

The logo for RCLCO, with 'RCL' in black and 'CO' in white on a grey background.

RCLCO

Development Evaluation – Understanding the Market

An illustration of a man in a green jacket and black pants crouching on a sidewalk, drawing a city map on the pavement with markers. The map shows buildings, streets, and a tree. The background is a solid red color with faint outlines of buildings and trees.

2014 Virginia Planning Conference
July 21, 2014

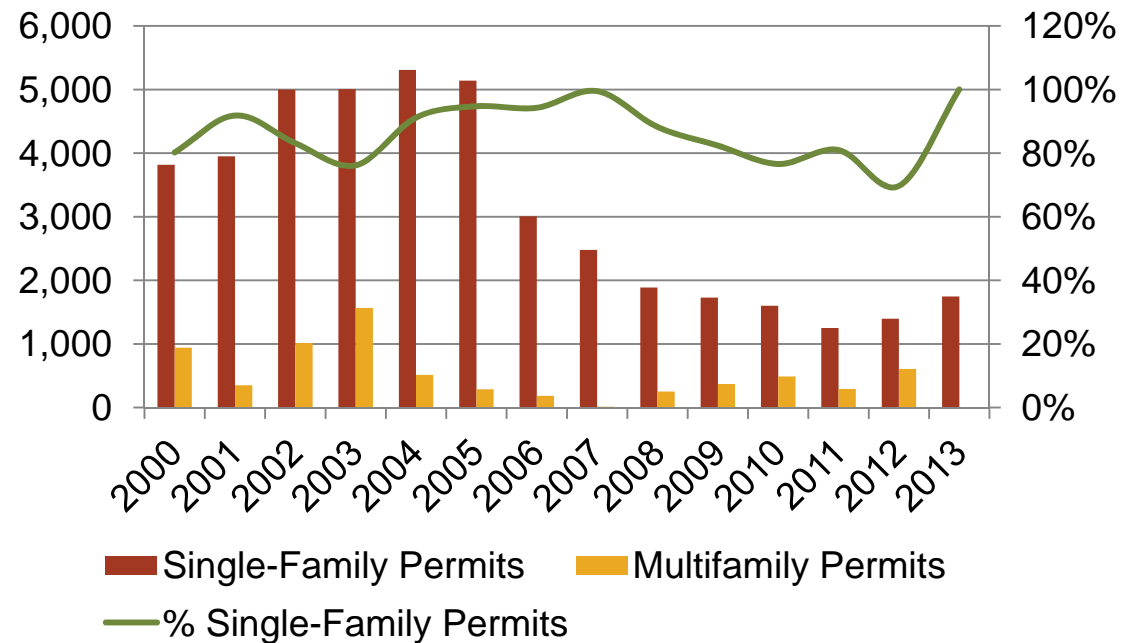
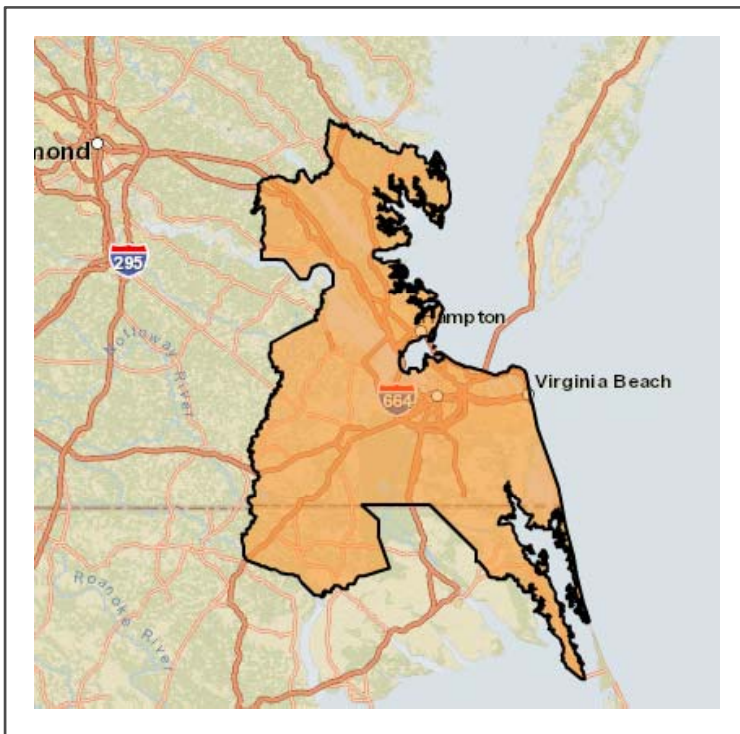
Melina Duggal, Senior Principal

The purpose of the session is to help planners evaluate development submissions from a market perspective. The session will help planners identify the types of data necessary to understand the market, what to look for in development applications, and analyze the data and proposal to determine if it is realistic and market-feasible. We will look at real applications and go through how to evaluate them from a market perspective.

- Introduction to Market Analysis
- Economic and Demographic Analysis
- Subject Site Analysis
- Competitive Supply Analysis
- Demand Analysis
- Development Recommendations
- Outside the Conventional Market Analysis
- Examples

WHAT IS A MARKET ANALYSIS?

- Examination of **subject property/area** in context of broader market trends
- Analysis of **supply** and **demand** factors
- Market-driven **recommendations** and **programming**



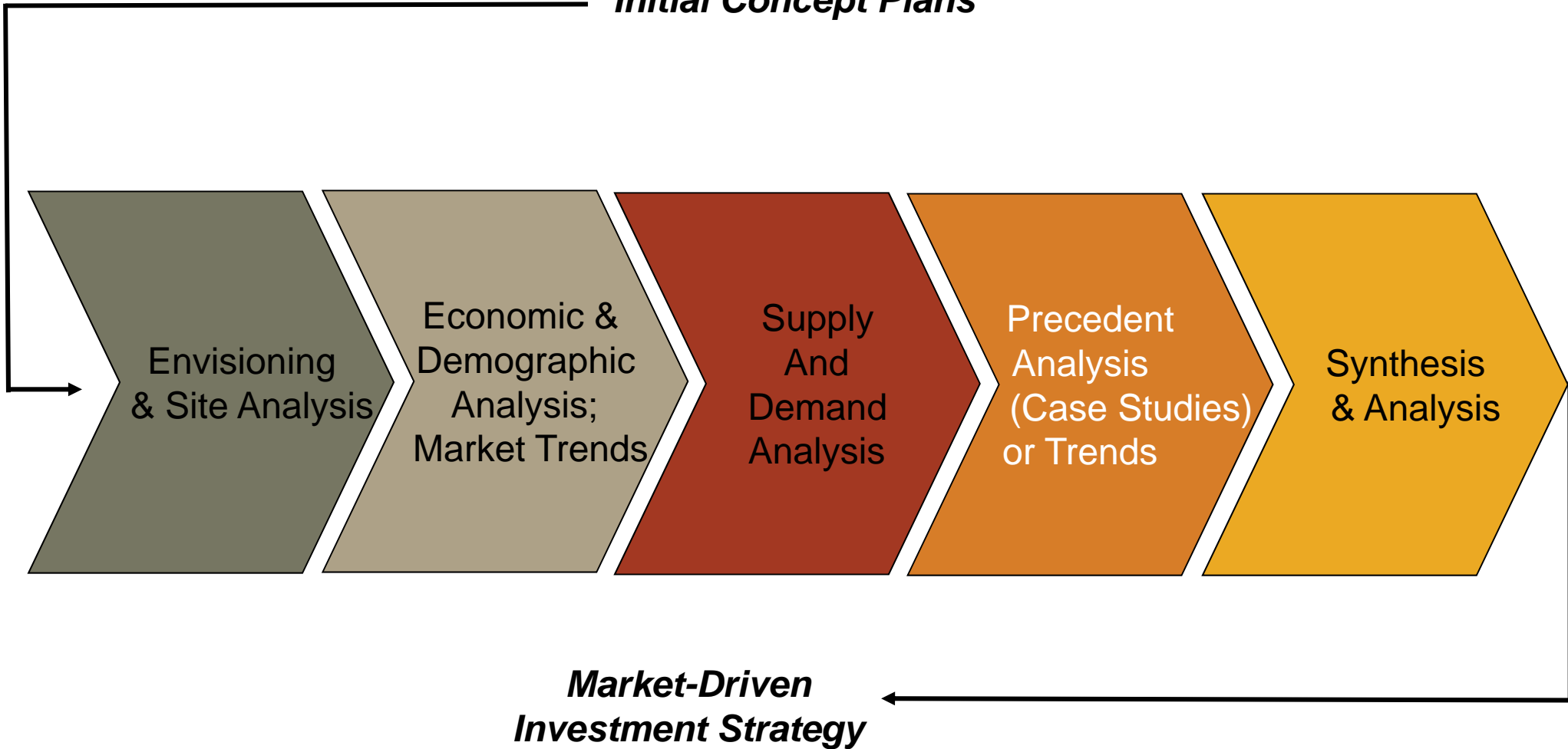
WHEN DO YOU NEED MARKET ANALYSIS?

- Verify existing products/program
- Achievable pricing and absorption
- Due diligence
- Third-party project financing
- Land planning and revitalization
- Highest and best use
- Long-term site planning
- Reposition existing developments



Rigorous Market Analysis

Initial Concept Plans



FORMULATING THE HYPOTHESIS

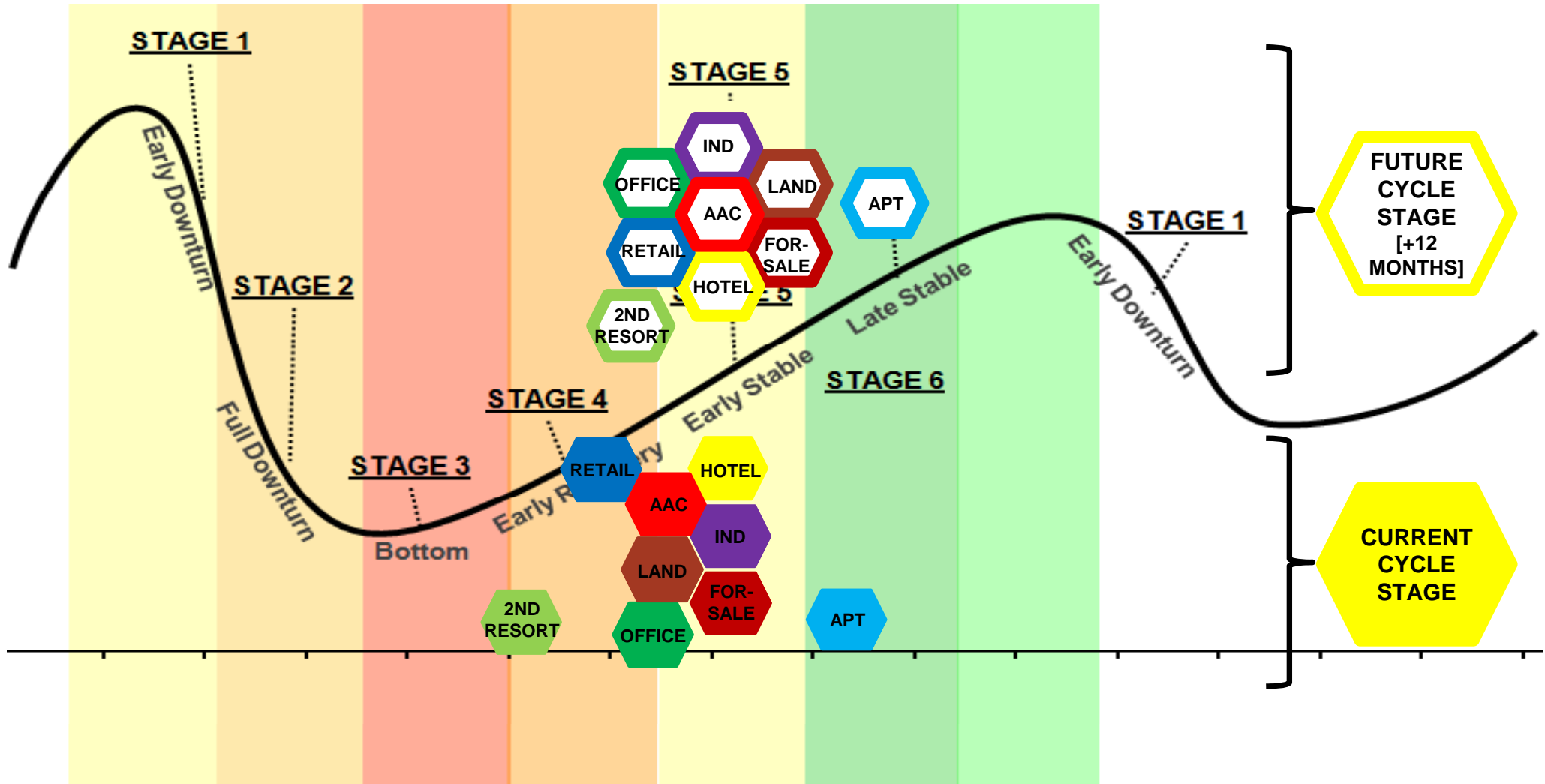
- What land uses should the market study focus on?
- What market assumptions need to be tested?
- What site challenges need to be overcome?



