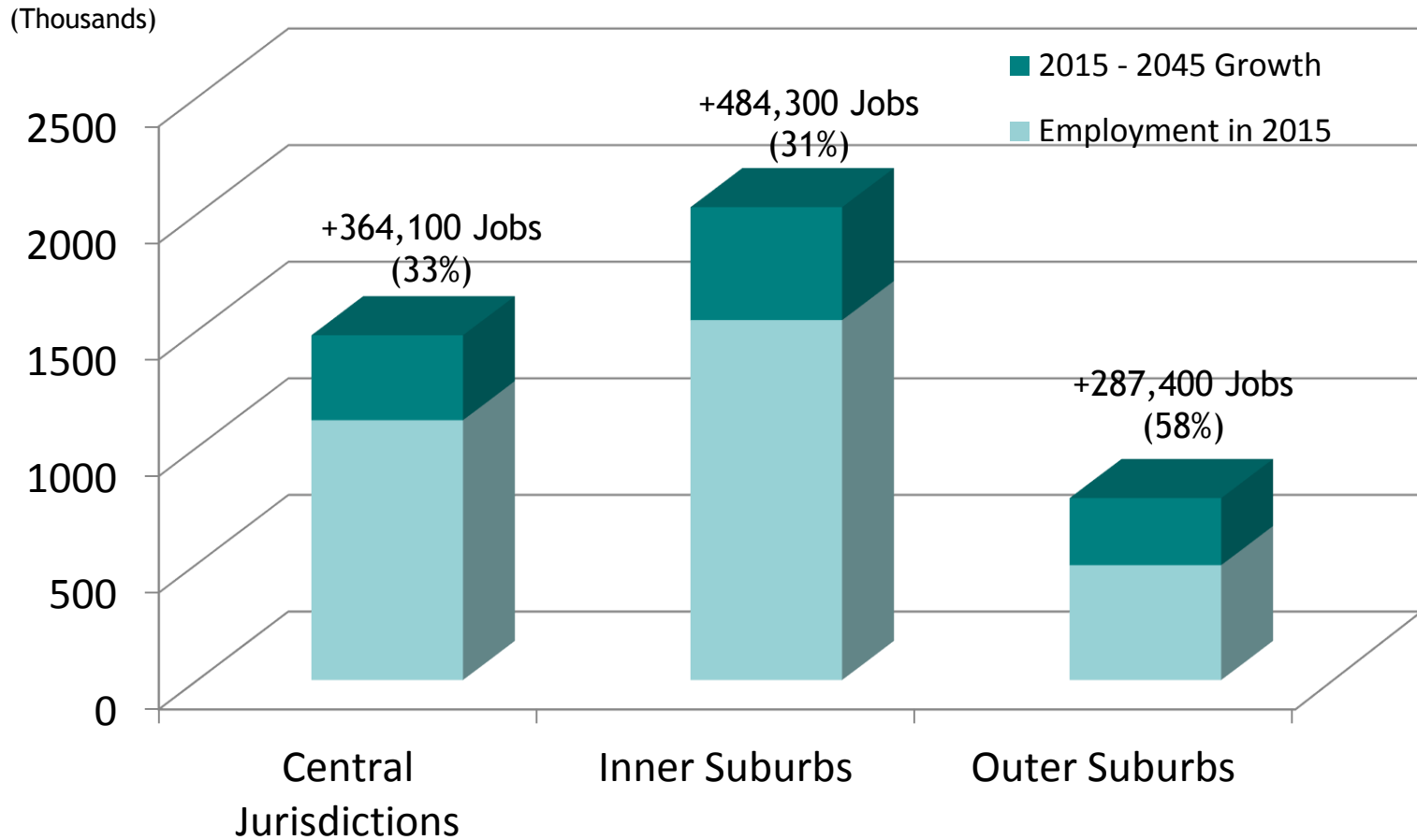
# Households 2015 - 2045



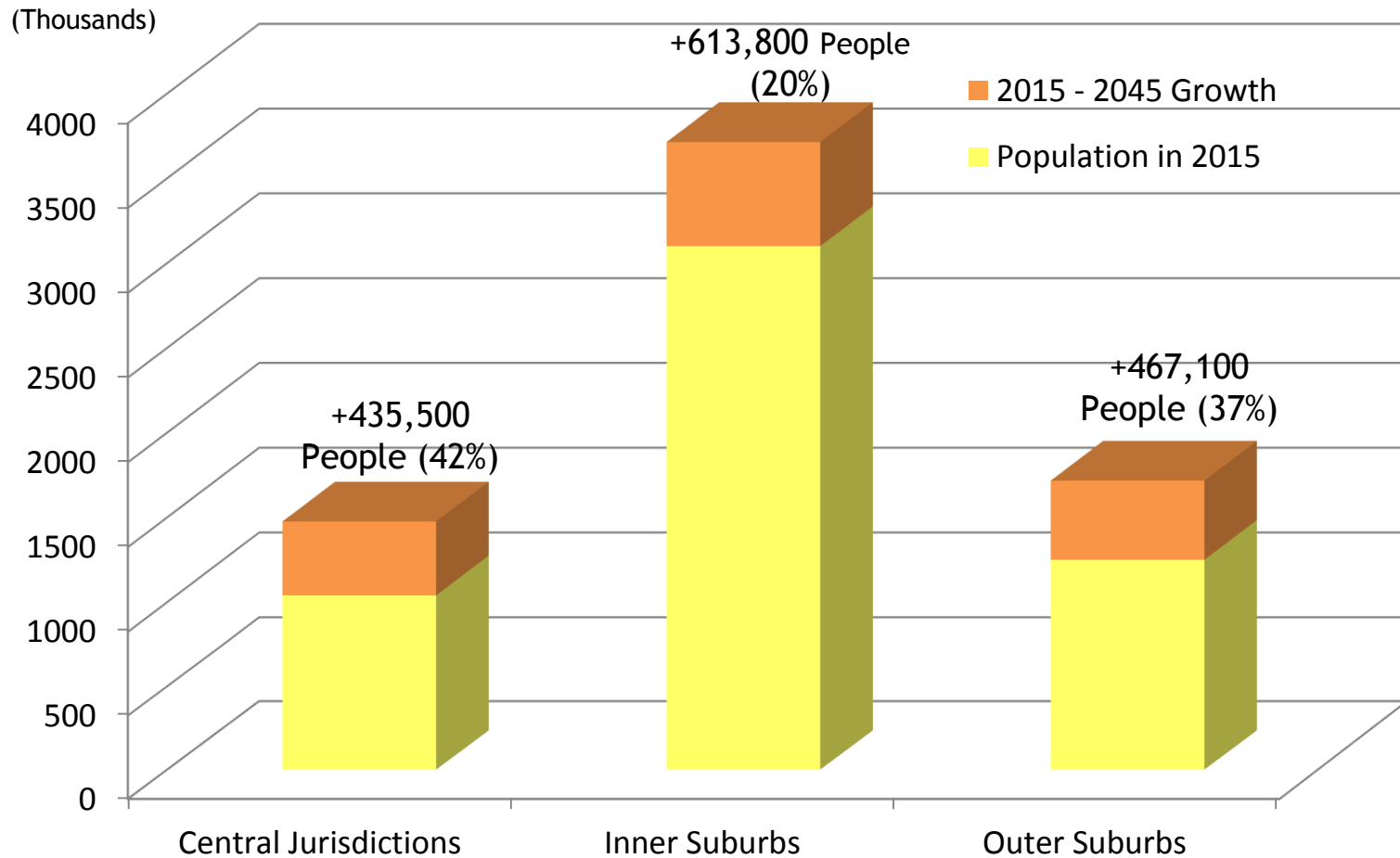
# Forecasts for Jurisdictions in COG / TPB Planning Area Grouped Geographically for Analysis Purposes

