

CHAPTER 15

Investment Real Estate

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Real Estate Investment Terminology

Calculate: Before Tax Cash Flow (Cash throw off)

Potential Gross Income

- Vacancy & Collections Effective Gross Income
- Operating Expenses Net Operating Income
- Annual Debt Service Before Tax Cash Flow

Before tax cash flow: Pre-tax measurement of cash generated by the property



Real Estate Investment Terminology

After Tax Cash Flow: Cash return after paying expenses, debt service and income taxes Calculate: After Tax Cash Flow

Potential Gross Income

- Vacancy & Collections Effective Gross Income
- Operating Expenses Net Operating Income
- Annual Debt Service Before Tax Cash Flow
- Income Taxes
 After Tax Cash Flow

Real Estate Investment Terminology

Capital Gain or Loss: Profit or gain that will be subject to tax after selling the property

Step 1 Property Adjusted Basis

Property Acquisition Cost

Capital Improvements
 Property Adjusted Basis

Step 2 Calculate Capital Gain or Loss

Property Sales Price less expenses

- Property Adjusted Basis Capital Gain or Loss on Sale

Tax Shelter

Deductions exceed
 taxable income

Sound tax shelter provides:

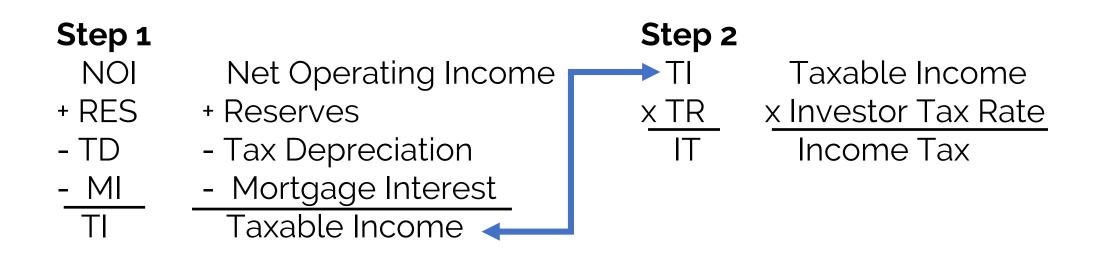
- Property appreciation
- Negative taxable income
- Positive cash throw off

Real Estate Investment Terminology



Real Estate Investment Terminology

Income tax formula:



*Note: If taxable income is negative a tax shelter has been created



Risk in real estate investments

- Substantial risk
- Projected income may fall short
- Management intensive
- Selling may take substantial time
- Affects marketability
- Real estate investments are illiquid

Risk in real estate investments

- Static risk can purchase insurance coverage
- Fire
- Theft
- Storm
- Flood
- Liability
- **Dynamic risk** unable to purchase insurance coverage
- Changes in the economy
- Technology
- Inflation, etc.



Real Estate Investment Risk IN TOICE Business Company nvoice No. 0000001 Justomer ID 223

855.75 594.67

492.74

356.40 400.00

456.00

 Subtotal
 4500.45

 Tax Rate
 6.78%

 Tax
 740.67

 Other

 TOTAL Due
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Real Estate Investment **Risk**



Risk in real estate investments

- Marketability
 - Ability to sell asset for market value
- Liquidity
 - Ability to sell asset for the amount paid

• Interest rate risk

- Rates increase property value decreases
- Rates decrease property value increases
- Regulatory Risk
 - Legislative changes