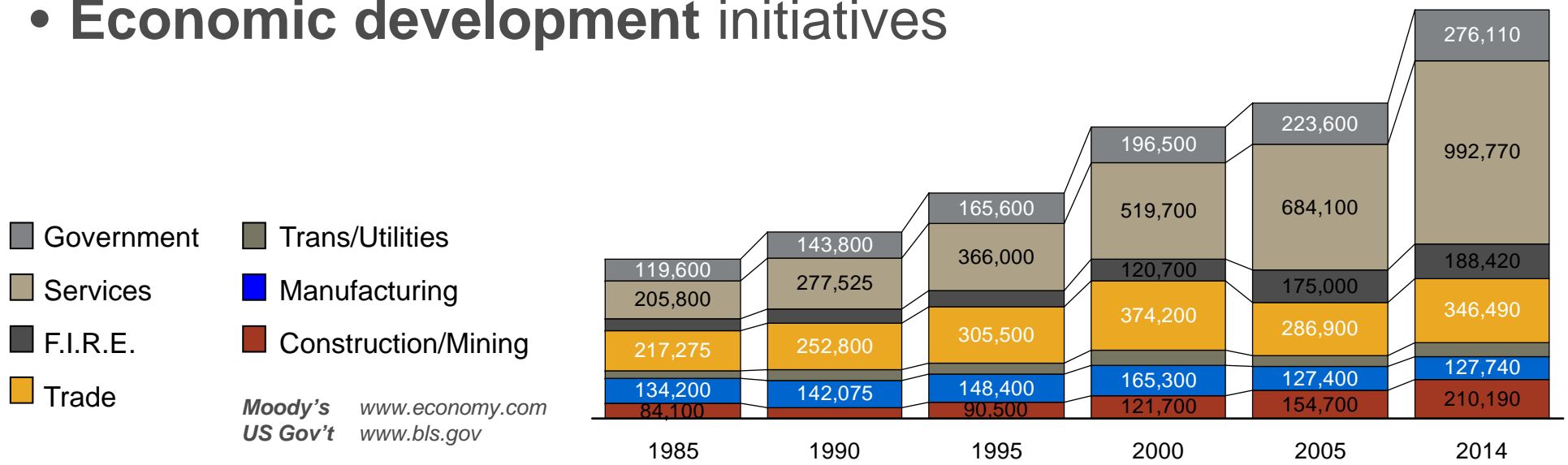
Economic and Demographic Analysis

- Where are we located on the economic cycle? Nationally and locally?
- Is current growth supported by solid fundamentals?
- How are demographics shifting nationally and locally?
- Where is growth occurring? What are its drivers?

WHERE ARE WE LOCATED ON THE ECONOMIC CYCLE? NATIONALLY AND LOCALLY?

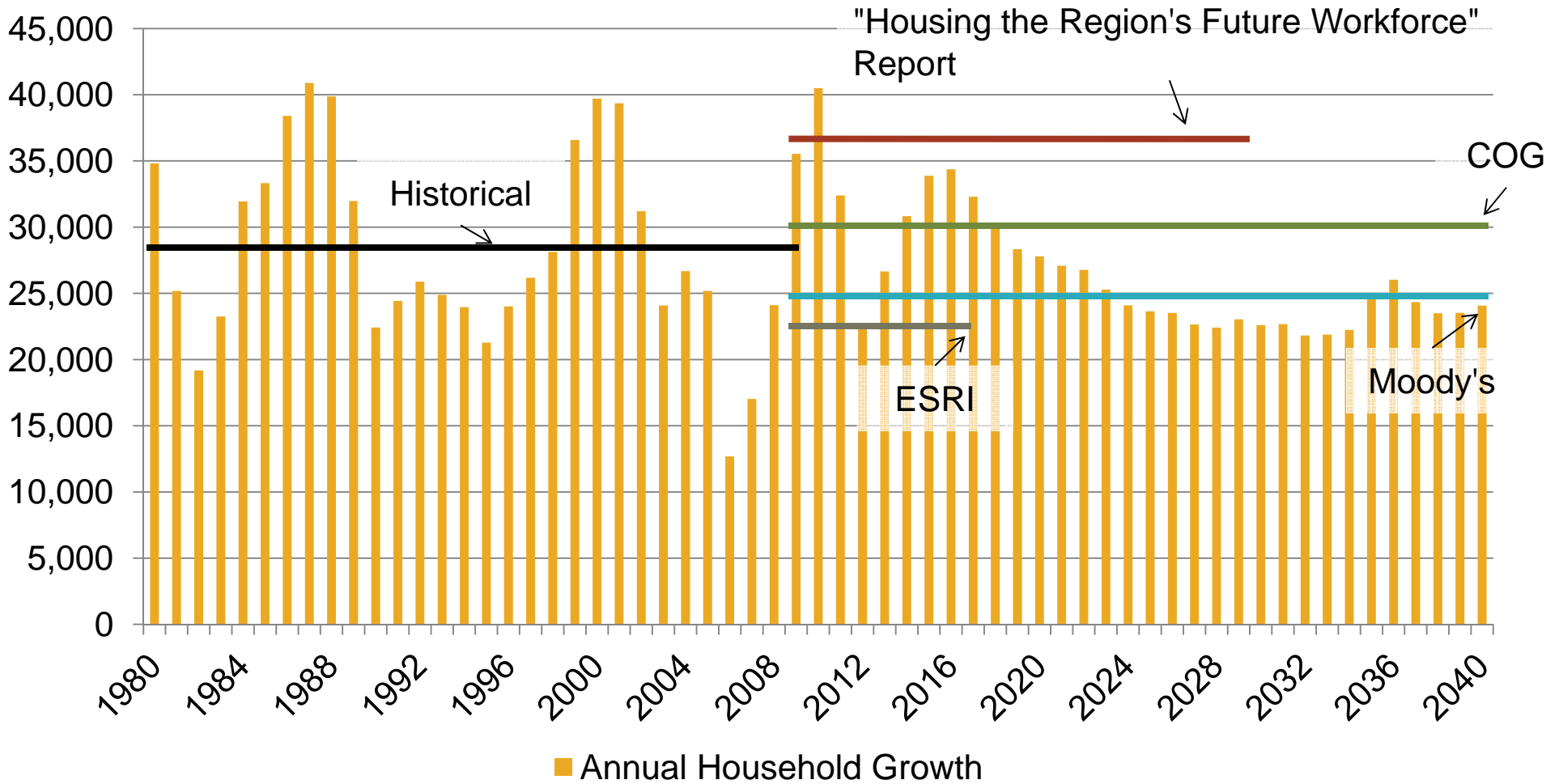


- **Employment growth**
- Location of employment **cores**
- Major **employers**
- Major **industries**
- Industries that are **growing/declining**
- **Economic development** initiatives

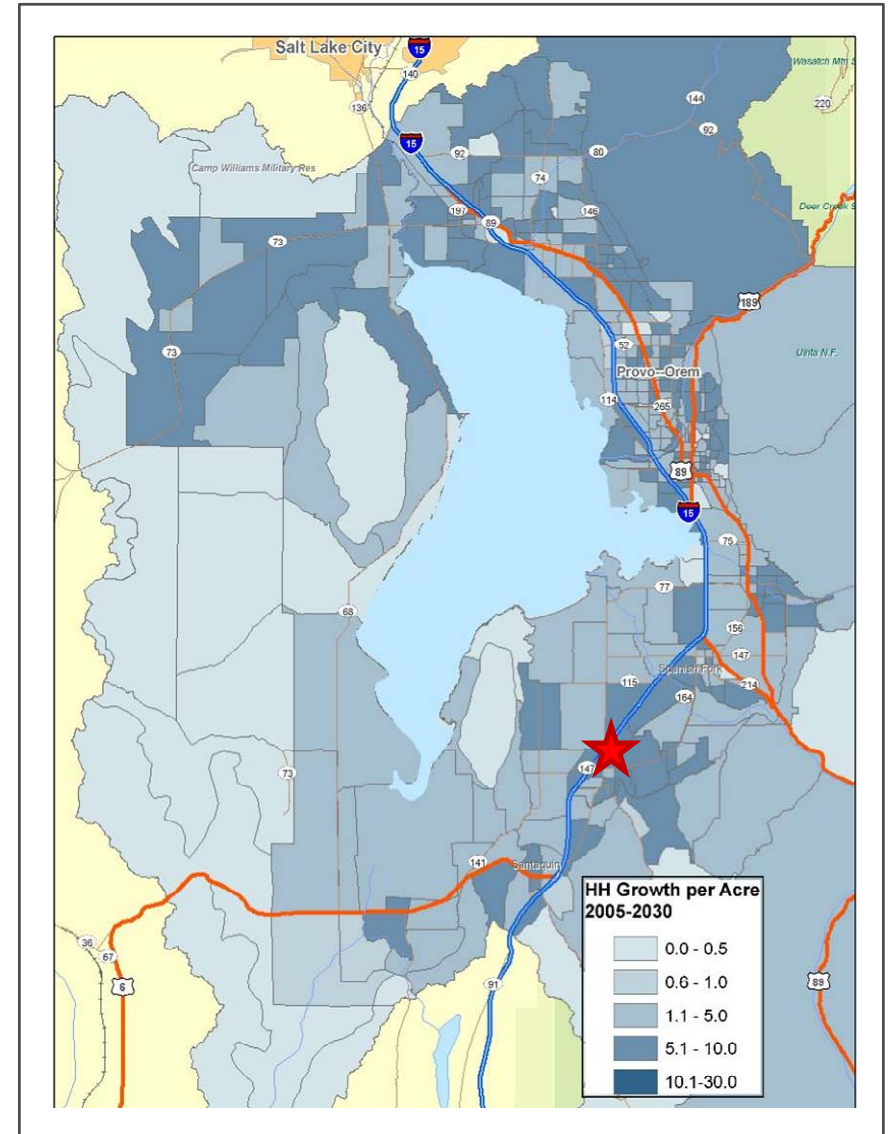


MANY DIFFERENT VERSIONS OF THE FUTURE

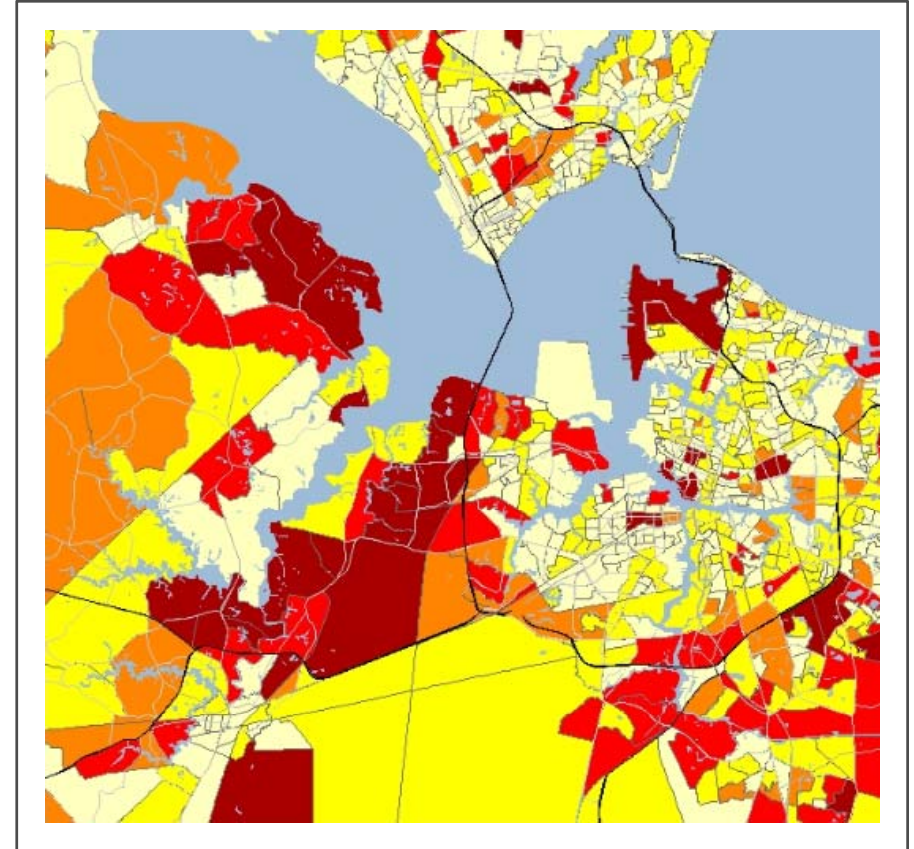
Forecasted Household Growth Washington-Alexandria-Arlington, D.C.-VA-MD, MSA 1980-2040



