



Round 9 Forecasts

Aggregate to Disaggregate Household/Person Rosters

June 20, 2018



Round9 Forecasts – Small Area

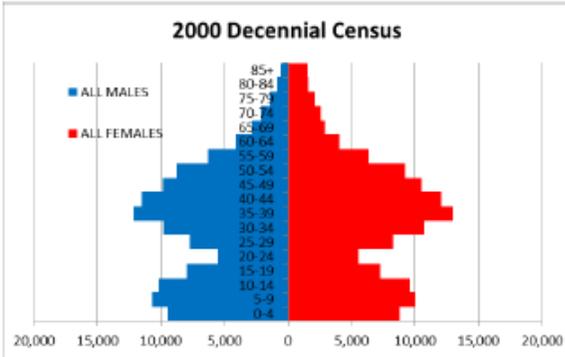
- **Cooperative Forecast Variables**
 - Total Population
 - Group Quarter Population
 - Households
 - Employment
- **PCensus**
 - Household Civilian Labor Force Ratio
 - Median Household Income
- **pOPTICS**
 - Sex (2) by Age Group (18)
 - Jurisdiction Household Civilian Labor Force

pOPTICS Age/Sex

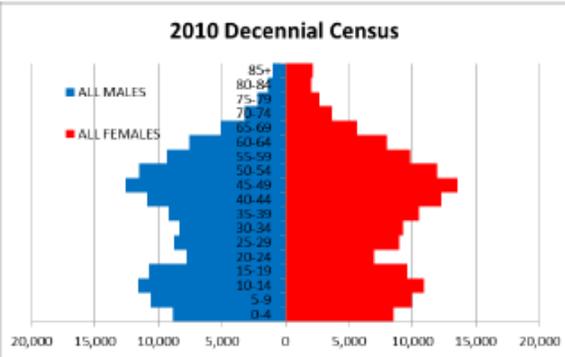
Howard County

pOPTICS – (March, 2018)

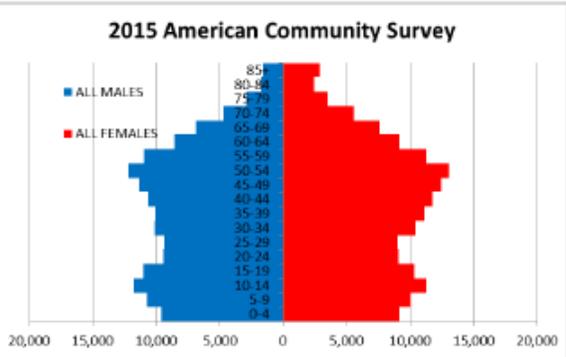
Round 9 247,842



287,085



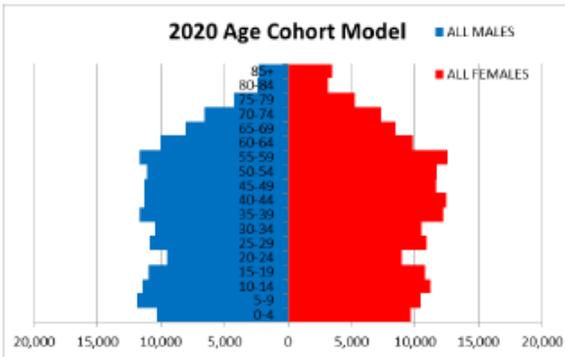
313,359



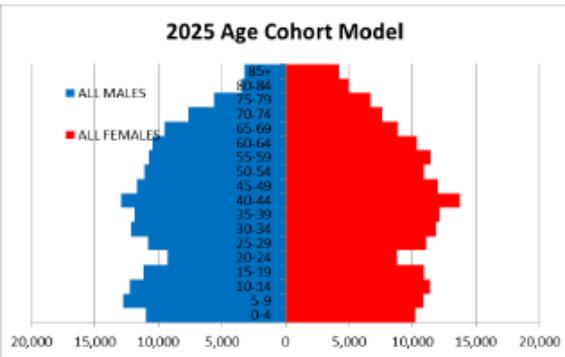
Howard County

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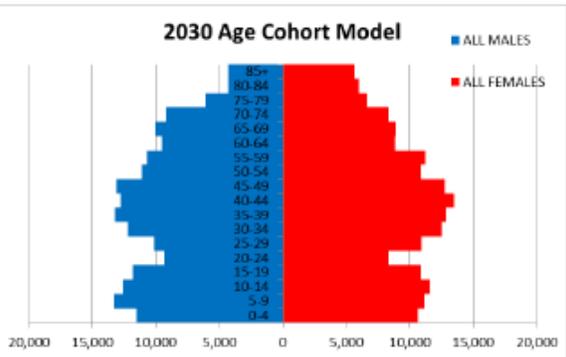
Round 9 336,920



