Lectures Outline

## Negotiations and International Organizations

Outline of This Lecture

# Negotiations and International Organizations

Introduction to Capital Flows

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National income accounts

- measures of national income
- measures of value of production
- measures of value of expenditure
- National saving, investment, and the current account
- Balance of payments accounts

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National income accounts

The National Income Accounts – I

- Records the value of **national income** that results from production and expenditure.
  - Producers earn income from buyers who spend money on goods and services.
  - ► The amount of expenditure by buyers = the amount of income for sellers = the value of production.
  - National income is often defined to be the income earned by a nation's factors of production.
- Gross national product (GNP) is the value of all final goods and services produced by a nation's factors of production in a given time period.

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National Income Accounting and the Balance of Payments

National income accou

#### The National Income Accounts – II

- ▶ What are factors of production? Factors that are used to produce goods and services: workers (labor services), physical capital (like buildings and equipment), natural resources and others.
- ► The value of final goods and services produced by US-owned factors of production are counted as US GNP.
- GNP is calculated by adding the value of expenditure on final goods and services produced:
  - Consumption (*C*): expenditure by domestic consumers
  - 2 Investment (I): expenditure by firms on buildings & equipment
  - Solution Government purchases (G): expenditure by governments on goods and services
  - Current account balance (CA) (exports (EX) minus imports (IM)): net expenditure by foreigners on domestic goods and services

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# National Income Accounting for an Open Economy – I

• The national income identity for an open economy is

 $Y_{GNP} = C + I + G + EX - IM$ 

Expenditure by foreign Expenditure by domestic individuals and institutions individuals and institutions

So  $CA = EX - IM = Y_{GNP} - (C + I + G)$ 

# Saving and the Current Account

• National saving (S) = national income (Y) that is not spent on consumption (C) or government purchases (G).

$$S = Y - C - G$$

• An open economy can save by building up its capital stock or by acquiring foreign wealth.

$$S = I + CA$$
.

#### The National Income Accounts – III

- **1 Depreciation** of physical capital results in a loss of income to capital owners, so the amount of depreciation is subtracted from GNP.
- 2 Unilateral transfers to and from other countries can change national income: payments of expatriate workers sent to their home countries, foreign aid and pension payments sent to expatriate retirees.
- Another approximate measure of national income is gross domestic product (*GDP*):
  - ▶ Gross domestic product measures the final value of all goods and services that are produced within a country in a given time period.
  - ightharpoonup GDP = GNP payments from foreign countries for factors of production + payments to foreign countries for factors of production.

National income accounts

# National Income Accounting for an Open Economy – II

- When production>domestic expenditure, exports>imports: current account > 0 and trade balance > 0
  - when a country exports more than it imports, it earns more income from exports than it spends on imports
  - ▶ net foreign wealth is increasing
- When production<domestic expenditure, exports<imports: current account < 0 and trade balance < 0
  - when a country exports less than it imports, it earns less income from exports than it spends on imports
  - ▶ net foreign wealth is decreasing

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## Private and Government Saving

• **Private saving** is the part of disposable income (national income, Y, minus taxes, T) that is saved rather than consumed:

$$S_p = Y - T - C$$

• Government saving is net tax revenue, T, minus government purchases, G:

$$S_g = T - G$$
.

• Private and government saving add up to national saving:

$$S = (Y - T - C) + (T - G) = S_p + S_g$$

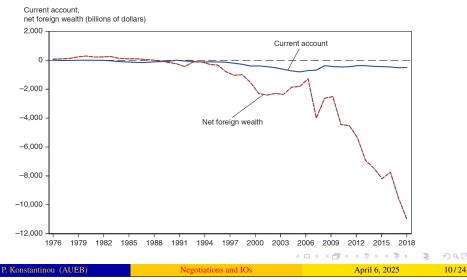
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#### **Balance of Payments Accounts**

- A country's balance of payments accounts accounts for its payments to and its receipts from foreigners.
- An international transaction involves two parties, and each transaction enters the accounts twice: once as a credit (+) and once as a debit (-).
- The balance of payments accounts are separated into 3 broad accounts:
  - **current account** (CA): accounts for flows of goods and services (imports and exports).
  - ▶ financial account (FA): accounts for flows of financial assets (financial capital).
  - **capital account** (*KA*): flows of special categories of assets (capital): typically nonmarket, non-produced, or intangible assets like debt forgiveness, copyrights and trademarks.

#### Current Account and Net International Investment Position

Figure: The US Current Account and Net International Investment Position



# Examples of Balance of Payments Accounting - I

- You import a fax machine from Olivetti.
- Olivetti deposits your check in a U.S. bank.

	Credit	Debit
Fax machine		-\$1,000
(current account, U.S. good import)		
Bank deposit		
(financial account, U.S. asset sale)	+\$1,000	

- You buy lunch in France and pay by credit card.
- French restaurant receives payment from your credit card company.