- **Household and population growth**
- **Income distribution**
- Household **age** by **income**
- Household **size** and **types**
- **Ownership** and **renter** propensity



- Claritas: www.claritas.com
- ESRI: www.esri.com
- American Fact Finder:
www.factfinder2.census.gov
- Local COG, TPO
- BLS: www.bls.gov
- Moodys: www.economy.com



- Who is doing the projections—are they reasonable?
- Does the product type match the current and future projections for the area?
 - Age
 - Income

Subject Site Analysis

SUBJECT SITE CHARACTERISTICS

- Size, topography, layout, and constraints
- Surrounding land uses
- Proximity to employment and services
- Area prestige/reputation
- Access, visibility, and frontage
- Planned infrastructure improvements



Result: Determination of appropriateness of the site for the potential use or uses in the context of the universe of alternatives

SWOT ANALYSIS



Strengths:

Site/area characteristics that promote development



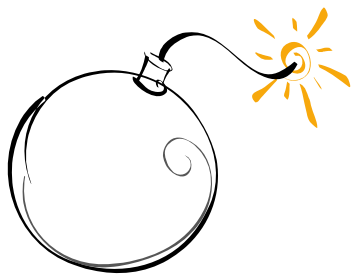
Weaknesses:

Site/area characteristics that present challenges



Opportunities:

Preliminary market opportunities based upon site analysis



Threats:

Competitive threat assessment

- Typically qualitative
- Does the hypothesis match what you believe about the site and/or area?

Competitive Supply Analysis

Current and future supply conditions:

- Performance of existing, relevant projects
 - Price trends
 - Historical sales/absorption rates
- Future development pipeline



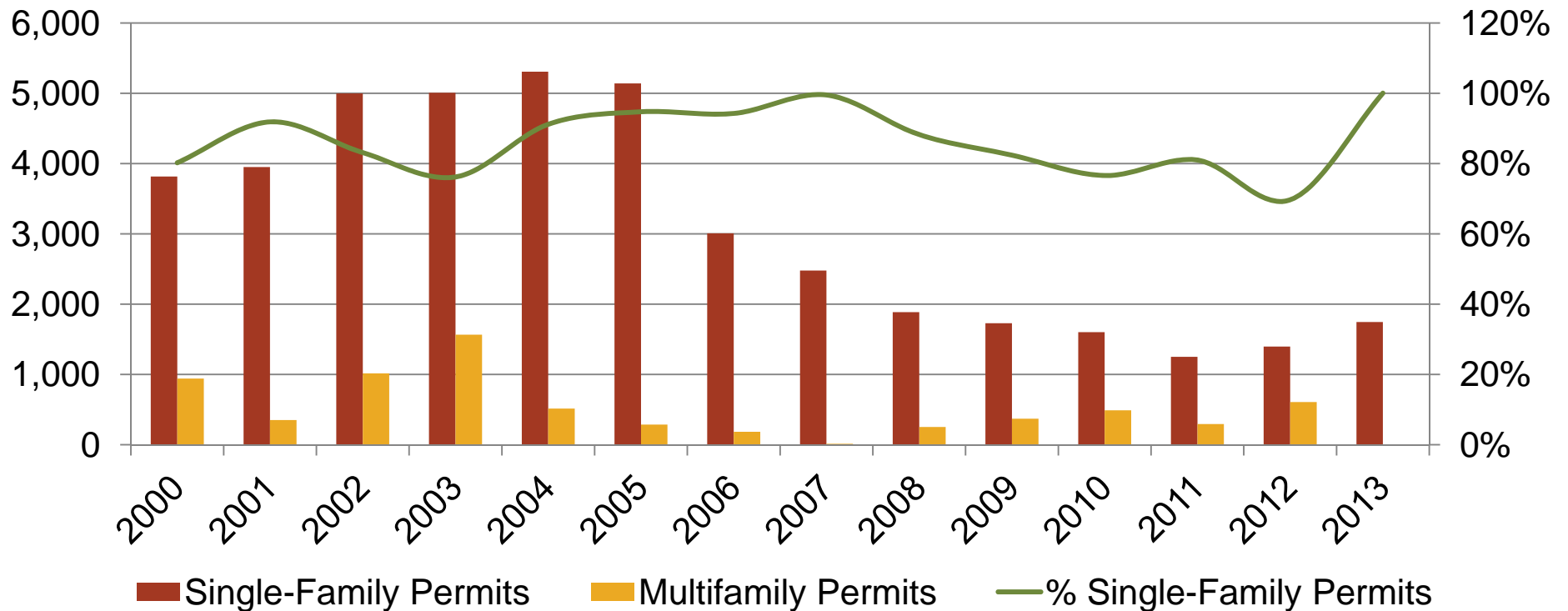


Understand appropriate positioning and orientation:

- How is the market segmented?
What are the dominant consumer preferences?
- Location, quality, product trade-offs in the marketplace
- What are the subject site's competitive advantages and disadvantages in this marketplace?

- Residential: Home sales, permits, absorption, rent
- Commercial: Vacancy, rents, absorption

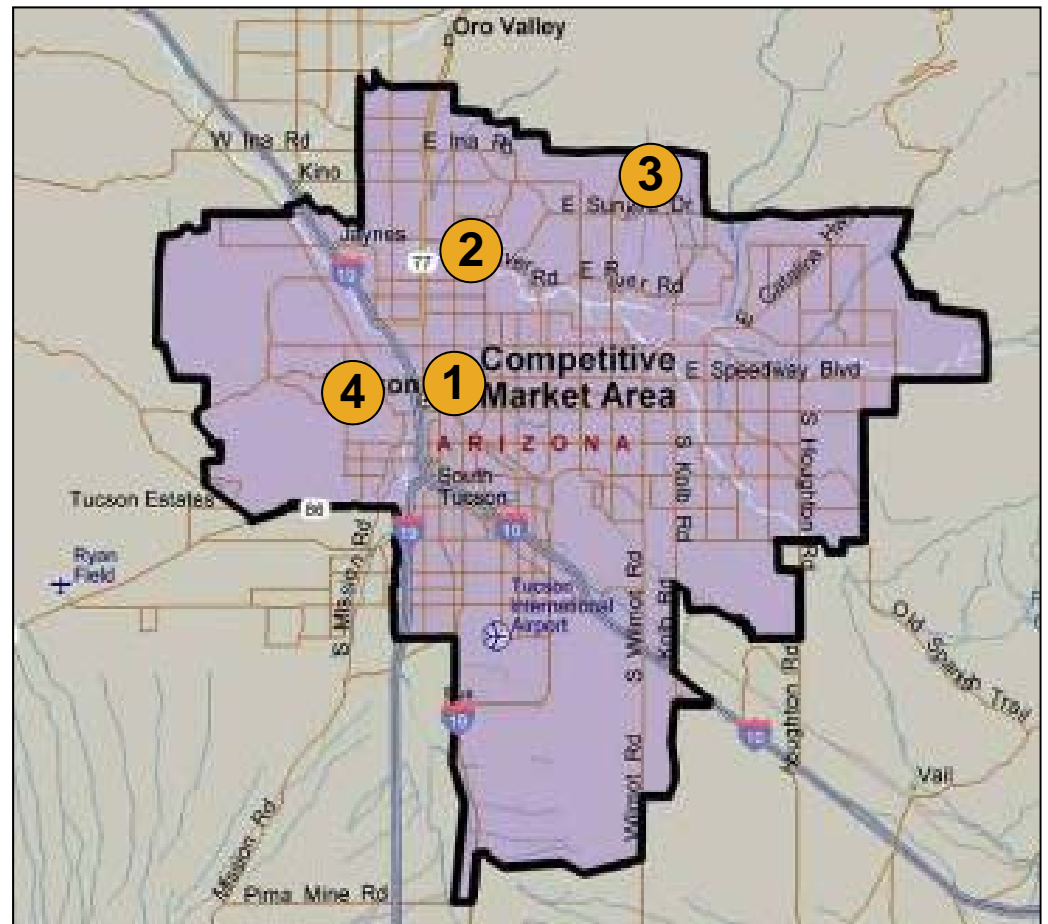
**Residential Building Permits in Prince William County
2000-2013**



Competitive Market Area (CMA): Geographical area within which the subject site will directly compete for consumers/tenants

- Geographical proximity
- Quality
- Market orientation

MAP KEY			
1	Ice House Lofts	3	Reflections
	<ul style="list-style-type: none"> • 1,229 SF • \$244 / SF 		<ul style="list-style-type: none"> • 1,033 SF • \$217 / SF
2	Stone Curves	4	Sonoran Palms
	<ul style="list-style-type: none"> • 1,000 SF • \$222 / SF 		<ul style="list-style-type: none"> • 817 SF • \$124 / SF

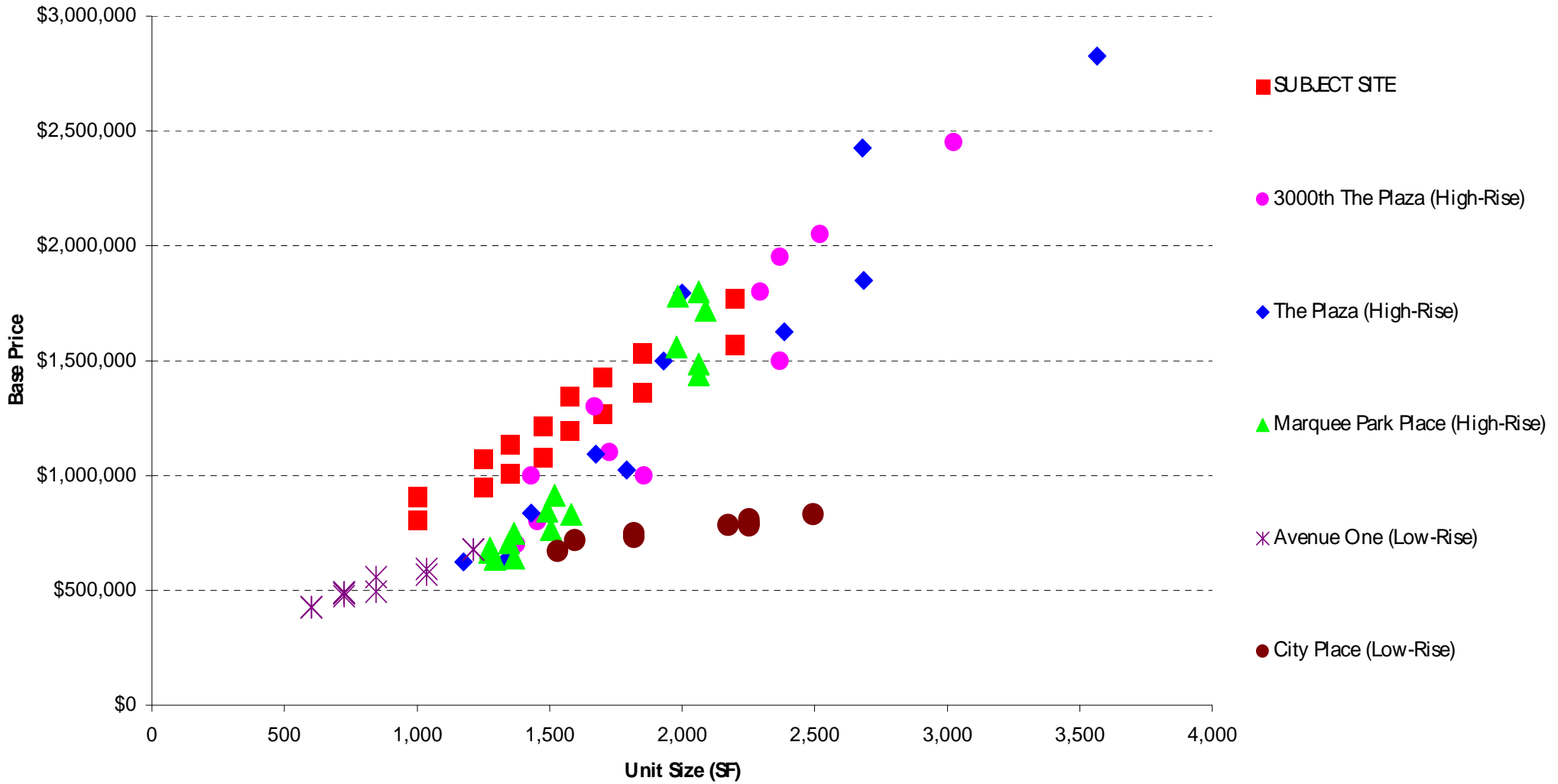


EXAMPLE: PRICING ADJUSTMENT MATRIX

RCLCO Unit Mix and Pricing Recommendation Compared to Market Comparables October 2013