355,696

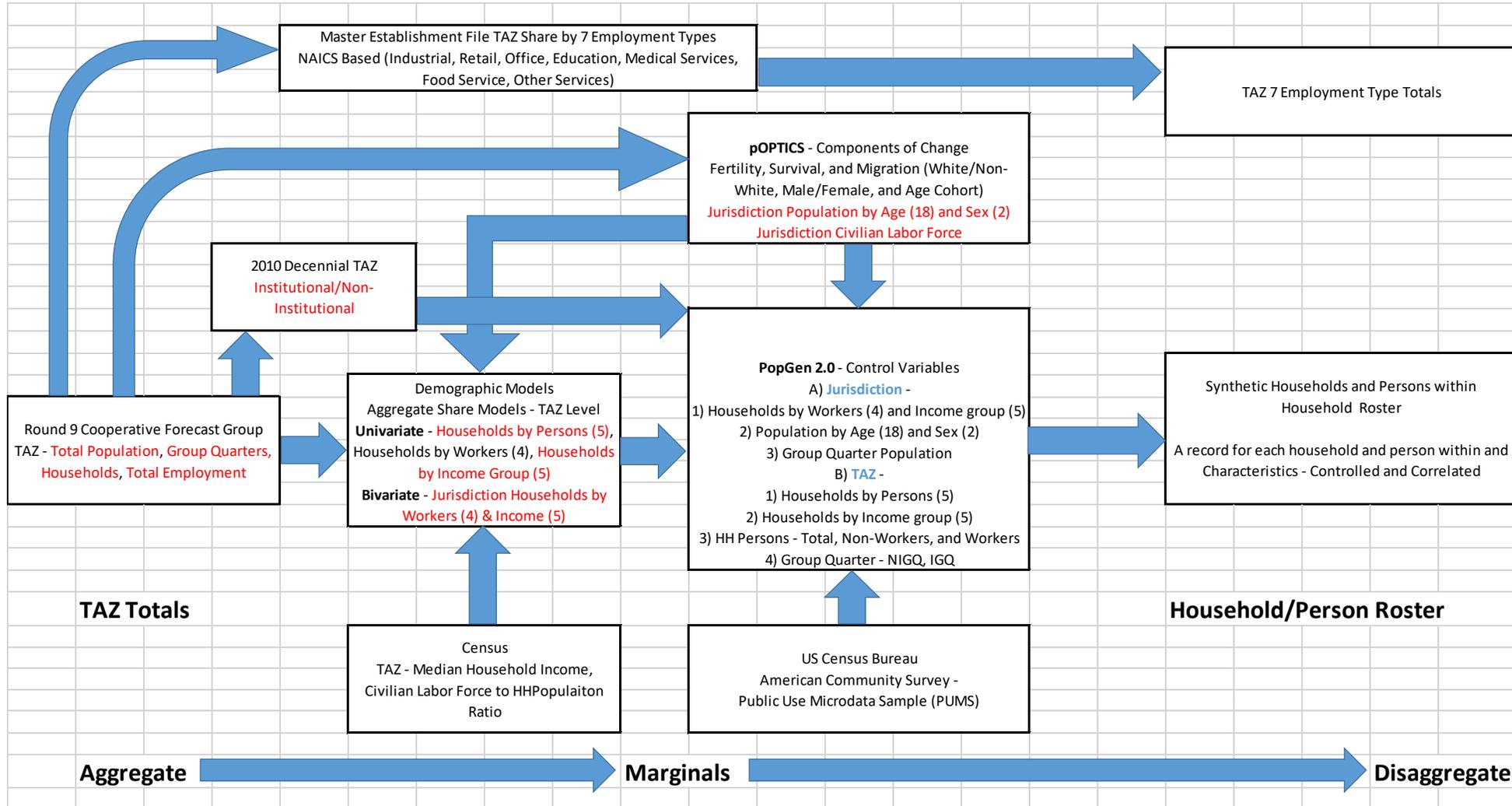


366,818



Thursday, April 12, 2018

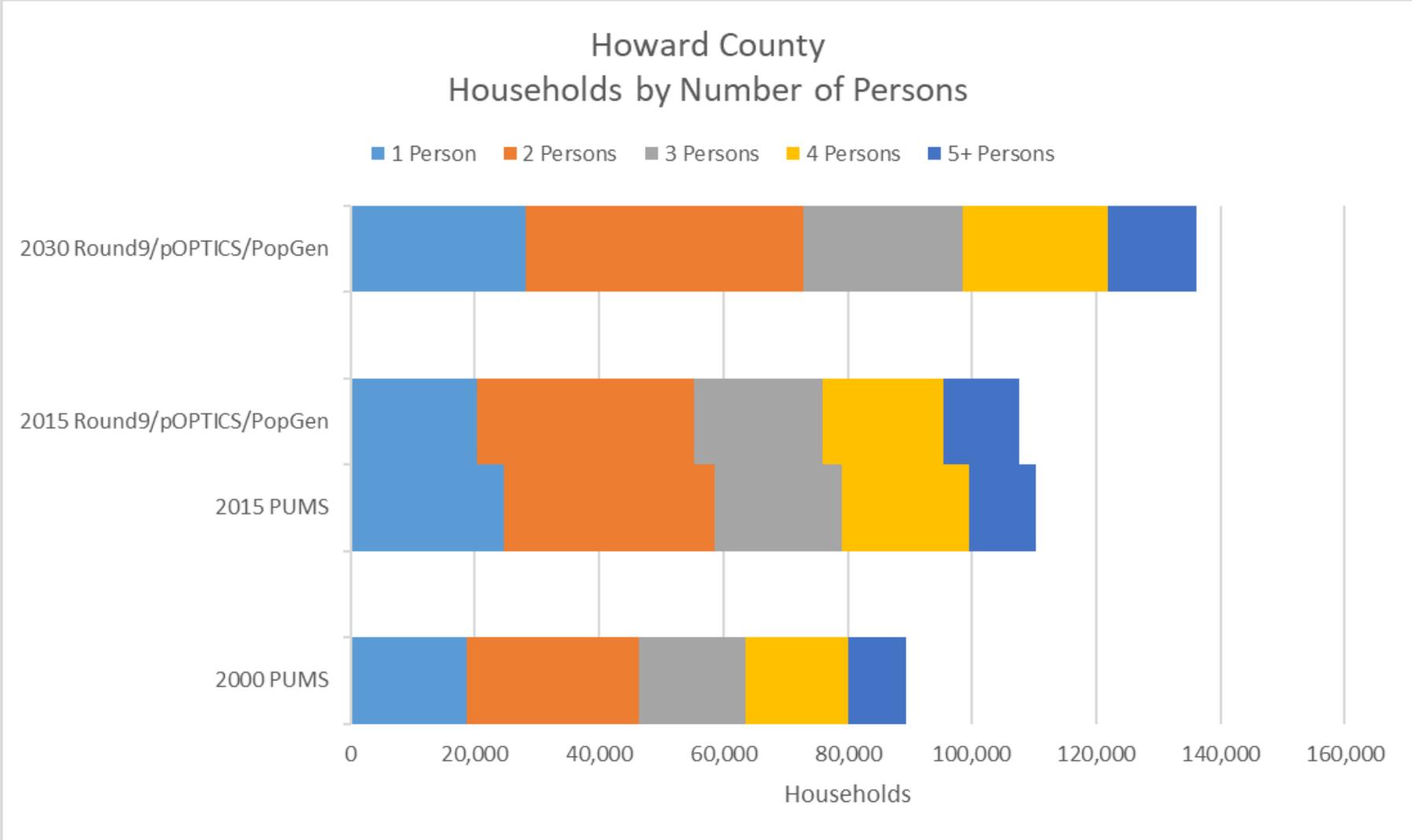
Demographic Flow



TAZ 1232

TAZ Totals							Household/Person Roster																																																																																																																																																																																																																																					
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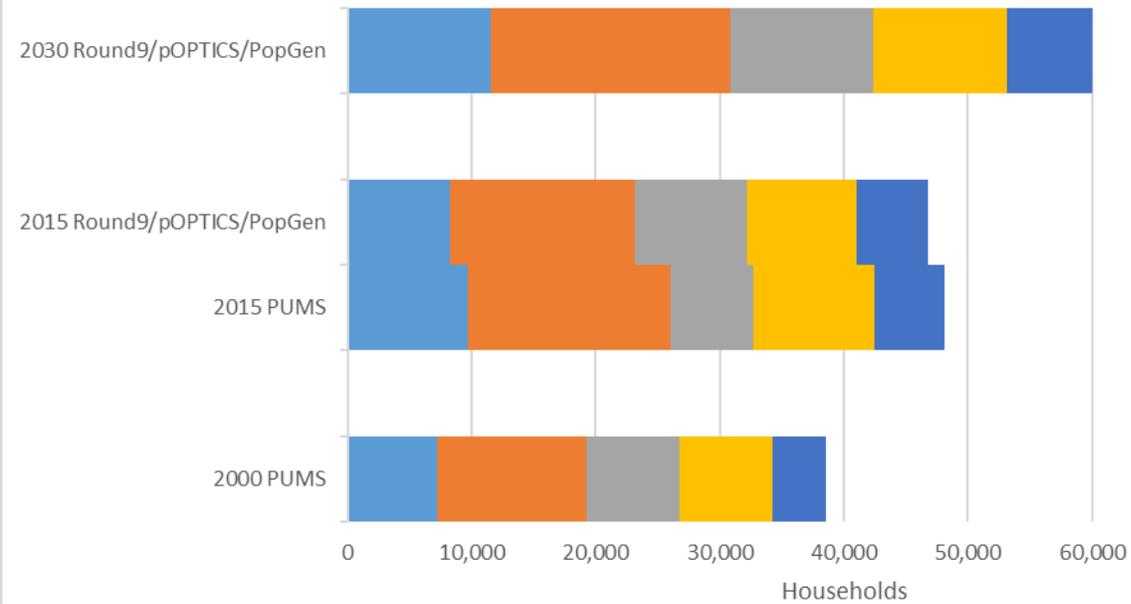
Households By Persons