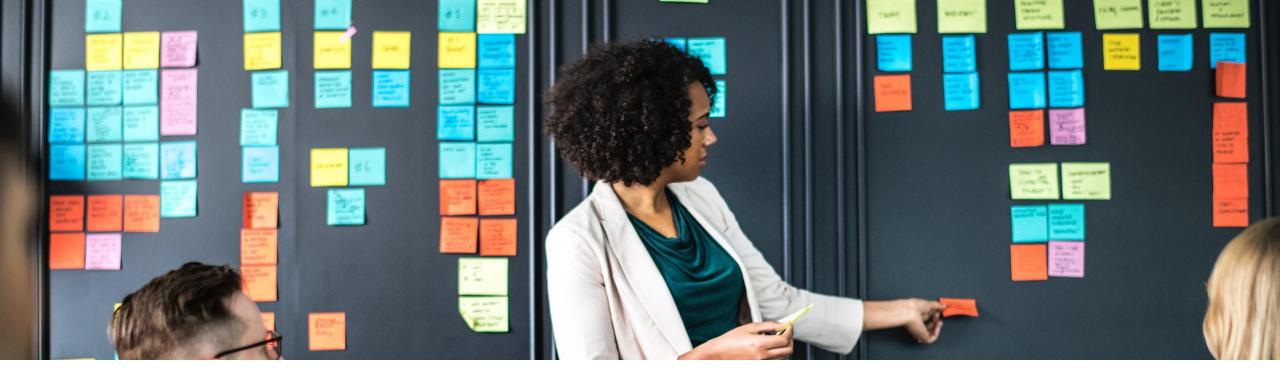


Real Estate Investment Risk



Risk in real estate investments

- Operating business risk
 - Income is less that expected
 - Expenses may be higher that expected
 - High risk for apartment building
 - Not high risk for vacant land



Real Estate Investment Risk

Risk in real estate investments

- Purchasing power risk
 - Inflation may affect property value

Advantages of real estate investments

- High rate of return
- Tax advantages
- Hedge against inflation
 - Real estate investments
 typically outpace inflation
- Leverage
- Equity buildup (mortgage paydown)

Characteristics of Real Estate Investments



Disadvantages of real estate investments

- Illiquidity
- Substantial risks
- Local affected by local market
 - Environmental
 - Government restrictions
 - Supply and demand
 - Employment
- Property management
 - Requires time, effort, expense
 - Expensive to hire property manager

Residential property

- Large and small investors can participate
- Location, location, location
- Transportation availability

Types of Investment **Property**





Types of Investment **Property**

Commercial, Hotels and retail sales

- Close to residential areas
- Accessible transportation
- Adequate parking

Regional shopping centers

- Need adequate transportation
- Surrounding land values increase
- Direct competition from other retailers draws customers

Industrial property

- Manufacturing, processing, assembly, warehousing & distribution centers
- Basic activity products are exported outside community



Types of Investment **Property**

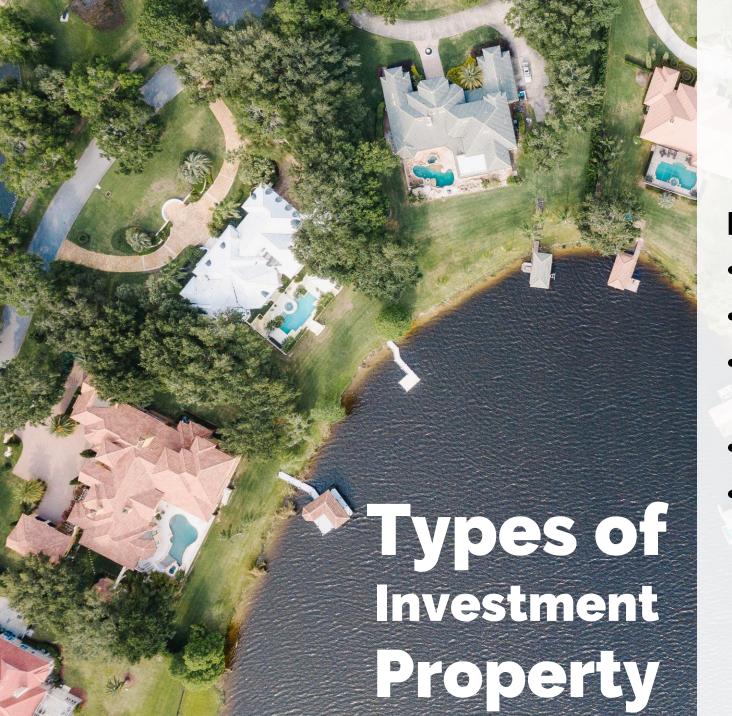
Office property

- Professions accounting firms, lawyers locate on main arteries
- Doctor offices near hospitals

Office building investment attraction

- Tax benefits
- Stability of income
- Long-term leases
- Expenses, taxes, insurance may be passed on to tenants





Recreation properties

- Golf courses
- Tennis facilities
- Ocean front or lakefront
 properties
- Many are rental properties
- Vacation homes, etc.