Central Jurisdictions	Inner Suburbs	Outer Suburbs
<ul style="list-style-type: none"> <li>• District of Columbia</li> <li>• Arlington</li> <li>• Alexandria</li> </ul>	<ul style="list-style-type: none"> <li>• Montgomery</li> <li>• Prince George's</li> <li>• Fairfax County</li> <li>• Fairfax</li> <li>• Falls Church</li> </ul>	<ul style="list-style-type: none"> <li>• Loudoun</li> <li>• Prince William</li> <li>• Manassas</li> <li>• Manassas Park</li> <li>• Charles</li> <li>• Frederick County MD</li> </ul>

# Forecast Employment Growth, 2015 - 2045

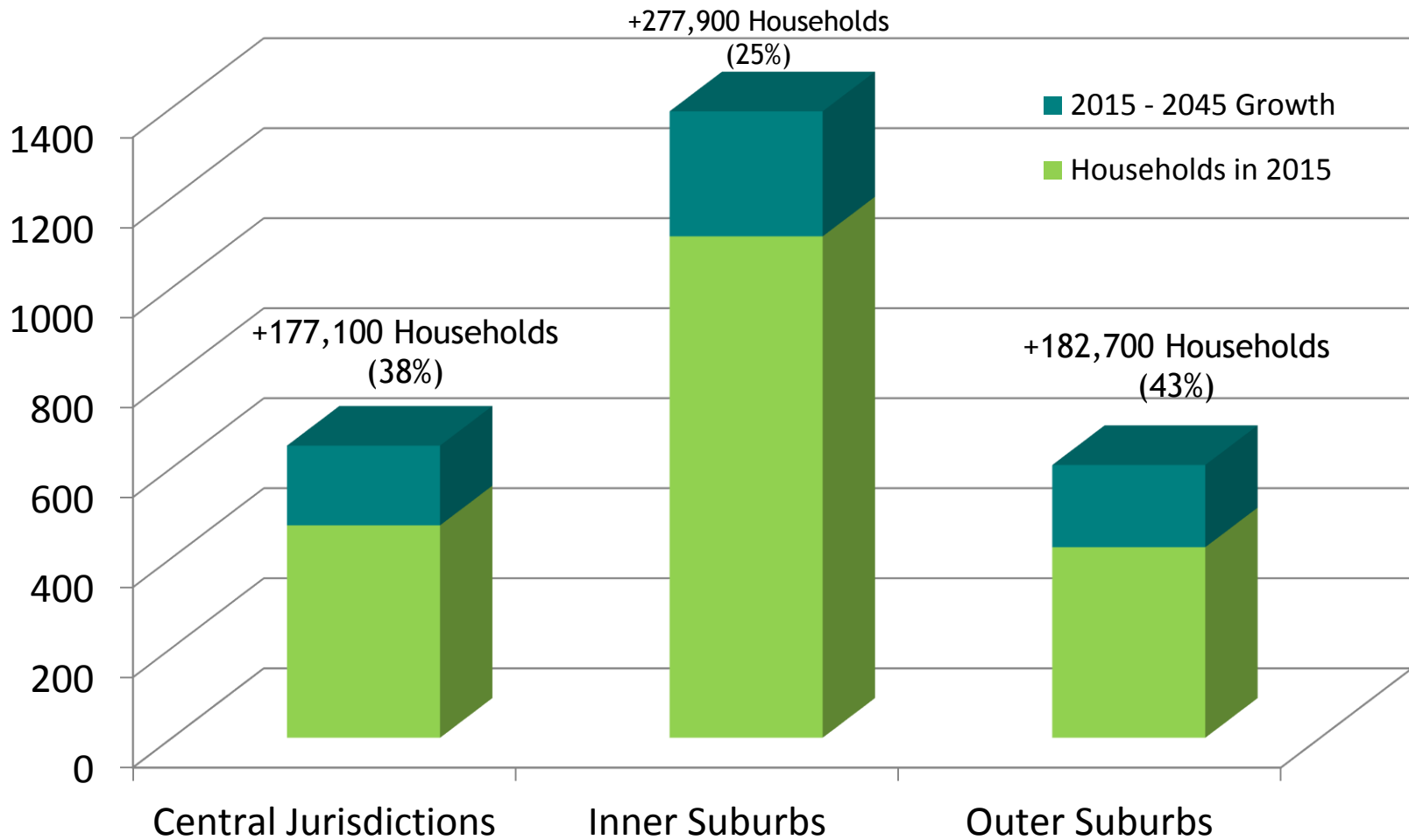


# Forecast Population Growth, 2015 - 2045





# Forecast Household Growth, 2015 - 2045



# About COG

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- COG Board to approve “Draft Round 9.0” for use in the Air Quality Conformity Analysis of the 2016 Update to the Financially Constrained Long-Range Transportation Plan (CLRP) and the FY 2017-2022 Transportation Improvement Program (TIP) on March 9
- Local jurisdictions submit Round 9.0 forecasts by Transportation Analysis Zone (TAZ) by March 11, 2016
- Final approval and adoption by the COG Board in November 2016

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Metropolitan Washington  
Council of Governments



**Summary of Intermediate Employment Forecasts**  
**Draft Round 9.0 Cooperative Forecasts**  
**(Thousands)**

**DRAFT COG Board of  
Directors 3/9/16**

JURISDICTION	2015	2020	2025	2030	2035	2040	2045	2015 to 2045	
								Number	% Change
District of Columbia	798.3	846.3	895.1	937.8	978.2	1,011.8	1,045.4	247.1	31.0%
Arlington County	209.6	213.2	225.2	242.1	255.7	267.6	279.5	69.9	33.3%