Households By Persons

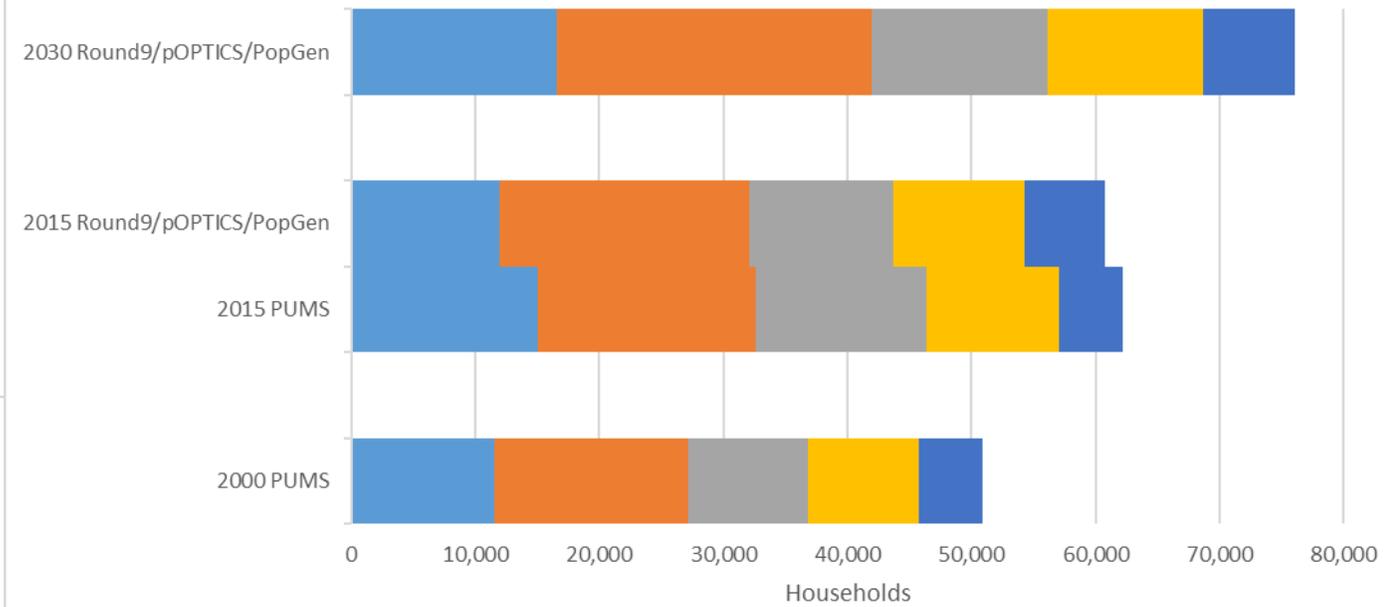
Howard County PUMA 901
Households by Number of Persons

