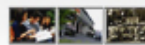




UNIVERSITAS ATMA JAYA YOGYAKARTA



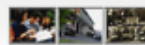
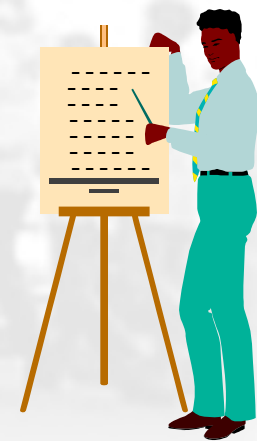
International Fund Flows





Chapter Objectives

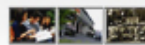
- To explain the key components of the balance of payments; and
- To explain how the international flow of funds is influenced by economic factors and other factors.





Balance of Payments

- The **balance of payments** is a summary of transactions between domestic and foreign residents for a specific country over a specified period of time.
- Inflows of funds generate credits for the country's balance, while outflows of funds generate debits.





Current Account

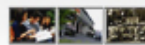
- The **current account** summarizes the flow of funds between one specified country and all other countries due to purchases of goods or services, or the provision of income on financial assets.
- Key components of the current account include the **balance of trade**, **factor income**, and **transfer payments**.





Capital Account

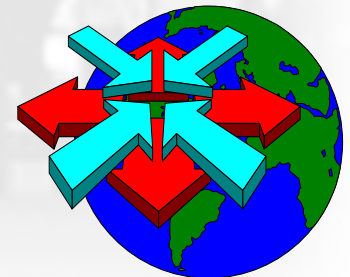
- The **capital account** summarizes the flow of funds resulting from the sale of assets between one specified country and all other countries.
- The key components of the capital account are direct foreign investment, portfolio investment, and other capital investment.





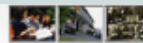
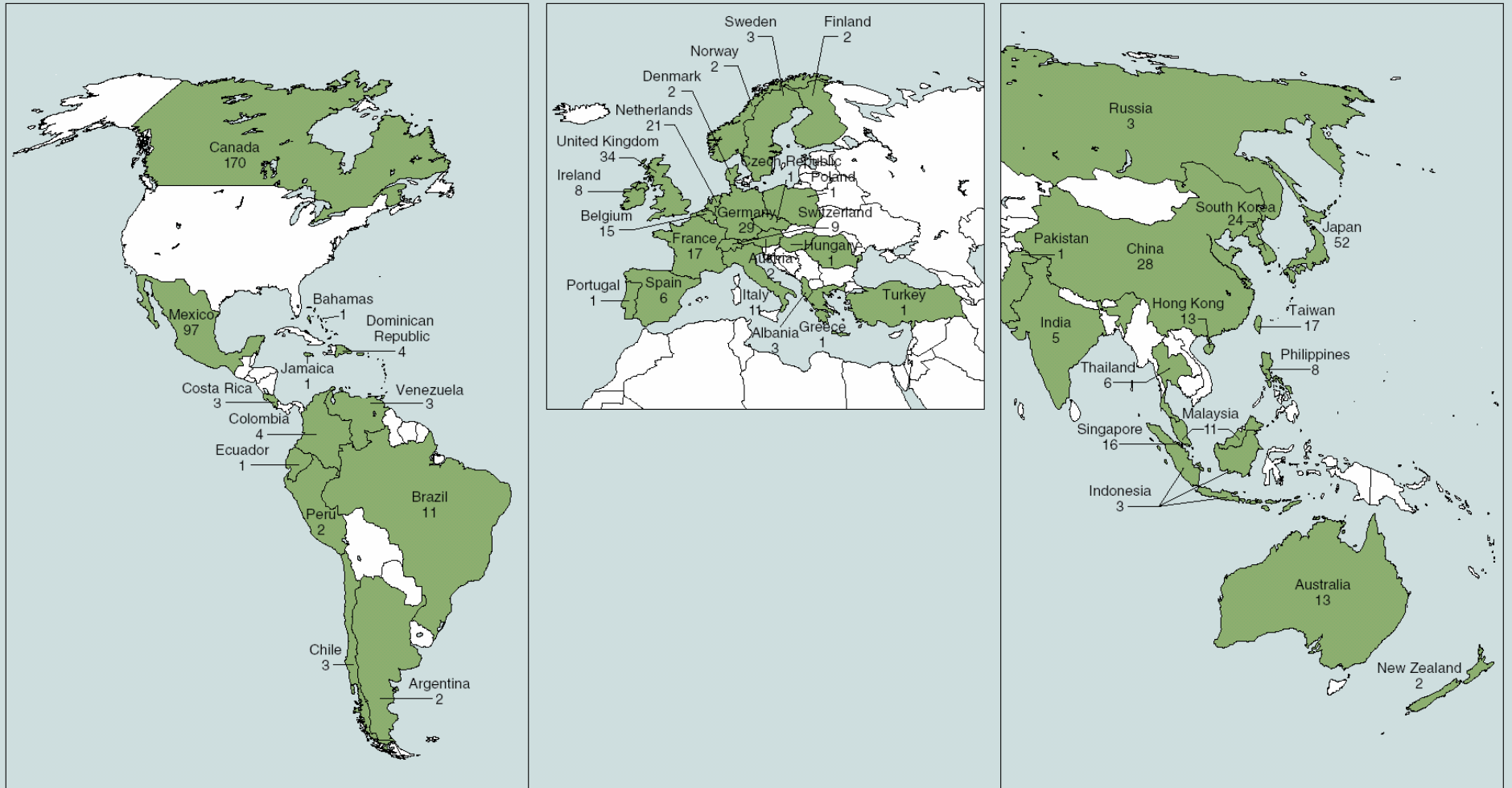
International Trade Flows

- **Some countries are more dependent on trade than others.**
 - The trade volume of a European country is typically between 30 – 40% of its GDP, while the trade volume of U.S. (and Japan) is typically between 10 – 20% of its GDP.
- **Nevertheless, the volume of trade has grown over time for most countries.**





