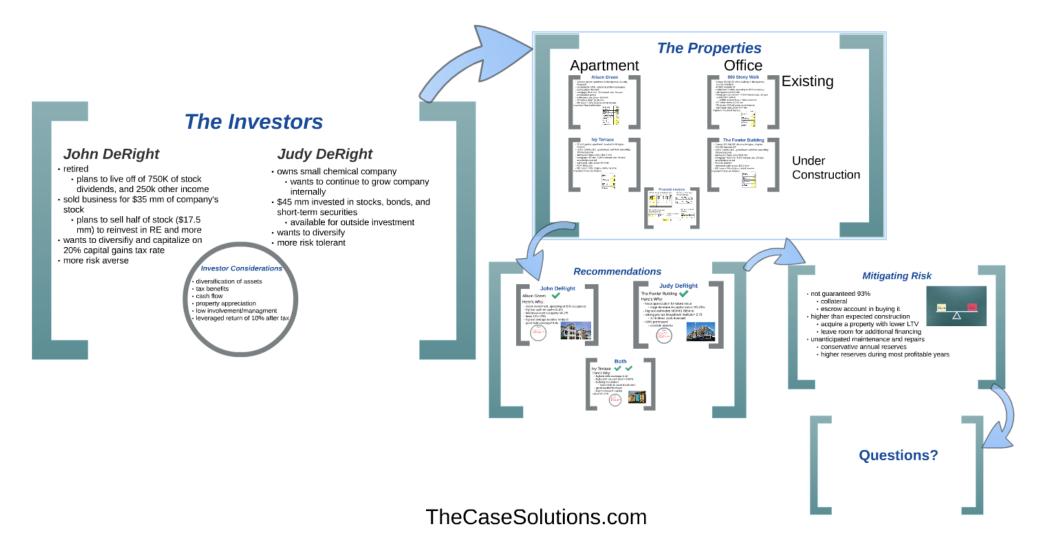
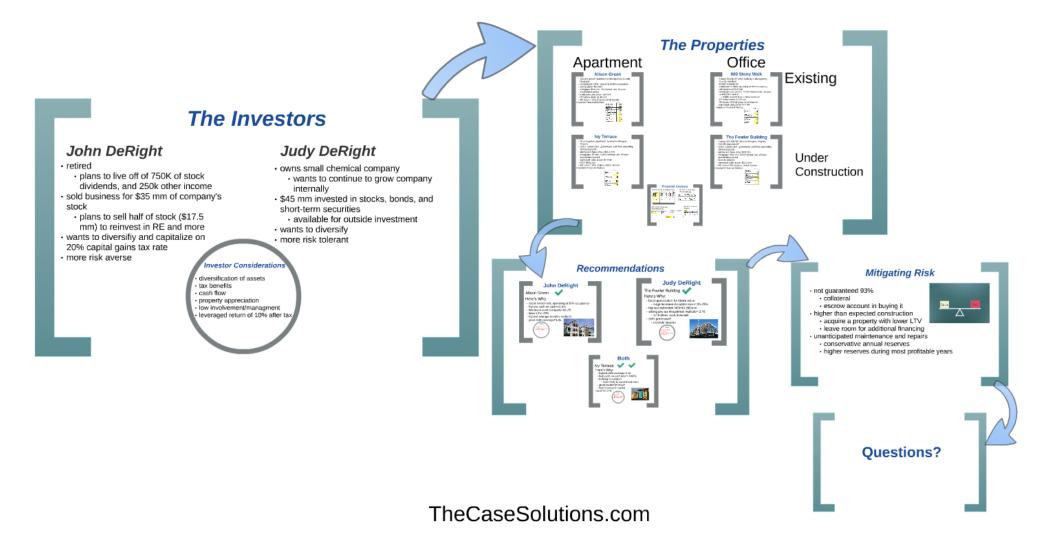
#### Angus Cartwright Harvard Case Solution & Analysis



#### Angus Cartwright Harvard Case Solution & Analysis



### The Investors

### John DeRight

- retired
  - plans to live off of 750K of stock dividends, and 250k other income
- sold business for \$35 mm of company's stock
  - plans to sell half of stock (\$17.5 mm) to reinvest in RE and more
- wants to diversify and capitalize on 20% capital gains tax rate
- more risk averse

### Judy DeRight

- owns small chemical company
  - wants to continue to grow company internally
- \$45 mm invested in stocks, bonds, and short-term securities
  - · available for outside investment
- · wants to diversify
- more risk tolerant

