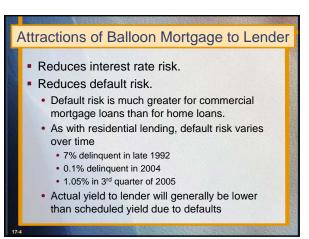


### "Commercial" Loans vs Home Loans Commercial mortgages and notes are not as standardized as home loans Although this is changing with growth in commercial mortgage-backed securities market Documents are longer and more complex. Often no personal liability: Legal borrower often is a single asset corporation. Actual persons are shielded from liability. Credit enhancement sometimes is required.

### Commercial Mortgage Loans Usually a partially amortized "balloon" mortgage. 25 to 30 year amortization of principle. 5 to 10 year maturity Balance of loan at maturity must be refinanced or paid off with a "balloon" payment Bullet loans are non amortizing for with a fixed term at which point the principal is repaid





# Restrictions on Prepayment Lock-out. Prohibition against prepayment for up to 5 years. Prepayment penalties: Percentage of loan: Say, 2-4% of loan balance. Yield maintenance penalty. Borrower must pay lender PV of losses due to prepayment. Defeasance penalty. Borrower must replace mortgage loan with a set of U.S. Treasury securities producing equivalent cash flows Recently has become most common form of prepayment penalty This replaces a risky promised set of CF's with a risk free set of CF's so its good for a lender

#### Other Forms of Commercial Mortgage Financing Floating (i.e., adjustable) rate mortgage Index rate most commonly is LIBOR Installment sale financing Buyer makes installment payments. Seller only pays capital gain taxes over time in proportion to amount of the price received.

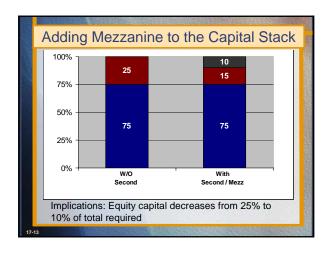
#### Other Forms of Commercial Mortgage Financing - continued Joint Venture Lender: Provides a mortgage loan Provides additional equity investment. Receives mortgage interest plus equity cash flows. Borrower: Provides the project. Provides expertise and management effort. Provides some of the equty

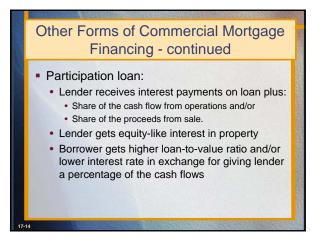
### Joint Venture - continued Usually between a developer of a large project and a: Pension fund. Life Insurance company. REIT Institution provides construction financing and/or long-term mortgage, in addition to some of required equity capital Institution's share of operating & sale cash flows are negotiated

# Other Forms of Commercial Mortgage Financing - continued Land Sale-leaseback: Investor owns land and mortgage on building. User owns building subject to mortgage and p pays a land lease (both deductible for taxes) Sale-leaseback User sells property to a long-term investor. Pension fund. Trust. Life insurance company. User leases property back from the investor and occupies it under long-term net lease.

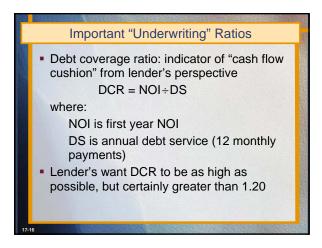
## Sale-Leaseback - continued User benefits: Lease payment is deductible for income taxes. Equity capital is freed up to invest in core business of company. Investor benefits: Can be safe investment (depending on credit worthiness of tenant). Inflation hedged (especially if lease payments increase with inflation).

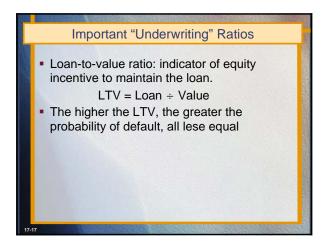
# Other Forms of Commercial Mortgage Financing - continued Mezzanine Debt (growing in popularity): Supplements underlying first mortgage debt. Sometimes is a second mortgage loan (i.e., secured by the property) More often is a non-mortgage loan secured by a pledge of ownership shares If borrower defaults lender takes over the borrower's ownership position rather than having a lien on the real estate (which the first mortgage holder has)





## Other Forms of Commercial Mortgage Financing - continued FHA insured loans for low and moderate income multifamily housing. Freddie Mac and Fannie Mae multifamily lending programs Many targeted to low and moderate income housing. See Fannie and Freddie websites (www.fanniemae.com and www.freddiemac.com)



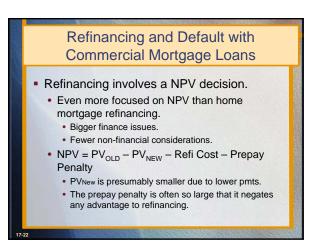


Average 7 Mortgage				
Permanent, Fixed	rate Financ	ing: 4th C	tr 2005	
	Apartments	Industrial	Office	Retail
Spread over 10-year Treasury	2.29%	2.40%	3.01%	2.56%
Debt coverage ratio	1.51	1.47	1.55	1.43
Loan-to-value ratio	74%	71%	70%	73%
Amortization term	26	25	25	25
Maturity term	21	12	8	6
Lender reserve requirement	\$300/yr.	\$0.20/SF	\$0.25/SF	\$0.25/SF

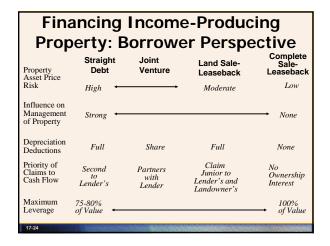
## The Leveraging Question (How much debt?) Reasons for use of debt by investors: "Magnify" equity returns. Diversify the use of one's equity. Financial risk: Risk of default on mortgage loan. Risk of negative cash flow. Increases with greater leverage. Leverage increases variability of equity returns.