<u>RCLCO RECOMMENDATION</u>				<u>Metro 303</u>			<u>West 130</u>				
Product	Avg. Rent	Avg. SF	Avg. \$/SF	Avg. Rent	Avg. SF	Avg. \$/SF	Subj. Site Discount	Avg. Rent	Avg. SF	Avg. \$/SF	Subj. Site Discount
Studio	1,475	475	\$3.11	1,925	623	\$3.09	\$450				
Small One Bedroom	1,825	613	\$2.98	2,328	853	\$2.73	\$502	2,343	844	\$2.65	\$517
Larger One Bedroom	1,950	675	\$2.89	2,565	987	\$2.60	\$615	2,620	982	\$2.56	\$670
One Bedroom + Den	2,038	800	\$2.55	2,650	1,121	\$2.37	\$612	2,793	1,129	\$2.36	\$755
Smaller Two Bedroom	2,250	925	\$2.43	3,025	1,276	\$2.37	\$775	3,153	1,279	\$2.37	\$902
Larger Two Bedroom	2,450	1,038	\$2.36	3,375	1,454	\$2.32	\$925	3,418	1,345	\$2.43	\$967

EXAMPLE: PRICE-SIZE-RELATIONSHIP SHOWN GRAPHICALLY



Secondary Market Data

- Historical permit activity
- New home sales data
- Resale market data

Sources

Permits:

www.socds.huduser.gov/led

Market Data:

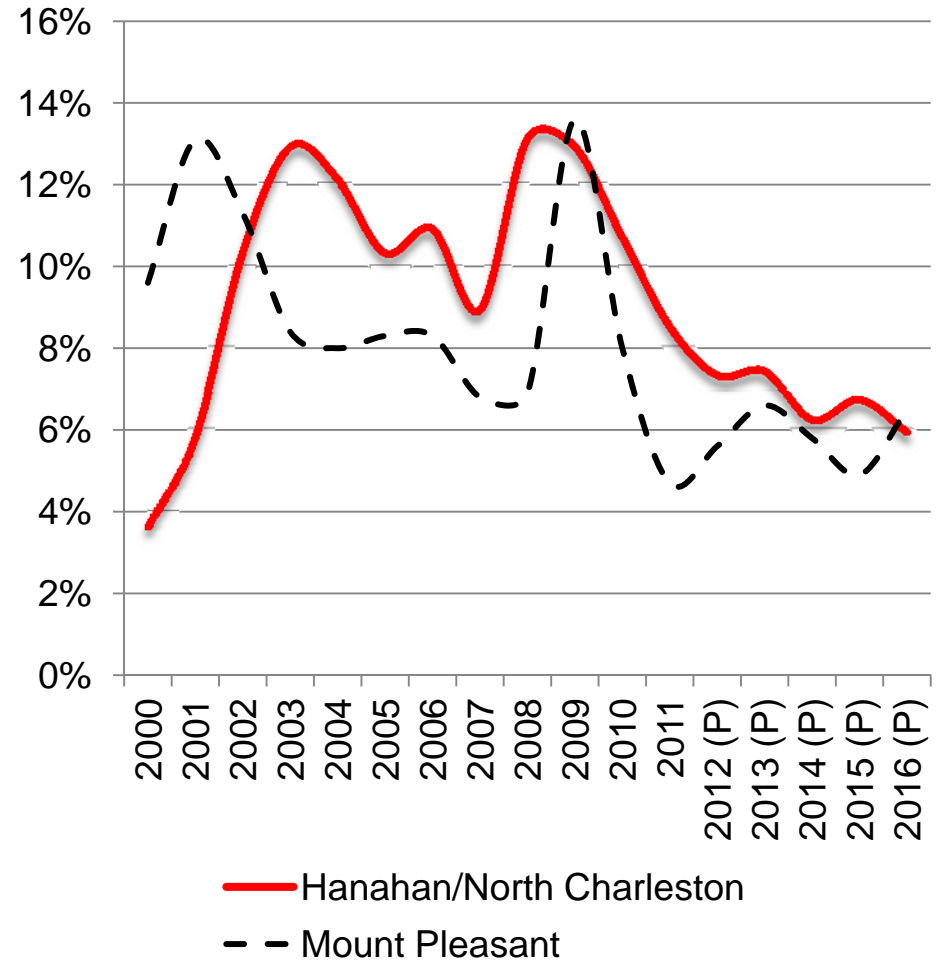
www.hwmarketintelligence.com

Resales: www.redfin.com

www.dataquick.com

Foreclosures: www.realtytrac.com

Historical and Projected Vacancy Rates in the Mt. Pleasant and North Charleston Submarkets



Source: REIS

Secondary Market Data

- Total inventory
- Vacancy rates
- Absorption
- New construction and pipeline
- Average rents and rate growth

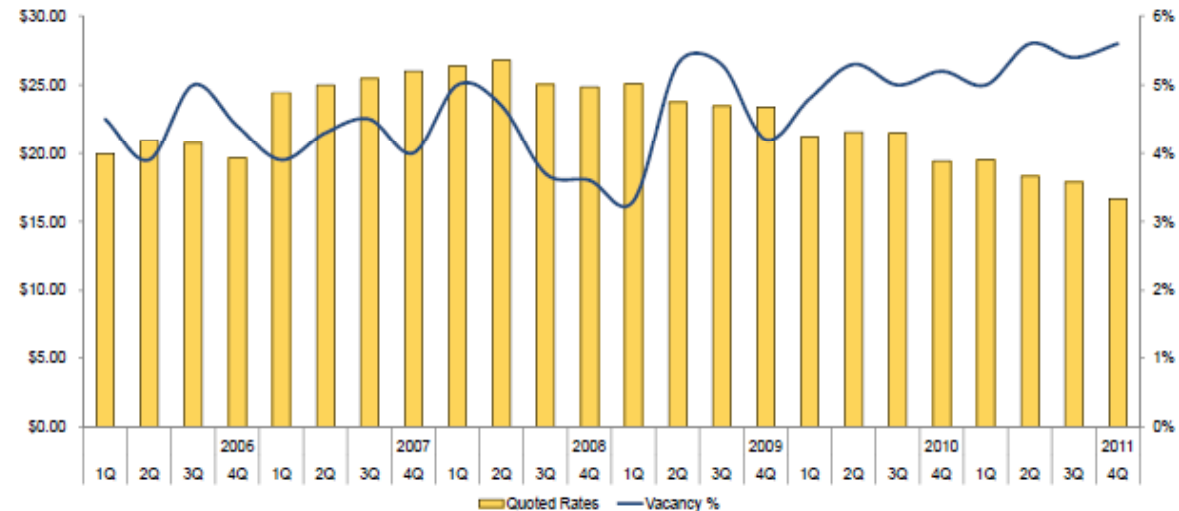
Sources

www.reis.com

www.costar.com

www.loopnet.com

**Retail Quoted Rental Rates and Vacancy
Northeast/Southwest Submarket
2006-2011**



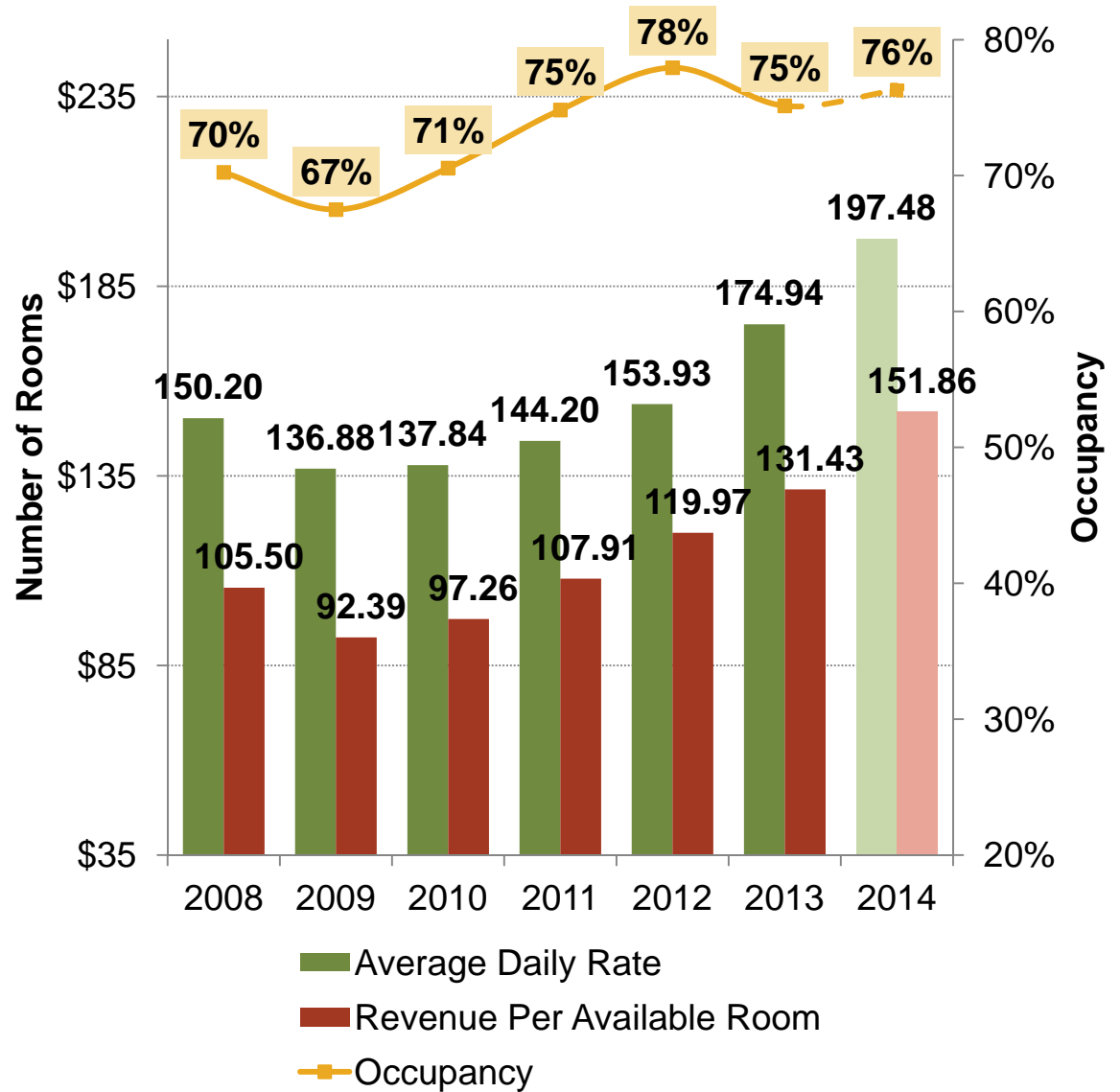
Source: CoStar

Secondary Market Data

- Total inventory
- Occupancy Rate
- New key absorption
- New construction and pipeline
- Seasonality
- Rates