City of Alexandria	106.3	114.6	127.9	134.6	141.5	149.2	153.4	47.1	44.3%
<b>Central Jurisdictions</b>	<b>1,114.2</b>	<b>1,174.1</b>	<b>1,248.2</b>	<b>1,314.5</b>	<b>1,375.4</b>	<b>1,428.6</b>	<b>1,478.3</b>	<b>364.1</b>	<b>32.7%</b>
Montgomery County	517.8	541.7	570.4	603.6	629.3	657.4	681.5	163.7	31.6%
City of Rockville (1)	72.6	73.7	76.1	78.5	84.2	90.7	95.8	23.3	32.0%
City of Gaithersburg (1)	46.4	48.1	49.9	53.4	57.8	62.2	66.6	20.2	43.5%
Prince George's County	338.6	349.0	366.3	375.7	385.5	393.3	402.1	63.6	18.8%
Fairfax County (2)	654.1	702.6	750.0	791.2	828.4	865.1	898.7	244.6	37.4%
City of Fairfax	20.8	21.9	22.8	23.7	24.6	25.6	26.6	5.8	28.0%
City of Falls Church	12.0	14.3	16.2	17.6	18.0	18.3	18.6	6.6	55.0%
<b>Inner Suburbs</b>	<b>1,543.2</b>	<b>1,629.5</b>	<b>1,725.7</b>	<b>1,811.8</b>	<b>1,885.8</b>	<b>1,959.7</b>	<b>2,027.5</b>	<b>484.3</b>	<b>31.4%</b>
Loudoun County	164.5	188.1	210.1	234.0	254.2	272.9	288.9	124.4	75.6%
Prince William County	144.6	165.0	184.4	204.6	223.1	245.1	258.3	113.7	78.6%
City of Manassas	25.7	26.9	28.3	28.8	29.6	30.3	31.0	5.3	20.7%
City of Manassas Park	4.6	4.7	4.8	4.9	5.0	5.1	5.2	0.6	12.5%
Charles County	46.6	47.0	49.2	52.2	55.4	58.8	61.5	14.9	32.0%
Frederick County	106.4	110.6	115.0	120.0	124.9	129.9	135.0	28.5	26.8%
City of Frederick (3)	50.1	51.8	53.5	55.4	57.3	59.2	61.2	11.1	22.2%
<b>Outer Suburbs</b>	<b>492.5</b>	<b>542.3</b>	<b>591.9</b>	<b>644.5</b>	<b>692.2</b>	<b>742.1</b>	<b>779.9</b>	<b>287.4</b>	<b>58.4%</b>
<b>COG / TPB PLANNING AREA</b>	<b>3,149.9</b>	<b>3,345.9</b>	<b>3,565.8</b>	<b>3,770.9</b>	<b>3,953.4</b>	<b>4,130.4</b>	<b>4,285.7</b>	<b>1,135.8</b>	<b>36.1%</b>

(1) Included in Montgomery County total.