### When Will Leverage Increase NPV and Going-in IRR? Increased leverage will increase the estimated NPV when.... opportunity cost of equity capital (discount rate) exceeds the effective borrowing cost Increased leverage will increase the going-in IRR when.... unlevered going-in IRR exceeds the effective borrowing cost

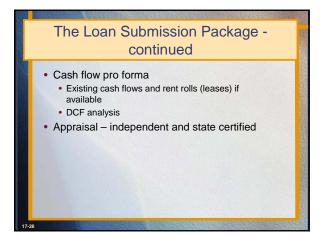
### Leverage "Bottom Line" In a typical cash flow forecast, increased leverage will increase the estimated NPV and going-in IRR Why must this be true? However, this increased NPV/IRR comes at a price.....increased riskiness of the equity investment The more leverage used, the more the equity resembles an option



## Refinancing and Default with Commercial Mortgage Loans Default is the signature risk of commercial mortgages. Borrower seldom can cover the loan payment for a crippled commercial property. Borrower often is in a non-recourse position (good for the borrower, bad for the lender).

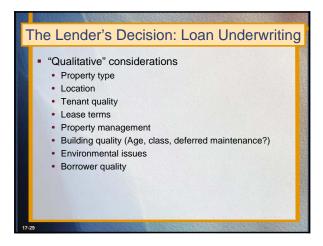


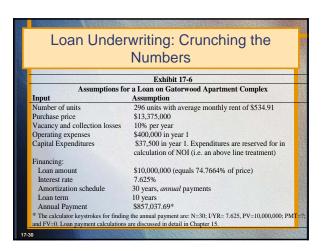
## Obtaining a Commercial Mortgage Loan The Loan Submission Package Loan application with the exact terms proposed. Financial statement Credit report Borrower experience resume Property description Legal description Easements and encroachments Finvironmental concerns Detailed physical description Photos and aerial photos Survey Site plan Structure drawings and specifications



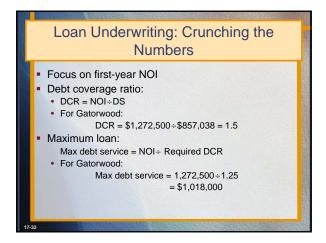
### Sources of loans (direct submission) Larger commercial bank Large thrift institution Other direct sources including pension funds and life insurance companies

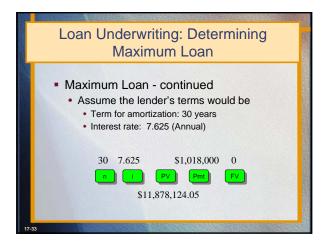


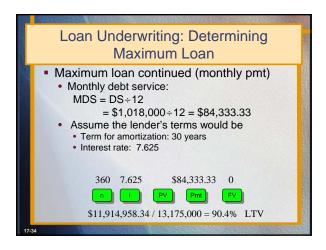


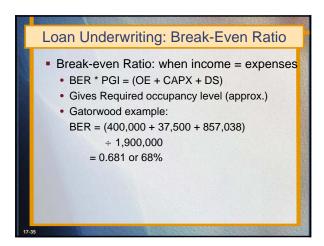


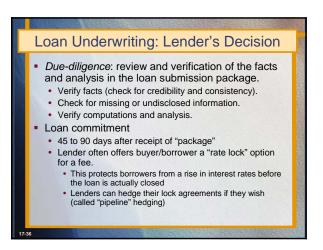
#### Gatorwood Before-Tax Cash Flow from **Operations** Exhibit 17-7 **Gatorwood Apartment Complex** Before-Tax Cash Flows From Annual Operations \$1,900,000 Potential Gross Income (PGI) Vacancy and Collection Loss (VC) 190,000 Effective Gross Income (EGI) 1,710,000 Operating Expenses (OE) 400,000 Capital Expenditures (CAPX) 37,500 Net Operating Income (NOI) 1,272,500 Debt Service (DS) 857.038 Before-Tax Cash Flow \$415,462











#### **Construction and Development** Financing

- Land acquisition financing
  - Finance the purchase of raw land
- Land development loan
  - Finance the installation of improvements to the land (sewers, utilities, etc.)
- Construction loan
  - · Finance the vertical construction
- Mini-perm loan
  - A permanent loan with a short term

#### Summary

- For commercial lending, the building produces the income that is used to pay off the lien

  The ability of the building to produce cash flows is what the lender evaluates

- Priced off the 10 year Treasury Securities (2-3% average spread)

  Loans typically are balloon loans with a 5-7 year term and 25-30 year amortization
- Prepayment penalties common
- Underwriting focuses on DCR and LTV
- CMBS is a growing source for placement of commercial mortgages