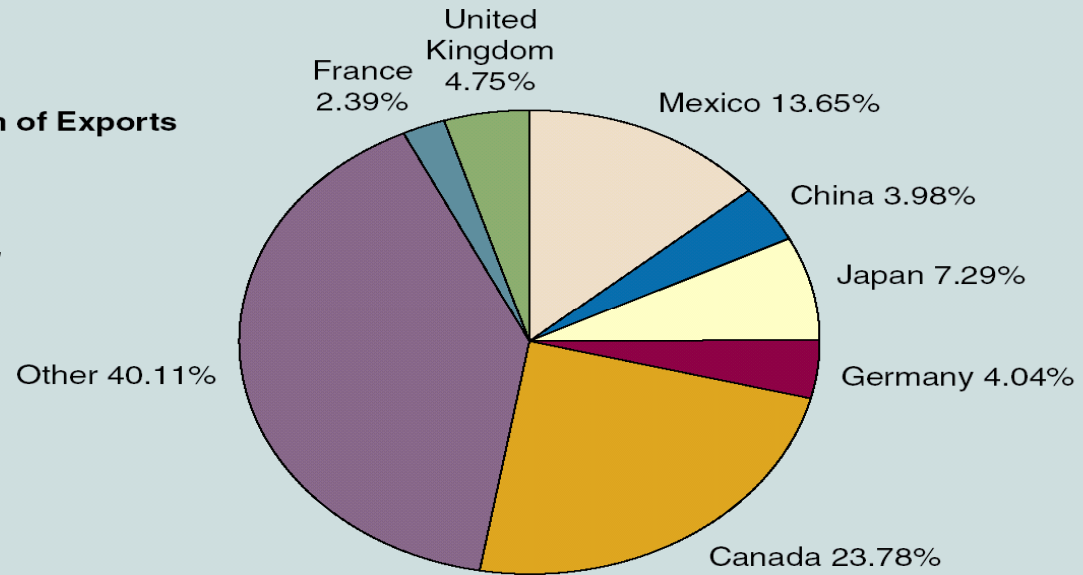
Distribution of U.S. Exports across Countries (in billions of \$)



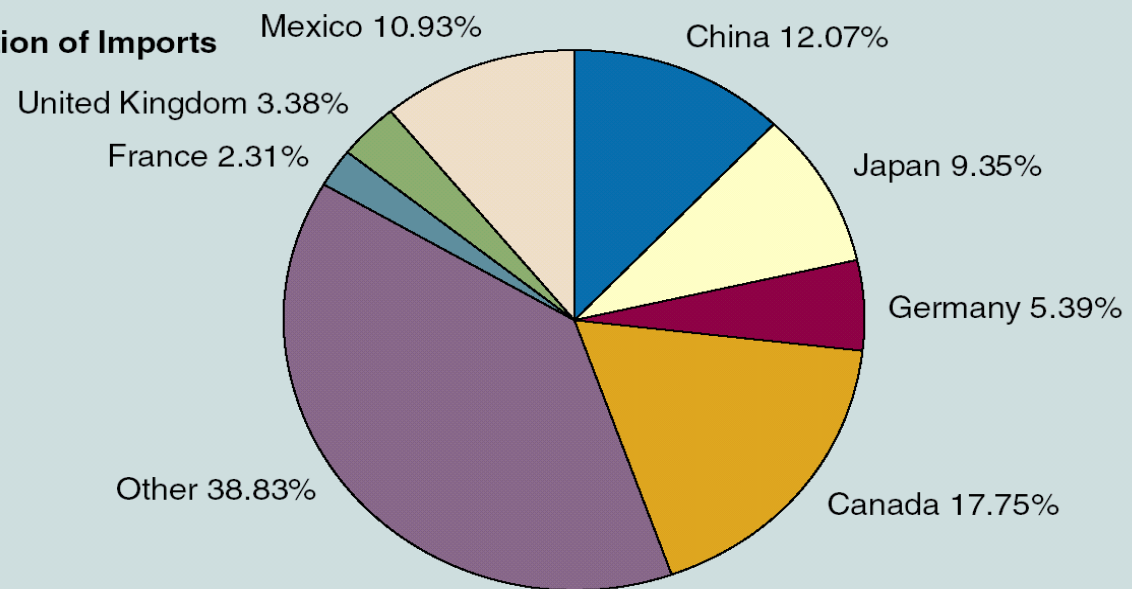


Distribution of U.S. Exports and Imports

Distribution of Exports

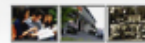
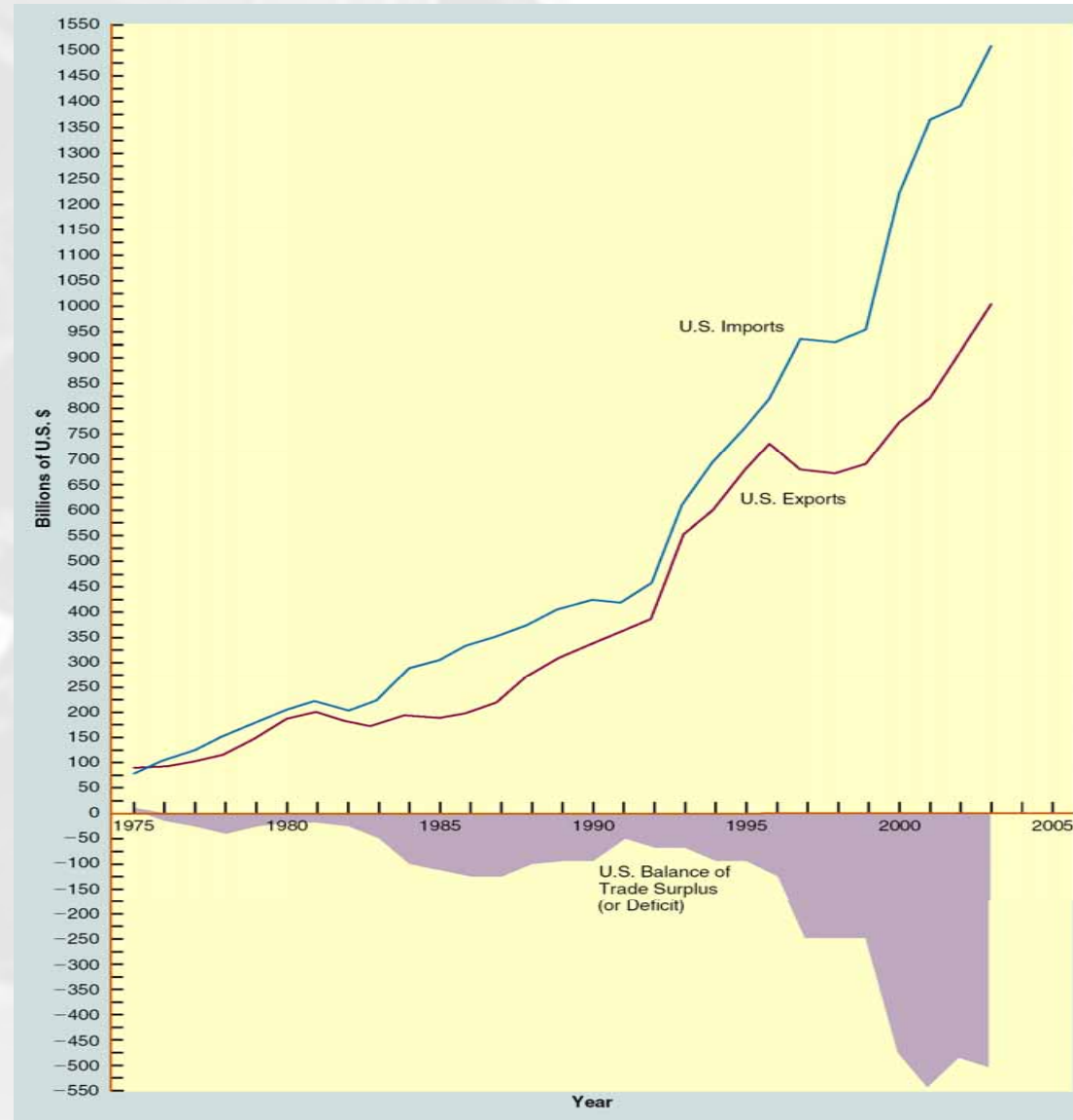


