

Determinants Investment

Why Businesses Invest?

Building Capital

- Investment involves sacrifice (on someone's part)
- To invest
 - We must work more
 - We must consume less (save)

6-29

Determinants of the Level of Investment

- Sales outlook
- Capacity utilization rate
- Interest rate
- Expected rate of profit (ERP)

6-31

The Sales Outlook

- You won't invest if the sales outlook is bad
 - If sales are expected to be strong the next few months the business is probably willing to add inventory
 - If sales outlook is good for the next few years, firms will probably purchase new plant and equipment

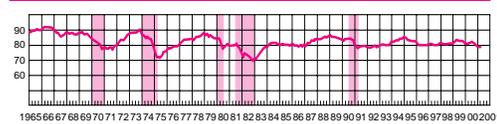
6-32

Capacity Utilization Rate

- This is the percent of plant and equipment that is actually being used at any given time
- You won't invest if you have a lot of unused capacity
 - During recessions, why build more when you are not using all of what you have
- Other factors
 - Manufacturing is a shrinking part of U.S. economy due to imports and increasing investment overseas by U.S. Companies

6-33

Capacity Utilization Rate in Manufacturing, 1965-2000



Since the mid-1980s, our capacity utilization rate has been in the low 80s. Note that it fell during each recession

6-34

The Interest Rate

- You won't invest if interest rates are too high

Interest rate = The interest paid / The amount borrowed

Assume you borrow \$1000 for one year @ 12 %, how much interest do you pay?

$$.12 = \frac{X}{\$1000}$$

$$X = \$120$$

6-35

The Interest Rate

- You won't invest if interest rates are too high

Interest rate = The interest paid / The amount borrowed

Assume you borrowed \$1000 for one year and paid \$120 interest. What was the interest rate?

$$X = \frac{\$120}{\$1000}$$

$$X = .12 = 12 \%$$

6-36

Expected Rate of Profit (ERP)

$$ERP = \frac{\text{Expected Profits}}{\text{Money Invested}}$$

How much is the ERP on a \$10,000 investment if you expect to make a profit of \$1,650?

6-37

How much is the ERP on a \$10,000 investment if you expect to make a profit of \$1,650?

$$ERP = \frac{\text{Expected Profits}}{\text{Money Invested}}$$

$$ERP = \frac{\$1,650}{\$10,000}$$

$$ERP = .165 = 16.5 \%$$

Copyright ©2002 by The McGraw-Hill Companies, Inc. All rights reserved.

6-38

You Won't Invest If Interest Rates Are Too High

- In general, the lower the interest rate, the more business firms will borrow
- To know how much they will borrow and whether they will borrow, you need to compare the interest rate with the expected rate of profit
- Even if they are investing their own money they need to make this comparison

6-39

Why Do Firms Invest?

- Firm's will only invest if the expected profit rate is "high enough"
- Firms invest when
 - Their sales outlook is good
 - Their capacity utilization rate is high
 - Their expected profit rate is high
- Even if firm's invest their own money, the interest rate is still a consideration

6-40

What Accounts for our Low Rate of Investment?

- The short time horizon of corporate America
- The quality of management in America
- The quality of labor in America
- The low savings rate in America
 - The less we save, the less we can invest
 - The less we invest, the slower our rate of economic growth