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# Module 18 Aggregate Supply

Mr. Hess AP Macroeconomics

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## **Aggregate Supply**

The level of Real GDP (GDP<sub>R</sub>) that firms will produce at each Price Level (PL).

- Think <u>suppliers</u> on an national scale
  - i.e. How much output will all the producers in a country collectively make.

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## Long-run vs. Short-run

#### Long-run

- Period of time where input prices are completely flexible and adjust to changes in the price-level
- In the long-run, the level of Real GDP supplied is independent of the pricelevel

#### Short-run

- Period of time where input prices are sticky and do not adjust to changes in the price-level
- In the short-run, the level of Real GDP supplied is directly related to the price level

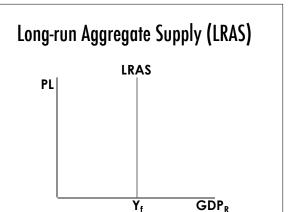
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#### Long-run Aggregate Supply (LRAS)

The Long-Run Aggregate Supply or LRAS marks the level of full employment in the economy (analogous to PPC).

Because input prices are completely flexible in the long-run, changes in price-level do not change firms' real profits and therefore do not change firms' level of output. This means that the LRAS is vertical at the economy's level of full employment.

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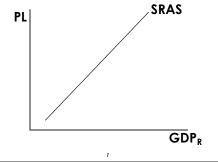
## Short-run Aggregate Supply (SRAS)

Because input prices are sticky in the short-run, the SRAS is upward sloping. This reflects the fact that in the short-run, increases in the price-level increase firm's profits and create incentives to increase output. As the price-level falls, firm's profits drop and this creates an incentive to reduce output.

About 99.999999% of all the shifts in Aggregate Supply we will ever make in this class will be dealing with Short-run.

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#### Short-run Aggregate Supply (SRAS)



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## Changes in SRAS

An increase in SRAS is seen as a shift to the right. SRAS →
A decrease in SRAS is seen as a shift to the left. SRAS ←
The key to understanding shifts in SRAS is per unit cost of production

Per-unit production cost = total input cost / total output

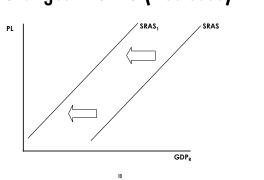
\*\*know this formula\*\*

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Changes in SRAS (Decrease)

GDP<sub>R</sub>



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**Determinants of SRAS** 

Input Prices

Productivity

-[Legal-Institutional Environment

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**Input Prices** 

Domestic Resource Prices

- -Wages (75% of all business costs)
- —Cost of capital
- -Raw Materials (commodity prices)

Foreign Resource Prices

- -Strong S = lower foreign resource prices
- -Weak S =higher foreign resource prices

Market Power

-Monopolies and cartels that control resources control the price of those resources

[Increases in Resource Prices = SRAS  $\leftarrow$ 

Decreases in Resource Prices = SRAS ightarrow

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