

Rick Fisher, Anne Arundel County Office of Planning and Zoning June 24, 2020

#### Methodologies for Forecast Model Development



# Inputs for Forecast Model

- Household Forecast Data
- Population Forecast Data
- Economic Forecast Data
- Data aggregated to Traffic Analysis Zone (TAZ)
- Linear regression for growth projections

## Household Forecast

- Base Year Data
- Address Point Inventory
- New Construction and Demolition Permits
- Residential Development Pipeline
- Residential Holding Capacity
- Water Billing and Redevelopment/ Revitalization Data Verification



## Population Forecast

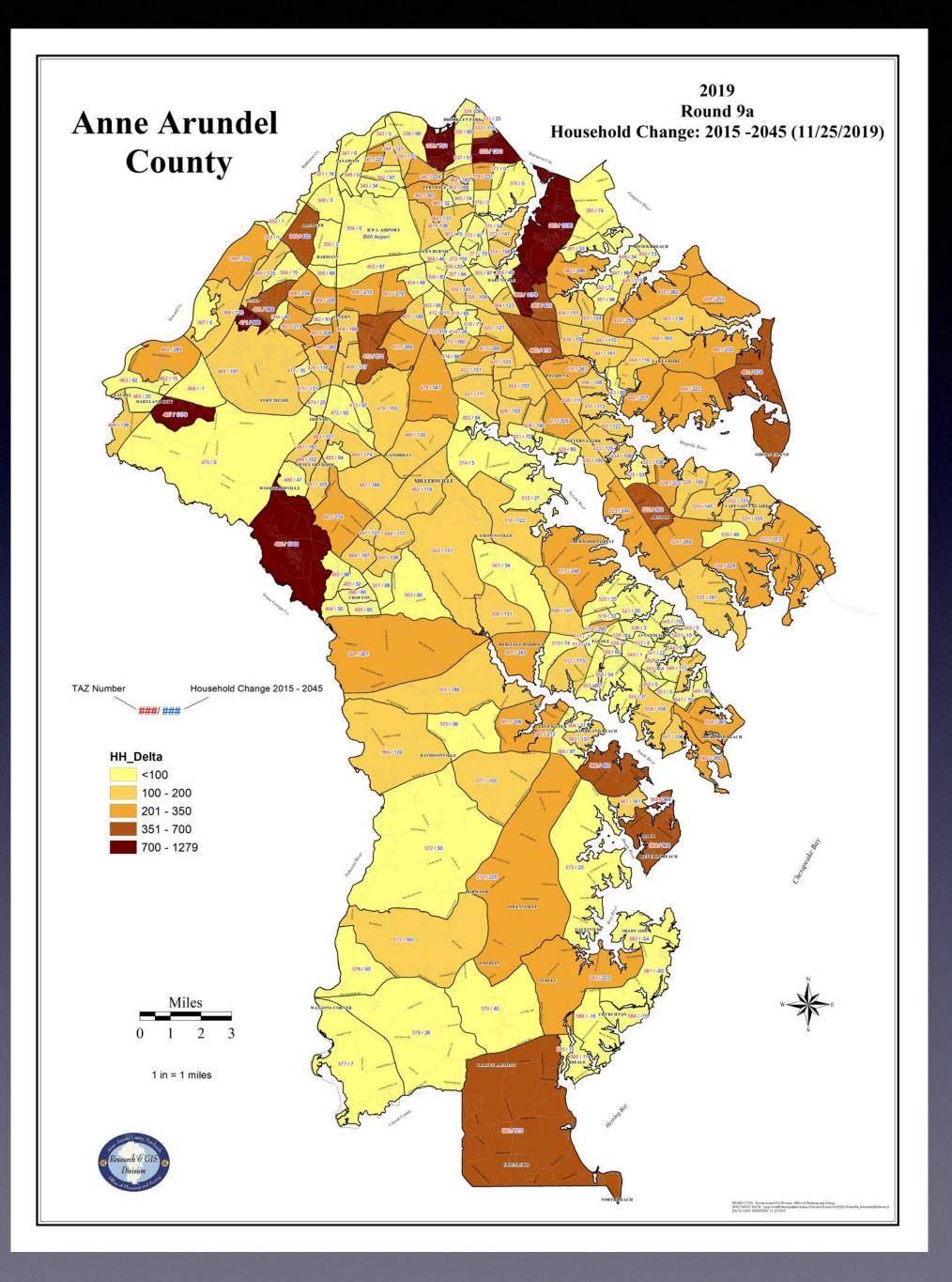
- Base Year Data
- Household Type
- Household Size
- Group Quarter Populations
- Vital Statistics