Distribution of Imports



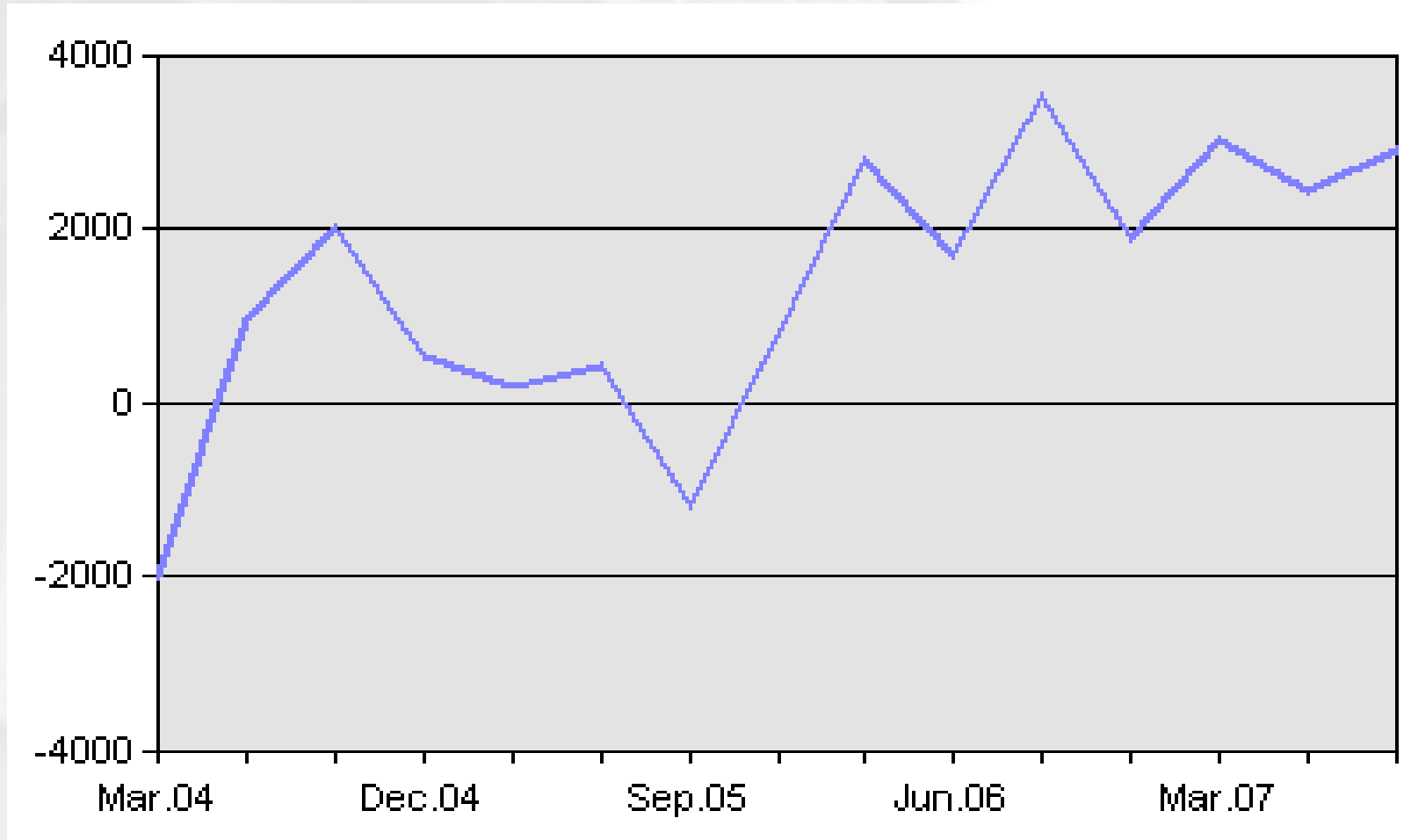


U.S. Balance of Trade Over Time





Indonesia Current Account



Source: Bank Indonesia





Trade Agreements



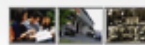
- **Many agreements have been made to reduce trade restrictions:**
 - ✧ 1988 U.S. and Canada free trade pact
 - ✧ North American Free Trade Agreement (NAFTA)
 - ✧ General Agreement on Tariffs and Trade (GATT)
 - ✧ Single European Act and the European Union





Trade Disagreements

- **However, even without tariffs and quotas, governments seem always able to find strategies that can give their local firms an edge in exporting:**
 - different environmental, labor laws
 - bribes, government subsidies (dumping)
 - tax breaks for specific industries
 - exchange rate manipulations





Trade Disagreements

- **Other trade-related issues include:**
 - ⌘ the outsourcing of services
 - ⌘ the use of trade policies for political reasons
 - ⌘ disagreements within the European Union





International Trade Flow Factors

- **Impact of Inflation**
 - α A relative increase in a country's inflation rate will decrease its current account, as imports increase and exports decrease.
- **Impact of National Income**
 - α A relative increase in a country's income level will decrease its current account, as imports increase.