1 Person 2 Persons 3 Persons 4 Persons 5+ Persons

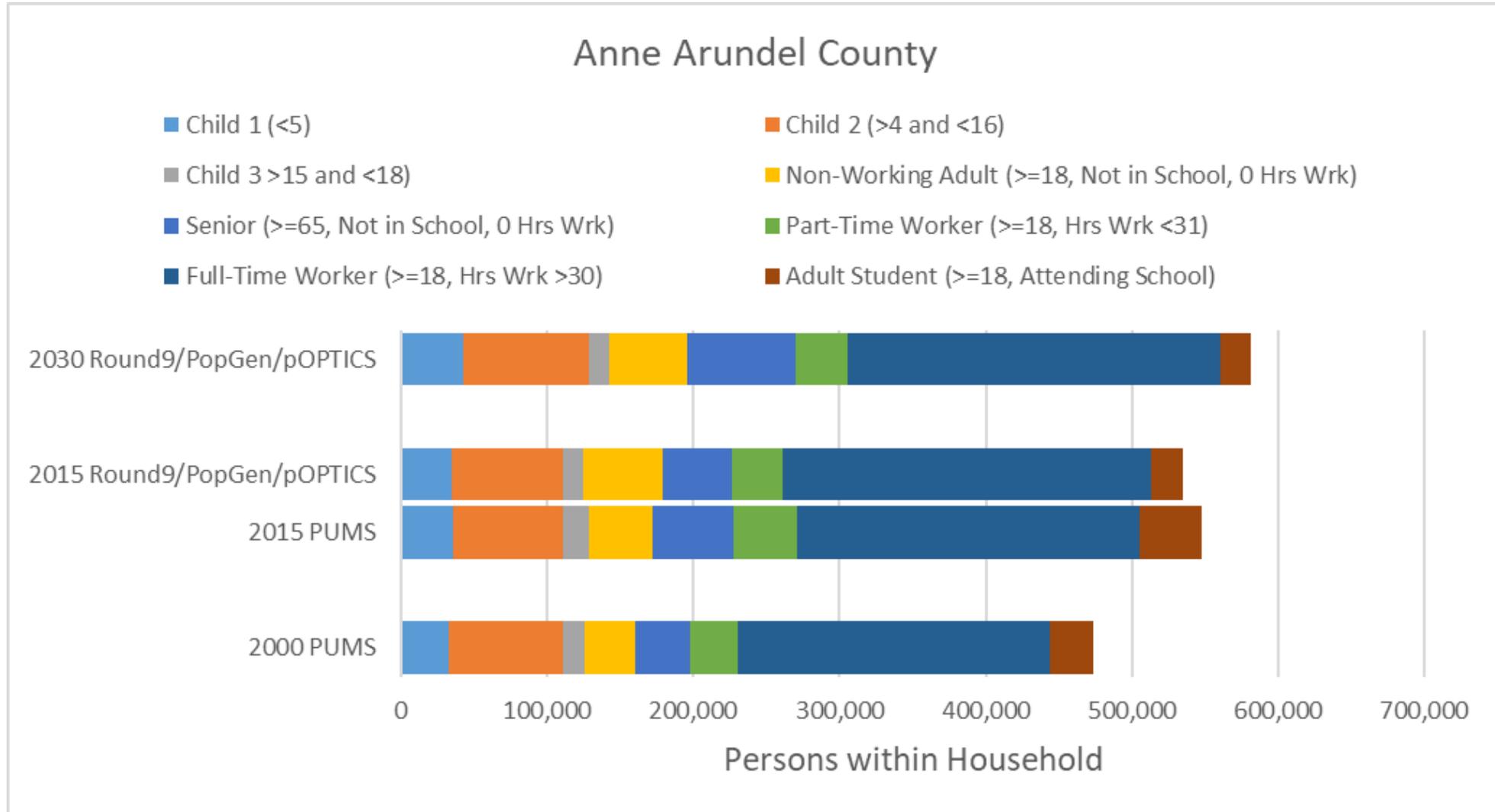


Howard County PUMA 902
Households by Number of Persons

1 Person 2 Persons 3 Persons 4 Persons 5+ Persons



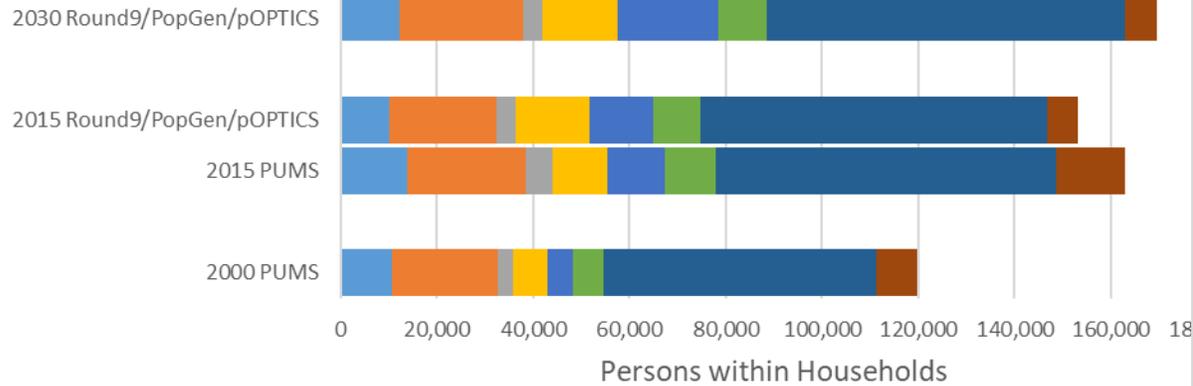
Person Type (8)



Person Type - PUMA

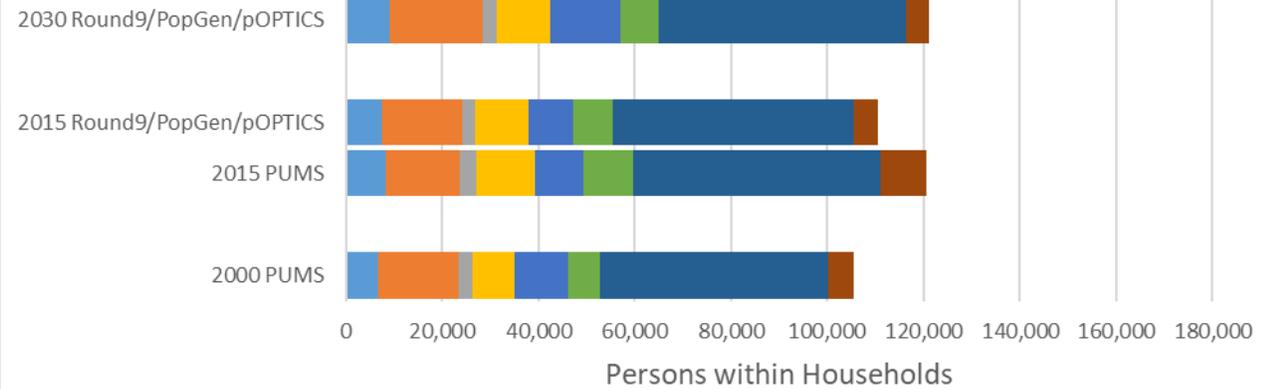
Anne Arundel County PUMA 1201

- Child 1 (<5)
- Child 2 (>4 and <16)
- Child 3 >15 and <18
- Non-Working Adult (>=18, Not in School, 0 Hrs Wrk)
- Senior (>=65, Not in School, 0 Hrs Wrk)
- Part-Time Worker (>=18, Hrs Wrk <31)
- Full-Time Worker (>=18, Hrs Wrk >30)
- Adult Student (>=18, Attending School)



Anne Arundel County PUMA 1202

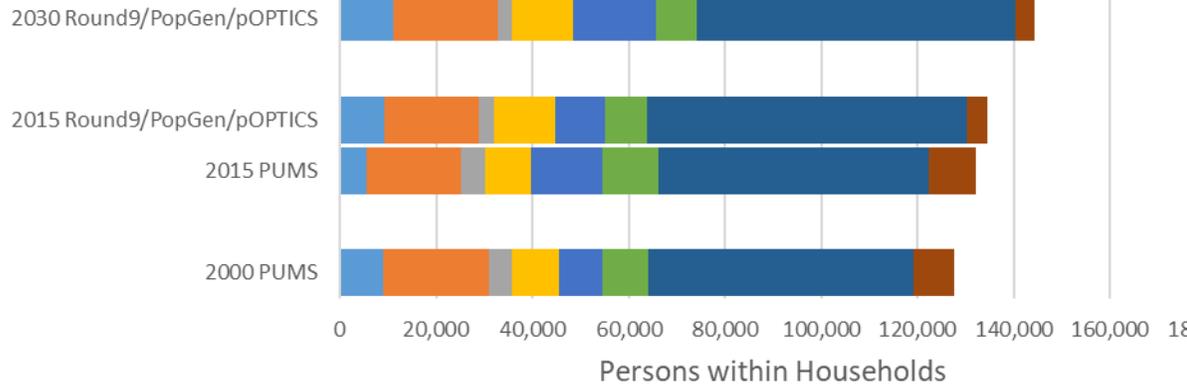
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Person Type - PUMA

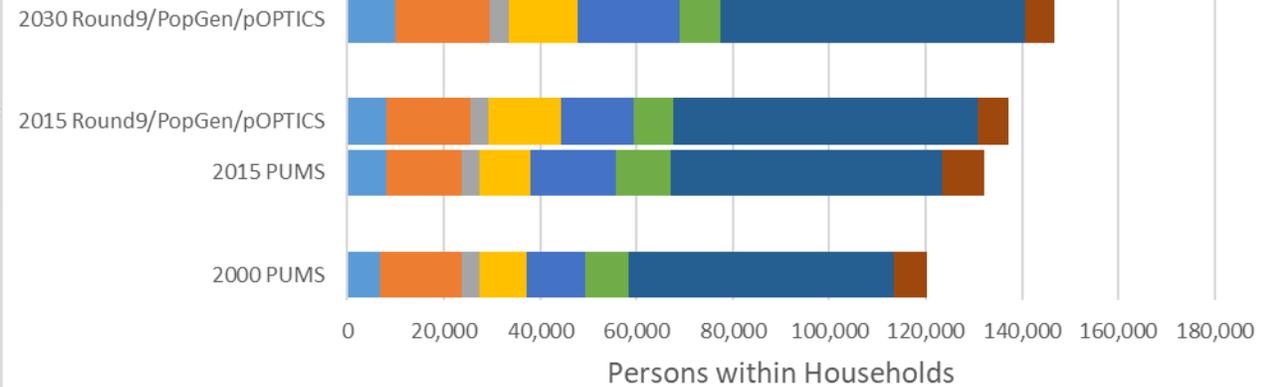
Anne Arundel County PUMA 1203

- Child 1 (<5)
- Child 2 (>4 and <16)
- Child 3 >15 and <18
- Non-Working Adult (>=18, Not in School, 0 Hrs Wrk)
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Anne Arundel County PUMA 1204

