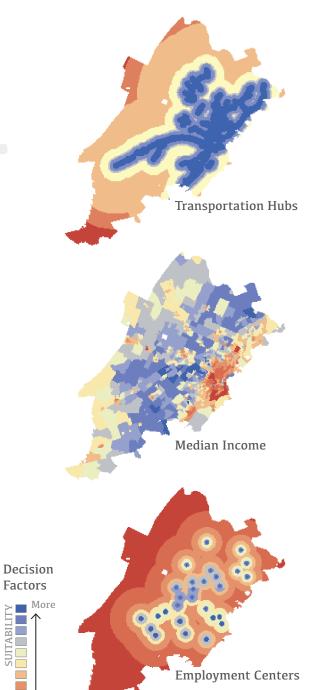
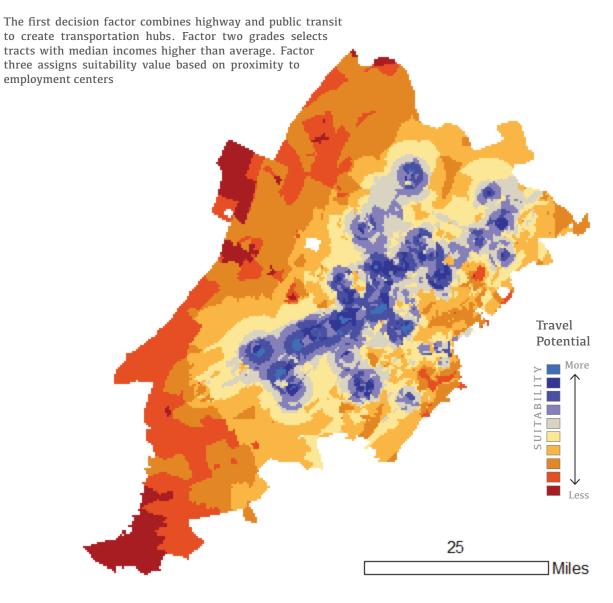
Calculating Market Potential

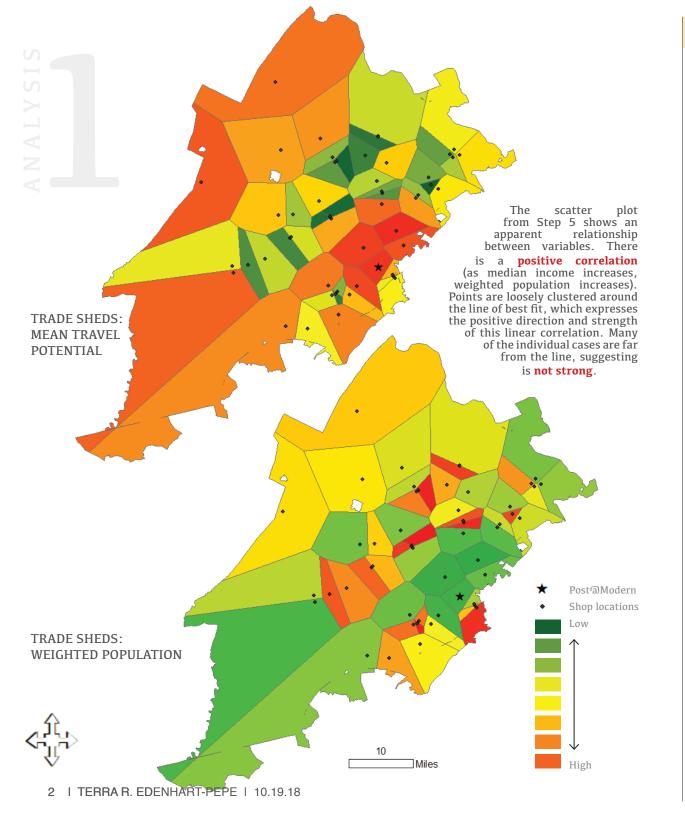
With Site Suitability & Trade Area Analyses