International Trade Flow Factors

- **Impact of Government Restrictions**
 - ⌘ A government may reduce its country's imports by imposing a tariff on imported goods, or by enforcing a quota.
 - ⌘ Some trade restrictions may be imposed on certain products for health and safety reasons.





International Trade Flow Factors

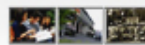
- **Impact of Exchange Rates**
 - α If a country's currency begins to rise in value, its current account balance will decrease as imports increase and exports decrease.
- ✎ **The factors interact, such that their simultaneous influence on the balance of trade is complex.**





Correcting Trade Deficit Balances

- **By reconsidering the factors that affect the balance of trade, some common correction methods can be developed.**
- **A floating exchange rate system may correct a trade imbalance automatically since the trade imbalance will affect the demand and supply of the currencies involved.**





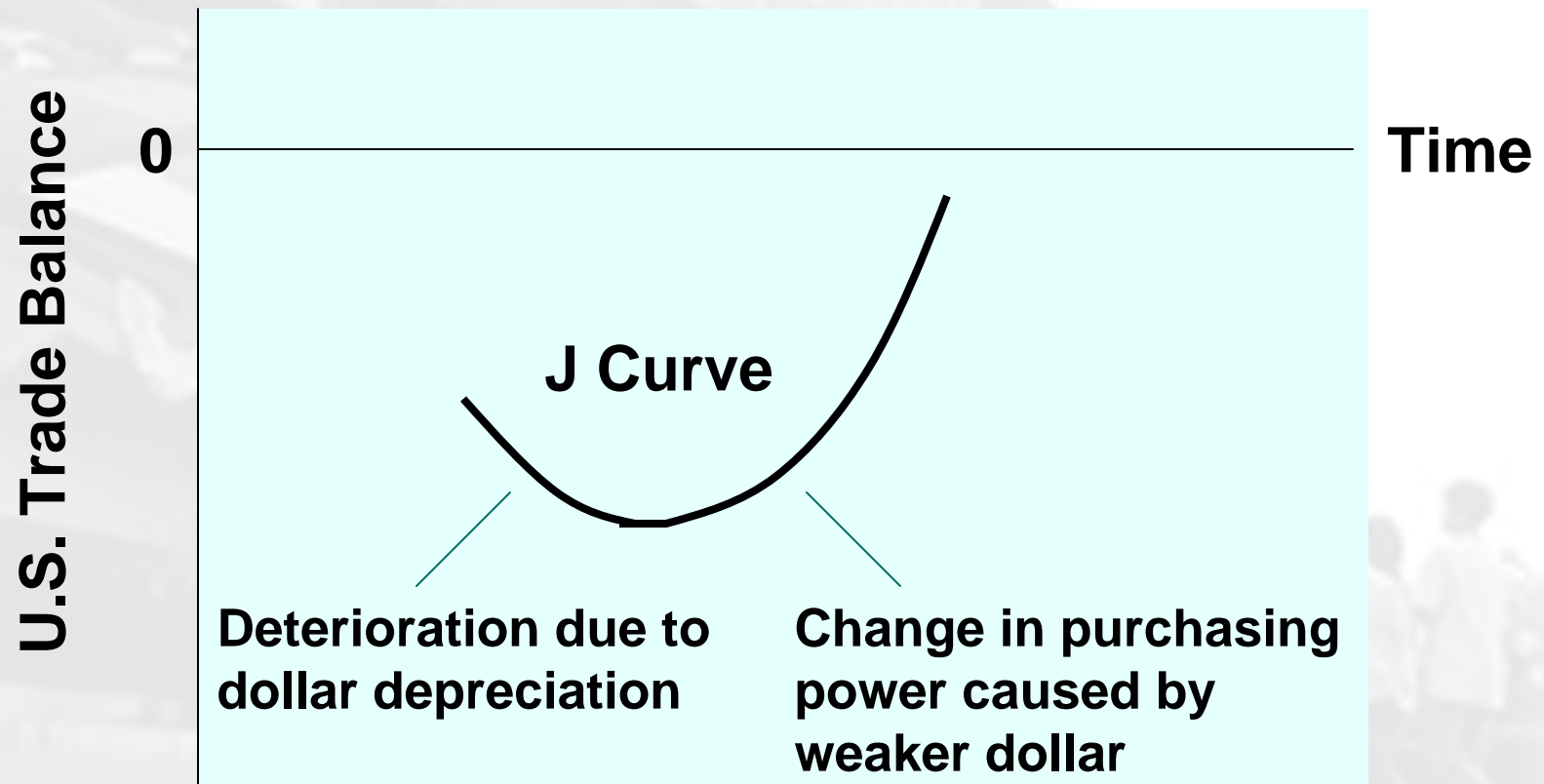
Why a Weak Home Currency Is Not a Perfect Solution

- **Counterpricing by competitors**
- **Impact of other weak currencies**
- **Stability of intracompany trade**
 - Many firms purchase products that are produced by their subsidiaries.
- **Prearranged international transactions**
 - The lag time between a weaker U.S.\$ and increased foreign demand has been estimated to be 18 months or longer.





