Module 29 The Loanable Funds Market Mr. Hess AP Macroeconomics

The Loanable Funds Market

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- The market where savers and borrowers exchange funds (Q_{LF}) at the real rate of interest (r%).
- The demand for loanable funds, or borrowing, comes from the households, firms, government and the foreign sector.
- The supply for loanable funds, or savings, comes from households, firms, government, and the foreign sector.

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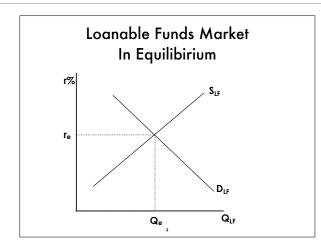
The Loanable Funds Market

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- People/businesses/government WITH money supply it to others. In return they receive interest of the money loaned to others.
- People/businesses/government WITHOUT money borrow it to others at an interest rate that is to be paid back at a later time.



What is a Bond?

- A bond is a certificate of debt issued by a government or corporation guaranteeing payment of the original investment <u>plus</u> interest by a specified future date.
- The demand for loanable funds is in fact the supply of bonds.
- The supply of loanable funds is also the demand for bonds.

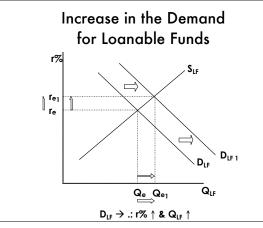
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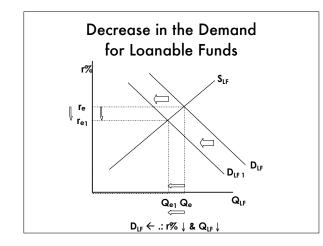
Changes in the Demand for Loanable Funds

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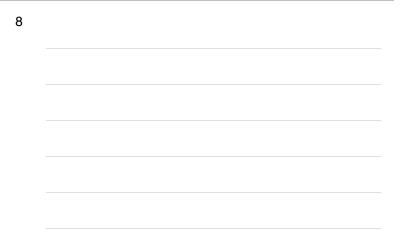
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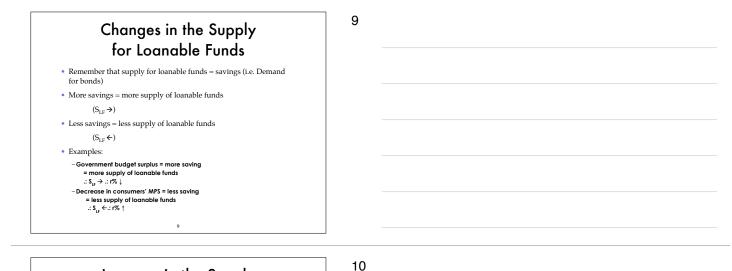
- Remember that demand for loanable funds = borrowing (i.e. Supplying bonds)
- More borrowing = more demand for loanable funds $(D_{\text{LF}} \textbf{\rightarrow})$
- Less borrowing = less demand for loanable funds
- (D_{LF}←) • Examples:
- -Government deficit spending = more borrowin = more demand for loanable funds ∴ D₁₇ → :r%↑ -Less investment demand = less borrowing = less demand for loanable funds
- .: D_{LF} ←.: r%↓

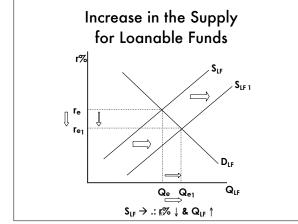


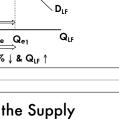




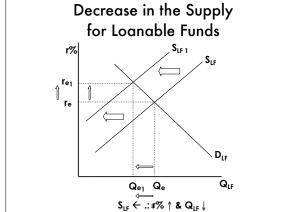












Summary

- The loanable funds market determines the real interest rate (r%).
- The loanable funds market relates saving and borrowing.
- · Changes in saving and borrowing will create changes in loanable funds and therefore the r% changes.
- When the government enacts <u>fiscal policy</u> it will affect the loanable funds market.
- Any changes in the real interest rate (r%) will in turn affect levels of Gross Private Investment (IG)

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• Inventories (goods sold by producers)

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Expected Rates of Return

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- 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?
 - $_{\circ}$ 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 $(\pi\%)$ and is only known ex post facto.
- \circ How do you compute the real interest rate (r%)?

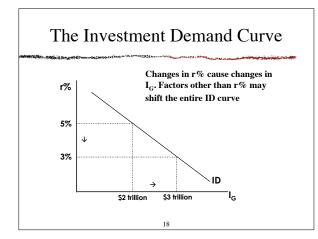
• $r\% = i\% - \pi\%$

- What then, determines the cost of an investment decision?
 - \circ The real interest rate (r%)



- 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

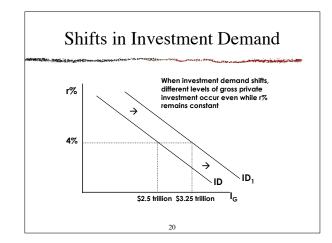
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Shifts in Investment Demand (ID)

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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

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- Variability of Expectations
- Political, social and natural phenomenon shape our positive and negative expectations of the future