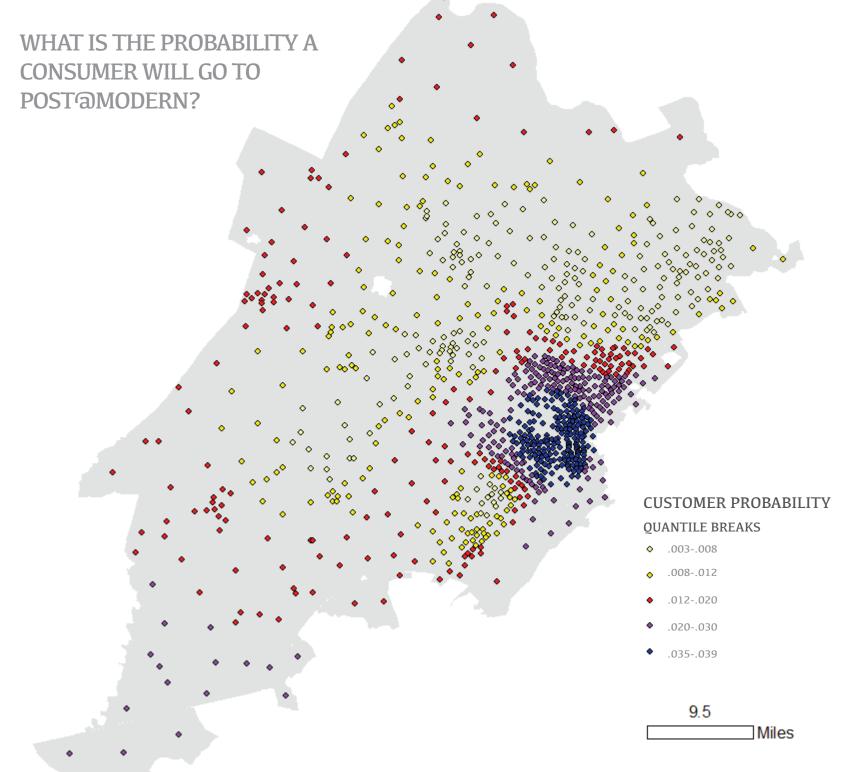
The target location for Post@Modern should be accessible, close to areas with customers who have disposable income, existing employment centers. This criteria captures aspects of both supply and demand.







TRADE SHED	POPULATIO	NHOUSE HOLDS	MEDIAN INCOME	MEAN TRAVEL POTENTIAL	WEIGHTED POPULATION			
ID 0	165047	58035	2475202	248.4470832	31536.76109			
1	31108	12132	690321	65.8140268	4937.671051			
2	27687	11492	399442	37.37142857	4661.236908			
3	65116	24399	738930	75.11977892	6139.339005			
4	112772	41648	1756513	167.3807124	19287.7981			
5	291141	118551	3764093	478.2272767	54157.31376			
6	42213	17137	832504	61.36282051	7184.663055			
7	33200	12642	667629	56.23713969	5709.544006			
8	141871	47507	2561130	153.5922408	14609.68984			
9	27521	10756	598871	37.33333333	4807.374023			
10	398210	144484	2680418	521.4474557	69686.41432			
11	87462	32809	947999	159.218037	10039.633			
12	12540	4952	217632	26.8883931	1863.182983			
13	192687	72281	1684323	313.6656281	34009.04906			
14	147778	58942	2065096	209.7712139	29480.59001			
15	49591	20529	349616	73.22083873	8077.470085			
16	67041	25986	720585	113.9904314	10081.24515			
17	71353	31258	646202	120.1827556	13252.22198			
18	22459	8296	322359	78.7419075	3173.673386			
19	28672	11721	462394	52	5207.447021			
20	286666	120674	1907643	491.3465546	51251.34202			
21	65297	24283	1870945	134.7575093	13541.2348			
22	83920	30948	1270632	113.0233391	16975.38927			
23	75644	28151	1188700	142.7142686	11626.0751			
24	55961	19371	971966	66.78447915	12795.30789			
25	43207	16366	699614	55.02705628	9395.589966			
26	88185	33585	1379666	253.9431648	9992.296841			
27	5023	1921	212087	15.98450704	942.1600037			
28	71305	27129	1123243	100.9406952	15332.10999			
29	49461	19232	785815	52.45296481	12377.56696			
30	33600	11548	398147	31.38703226	6492.506958			
31	26935	10339	579145	42.64489763	5611.336975			
32	72636	26160	1157797	137.0751989	10031.89301			
33	18178	5733	258131	16.50151976	3421.247986			
34	13568	4891	237122	14.52525253	2803.713013			
35	71307	25365	1159664	104.0381687	13052.63473			
36	82542	29420	1121463	74.42350614	15786.39606			
37	12004	5164	171961	16.07359307	3191.070007			
38	18148	7205	376493	37.86384016	2910.131012			
39	123765	49495	1017633	141.9760806	25617.81028			
40	25577	9066	508228	45.92597066	4597.292969			
41	52509	19542	586536	53.49583333	12295.96817			
42	46578	18548	683573	55.78766692	10494.36591			
43	149715	50771	1146088	271.6381438	23933.81512			
44	48042	17508	548417	55.40515873	10667.80997			
45	60919	23420	672142	82.7453837	12284.793			
46	67433	24922	873778	93.44875405	13577.52363			
47	56367	20832	678103	51.43824591	13386.90405			
48	28917	10270	644202	42.76228325	6131.621063			
49	17406	6441	129122	14.51010101	3552.791931			
50	81941	30496	1222137	203.5885042	9352.344032			
51	60330	23003	755917	59.97122398	11594.09802			







WHO IS GOING TO GO TO POST@MODERN?