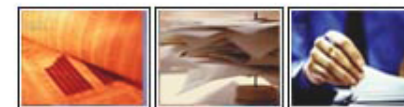
The J-Curve Effect





International Capital Flows





Distribution of DFI

For 2003, in millions of dollars

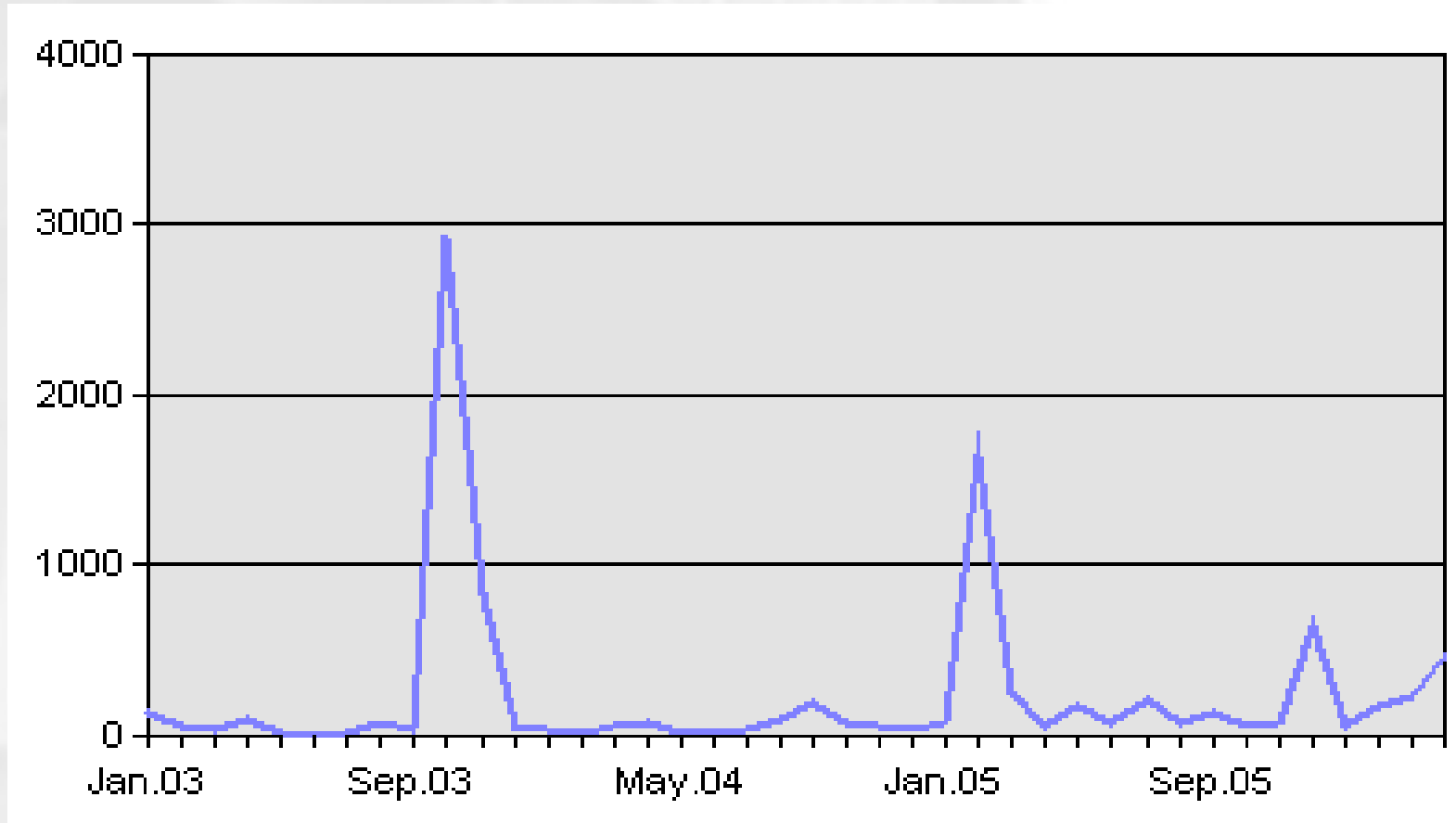
	U.S. DFI		DFI in the U.S.	
All countries	151,884	100.0%	29,772	100.0%
America	26,997	17.8%	12,641	42.5%
Canada	13,826	9.1%	9,116	30.6%
Mexico	5,667	3.7%	1,944	6.5%
Europe	99,191	65.3%	6,572	22.1%
Germany	8,676	5.7%	407	1.4%
Netherlands	14,968	9.9%	-614	-2.1%
Switzerland	14,444	9.5%	-6,993	-23.5%
United Kingdom	39,548	26.0%	-2,288	-7.7%
Africa	2,211	1.5%	-50	-0.2%
Middle East	2,093	1.4%	522	1.8%
Asia & Pacific	21,392	14.1%	10,086	33.9%
Japan	5,800	3.8%	6,495	21.8%