Leases and Lease Terminology

- Lessor
- Landlord
- Lessee
- Tenant
- Leases for more than one year must be in writing and signed to be enforceable

Types of leases

- Flat lease
 - Equal rental amounts
 - Monthly
 - Quarterly
 - Annually
- Graduated lease
 - Fixed rental for initial term
 - Predetermined increases
 - Specified time



Leases and Lease Terminology

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Leases and Lease Terminology



Types of leases

- Gross lease
 - Flat lease
 - Tenant pays fixed rent
 - Landlord pays taxes, insurance & maintenance
 - Example single family residential lease
 - This lease benefits the tenant (lessee)

Leases and Lease Terminology

Types of leases

- Ground lease
 - Lessee receives use, possession and occupancy of vacant land
 - Usually triple net lease
 - Tenant pays, real estate taxes, (net), insurance (net, net) & maintenance (net, net, net) or triple net lease
 - Landlord receives "net" amount
 - Tenant builds on land
 - Usually for 50, 75 or 99 years

Leases and Lease Terminology

Types of leases

- Index lease
 - Rent adjusts according to a published index
- Net Lease
 - Tenant uses, possesses and occupies the property
 - Tenant pays real estate taxes, insurance and maintenance
 - The landlord receives a "net" amount
 - Used for office, commercial, major retail stores, etc.
 - This lease benefits the lessor (landlord)

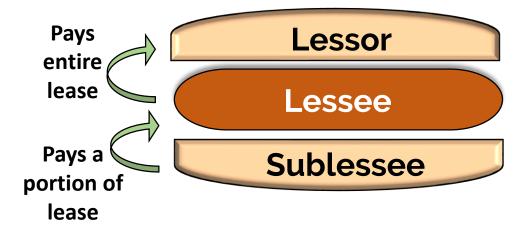
Real Estate Investment Terminology

Types of leases

- Proprietary lease
 - Lease between owner and lessee (purchaser)
 - Example: cooperative ownership

Sandwich lease

- Original lessee sublets to another party
- Sublessee pays rent to original tenant
- Original tenant pays rent to lessor
- If sublessee fails to pay -
- Original lessee must pay
- Original tenant is "sandwiched" between
- The lessor and sublessee



Types of leases

Percentage lease

- Includes floor or minimum fixed rent
- Tenant pays a percentage of sales over a predetermined amount
- Common for large retail stores, supermarkets
- Landlord is guaranteed minimum base income
- As sales increase, landlord shares in profits
- Tenant has lower fixed rent during slow periods

Leases and Lease Terminology



Leases and Lease Terminology



Rent Determination

- Area
 - Gross leasable area
 - Total space including common areas (restrooms, hallways, elevators, storage areas)
 - Net leaseable area
 - Total usable space excluding common areas

Determination of Base Rent Charge

- Common area maintenance fees (CAM)
 - Fee charged for maintenance of:
 - Sidewalks
 - Elevators
 - Walkways
 - Usually collected in flat fee amounts

Leases and Lease Terminology



Leases and Lease Terminology

Rent Concessions

- Rent reduction to induce a new tenant to sign lease
- Includes:
 - Free rent in exchange for a long-term lease
 - Build outs (customizing space)

