Output Multiplier Explained

Output Multiplier

The output multiplier represents the total output produced by all industries in response to a dollar increase in final demand for an industry's output. There are two types of output multipliers: i) simple ii) total.

Input-Output

Tables

The simple output multiplier consists of the direct and indirect effects, while the total output multiplier includes the consumption induced effects.

Using the computer and peripheral equipment industry as an illustration, an initial \$1 million increase in final demand will increase output in the economy by \$1.44 million. If consumption induced effects are included, output will increase by \$1.60 million.







The increase in computer production creates a ripple effect along the supply chain:



The increase in computer production raises demand for computer parts (e.g. disk drives) and spurs suppliers to raise production.



(e.g.

manufacturers) raise production, they

require more inputs. Hence, the demand

suppliers

for other inputs also increases.

As

Output +\$0.09m

circuit

Subsequent rounds

board



This ripple effect continues along the entire supply chain until production needs are met.

Consumption Induced Effects



Industries hire more workers to produce additional output. Hence, employment and income levels rise.



This spurs increased purchases of goods and services by households, thereby creating new final demand, which generates new output to meet demand.

Other Impact Analysis

The economic impact per dollar increase in final demand for an industry's output can also be measured in terms of:



The additional amount of value-added generated.



The additional amount of imports required to support increased production.



The increase in number of jobs as a result of increased production.



The increase in household income as a result of increased employment.



https://www.singstat.gov.sg

For more details on I-O multipliers, please visit the links below: Singapore Supply, Use and Input-Output Tables 2015 Using Input-Output Tables in Simulation