

PRINCIPLES OF ECONOMICS

Lecture 38: AGGREGATES OF GDP AND THEIR MEASUREMENT November, 2015



TOPICS OF DISCUSSION

>GDP & Its Aggregates

- Gross National Product (GNP)
- Net National Product (NNP)
- National Income
- Personal Income
- Disposable Personal Income

GROSS DOMESTIC PRODUCT (GDP)

Gross Domestic Product- is the total market value of all final goods and services produced within a the domestic territory of an economy in a given period of time, generally one year.

GDP_{MP} = OUTPUT x MARKET PRICE

- $GDP_{FC} = GDP_{MP}$ Net Indirect Taxes
 - Net Indirect Taxes = Indirect Taxes Subsidies

OTHER AGGREGATES OF GDP

>Gross National Product (GNP)

>Net National Product (NNP)

National Income

Personal Income

>Disposable Personal Income

GROSS NATIONAL PRODUCT

>Gross national product (GNP) is the total income earned by a nation's permanent residents.

It differs from GDP by including income that our citizens earn abroad and excluding income that foreigners earn here.

GNP_{MP} = GDP at Market Prices + Net Factor Income from Abroad

NET NATIONAL PRODUCT (NNP)

- >Net National Product (NNP) is the total income of the nation's residents (GNP) minus losses from depreciation.
- Depreciation is the wear and tear on the economy's stock of equipment and structures.

NNP at Market Price = GNP at Market Price -Depreciation

NATIONAL INCOME

- National Income is the total income earned by a nation's residents in the production of goods and services.
- It differs from NNP by excluding indirect business taxes (such as sales taxes) and including subsidies.

NNP at Factor Cost = NNP at Market Price – Net Indirect Taxes Net Indirect Taxes = Indirect Taxes - Subsidies

PERSONAL INCOME

Personal income is the income that households and noncorporate businesses receive

>Unlike national income, it excludes retained earnings, which is income that corporations have earned but have not paid out to their owners.

In addition, it includes household's interest income and government transfers.

DISPOSABLE PERSONAL INCOME

Disposable personal income is the income that household and non-corporate businesses have left after satisfying all their obligations to the government

Disposable Income= Personal Income - Personal Taxes and Non-tax Payments

COMPONENTS OF GDP

GDP is the sum of the following:

- Consumption (C)
- Investment (I)
- ▹ Government Purchases (G)
- Net Exports (NX)

GDP/Y = C + I + G + (X-M)

COMPONENTS OF GDP

>Consumption (C):

 The spending by households on goods and services, with the exception of purchases of new housing.

>Investment (I):

 The spending on capital equipment, inventories, and structures, including new housing.

COMPONENTS OF GDP

>Government Purchases (G):

- The spending on goods and services by local, state, and federal governments.
- Does not include transfer payments because they are not made in exchange for currently produced goods or services.

>Net Exports (NX):

Exports minus imports.

Thank You ③