Source: U.S. Bureau of Economic Analysis





Total FDI in Indonesia

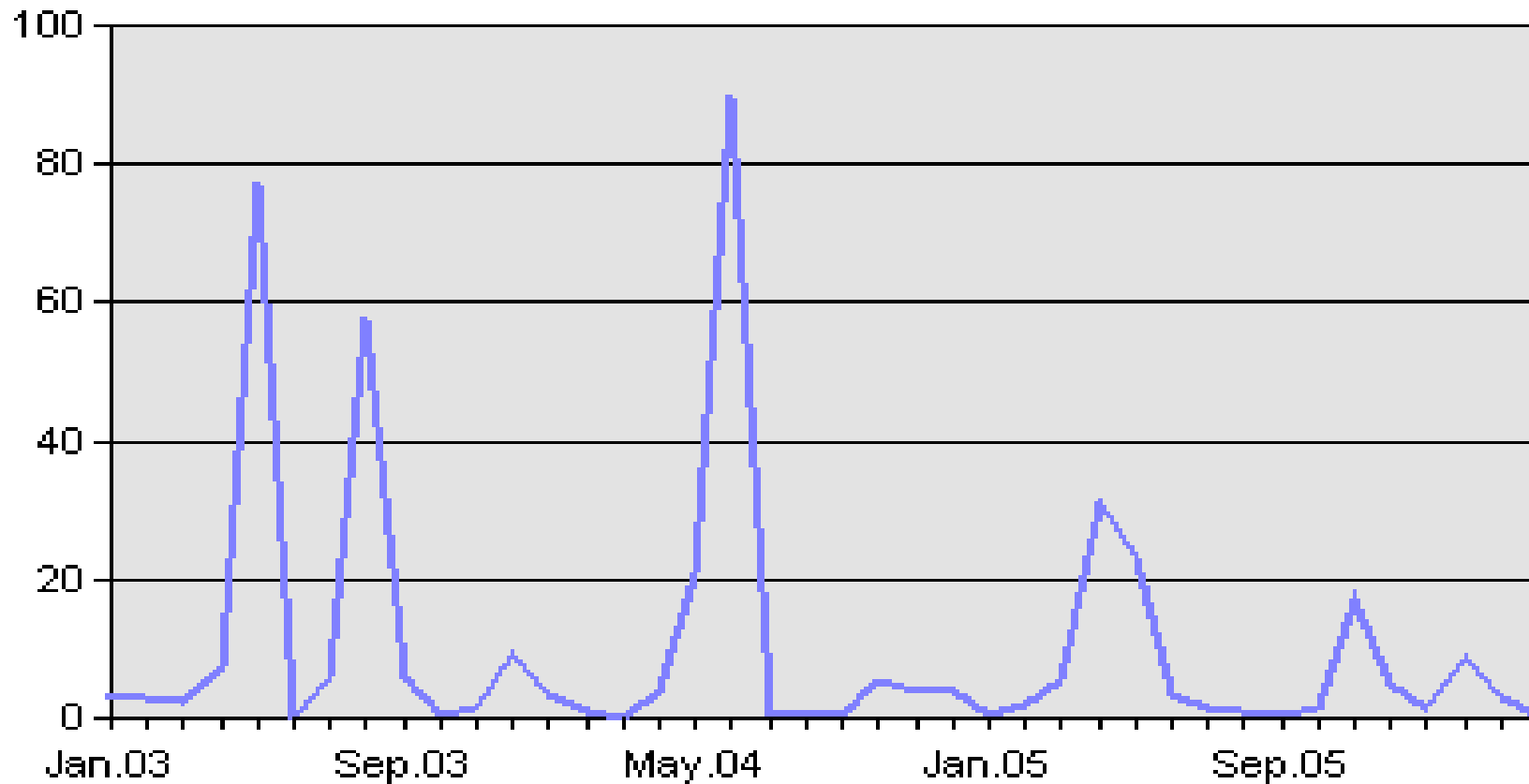


Source: Bank Indonesia

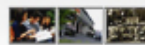




FDI from USA in Indonesia

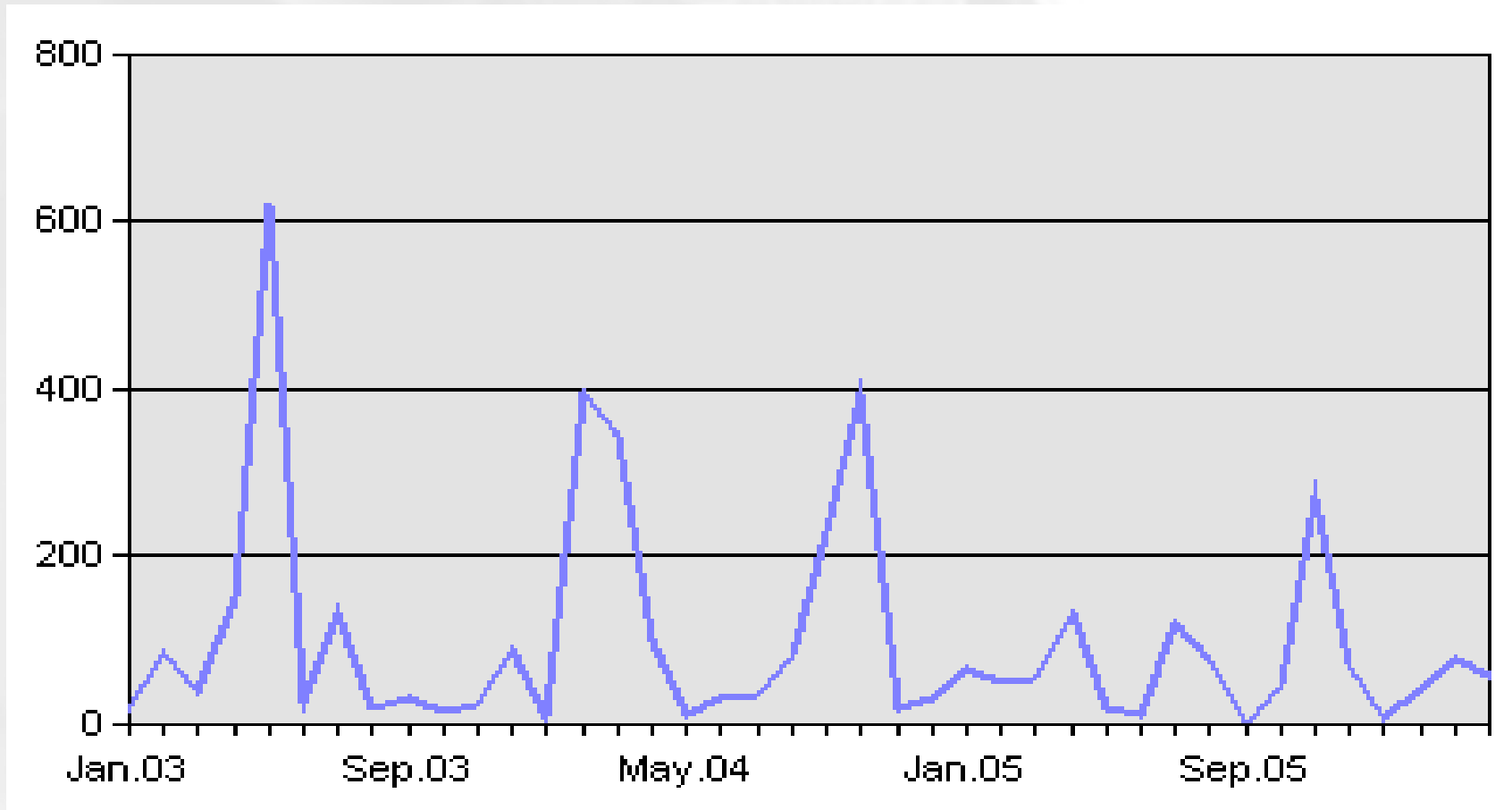


Source: Bank Indonesia