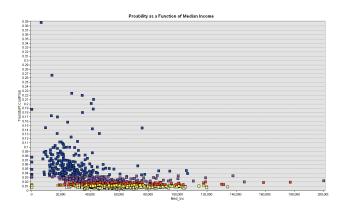
Selected above average probabilities (Above 3%), which left 257 tracts out of 1024.

Summarized socioeconomic factors:

- Percent African American
- Percent Above 65 yr old
- Median income

The travel potential raster is a way to understand the potential customer share and type of customer that Post@Modern would attract. The scatterplot illustrates a linear correlation between probability of visitor-ship and median income in areas of lower probability. There is not a correlation in areas rated more likely to yeild consumers for Post@ Modern. This could be because, areas close to the store location are urban in character and represent a greater diversity of potential clients.

The strength of this scatterplot suggest that this method is not the best one for identifying potential customers.



SOCIOECONOMIC CENSUS INFORMATION AVERAGED BY TRACT															
TRACT	MEDIAN INCOME	PERCENT AFRICAN AMERICAN	PERCENT ABOVE 65	TRACT	MEDIAN INCOME	PERCENT AFRICAN AMERICAN	PERCENT ABOVE 65	TRACT	MEDIAN INCOME	PERCENT AFRICAN AMERICAN	PERCENT ABOVE 65	TRACT	MEDIAN INCOME	PERCENT AFRICAN AMERICAN	PERCENT ABOVE 65
1	48886	13	5	78	28885	59	9	154	31923	53	1 -	2053	47813	24	8
2	8349 40625	8 15	16 16	79 80	32380 28366	62 95	8 15	155 156	12333 14524	77 21	7	2054 205501	85915 50337	2 16	16 20
4	27400	12	39	81	24455	95	17	157	22478	9	7	205502	100334	1	17
5	9620	30	3	82	29041	96	21	158	31862	3	12	205503	75174	3	28
6 7	41563 34536	12 6	5 19	8301 8302	24800 24567	95 94	30 18	159 160	28871 29621	3	11 11	2056 4001	60408 30185	1	13
8	42346	3	14	84	26341	97	18	161	19098	10	9	4001	37593	15	13
9	20725	9	10	85	22077	94	16	162	13833	25	8	400301	32448	33	9
10 11	72625 36564	4 10	17 10	86 87	19612	73	11 3	163	15865	18 50	6	400302	34576	23	10
12	42000	6	9	88	21131 9320	30 13	1	164 165	12314 16964	95	6	400401 400402	29041 30273	23 26	11 15
13	24508	72	14	89	6311	12	8	166	14250	96	11	4005	41429	12	11
14 15	26897 38026	58 28	15 13	90	13792	19	1	167	16367	97	15	4017	44205	21	14
16	50598	7	7	91 92	17500 20083	57 93	19 7	168 16901	19770 14558	96 95	14 15	4021 4023	53225 36483	80 87	11 11
17	48889	12	7	93	21503	98	14	16902	17051	98	16	4089	83317	0	14
18	36458	21 95	16	94	17743	95	17	170	34120	83	9	5001	39570	2	14
19 20	21766 19240	95 97	10 15	95 96	21058 23171	98 97	15 15	171	22043	95	14	500201	52463	0	10
21	21875	94	14	97	36094	45	20	172 173	20669 21731	98 97	14 15	500205 5003	47500 48534	11 0	12 13
22	30156	85	15	98	39849	60	13	174	15050	91	12	6005	8569	66	32
23 24	29806 34247	8 19	17 15	99	106723	31	21	175	14294	37	7	6007	18714	48	5
25	26250	43	13	100	31415 28811	61 90	18 16	17601 17602	11909 12076	11 20	5	6018 6102	22417 19083	59 0	9 26
26	0	0	0	102	20634	95	14	177	15687	24	5	6102	19063	U	20
27 28	23750 22759	23 8	12	103	24405	95	14	178	14793	21	8				
28 29	26744	1	18 22	104 105	21772 12794	97 96	14 20	179	26021	12	12				
30	20294	49	12	106	15952	96	26	180	30866 18571	1	17 24				
31	18156	97	15	107	15417	96	15	192	19375	22	6				
32 33	17711 25978	89 56	12 11	108	17310 13367	89 91	12 7	193	26563	12	14				
34	20500	46	26	110	19464	96	14	194	13929	40	3				
35	24722	21	9	111	22765	95	11	195 196	15097 15710	11 21	6				
36 3701	13860 26010	60 76	18 9	112	24521	96	14	197	19877	39	5				
3701	26550	76 35	17	113	34353 28012	98 91	18 16	198	20692	41	7				
38	36591	1	23	115	39473	69	11	199 200	16780 22786	47 75	7 14				
3901	26347	10	22	116	35000	27	8	201	20436	95	16				
3902 4001	36472 25854	0	22 24	117	53047 41044	36 94	10 14	202	20709	94	18				
4002	31045	1	23	119	28507	91	12	203	23277	87	15				
4101	20759	33	13	120	44954	64	15	204 205	29814 16213	96 90	9 17				
4102 4201	22819 32564	11 8	14 13	121	32925 28861	61 37	24 34	206	30083	18	13				
4202	34313	5	14	123	20001	0	0	207	42004	16	10				
43	0	0	0	124	0	0	0	208 209	44067 41424	32 3	16 9				
44 45	28024 36335	21	10 27	125 126	34614 31838	16 25	23 12	210	41191	4	15				
46	8333	94	0	127	7500	64	11	211	45130	5	19				
47	44080	2	28	128	39643	7	0	212 213	37234 39746	4	12				
48 49	30455 0	0	36 0	129	41000	4	6	213	40746	13	12 11				
49 50	0	0	0	130 131	35625 19023	54 93	8 10	215	45464	4	12				
51	28417	69	7	132	14375	94	17	235	71827	39	11 m				
52 57	0	0	0	133	29352	58	9	236 237	65060 42917	34 67	20 19				
57	0	0	0	134 135	41536 31386	16 50	16 10	238	31052	71	16				
59	0	0	0	136	46250	8	11	239	21500	62	16				
60 61	31250 33462	39 39	17 19	137	23806	94	12	240 241	29137 12177	74 89	10 30				
61 62	33462 28750	39 42	19	138	17480	92	14	242	26569	82	11				
63	21320	66	6	139	12703	90	19	243	27951	86	8				
64	27849	58	7	141	12165	86	17	244 245	28036 25517	86 92	8				
65 66	28036 18185	96 67	10 13	142	30862	21	9	245	20887	9/2 89	11				
67	22670	52	11	143	40293 23720	3	12 12	280	28281	96	10				
68	0	0	0	145	12092	69	15	281	36129	86	9				
69 70	13569 21821	93 98	4 8	146	26295	71	17	283 284	24725 29143	81 80	7				
71	26790	96	10	147 148	16411 10643	98 100	12 31	287	21944	35	3				
72	26955	96	10	148	10643 21463	100 94	17	366	87027	5	17				
73 74	25778 17604	95 90	10	150	9643	43	9	2043 2044	56250 105903	4	31 16				
74 75	17604	90	13	151	13070	99	13	2044	94567	1	16				
76	75487	20	9	152 153	18153 14826	99 92	10 11	2046	137761	1	16				
77	14628	43	4	Ι	102.0			204702	77360	3	16	I			

