# Chapter 22: Aggregate Supply and Aggregate Demand

ECO 301: Money and Banking



- Specific Goals
  - Be able to explain GDP fluctuations when the price level is also flexible.
  - Explain how real GDP and the price level are related in the short run.
- Learning Objectives
  - LO2: Understand the role money plays in the interaction with markets for other assets.
  - LO5: Analyze macroeconomic problems and prescribe appropriate monetary policy solutions.



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## Aggregate Demand

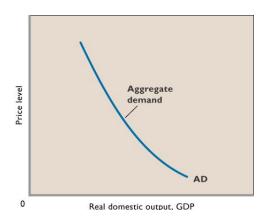
- Aggregate demand: schedule or curve that shows the quantities of real GDP that buyers collectively desire to purchase at each price level.
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## Aggregate Demand



- Real balances effect: when the price level increases, the purchasing power of the consumers' accumulated savings balances decreases.
  - With a lower real savings balance, consumers decrease consumption.
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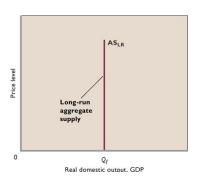
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## Long run aggregate supply

Long run aggregate supply: in the long run the economy uses all factors of production efficiently, therefore long run aggregate supply is a vertical line at potential GDP



## Short run aggregate supply

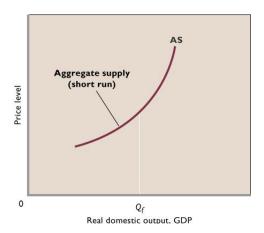
- In the short run, factor markets are slow to adjust. Wages are slow to adjust and there may unemployment or even excess employment.
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## Short run aggregate supply



- When something besides the price level affects AS, this shifts AS.
- Prices of factors of production: when the price of labor, capital, or land increase, this shifts AS to the left.
- Exchange rate: if the value of the U.S. currency decreases, this
  increases the cost of importing foreign factors of production.
- Technology: an increase in technology shifts AS to the right.
- Business taxes can affect output decisions of firms and shift AS.
- Other government regulation



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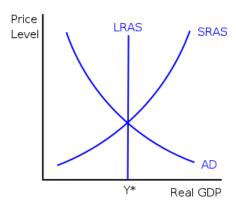
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# Equilibrium

In equilibrium, real GDP and the price level are determined by the intersection of AS and AD



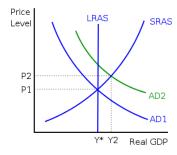
- Inflation can come from two sources, excess demand or increases in production costs.
- Demand pull inflation: when increases in demand cause inflation.
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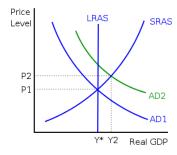
## Demand pull inflation

- Demand pull inflation begins when AD increases.
- Causes real GDP to increase and the price level to rise.
- Recall: inflationary gap: when aggregate expenditures is equal to real GDP above potential GDP



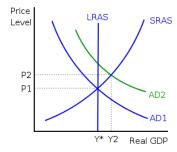
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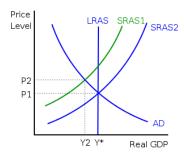
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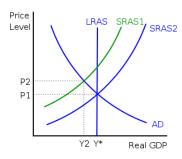
### Cost push inflation

- Cost-push inflation begins when an increase in production cost shifts SRAS to the left.
- Causes real GDP to fall and price level to rise.
- Stagflation: when there is unemployment and high inflation at the same time.



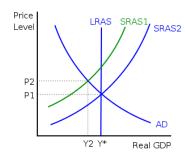
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- Suppose AD shifts to the right.
- Firms will be able to sell more goods. Firms hire more labor and produce more goods.
- Firm's per-unit labor costs do not increase because wages are fixed in the short run.
- In the long run, there is an excess demand for labor, wages will increase.
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