(2) Forecasts for all years include Fairfax County Government employees working at the Fairfax County Public Safety Center.

(3) Included in Frederick County total.

**Summary of Intermediate Population Forecasts**  
**Draft Round 9.0 Cooperative Forecasts**  
**(Thousands)**

**DRAFT COG Board of  
Directors 3/9/16**

JURISDICTION	2015	2020	2025	2030	2035	2040	2045	2015 to 2045	
								Number	% Change
District of Columbia	672.2	729.5	787.1	842.2	893.9	940.7	987.2	315.0	46.9%
Arlington County	220.5	232.7	244.8	256.0	266.3	278.1	289.5	69.0	31.3%
City of Alexandria	147.0	163.3	171.1	177.0	184.7	194.6	198.5	51.5	35.1%
<b>Central Jurisdictions</b>	<b>1,039.7</b>	<b>1,125.5</b>	<b>1,203.0</b>	<b>1,275.2</b>	<b>1,344.9</b>	<b>1,413.3</b>	<b>1,475.2</b>	<b>435.5</b>	<b>41.9%</b>
Montgomery County	1,036.7	1,073.0	1,112.0	1,153.0	1,195.0	1,234.0	1,269.5	232.8	22.5%
City of Rockville (1)	66.3	71.5	76.9	80.4	83.6	86.8	89.9	23.6	35.6%
City of Gaithersburg (1)	67.1	71.6	75.6	79.0	82.4	85.8	88.8	21.7	32.4%
Prince George's County	899.7	918.4	933.3	948.2	963.1	977.7	991.2	91.4	10.2%
Fairfax County (2)	1,125.4	1,162.5	1,213.2	1,264.7	1,314.3	1,362.5	1,406.7	281.4	25.0%
City of Fairfax	24.7	26.0	26.4	26.9	27.4	27.9	28.3	3.7	14.8%
City of Falls Church	13.1	14.2	15.5	16.4	17.0	17.3	17.6	4.5	34.4%
<b>Inner Suburbs</b>	<b>3,099.6</b>	<b>3,194.1</b>	<b>3,300.4</b>	<b>3,409.2</b>	<b>3,516.8</b>	<b>3,619.3</b>	<b>3,713.3</b>	<b>613.8</b>	<b>19.8%</b>
Loudoun County	363.5	412.5	448.0	466.6	481.1	489.2	494.2	130.7	36.0%
Prince William County	431.8	465.5	497.5	522.1	542.7	559.7	573.7	141.9	32.9%
City of Manassas	42.5	43.8	45.5	47.4	49.0	50.5	52.1	9.6	22.6%
City of Manassas Park	14.3	15.9	15.9	15.9	15.9	15.9	15.9	1.6	11.1%
Charles County	150.8	167.0	178.2	194.7	207.5	218.6	236.5	85.7	56.8%
Frederick County	246.5	267.8	288.7	303.6	319.4	332.2	344.1	97.6	39.6%
City of Frederick (3)	70.4	79.4	87.0	89.6	91.1	92.8	93.1	22.7	32.2%
<b>Outer Suburbs</b>	<b>1,249.3</b>	<b>1,372.4</b>	<b>1,473.8</b>	<b>1,550.3</b>	<b>1,615.5</b>	<b>1,666.0</b>	<b>1,716.5</b>	<b>467.1</b>	<b>37.4%</b>
<b>COG / TPB PLANNING AREA</b>	<b>5,388.7</b>	<b>5,692.1</b>	<b>5,977.2</b>	<b>6,234.7</b>	<b>6,477.2</b>	<b>6,698.7</b>	<b>6,905.1</b>	<b>1,516.4</b>	<b>28.1%</b>

(1) Included in Montgomery County total.