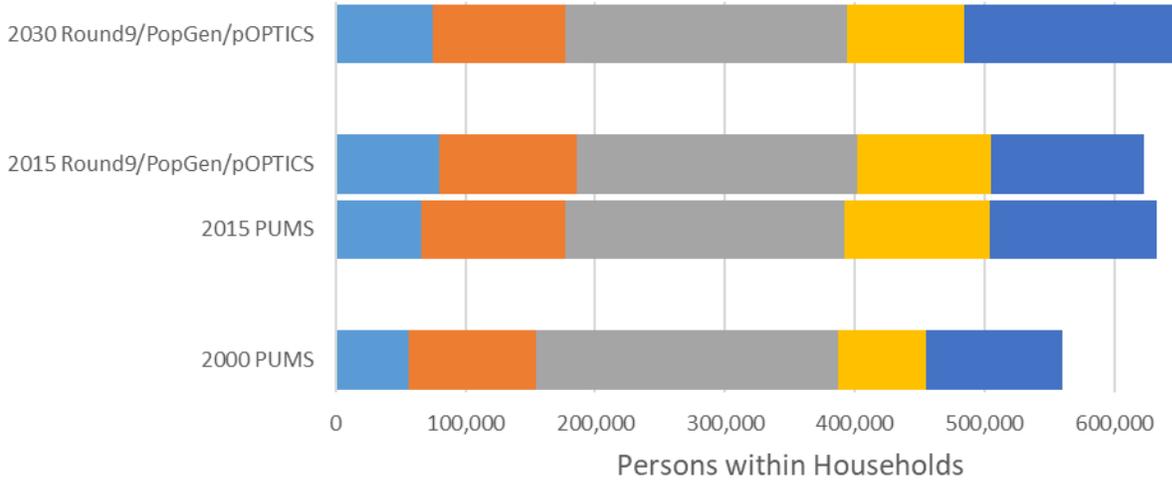
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Worker Age Group

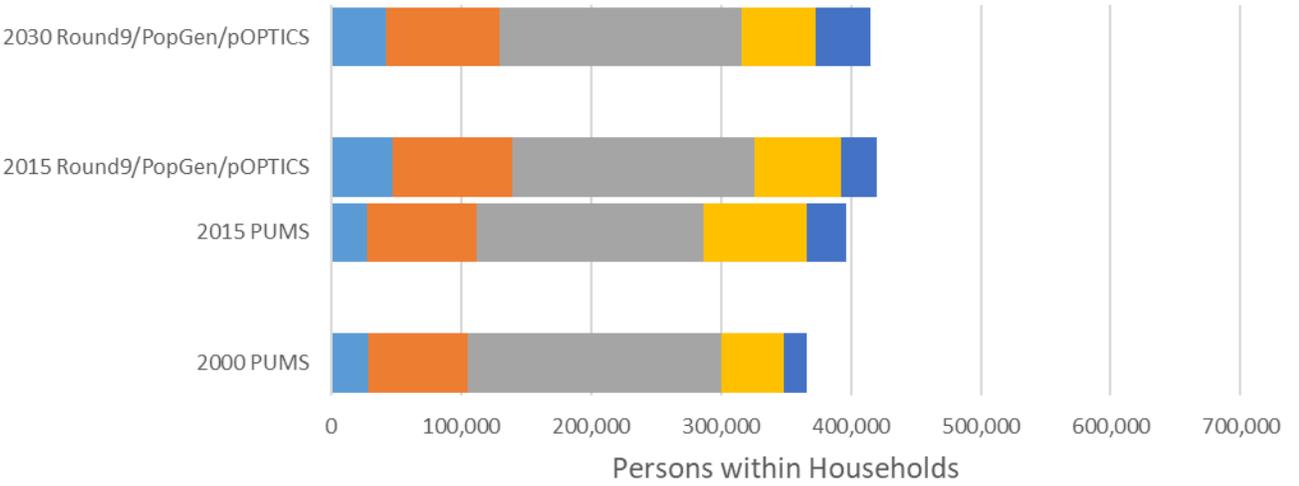
Baltimore County
Household Population (18+) by Age Group

■ 18-24 ■ 25-34 ■ 35-54 ■ 55-64 ■ 65+



Baltimore County
Household Workers by Age Group

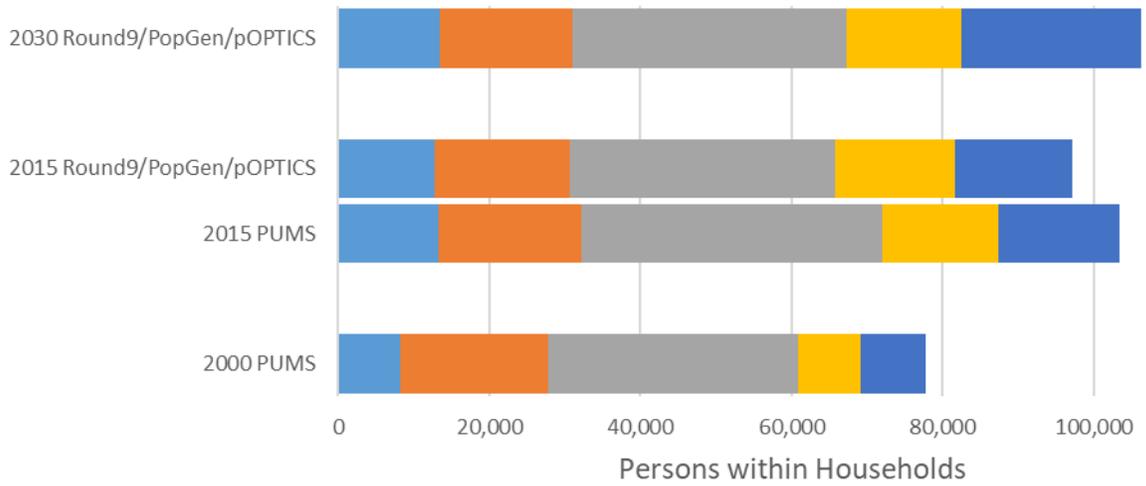
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Worker Age Group

