



Time horizons in macroeconomics

- Prices are flexible, respond to changes in supply or demand.
- Short run: Many prices are "sticky" at some predetermined level.

The economy behaves much differently when prices are sticky.

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Recap of classical macro theory (Chaps. 3-8)

- Output is determined by the supply side:
 - supplies of capital, labor
 - technology.
- Changes in demand for goods & services
 (C, I, G) only affect prices, not quantities.
- Assumes complete price flexibility.
- Applies to the long run.

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When prices are sticky...

- ...output and employment also depend on demand, which is affected by
 - fiscal policy (G and T)
 - monetary policy (M)
 - other factors, like exogenous changes in
 C or I.

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The model of aggregate demand and supply

- the paradigm most mainstream economists and policymakers use to think about economic fluctuations and policies to stabilize the economy
- shows how the price level and aggregate output are determined
- shows how the economy's behavior is different in the short run and long run

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Aggregate demand

- The aggregate demand curve shows the relationship between the price level and the quantity of output demanded.
- For this chapter's intro to the AD/AS model, we use a simple theory of aggregate demand based on the quantity theory of money.
- Chapters 10-12 develop the theory of aggregate demand in more detail.

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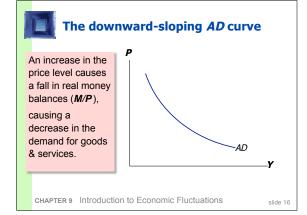
The Quantity Equation as Aggregate Demand

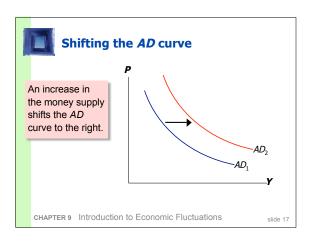
From Chapter 4, recall the quantity equation

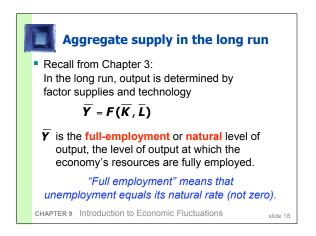
MV = PY

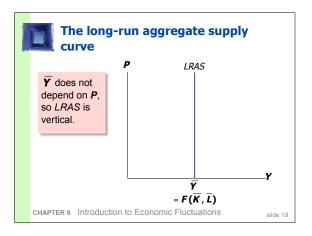
For given values of **M** and **V**, this equation implies an inverse relationship between **P** and **Y**:

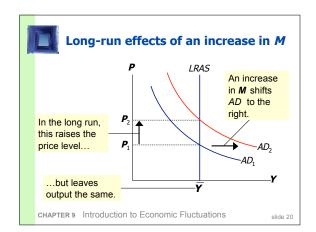
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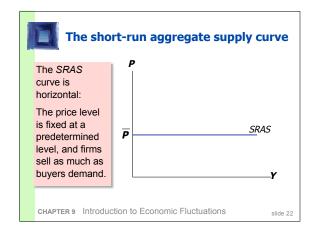


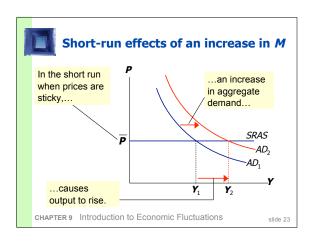


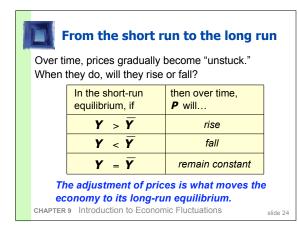


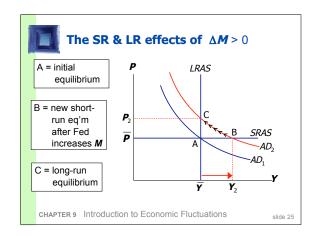










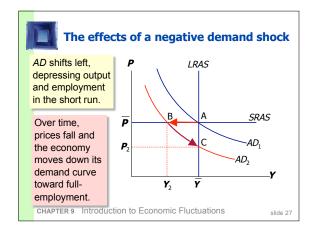


How shocking!!!

- shocks: exogenous changes in agg. supply or demand
- Shocks temporarily push the economy away from full employment.
- Example: exogenous decrease in velocity
 If the money supply is held constant, a decrease in
 V means people will be using their money in fewer transactions, causing a decrease in demand for goods and services.

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Supply shocks

- A supply shock alters production costs, affects the prices that firms charge. (also called price shocks)
- Examples of adverse supply shocks:
 - Bad weather reduces crop yields, pushing up food prices.
 - Workers unionize, negotiate wage increases.
 - New environmental regulations require firms to reduce emissions. Firms charge higher prices to help cover the costs of compliance.
- Favorable supply shocks lower costs and prices.

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CASE STUDY: The 1970s oil shocks

- Early 1970s: OPEC coordinates a reduction in the supply of oil.
- Oil prices rose

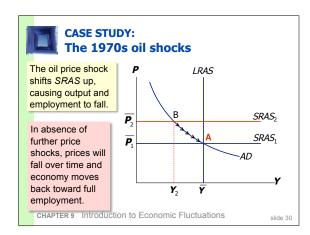
11% in 1973

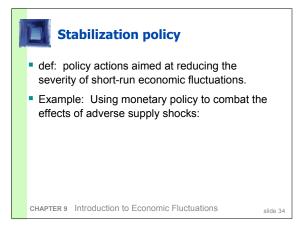
68% in 1974

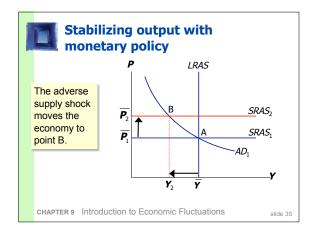
16% in 1975

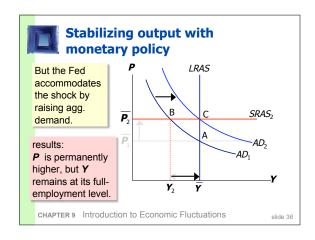
 Such sharp oil price increases are supply shocks because they significantly impact production costs and prices.

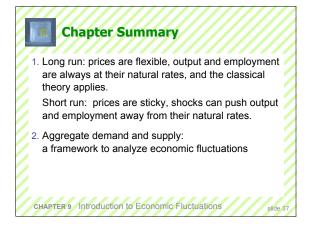
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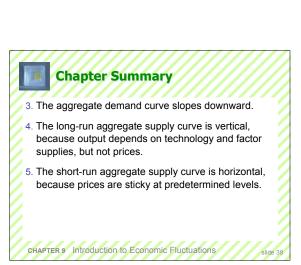














Chapter Summary

- Shocks to aggregate demand and supply cause fluctuations in GDP and employment in the short run.
- 7. The Fed can attempt to stabilize the economy with monetary policy.

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