## Examples of Balance of Payments Accounting – II

	Credit	Debit
Meal purchase		
(current account, U.S. service import)		-\$200
Sale of credit card claim		
(financial account, U.S. asset sale)	+\$200	

- You buy a share of BP.
- BP deposits the money in a U.S. bank.

Cicuit	Debit
	-\$95
+\$95	
	+\$95

Balance of Payments Accounts

# How Do the Balance of Payments Accounts Balance?

• Due to the double entry of each transaction, the balance of payments accounts will balance by the following equation:

Current Account + Financial Account + Capital Account = 0
$$CA + FA + KA = 0$$

#### Examples of Balance of Payments Accounting – III

- U.S. banks forgive a \$50mln debt owed by the government of Argentina through debt restructuring.
- U.S. banks who hold the debt thereby reduce the debt by crediting Argentina's bank accounts.

	Credit	Debit
Debt forgiveness		
(capital account, U.S. transfer payment)		-\$50mln
Reduction in bank's claims		
(financial account, U.S. asset sale)	+\$50mln	

## Balance of Payments Accounts – I

The 3 broad accounts are more finely divided:

- Current account: imports and exports
  - merchandise (goods like DVDs)
  - 2 services (payments for legal services, shipping services, tourist meals, etc.)
  - income receipts (interest and dividend payments, earnings of firms and workers operating in foreign countries)
- Current account: net unilateral transfers
  - gifts (transfers) across countries that do not purchase a good or service nor serve as income for goods and services produced
- Capital account: records special transfers of assets, but this is a minor account for the U.S. and most countries in the world including Greece

## Balance of Payments Accounts – II

• Financial account: the difference between sales of domestic assets to foreigners and purchases of foreign assets by domestic citizens.

#### Financial inflow

- Foreigners loan to domestic citizens by buying domestic assets.
- ▶ Domestic assets sold to foreigners are a credit (+) because the domestic economy acquires money during the transaction.

#### Financial outflow

- Domestic citizens loan to foreigners by buying foreign assets.
- ▶ Foreign assets purchased by domestic citizens are a debit (–) because the domestic economy gives up money during the transaction.

#### Balance of Payments Accounts – III

- Financial account has at least 3 subcategories:
  - Official (international) reserve assets
  - All other assets
  - Statistical discrepancy

#### Statistical discrepancy

- Data from a transaction may come from different sources that differ in coverage, accuracy, and timing.
- ► The balance of payments accounts therefore seldom balance in practice.
- ► The statistical discrepancy is the account added to or subtracted from the financial account to make it balance with the current account and capital account.

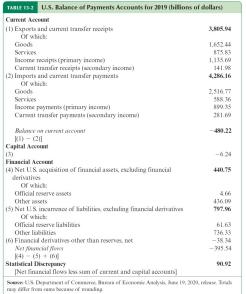
#### Balance of Payments Accounts – IV

- Official (international) reserve assets: foreign assets held by central banks to cushion against financial instability.
  - Assets include government bonds, currency, gold, and accounts at the International Monetary Fund.
  - ▶ Official reserve assets owned by (sold to) foreign central banks are a credit (+) because the domestic central bank can spend more money to cushion against instability.
  - ▶ Official reserve assets owned by (purchased by) the domestic central bank are a debit (-) because the domestic central bank can spend less money to cushion against instability.

# Balance of Payments Accounts – V

- The negative value of the official reserve assets is called the **official** settlements balance or "balance of payments."
  - ► It is the sum of the current account, the capital account, the nonreserve portion of the financial account, and the statistical discrepancy.
  - ► A negative official settlements balance may indicate that a country
    - is **depleting** its official international reserve assets, or
    - may be incurring large debts to foreign central banks so that the domestic central bank can spend a lot to protect against financial instability.

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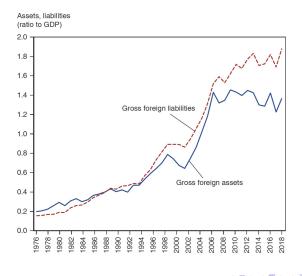
• The U.S. has the most negative net foreign wealth in the world, and so is therefore the world's largest debtor nation.

- Its current account deficit in 2012 was \$440 billion dollars, so that net foreign wealth continues to decrease.
- The value of foreign assets held by the U.S. has grown since 1980, but liabilities of the U.S. (debt held by foreigners) has grown faster.

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## US Balance of Payments Accounts – II

#### Figure: U.S. Gross Foreign Assets and Liabilities



# US Balance of Payments Accounts – III

- About 70% of foreign assets held by the U.S. are denominated in foreign currencies and almost all of U.S. liabilities (debt) are denominated in dollars.
- Changes in the exchange rate influence value of net foreign wealth (gross foreign assets minus gross foreign liabilities).
  - ▶ Appreciation of the value of foreign currencies makes foreign assets held by the U.S. more valuable, but does not change the dollar value of dollar-denominated debt for the U.S.