#### **Investor Considerations**

- diversification of assets
- · tax benefits
- cash flow
- · property appreciation
- · low involvement/managment
- leveraged return of 10% after tax

upitalize uli 2

# more risk to

### **Investor Considerations**

- diversification of assets
- tax benefits
- cash flow
- property appreciation
- low involvement/managment
- leveraged return of 10% after tax

## The Properties Office

### **Apartment**

#### **Alison Green**

- 100 unit garden apartment in Montgomery County. Maryland
- · completed in 2009, operating at 95% occupancy
- asking price= \$21 mm
- · mortgage= \$14 mm, 4% interest rate, 30 year amortization period
- estimated sales price= \$24 mm
- CF before debt= \$1.45 mm · RE taxes = 12% of gross rental income

mportant Financial Metrics:



#### **Ivy Terrace**

- · 75 unit garden apartment, located in Arlington,
- · under construction, guaranteed cash flow assuming 93% occupancy
- asking purchase price= \$11.2 mm
- mortgage= \$7 mm, 4.25% interest rate, 30 year amortization period
- estimated sales price= \$14 mm
- NOI= \$900,000
- RE taxes= 10% of gross rental income Important Financial Metrics:

A 100 A 40 FT 1	
Service Bending to 1977	
ARIE HILL MIT	
Continue State	

#### 900 Stony Walk

- 5 story, 80,000 SF office building in Montgomery County, Maryland
- 67,000 rentable SF
- · completed in 2010, operating at 95% occupancy
- · asking price=\$15.5 mm
- · mortgage= \$12.25 mm, 4.75% interest rate, 25 year amortization period
  CMBS backed loan--> Non-recourse!
- CF before debt= \$1.05 mm
- · RE taxes= 12% of gross rental income
- · estimated sales price= \$17 mm

mportant Financial Metrics:



### Existing

#### The Fowler Building

- · 2 story, 135,000 SF office in Arlington, Virginia
- 110,000 rentable SF
- under construction, guaranteed cash flow assuming 93% occupancy
- asking purchase price=\$28 mm
- mortgage= \$21 mm, 4.5% interest rate, 25 year amortization period
- NOI=\$1.865mm
- estimated sales price= \$34.5 mm
- · RE taxes=10% of gross rental income

mportant Financial Metrics:

Under Construction

#### **Financial Analysis** Exhibit 1-List of Salient Facts Exhibit 2- First Year





# **Alison Green**

- 100 unit garden apartment in Montgomery County, Maryland
- completed in 2009, operating at 95% occupancy
- asking price= \$21 mm
- mortgage= \$14 mm, 4% interest rate, 30 year amortization period
- estimated sales price= \$24 mm
- CF before debt= \$1.45 mm
- RE taxes = 12% of gross rental income

Important Financial Metrics:

	Alison Green
Gross Purchase Price	\$20,000,000
Depreciable Life	27.5
Estimated Sales Price	\$24,000,000
NOI	\$1,450,000
Equity Investment	\$6,000,000
Constant Loan Pmt	5.73%
Leverage (+/-)	1.52%
Price/Unit or Price/Rentable SF	200,000.00
Other Op Expenses/Gross Revenue	17%
Avg Monthly Rents/Unit or Rent/SF	\$1,875
Current or Projected Occupancy	95.00%
Added Margin	28.80%
Break-Even Occupancy	66.20%
Loan To Value	70.00%
Debt Coverage Ratio	1.81
Spread on Cap Rates	-0.63%
Cash on Cash	10.80%
Increase in Capital Value	20.00%

	Alison Green
Gross Purchase Price	\$20,000,000
Depreciable Life	27.5
Estimated Sales Price	\$24,000,000
NOI	\$1,450,000
Equity Investment	\$6,000,000
Constant Loan Pmt	5.73%
Leverage (+/-)	1.52%
Price/Unit or Price/Rentable SF	200,000.00
Other Op Expenses/Gross Revenue	17%
Avg Monthly Rents/Unit or Rent/SF	\$1,875
Current or Projected Occupancy	95.00%
Added Margin	28.80%
Break-Even Occupancy	66.20%
Loan To Value	70.00%
Debt Coverage Ratio	1.81
Spread on Cap Rates	-0.63%
Cash on Cash	10.80%
Increase in Capital Value	20.00%

CJ.