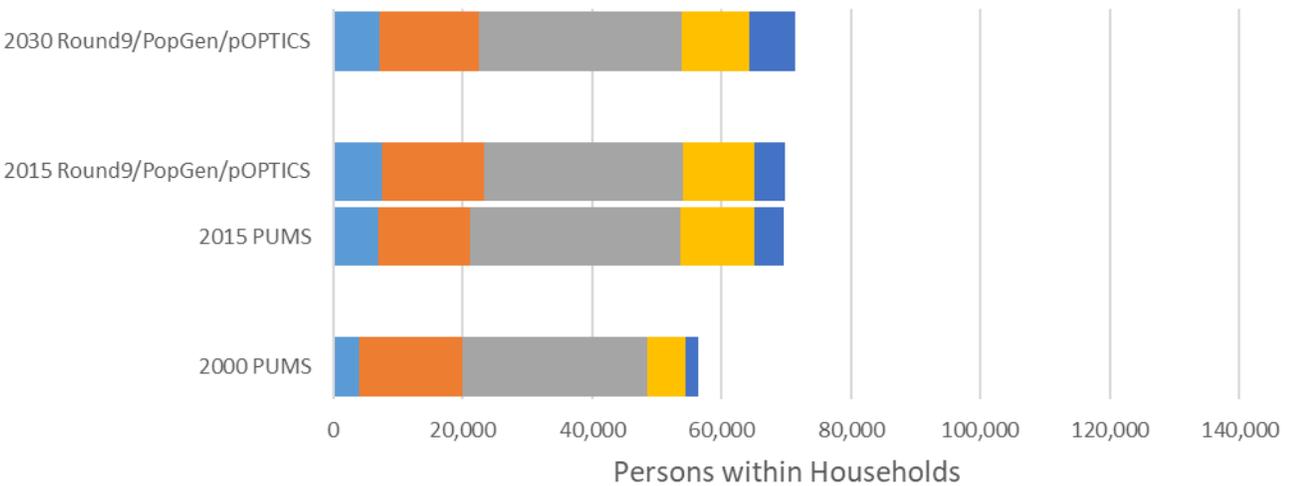
Baltimore County PUMA 502
Household Population (18+) by Age Group

■ 18-24 ■ 25-34 ■ 35-54 ■ 55-64 ■ 65+



Baltimore County PUMA 502
Household Workers by Age Group

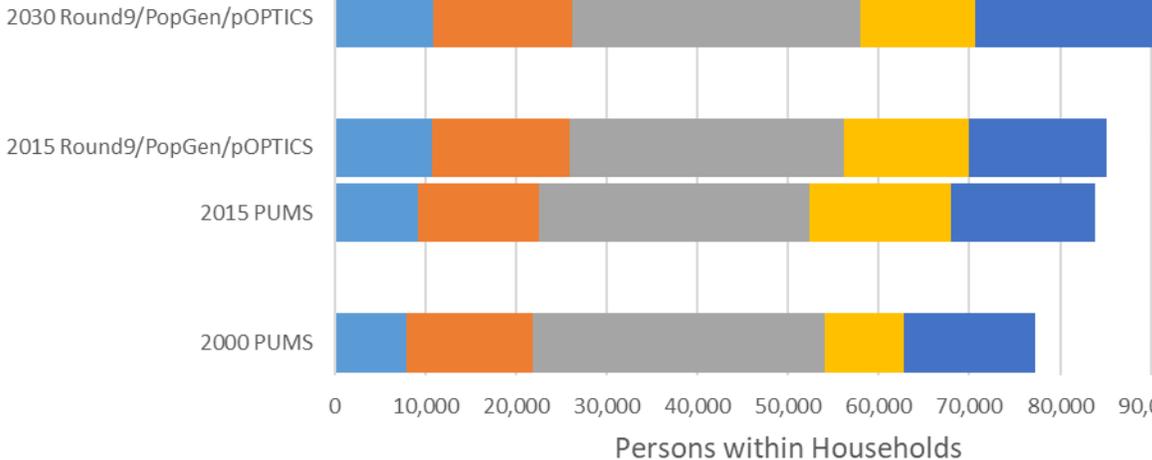
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Worker Age Group - PUMA

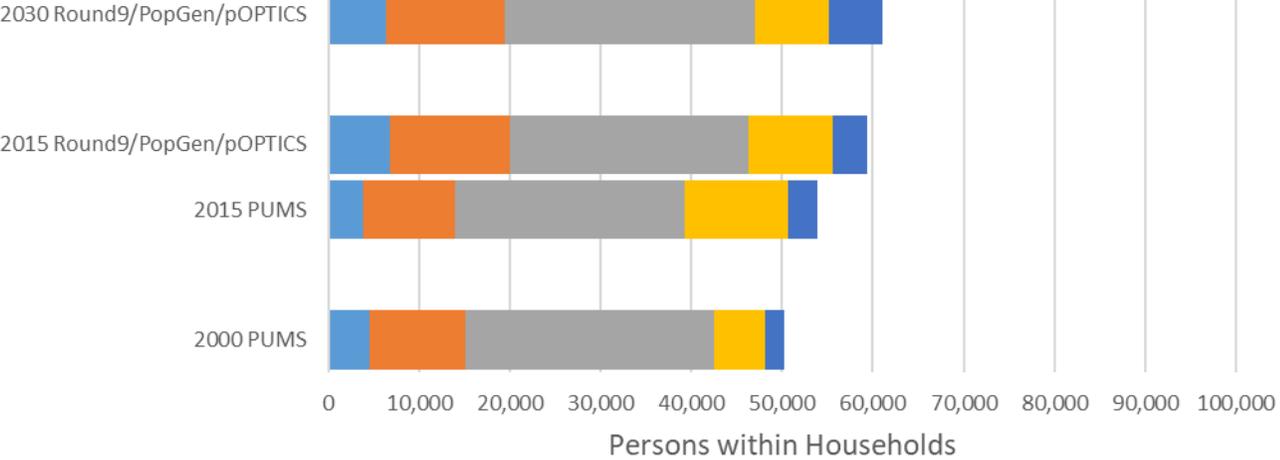
Baltimore County PUMA 505
Household Population (18+) by Age Group

■ 18-24 ■ 25-34 ■ 35-54 ■ 55-64 ■ 65+



Baltimore County PUMA 505
Household Workers by Age Group

■ 18-24 ■ 25-34 ■ 35-54 ■ 55-64 ■ 65+



Scenario Planning

- **The Great Recession**
 - Decline in Employment
 - Decline in Investment Returns
 - Decline in Retirement Contributions
- **Boomers and Xers**
 - Stay in their Current Homes (Outward Migration at Historical Lows)
 - Work Past Normal Retirement Age
- **2030 Round9/pOPTICS/PopGen/ Assumptions –**
- **Harford County**
 - Household Population (266,699)
 - Households (104,801)