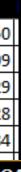
# Employment Forecast

- Base Year Data
- Wage and Salary Data from U.S.
  Commerce Department Bureau of Economic Analysis
- Approved Commercial and Industrial Development
- Economic Development/News Articles





	EMP15	EMP20	EMP25	EMP30	EMP35	EMP40	EMP45	HH15	HH20	HH25	HH30	HH35	HH40	HH45	
	181	189	196	205	214	225	238	32	5 3	331 3	42 35	3 364	375	350	
	761	791	823	859	900	945	997	1,19	4 1,2	216 1,2	.57 1,29	8 1,340	1,382	1,309	
	394	409	426	444	466	490	516	51	8 6	50 1,1	.65 1,20	3 1,532	1,675	1,729	
	391	407	424	443	464	488	513	87			94	-	,	928	
	1,499	1,558	1,621	1,691	1,772	1,862	1,964	71	9 7	732 7	/57 78	2 807	832	784	
	TAZ	POP15	POP20	POP25	POP30	POP35	PO	0P40	POP45	GQ15	GQ20	GQ25 (	6Q30 G	Q35 GQ4	0 GQ45
-	331	954		98		_	1,030	1,053			0 0	0	0	0	0 0
-	332	3,344		3,46			3,610	3,689	3,6		3 21	19	18	17	16 16
-	333	1,42		2,22	-		2,822	3,079	3,1		0 0	0	0	0	0 0
-	334 335	2,603		2,69			2,811	2,872	2,84		0 0 0 0	0	0	0	0 0
-	336	1,884 3,062		1,95	-		2,033	2,077	1,9	10		112	105	100	0 0
-	337	1,380	ΤΔ7	Н	HSIZE15	HHSIZE2	0 HHSI	ZE25 HH	SIZE30	HHSIZE35	HHSIZE40	HHSIZE45	EMP_Del	t HH_Delta	POP_Delta
-	338	2,77	221		2.94	2.9	3	2.89	2.86	2.83	2.81	2.85	57	25	j <u>43</u>
	339	1,860	222		2.78	2.7	8	2.74	2.71	2.68	2.66	2.80	236	5 115	5 332
	340	2,255	5 <b>333</b>		2.76	2.7	5	1.91	1.89	1.84	1.84	1.85	122	1211	1766
	341	6:	1 <b>334</b>		2.99	2.9	9	2.94	2.91	2.88	2.85	3.06	122	2 58	3 241
	342	2,292	2 335		2.62	2.6	1	2.58	2.55	2.52	2.50	2.49	465	65	5 71
-	343	223			2.52	2.5	2	2.50	2.48	2.45	2.44	2.13	415	702	2 998
82283-	344	910	337		2.70	2.7	0	2.67	2.64	2.61	2.59	2.82	55	5 51	197-
	345	224	228		2.67	2.6	7	2.63	2.60	2.57	2.55	2.68	1043	98	3 270
- 12.5	346 347	99	330 339		2.65	2.6		2.61	2.58	2.55		2.56	95	131	
-	547		340		2.52	2.5		2.48	2.45	2.42					++
			341		2.77	2.7		2.78	2.79	2.80		2.81			
			342		2.82	2.8		2.78	2.75	2.72	2.69	2.72			
			343		2.97	2.9		2.92	2.88	2.84	2.80	3.48			5 55
			344		2.85	2.8		2.81	2.78	2.75	2.73	2.43			
			345		2.87	2.8		2.83	2.79	2.75	2.71	2.61			
			346		0.00	0.0	_	0.00	0.00	0.00					
			347		2.48	2.4	_	2.45	2.44	2.43	2.42	2.41			
			348		2.32	2.4	_	2.48	2.50	2.49	2.52	2.52			
			349		2.32	2.2		2.24	2.24	2.45					
			350		2.36	2.3		2.31	2.24	2.24	2.17	2.41			2 6
			351		2.50	2.5		2.51	2.42	2.21	2.17	2.41		/ <u>(</u>	
			351												
					2.44	2.5	_	2.42	2.35	2.29		2.32			. 0
			353		2.40	2.4	_	2.40	2.50	2.60					3
			354		0.00	0.0	U	0.00	0.00	0.00	0.00	0.00	3887	7 <b>(</b>	0



## Questions?

https://www.aacounty.org/departments/planning-and-zoning/research-and-gis/research-section/

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