SUMMARY

Both the site suitability and trade area analyses are...

- customer-oriented
- include a basic statistical summary
- describe the probable distribution of the potential customer base & shopping selection trade-offs

The first analysis suggests conditions which might compel a consumer to visit Post@Modern and generates a suitability scale. While, the **second analysis** assumes a value for the Decay Factor and describes an "attraction or gravity" scenario, to illustrate the tradeoff between convenience and quality.

What would the analysis of...

...a Tractor Store look like?

A more specialized clientele would require a granular study of higher order goods, a higher weight (of 2), and with greater consideration of gross leasable area.

... A jewelry store?

Similarly, this type of store has a high weight as a high order goods shopping hub, capable of drawing customers from the region however less consideration may be given to

... A car dealership?

Dealerships may co-locate with other dealerships, conduct aggregate-level sales trajectories and individual-level conditional expectations (which, could be used to derive estimates of customer lifetime value).

The ultimate outcome accuracy could be improved if compared to an actual outcome (some metric) that could help train a model and assess model accuracy.

No. I would not recommend that the developer built Post@Modern before conducting a more in-depth analysis. On the basis of this analysis, the maximum probability that people may visit Post@Modern 2 or 3 times a year is only approximately 30%.

The **next step** would be to undertake customer-base investigation to generate a predictive analysis. Further investigation could analyze the customer base and identify the geo-demographic characteristics of heavy buyers or determine which groups of products tend to be purchased together (i.e., a "marketbasket" analysis).