

SOCIETY'S TECHNOLOGICAL POSSIBILITIES

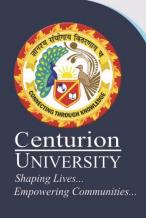
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Introduction

"Every gun that is made, every warship launched, every rocket fired signifies, in the final sense, a theft from those who hunger and are not fed"

President Dwight D. Eisenhower

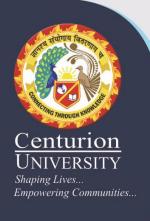


The Three Economic Problems

Society must decide

- (1) what outputs to produce, and in what quantity
- (2) how, or with what inputs and techniques, to produce the desired outputs
- (3) for whom the outputs should be produced and distributed

As Resources are Scarce



Continued

- Every society must make choices about the economy's inputs and outputs
- ➤ Inputs are commodities or services that are used to produce goods and services. Outputs
- ➤ Outputs are the various useful goods or services that result from the production process and are either consumed or employed in further production.



Inputs

Factors of Production (Factor Inputs)

Factors of production are the inputs available to supply goods and services in an economy.

Natural resources available for production

Land

Labour

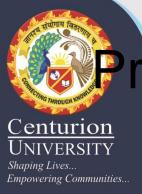
The human input into the production process

Entrepreneurs organise factors of production and take risks

Enterprise

Capital

Goods used in the supply of other products e.g. tech



Production Possibility Frontier

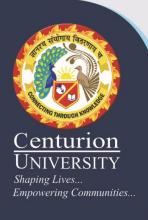
Suppose an economy produces only two economic goods-guns and butter

The guns represent military spending, and the butter stands for civilian spending



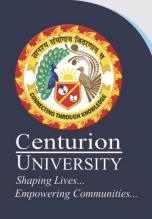
Alternative Production Possibilities

Possibilities	Butter (millions of pounds)	Guns (thousands)
A	0	15
В	1	14
C	2	12
D	3	9
Е	4	5
F	5	0



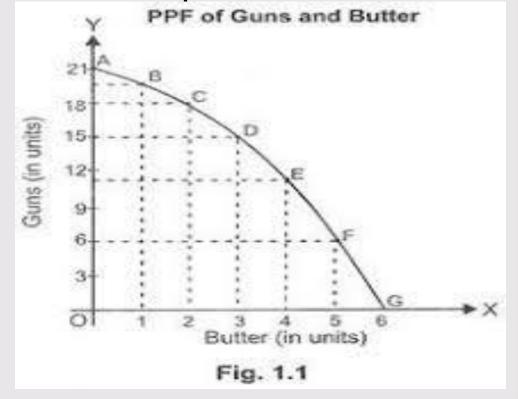
Continued: The Possibilities

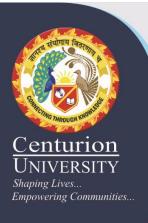
- ➤ If we are willing to give up some butter, we can have some guns
- ➤ If we are willing to give up still more butter, we can have still more guns
- Combination F shows the extreme, where all butter and no guns are produced, while A depicts the opposite extreme, where all resources go into guns
- ➤ In between—at E, D, C, and B—increasing amounts of butter are given up in return for more guns.



Production Possibility Frontier

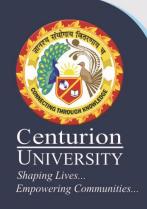
The **production-possibility frontier** (or **PPF**) shows the maximum quantity of goods that can be efficiently produced by an economy, given its technological knowledge and the quantity of available inputs





Applying the PPF to Society's Choices

- PPF can be applied to a broad range of economic choices
- Thus the more resources the government uses to spend on public highways, the less will be left to produce private goods like houses
- The more food we choose, the less we can consume of clothing
- The more an economy consumes today, the less can be its production of capital goods



Happy Learning