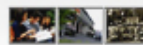




FDI from Japan in Indonesia

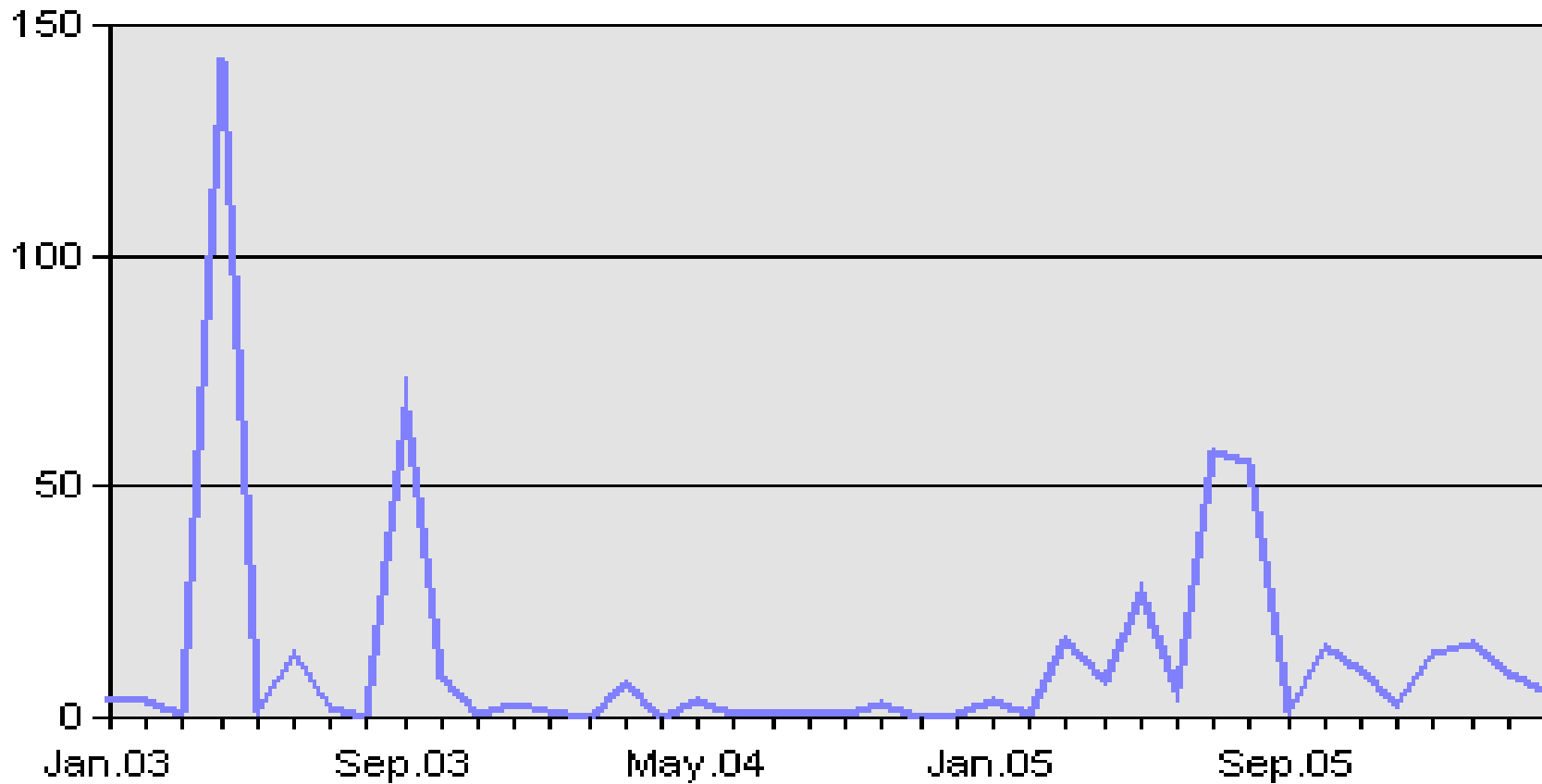


Source: Bank Indonesia

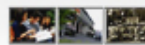




FDI from China in Indonesia

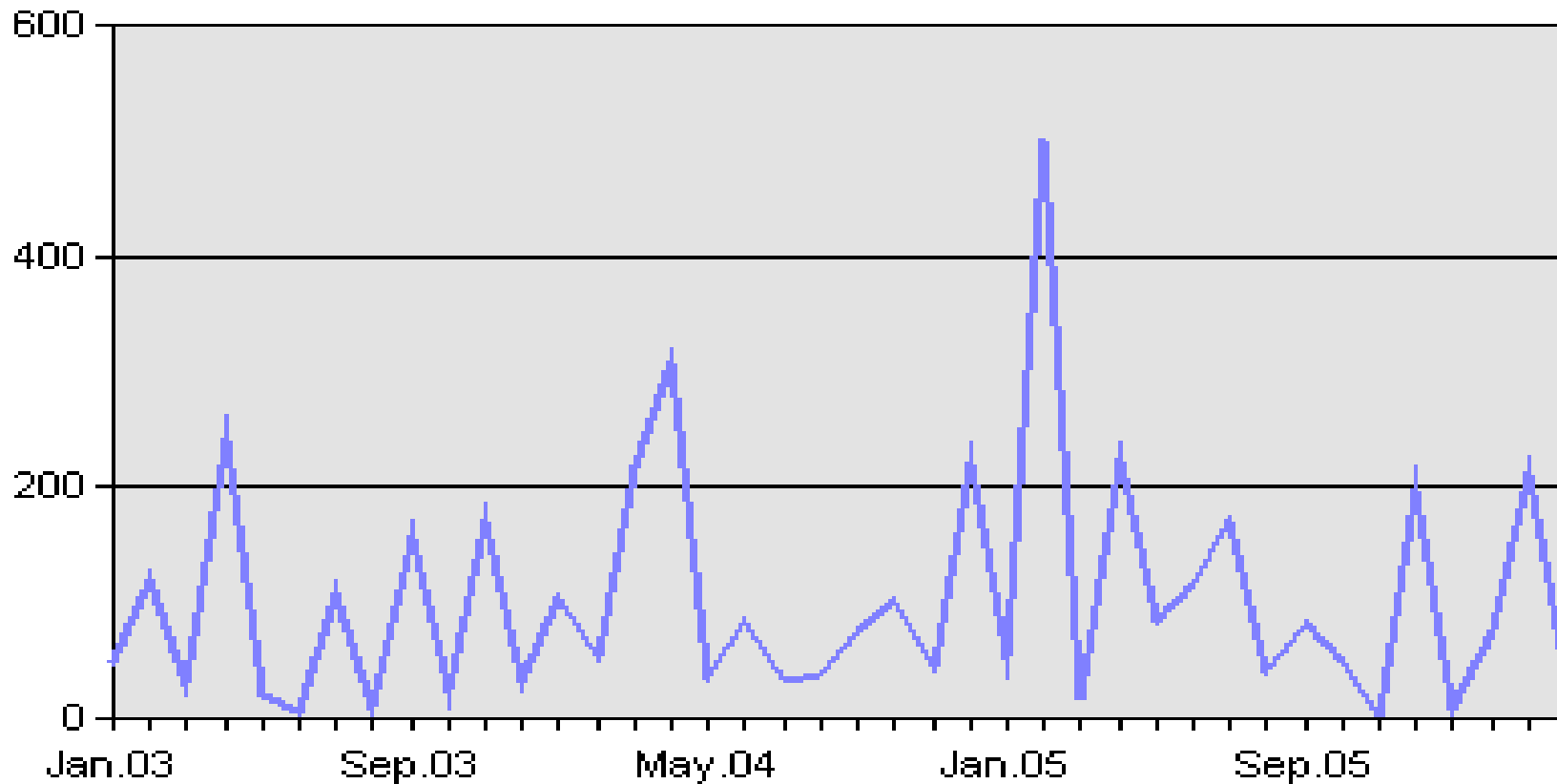


Source: Bank Indonesia