Leases and Lease Terminology

Expense stops

- Set for landlord or tenant
- Responsible for expenses up to a certain amount

Pass-throughs

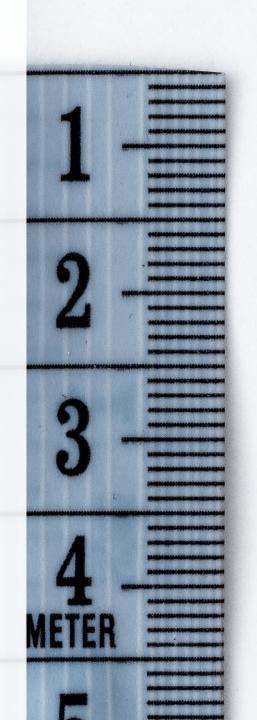
- Expense passed on to tenant
- (taxes, insurance, maint.) **Pro rata expenses**
- Based on total building space or occupied space

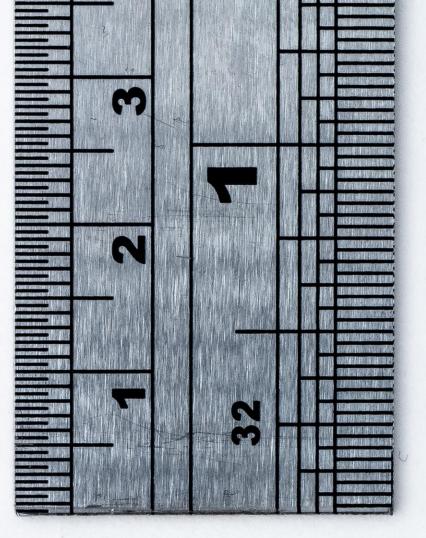
Tenant improvement allowances

 Landlord pays expense for tenant to alter space for their needs

Options

- Renewal option
- Landlord or tenant may renew at end of term
- Tenant has right to expand when additional floor space becomes available





Leases and Lease Terminology



Higher interest rates than residential

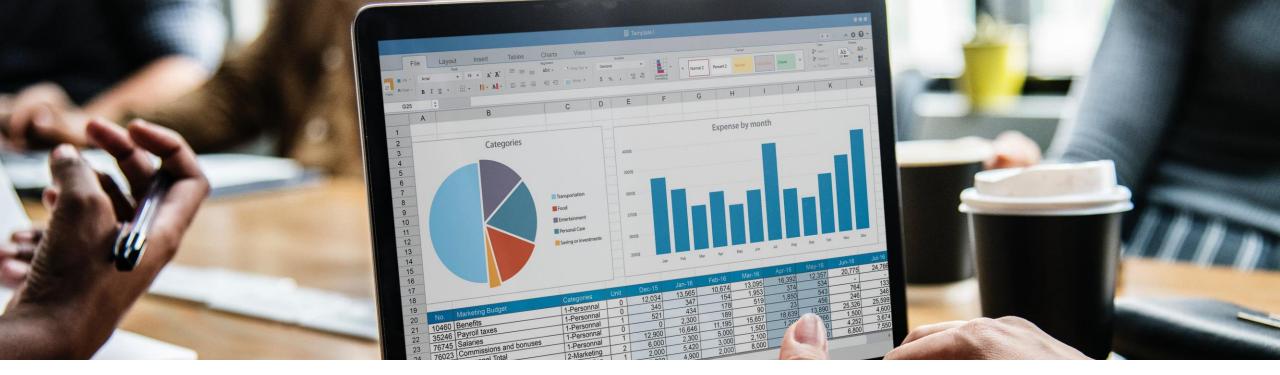
- Shorter loan term
- Higher risk

Leverage

- Positive leverage
 - Rate of return on investment is greater than the interest paid for borrowed funds
- Negative leverage
 - Rate of return on investment is less than the interest paid on borrowed funds

Neutral leverage

• Rate of return on investment is equal to the interest paid o borrowed funds



Interest Calculations



Basic Investment Analysis Terminology

Potential Gross Income
Vacancy and Collection loss allowance
Other Income
Effective Gross Income
Operating Expenses
Net Operating
Annual Debt Service
Before Tax Cash Flow
Income T axes
After Tax Cash Flow

(or GI) (% or \$)

PGI

V&C

ΟΙ

EGI

OE

NOI

ADS

BTCF

ATCF

TX

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Fixed Expenses

- Property Taxes
- Hazard Insurance
 Variable Expenses
- Maintenance
- Utilities
- Management fees
 Reserve for Replacements
- Noncash expense
- Use in the future to replace worn out components