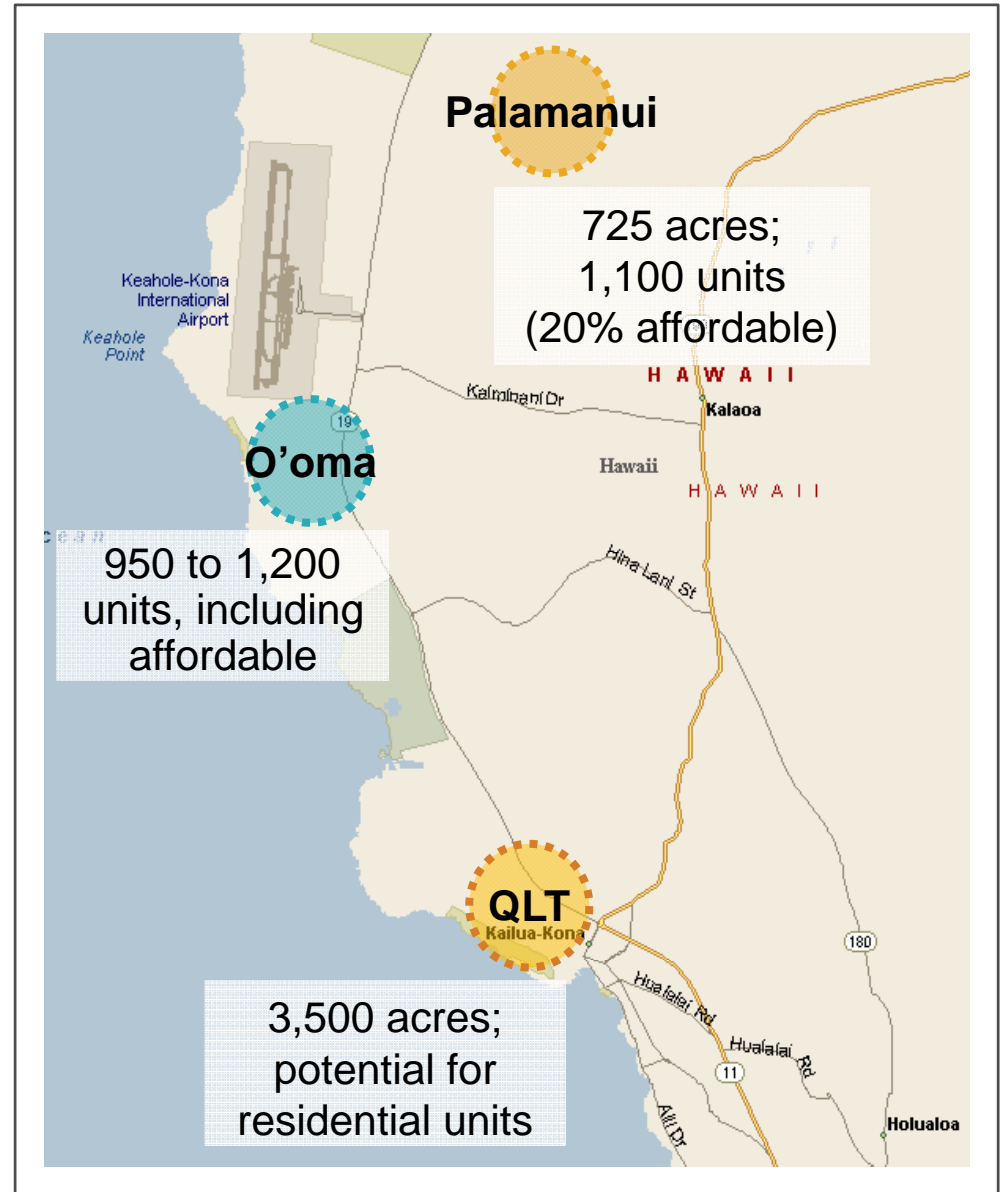
Sources

www.str.com



Market analysis needs to be forward-looking

- Sources of information on pipeline:
 - Secondary data sources
 - Newspaper and newsletter articles
 - Planning departments
 - Interviews with brokers/developers



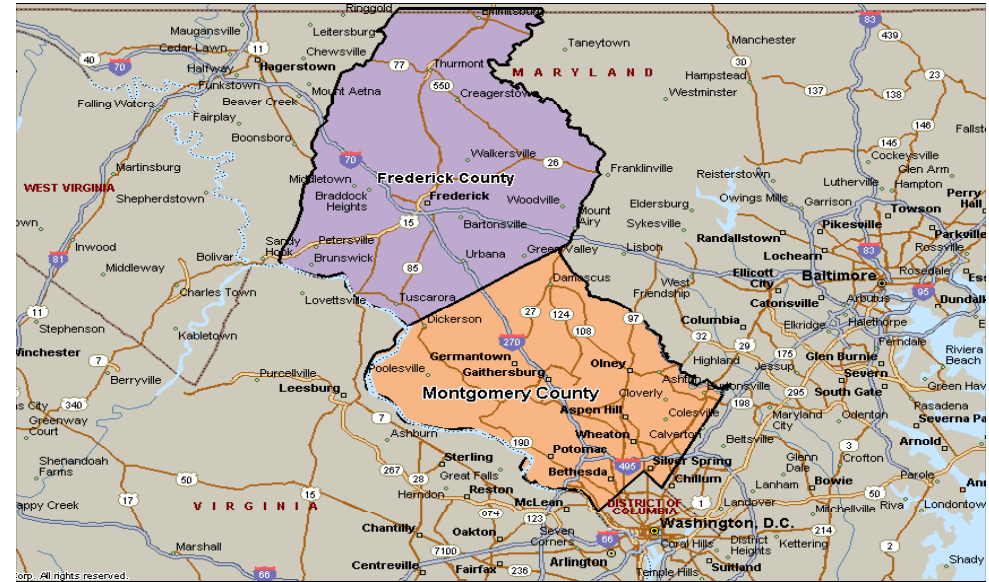
- Are the projects “cherry picked”?
- Are the adjustments to the subject site reasonable?
- Are the projects in close proximity to the subject site and/or share characteristics?

Demand Analysis

- Provide a quantitative, forward-looking context to the competitive market analysis
- Identifying underserved markets where pent-up demand may exist
- Describe the assumptions one must believe in order to justify projected success
- Only as useful as the quality of the demographic data and information on consumer preferences

Define the Primary Market Area (PMA):

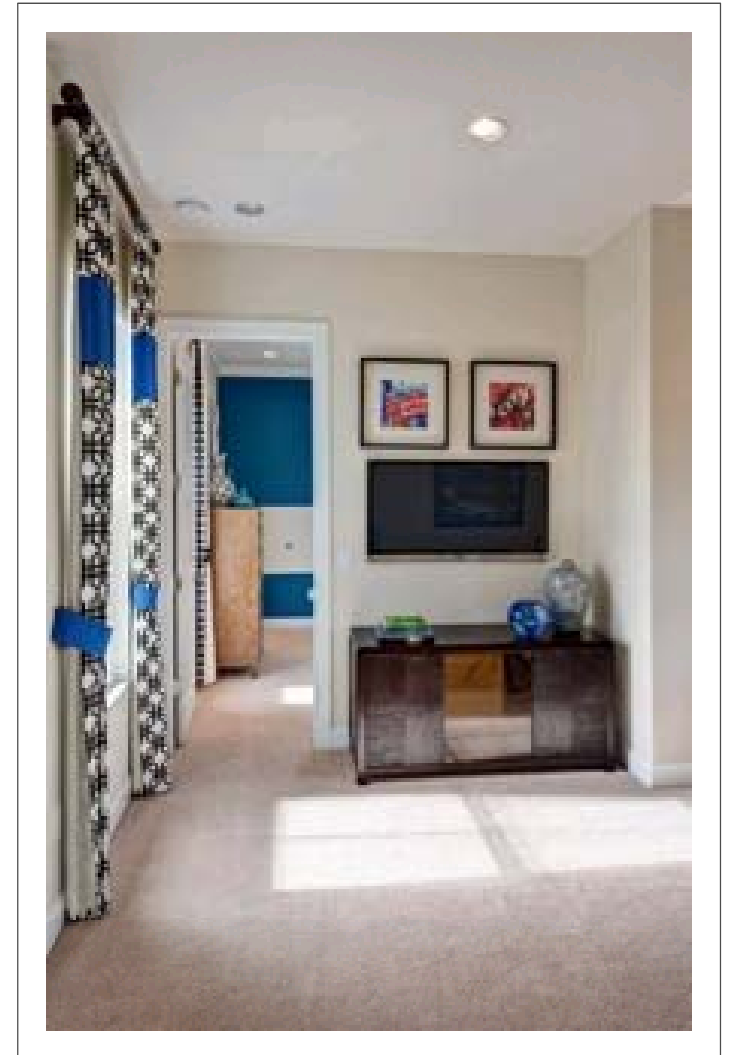
- Varies considerably by product type
- Determined by a variety of factors, including access (including drive times) and visibility, location of competitors, target market demographics, etc.



 Primary Market Area

Residential

- Household growth
- Qualified by income
- Age and move-down percentages
- Tenure shifts
- Turnover rate
- Consumer preferences



Retail

- Household growth
- Income
- Household expenditures
- Expenditures by store and center type
- Effects of internet
- Sales/SF thresholds

