Interest Rates &		
Investment Demand		
Ar Mucroeconomics		
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• Money spent or expenditures on:

- New plants (factories)
- Capital equipment (machinery)
- Technology (hardware & software)
- New houses
- Inventories (goods sold by producers)
- How do businesses make investment decisions?
 - Cost/benefit analysis
 - How do businesses determine the benefits?
 Expected rate of return
 - How do businesses count the cost?
 - Interest costs
 - How do businesses determine the amount of investment they undertake?
 Compare expected rate of return to interest cost
 - If expected return > interest cost, then invest
 - 。 If expected return < interest cost, then do not invest

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Real (r%) v. Nominal (i %) Interest Rates	
• What's the difference?	
 Nominal is the observable rate of interest. Real subtracts out inflation (π%) and is only known ex 	
post facto.	
• How do you compute the real interest rate $(r\%)$?	
• $r\% = i\%$ - $\pi\%$	
 What then, determines the cost of an investment decision? 	
• The real interest rate (r%)	
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The Investment Demand Curve (ID)

- What is the shape of the Investment demand curve?
- Downward sloping
- Why?
- When interest rates are high, fewer investments are profitable; when interest rates are low, more investments are profitable
- _ Conversely, there are few investments that yield high rates of return, and many that yield low rates of return

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Instability of Investment

。 Durability

- Capital has a long life-span, therefore once it is built there is no immediate need for further investment
- Variability of Profits
- Profitability is subject to the forces of competition, cyclical changes in the economy, and human management decisions
- Irregularity of Innovation
 Innovation does not proceed in a smooth linear fashion, instead there are bursts of innovation followed by periods of relative stability
- Variability of Expectations
- Political, social and natural phenomenon shape our positive and negative expectations of the future

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