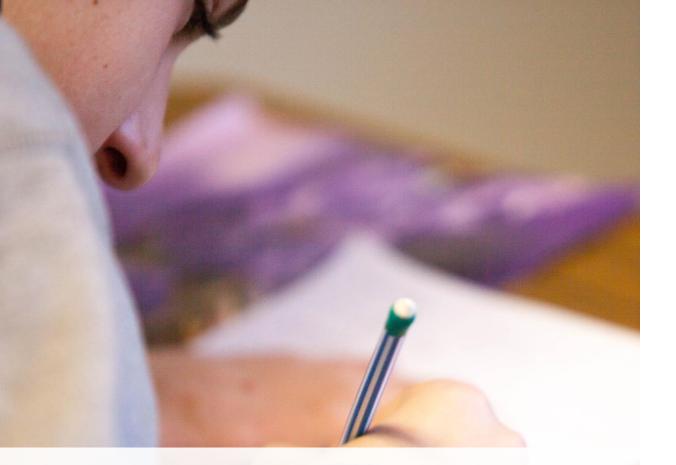




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ACCOUNT	REPORT					
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4M\$					\wedge	-
3M\$		\wedge	~	L	\checkmark	\times
2M\$ -	\checkmark	\checkmark	\searrow	\checkmark	\checkmark	





Income Approach



Overall Capitalization Rate (OAR) - average rate of return

received on similar properties

I R x V



Debt Service



Not an operating expense

- Varies from investor to investor
- Not an expense of the property:
 - Unique to each investor

Tax depreciation

- Also varies from investor to investor
- Dependent on sale price



Loan to Value Ratio



Loan Value

Shows the % of value the lender agrees to lend

Operating Expense Ratio

Operating Expenses Effective Gross Income

Provides for comparison with similar properties





Cash breakeven ratio:

Operating Expenses - Reserves + Debt Service PGI

Occupancy level to meet cash
 requirements

Equity dividend ratio:

Cash on cash return



Federal Income Tax

Calculate Taxable Income: NOI

- + Reserves
- Depreciation
- Mortgage Interest Taxable Income

Potential Gross Income

- Vacancy & Collections Effective Gross Income
- Operating Expenses Net Operating Income
- Annual Debt Service
 Before Tax Cash Flow
- Income Taxes
 After Tax Cash Flow





Risk Analysis



Major risk ratios

- Debt service coverage ratio
- Cash breakeven ratio

Sensitivity analysis

• Best case, worst case and most likely case scenarios

Investment Analysis Ratios

Debt-Service Coverage Ratio

Net Operating Income Debt Service

Cash Break-Even Ratio

Operating Expenses – Reserves + Annual Debt Service

Potential Gross Income

Equity Dividend Rate BTCF Equity (Down Payment)

COMPARATIVE FINANCIALS

	Price: \$475,000	Loan: \$356,250 @ 8% -	3,750 (25% dwn pmnt)		
	ا Capitalization Rate (cash)	Equity Dividend Rate (loan)	l Cash Break-Even	Debt Service Coverage Ratio	
PGI	\$84,000	\$84,000			
-VAC	-5,040	-5,040		52,299 / 140%	
+OI	<u>+1,500</u>	<u>1,500</u>		(max allowable)	
EGI	80,460	80,460		\$37,356	
-OE	<u>-28,161</u>	<u>-28,161</u>	-28,161 – 3,218 (Reserves)	52,299 = 140%	
NOI	52,299	<u>52,299</u>			
-DS		- <u>32,995</u>	<u>+32,995</u>	$\frac{52,299}{140\%} = \frac{140\%}{140\%}$	
BTCF	l / RV 52,299 / 475,000 11%	<u>19,304</u> BTCF / Equity 19,304 / 118,750 16.30%	5 <u>7,938</u> Expenses / PGI 57,938 / 84,000 69%	NOI / DS 52,299 / 32,995 159% (Actual) 44	

Coffee Break

15 Minutes