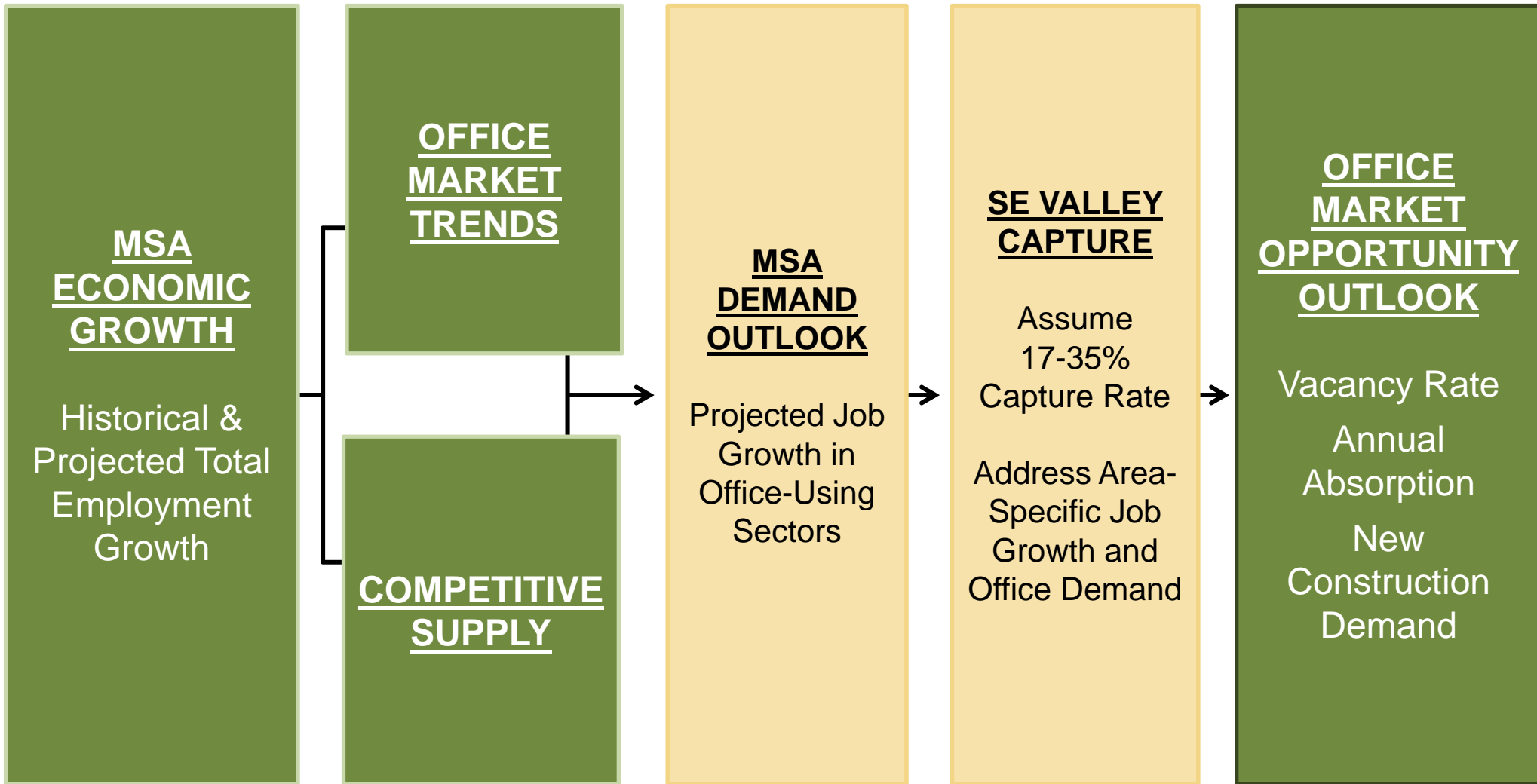


Office/Industrial

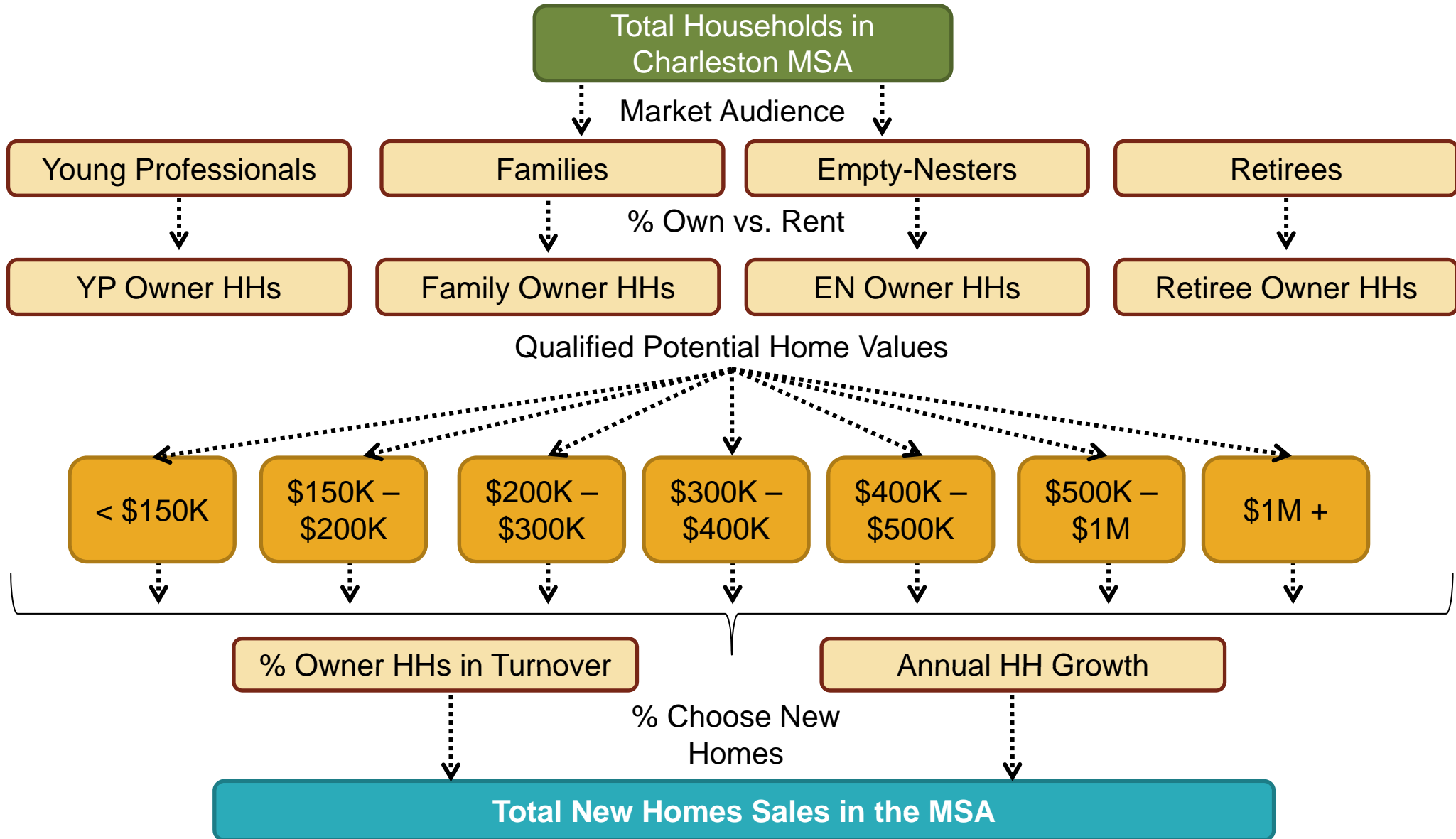
- Employment growth
- Industry distribution
- Distribution of jobs into space
- SF per new job

Historical Office Absorption

YEAR	ABSORPTION (SF)
2012	66,009
2011	26,750
2010	0
2009	20,000
2008	85,749
2007	24,000
2006	68,216
2005	184,487
2004	35,959
2003	35,133
2002	92,428
2001	114,723
2000	25,520
Average	59,921



DEMAND METHODOLOGY – RESIDENTIAL



The “art” that drives the analysis

- Factors:
 - Historical capture trends
 - Projected supply—what is the fair share?
 - Competitive advantages and challenges of the subject site
 - Uniqueness of the project



- Geographic area
- Capture rate
- Growth rates (households or employment)
- % new
- % turnover

Development Recommendations

THE END PRODUCT

- (Highest and) Best land use(s)
- Positioning – prices
- Absorption/Sales
- Orientation and target consumer
- Features and amenities

Lot Type	Mix	Home Base Price Range	Avg. Home Price	Home Size Range	Avg. Home Size	Value Ratio Range	Avg. Value Ratio	Lot to Home Ratio	Total Lot Value	Lot Value/ FF
Conventional										
<i>TH</i>	5%	\$158 – 206K	\$187K	1,200 – 2,000	1,600	\$103 – 132	\$117	15%	\$28K	\$940
40'	11%	\$206 – 264K	\$241K	1,600 – 2,200	1,900	\$113 – 136	\$127	21%	\$48K	\$1,211
50'	24%	\$243 – 311K	\$284K	1,900 – 2,600	2,250	\$112 – 136	\$126	20%	\$55K	\$1,098
60'	32%	\$290 – 380K	\$344K	2,350 – 3,000	2,675	\$116 – 130	\$129	20%	\$63K	\$1,057
74'	16%	\$348 – 448K	\$408K	2,800 – 3,450	3,125	\$118 – 138	\$131	19%	\$82K	\$1,108
86'	9%	\$443 – 538K	\$500K	3,250 – 4,200	3,725	\$128 – 136	\$134	20%	\$102K	\$1,184
98'	2%	\$507 – 739K	\$646K	3,900 – 5,200	4,550	\$112 – 142	\$142	20%	\$129K	\$1,320
TOTAL	100%	\$158 – 739K	\$342K	1,200 – 5,200	2,650	\$103 - \$142	\$128	20%	\$66K	\$1,104

THE END PRODUCT (EXAMPLE)

Land Use	DU/ Acre	Total Units	Unit Mix	Total Acres	Size Range	Avg. Size	Price Range	Avg. Price	Avg. Price/ Sqft
Residential									
Rowhomes	12.0	40	32%	3.3	1,800- 2,600	2,200	\$280,000- \$360,000	\$320,000	\$145
Stacked Flats	24.0	40	32%	1.7	1,300- 2,000	1,600	\$195,000- \$325,000	\$280,000	\$175
Condos Above Retail	14.0	20	16%	1.4	900- 1,500	1,300	\$185,000- \$275,000	\$250,000	\$192
Live/Work	10.0	5	4%	0.5	1,800- 2,300	2,050	\$270,000- \$365,000	\$335,000	\$163
High-Density Detached	6.0	20	16%	3.3	2,200- 3,000	2,600	\$400,000- \$600,000	\$525,000	\$202
Total/Average	15.1	125	100%	10.3	900- 3,000	1,922	\$185,000- \$600,000	\$329,400	\$171

Commercial	FAR	Total SF	Unit Mix	Total Acres
Office Above Retail (Creative)	1.0	25,000	12%	0.6
Professional/Medical Office	0.5	25,000	12%	1.1
Freestanding Retail	0.75	55,000	26%	1.7
Retail Below Residential	0.5	25,000	12%	-
Hotel (120 Keys)*	0.5	85,000	40%	2.0
Total/Average		215,000	100%	5.4

Civic/Other	Total Acres
Civic/Library/Performing Arts	1.5
Park	2.0
Circulation	3.5
Total/Average	7.0
Total Acres	22.7

Land Use	Absorption Schedule					
Residential	2015	2016	2017	2018	2019	2020
Rowhomes	10	10	10	10		
Stacked Flats			6	6	15	13
Condos Above Retail		8	6	6		
Live/Work			2	1	1	1
High-Density Detached		5	5	5	5	
Total/Average	10	23	29	28	21	14

- Does the data lead to the conclusions?
- Positioning and pace

Outside the Conventional Market Analysis

- Does the conventional market study provide enough direction in an uncertain and challenging environment?
 - Often the answer is “**No**”
- Need additional tools, deeper analysis, and more distinct and targeted development recommendations.

Additional Tools

- Case Studies (www.casestudies.uli.org, www.cnu.org)
- Consumer Research
- Fiscal Impact Analysis

Fewer “no-brainers”

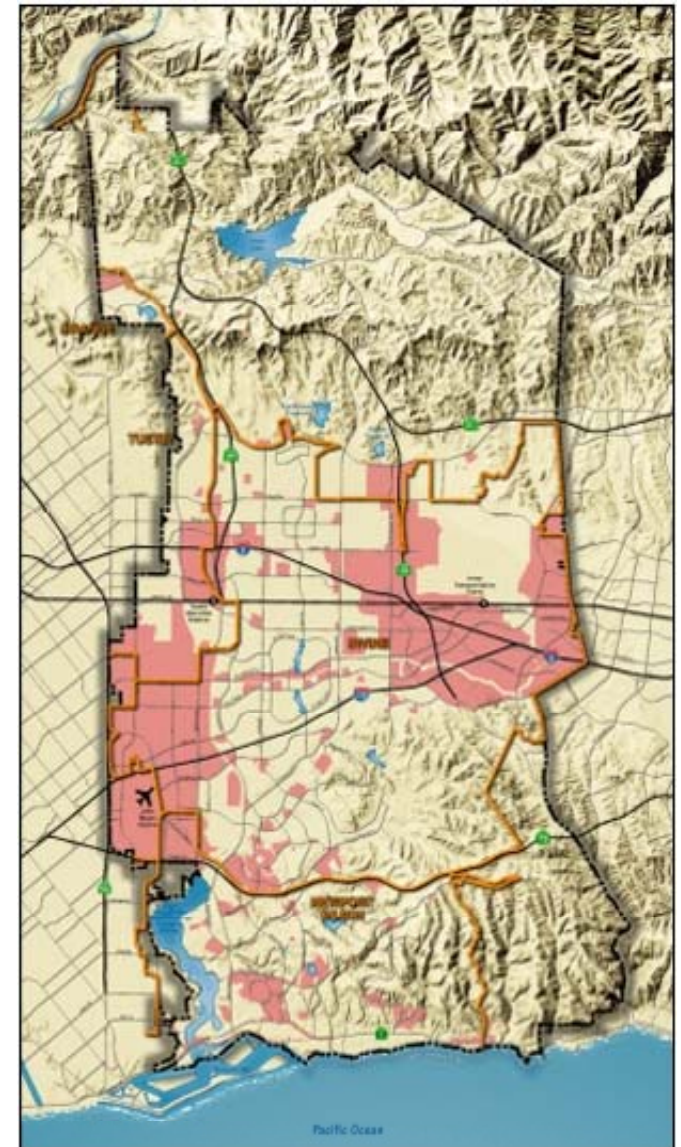
- Sprawl and slow/no growth policies
- Infill and redevelopment
- Mixed-use and neo-traditional projects
- Mixing in affordable and workforce housing
- Dealing in markets with few comps
- Need to learn from successes and failures elsewhere