Scenario Planning

Base Scenario									
Persons Moving towards Retirement age									
						LF Participation Rate		LF	
10,000		60%	Migrated	6,000					
		40%	Aged in Place	4,000		25%			1,000
Age in Place - Great Recession									
Persons Moving towards Retirement age									
						LF Participation Rate		LF	
10,000		30%	Migrated	3,000					
		70%	Aged in Place	7,000		45%			3,150

pOPTICS – Migration Change

	2000		2005		2010		2015		2020		2025		2030		2035		2040		2045					
Net Migration	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female				
Non Hispanic White																								
0-4									0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
5-9									0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
10-14									0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
15-19									0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
20-24									0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
25-29									0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
30-34			Enter a Positive Number to Increase Migration Rate and a Negative Number to Decrease Migration Rate							0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
35-39										0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
40-44										0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
45-49										-10%	-10%	-10%	-10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
50-54										-10%	-10%	-10%	-10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
55-59				-10%	-10%	-10%	-10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%					
60-64				-10%	-10%	-10%	-10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%					
65-69				-10%	-10%	-10%	-10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%					
70-74				-10%	-10%	-10%	-10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%					
75-79								0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%					
80-84								0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%					
85+								0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%					

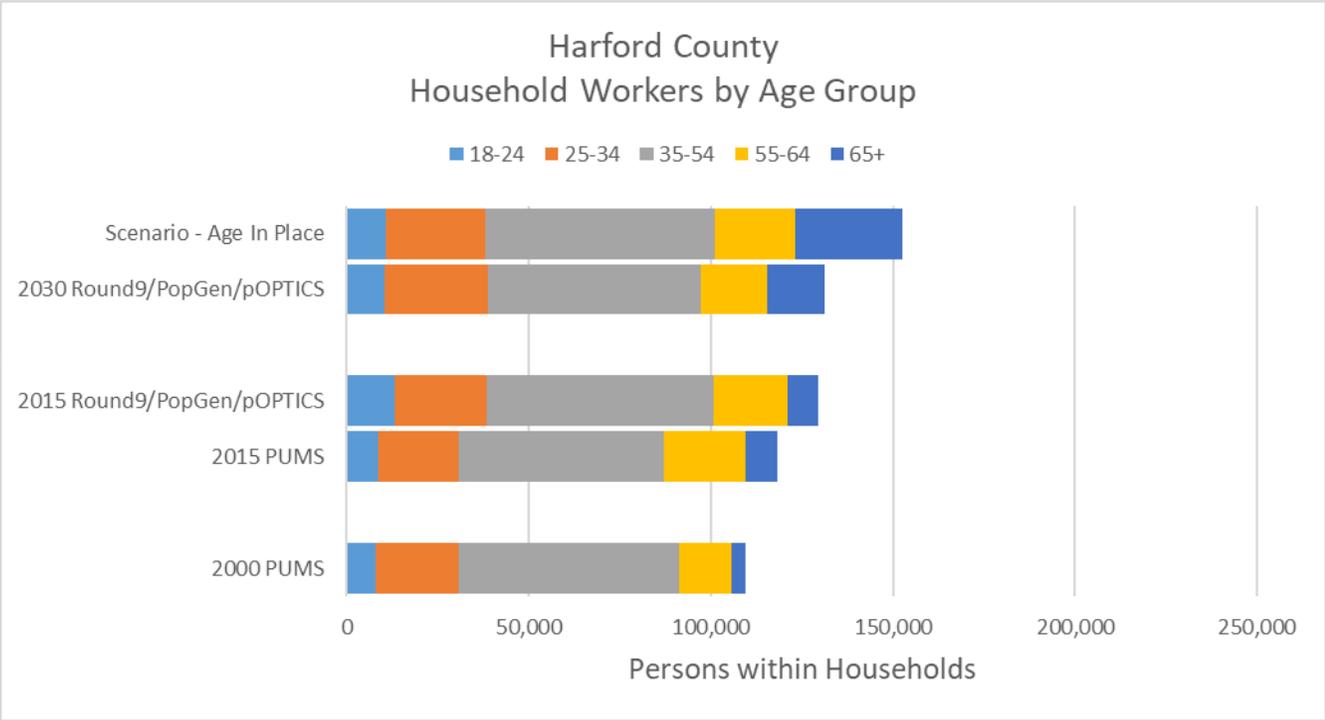
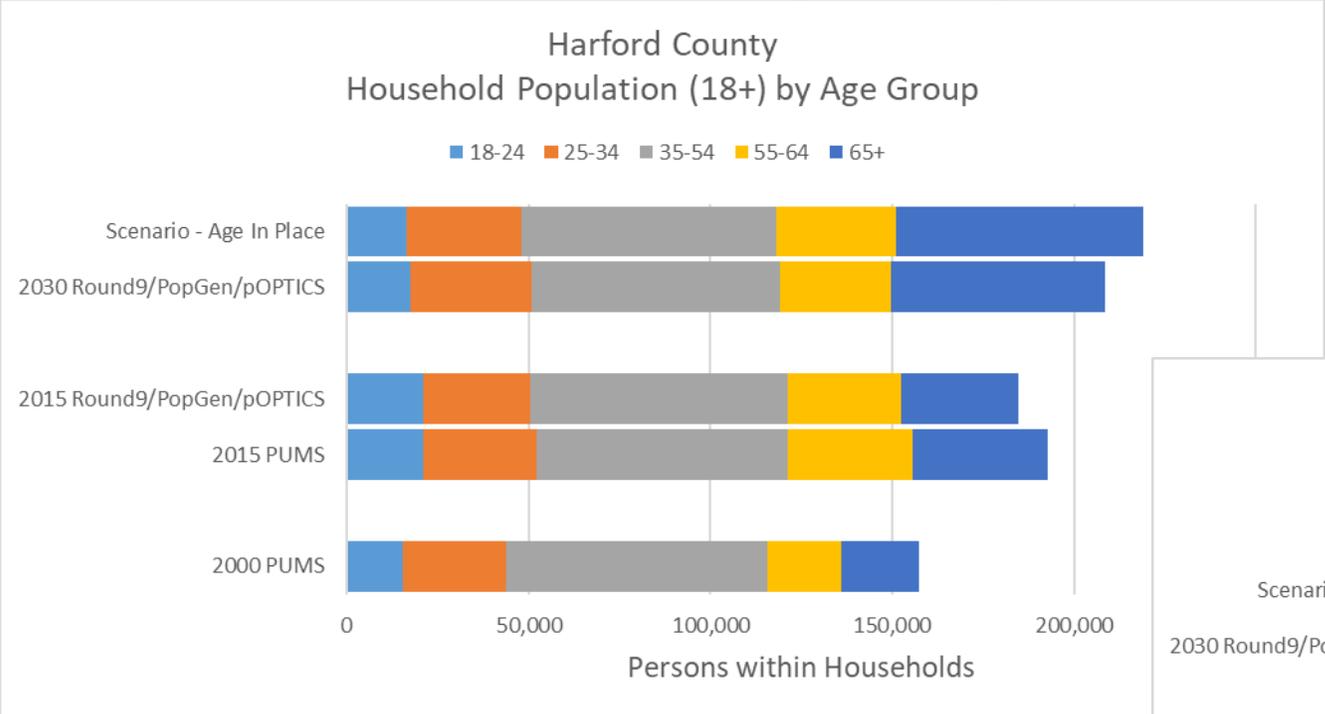
pOPTICS – Labor Force Participation