(2) COG staff produced the 2010 base year to be consistent with the Fairfax County's model for the 2011 - 2041 forecasting period.

(4) Included in Frederick County total.

**Summary of Intermediate Household Forecasts**  
**Draft Round 9.0 Cooperative Forecasts**  
**(Thousands)**

**DRAFT COG Board of  
Directors 3/9/16**

JURISDICTION	2015	2020	2025	2030	2035	2040	2045	2015 to 2045	
								Number	% Change
District of Columbia	297.1	319.3	341.0	362.5	380.6	396.2	411.9	114.8	38.6%
Arlington County	103.6	109.3	115.2	120.7	125.8	131.1	136.3	32.6	31.5%
City of Alexandria	70.8	77.5	81.7	85.5	90.2	96.6	100.6	29.7	42.0%
<b>Central Jurisdictions</b>	<b>471.6</b>	<b>506.1</b>	<b>538.0</b>	<b>568.7</b>	<b>596.7</b>	<b>624.0</b>	<b>648.7</b>	<b>177.1</b>	<b>37.6%</b>
Montgomery County	380.2	396.8	414.3	431.3	447.0	459.7	470.7	90.5	23.8%
City of Rockville (1)	26.9	29.4	31.9	33.6	35.1	36.5	37.9	11.0	40.8%
City of Gaithersburg (1)	24.7	26.4	27.9	29.5	31.0	32.5	33.7	9.1	36.8%
Prince George's County	314.9	328.0	337.6	349.2	357.0	363.8	370.5	55.6	17.7%
Fairfax County (2)	403.9	421.2	444.5	467.8	490.2	511.9	531.8	127.9	31.7%
City of Fairfax	9.2	9.7	9.9	10.0	10.2	10.3	10.5	1.3	13.8%
City of Falls Church	5.5	6.2	6.9	7.4	7.7	7.9	8.1	2.6	47.3%
<b>Inner Suburbs</b>	<b>1,113.7</b>	<b>1,161.9</b>	<b>1,213.2</b>	<b>1,265.7</b>	<b>1,312.1</b>	<b>1,353.6</b>	<b>1,391.7</b>	<b>277.9</b>	<b>25.0%</b>
Loudoun County	121.1	137.1	149.7	157.2	163.4	166.7	168.3	47.2	39.0%
Prince William County	141.0	151.8	164.4	173.8	181.6	188.0	193.0	52.0	36.9%
City of Manassas	13.2	13.8	14.6	15.0	15.3	15.6	15.9	2.7	20.6%
City of Manassas Park	4.5	5.0	5.0	5.0	5.0	5.0	5.0	0.5	11.7%
Charles County	53.7	60.3	65.5	72.9	78.6	83.4	92.2	38.5	71.8%
Frederick County	89.5	99.0	107.9	115.1	121.1	126.5	131.2	41.7	46.6%
City of Frederick (3)	27.3	30.9	34.1	35.2	35.9	36.6	36.7	9.5	34.8%
<b>Outer Suburbs</b>	<b>422.9</b>	<b>467.0</b>	<b>507.2</b>	<b>539.0</b>	<b>565.1</b>	<b>585.3</b>	<b>605.6</b>	<b>182.7</b>	<b>43.2%</b>
<b>COG / TPB PLANNING AREA</b>	<b>2,008.3</b>	<b>2,135.1</b>	<b>2,258.3</b>	<b>2,373.5</b>	<b>2,473.8</b>	<b>2,562.9</b>	<b>2,646.0</b>	<b>637.7</b>	<b>31.8%</b>

(1) Included in Montgomery County total.

(2) COG staff produced the 2010 base year to be consistent with the Fairfax County's model for the 2011 - 2041 forecasting period.

(3) Included in Frederick County total.