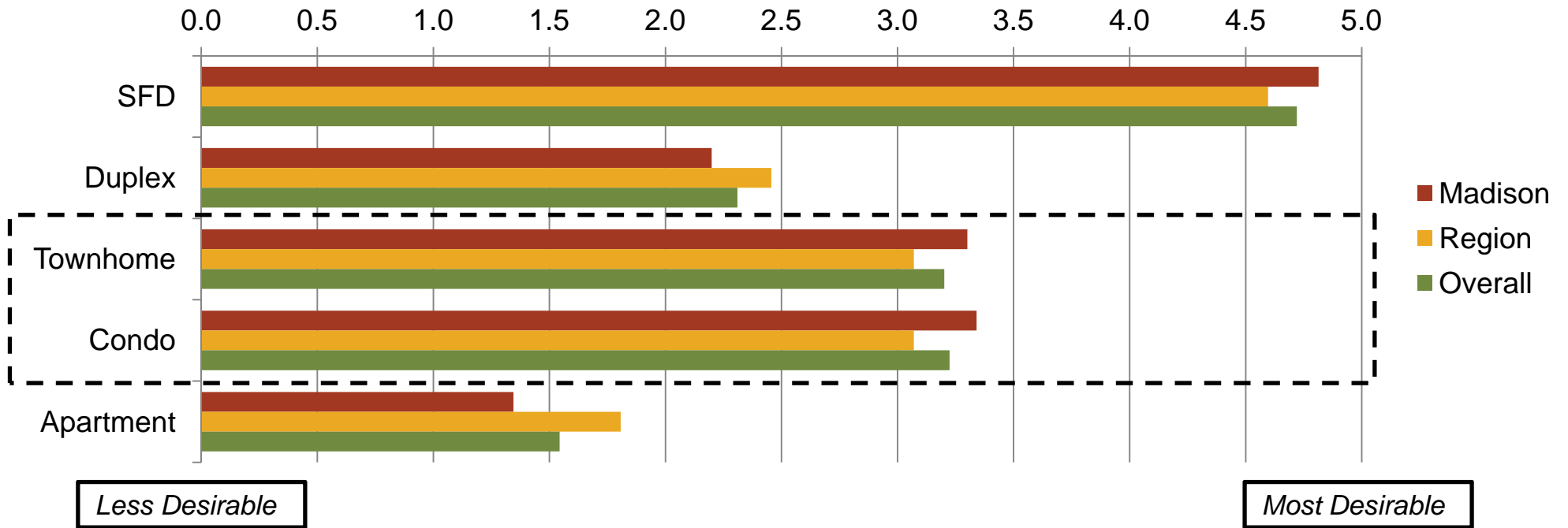
Shifting consumer preferences

- Powerful demographic shifts—Baby Boomers, Gen X, Gen Y
- Changing product preferences—distinct residential housing types, lifestyle shopping, changing preferences of office users
- Demand statistics and knowing the competitive supply are not enough

- Very useful if project is first of its kind in a particular area/region
- Understanding market acceptance, critical success factors, critical failures, and lessons learned
- Lessons from other markets can't be blindly applied—every site and project is unique

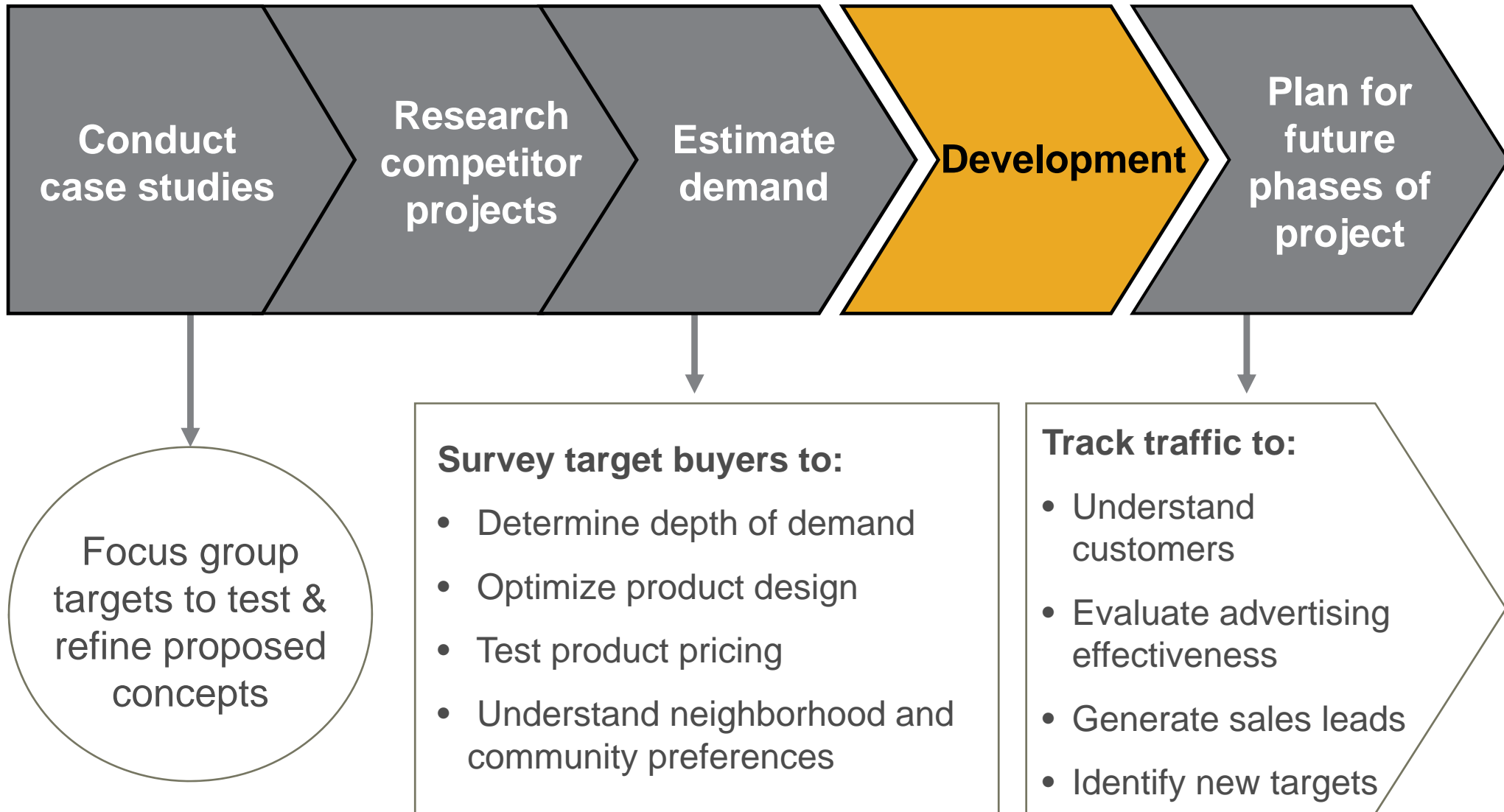


**Age of Respondents Considering Moving to a Mixed-Use Suburban Neighborhood
Greater Jackson Region, MS 2014**

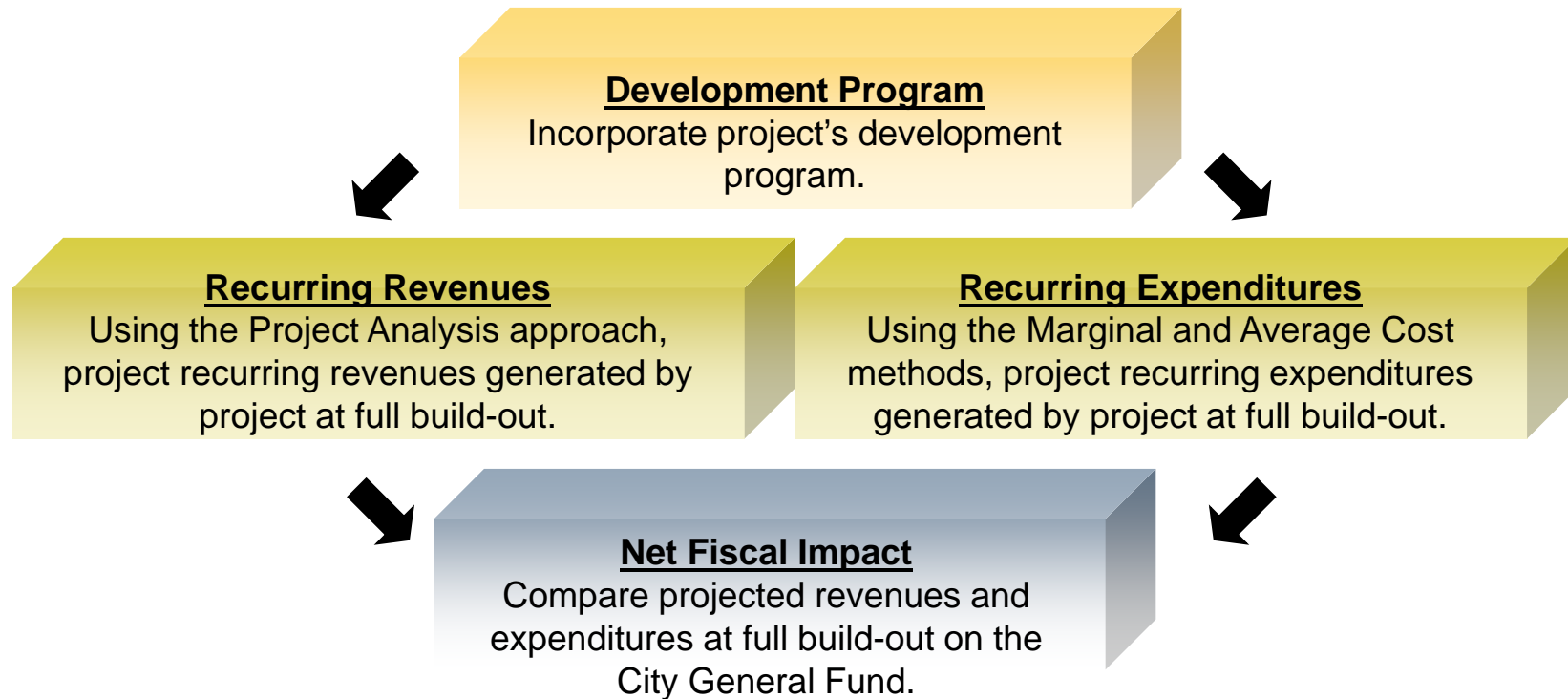


What's Missing: Deeper understanding of target market segments:

- Demand for new products, amenities, features
- Consumer input to design, pricing, advertising, and marketing



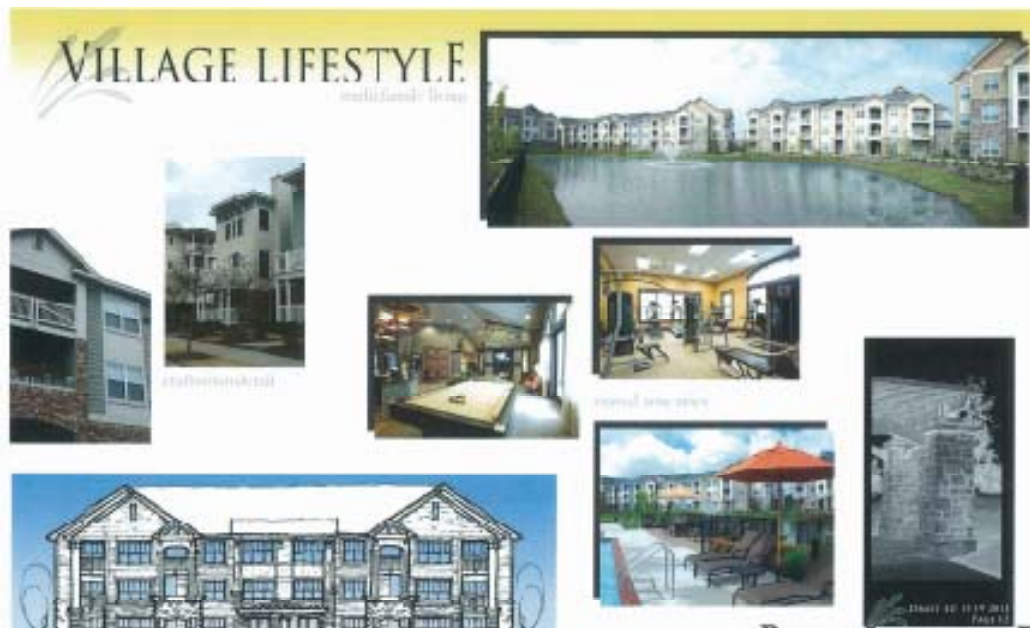
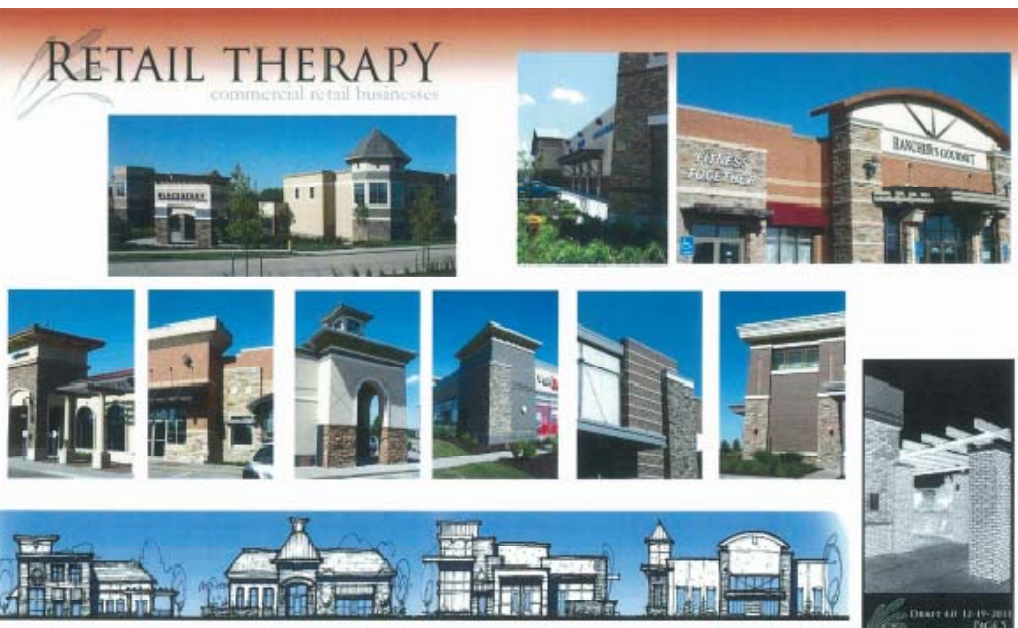
FISCAL IMPACT STUDIES