Labor Force																					
		2000		2005		2010		2015		2020		2025		2030		2035		2040		2045	
Labor Force		Male	Female																		
Non Hispanic White																					
	16 to 19									0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	20 to 24									0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	25 to 54									0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	55 to 64									15%	15%	10%	10%	0%	0%	0%	0%	0%	0%	0%	0%
	65 to 69									15%	15%	10%	10%	0%	0%	0%	0%	0%	0%	0%	0%
	70 and Over									15%	15%	10%	10%	0%	0%	0%	0%	0%	0%	0%	0%

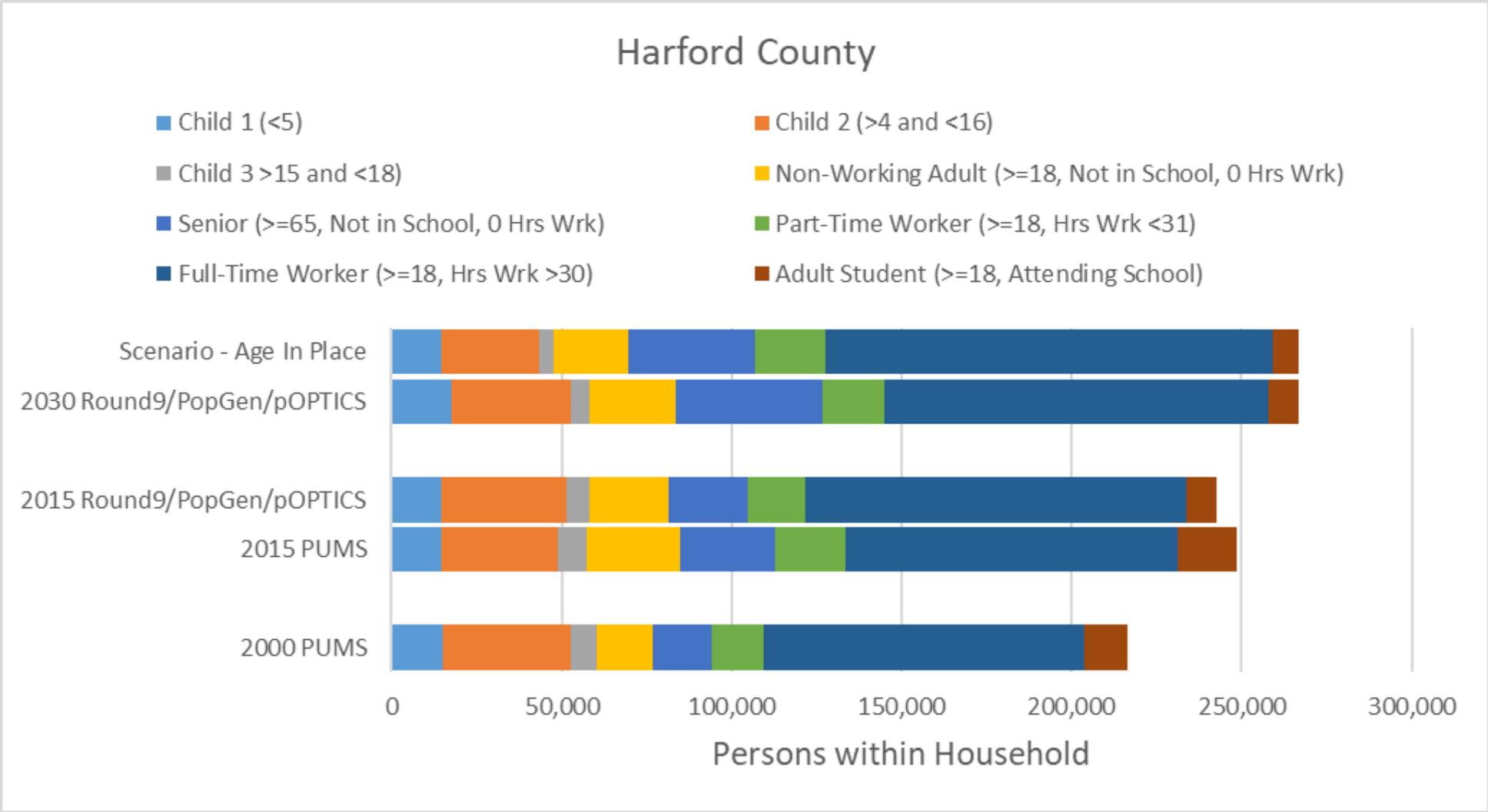
TAZ 1232

TAZ Totals						Household/Person Roster																																																																																																																																																																																																				
Aggregate						Disaggregate																																																																																																																																																																																																				
Round 9 - 2015						TAZ 1232																																																																																																																																																																																																				
TAZ	TotPopulation	Households	GroupQuarter	HH Civilian LF	Med Income	hhld	Income Group	size	adults	children	workers	Full-Time	Part-Time																																																																																																																																																																																													
1232	1424	443	9	718	\$113,191	996939	1	1	1	0	0	0	0																																																																																																																																																																																													
TAZ LEVEL Demographic Models Average HH Size 3.2 Median Income Ratio 1.5 HH/Size <table border="1"> <thead> <tr> <th></th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5+</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Households</td> <td>41</td> <td>128</td> <td>95</td> <td>105</td> <td>74</td> <td>443</td> </tr> <tr> <td>Persons</td> <td>41</td> <td>256</td> <td>285</td> <td>420</td> <td>414</td> <td>1416</td> </tr> </tbody> </table> HH/Income GRP <table border="1"> <thead> <tr> <th></th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Households</td> <td>9</td> <td>17</td> <td>34</td> <td>122</td> <td>261</td> <td>443</td> </tr> </tbody> </table> Persons Non-workers 697 HH Civilian LF 718							1	2	3	4	5+	Total	Households	41	128	95	105	74	443	Persons	41	256	285	420	414	1416		1	2	3	4	5	Total	Households	9	17	34	122	261	443	<table border="1"> <thead> <tr> <th>hhld</th> <th>Income Group</th> <th>size</th> <th>adults</th> 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Female	9,100	10,061	11,217		3,485	2,426	2,906	159,919																																																																																																																																																																																																		
total								313,355																																																																																																																																																																																																		
	1	2	3	4	5																																																																																																																																																																																																					
0 Worker	3,278	2,626	2,327	4,007	1,855																																																																																																																																																																																																					
1 Worker	1,194	2,510	5,077	16,038	12,114																																																																																																																																																																																																					
2 Workers	46	450	2,134	12,786	33,681																																																																																																																																																																																																					
3+ Workers	0	90	388	1,938	9,205																																																																																																																																																																																																					
total					111,744																																																																																																																																																																																																					

Scenario Planning – Age in Place



Scenario Planning – Age in Place



Discussion

- **Thoughts?**
- **Scenarios**
 - Identify county efforts/activities that benefit from Round9/pOPTICS/PopGen disaggregate data?
 - What demographic scenarios are you interested in?
- **Next Steps**

For More Information

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