- Growing resistance in many jurisdictions to fiscally-negative development—primarily residential communities
- Help understand which land uses or combinations of uses are fiscally positive
- Tremendous benefit in pre-development land planning—removing approvals obstacles before they occur

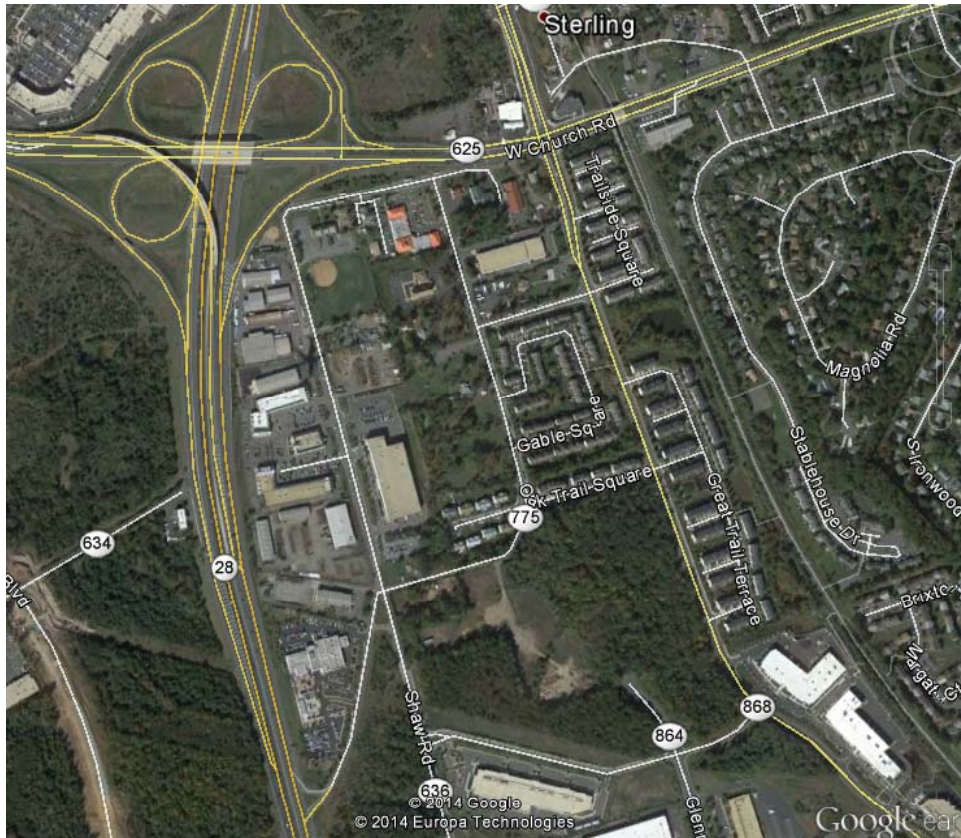
Examples

Calendar Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
Beginning Units	0	250	500	600	850	1,100	1,200	1,300	1,400	1,500	1,600	1,625	
Maximum Apartment Units Proposed	150	150		150	150								600
Maximum Other Residential Units Proposed	100	100	100	100	100	100	100	100	100	100	25	-	1,025
Maximum Total Units Proposed	250	250	100	250	250	100	100	100	100	100	25	-	1,625
Ending Units	250	500	600	850	1,100	1,200	1,300	1,400	1,500	1,600	1,625	1,625	



LOUDOUN COUNTY

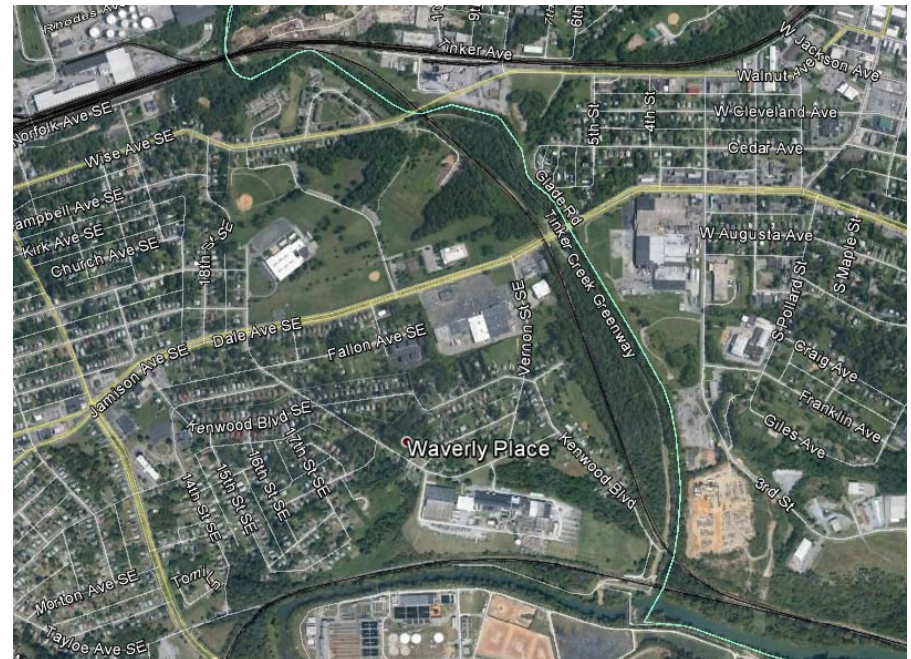
In summary, the proposed application will rezone the 17.90 acre Property from the R-4 and PD-IP zoning districts to the PD-CC-CC and R-16 rezoning districts in order to develop a community serving commercial center with up to 160,000 square feet and a residential community of single family attached dwellings at a density of 9.95. Rezoning this Property will create a unified building program with architectural design guidelines to ensure quality development in an area of the County which has historically had a great diversity of uses.



The purpose of this request is to rezone a portion of Tax Parcel 4311201 and the entirety of Tax Parcel 4311204 from CG (Commercial-General) and CLS (Commercial -Large Site) to MXPUD and I-1(Light Industrial) to allow for the development of a new Commercial Center. The total acreage being rezoned is 5.86 acres+/- . The property currently has approximately 42,000 sf of partially occupied and underutilized retail space on the subject portion of the property. This rezoning request provides for the complete redevelopment of the site into a new mixed use commercial center. The request for a portion of the property to be rezoned to I-1 is to allow for the construction of a 3 Story, fully enclosed and conditioned, warehouse storage facility on Parcel B. The use of the I-1 property will generally be limited to the warehouse storage facility and other uses that are commonly allowed in both I-1 and MXPUD, however specific uses not permitted are listed in the proffered conditions, Exhibit B.



Illustrative Schematic
Parkside Commons
Roanoke, Virginia
6-5-2014



Study Purpose

The Penn Daw study area could become the site of a mixed-use redevelopment that would include residential units along with offices and retail space. The purpose of this study is to assess the development feasibility of scenarios that have emerged from community discussions. Below is a summary of the development options under consideration.

Figure 2. Summary of Development Options

Development Option	SFD Units	TH Units	MF Units	Retail SF	Office SF	Total Non-Res. SF	Total Res. Units
Current Zoning	24	0	0	221,341	0	221,341	24
Current Comp. Plan	3	0	0	194,270	57,792	252,062	3
Task Force Option 1	4	20	300	130,000	0	130,000	324
Task Force Option 2	4	20	500	90,000	0	90,000	524
Developer Option	0	36	780	70,000	0	70,000	816

Source: Fairfax County

SUPPORTABLE SQUARE FOOTAGE AT PENN DAW CONVENIENCE CENTER PEDESTRIAN TRADE AREA 2010 – NO SUPERMARKET

	<u>.25 MILE RADIUS</u>	<u>.5 MILE RADIUS</u>
<u>TOTAL HOUSEHOLD INCOME</u>		
Households	183	2,573
Average Household Income	\$89,241	\$86,742
Total Household Income	\$16,331,103	\$223,187,166
<u>SPENDING FACTORS</u>		
Shoppers' Goods	12.0%	\$1,959,732
Convenience Goods	4.7%	\$767,562
Food Away from Home	4.7%	\$767,562
Services	0.7%	\$114,318
<u>SALES PRODUCTIVITY (Sales Per Square Foot)</u>		
Shoppers' Goods	\$300	\$26,782,460
Convenience Goods	\$250	\$10,489,797
Food Away from Home	\$400	\$10,489,797
Services	\$250	\$1,562,310
<u>CAPTURE RATES</u>		
Shoppers' Goods	5.0%	5.0%
Convenience Goods	25.0%	25.0%
Food Away from Home	10.0%	10.0%
Services	25.0%	25.0%
<u>TRADE AREA SALES "CAPTURED"</u>		
Shoppers' Goods	\$97,987	\$1,339,123
Convenience Goods	\$191,890	\$2,622,449
Food Away from Home	\$76,756	\$1,048,980
Services	\$28,579	\$390,578
<u>SALES INFLOW (25 PERCENT)</u>		
Shoppers' Goods	\$24,497	\$334,781
Convenience Goods	\$47,973	\$655,612
Food Away from Home	\$19,189	\$262,245
Services	\$7,145	\$97,644
<u>SUPPORTABLE SQUARE FOOTAGE</u>		
	<u>TRADE AREA + INFLOW</u>	<u>TRADE AREA + INFLOW</u>
Shoppers' Goods	408	5,580
Convenience Goods	959	13,112
Food Away from Home	240	3,278
Services	143	1,953
TOTAL	1,750	23,923

SUPPORTABLE MULTIFAMILY UNITS AT PENN DAW PROBABLE MARKET AREA (\$1,000 - \$1,750 MONTHLY RENTAL RATE RANGE)

	Huntington-Mount Vernon ¹	Eisenhower Ave ¹	I-395 Corridor ¹	Old Town ¹	Springfield-Burke ¹
Number of Households in Market ²	44,875	2,876	89,240	16,273	85,261
% Renters in Market ²	38.82%	49.37%	60.28%	50.91%	23.39%
Number of Renter Households in Market	17,420	1,420	53,794	8,285	19,943
Multifamily Monthly Rental Rate Range	\$1,000 to \$1,750	\$1,000 to \$1,750	\$1,000 to \$1,750	\$1,000 to \$1,750	\$1,000 to \$1,750
Minimum Household Income for Rental Rate Range ³	\$40,000 to \$70,000	\$40,000 to \$70,000	\$40,000 to \$70,000	\$40,000 to \$70,000	\$40,000 to \$70,000
% of Household Incomes in Income Qualification Range ³	81%	88%	78%	82%	93%
Number of Renter Households in Income Qualification Range	14,128	1,247	42,067	6,793	18,507
Capture Rate	4%	1.5%	0.5%	0.5%	0.25%
Number of Units Supportable	565	18	210	33	46
Total Units Supportable	872				

¹ Real estate submarkets defined by ESRI

² ESRI

³ Market household income from ESRI; income qualification range: <30% of household income spent on shelter

Melina Duggal

Senior Principal

Phone: (240) 644-1307

mduggal@rclco.com

RCLCO

7200 Wisconsin Avenue

Suite 1110

Bethesda, MD 20814

Phone: (240) 644-1300

www.rclco.com