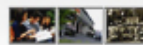




FDI from England in Indonesia

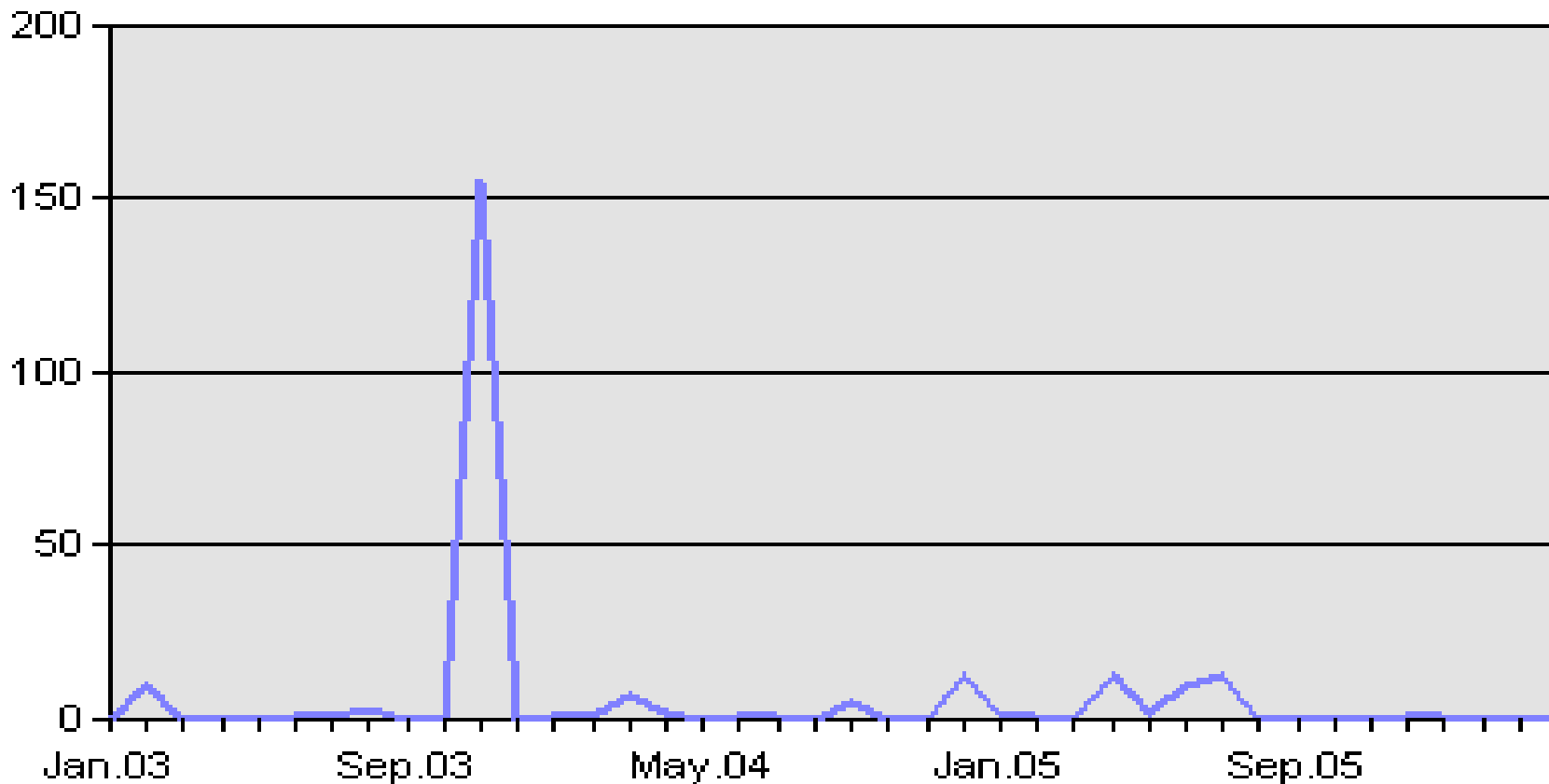


Source: Bank Indonesia





FDI from Germany in Indonesia



Source: Bank Indonesia





Factors Affecting DFI



- **Changes in Restrictions**
 - ⌘ New opportunities may arise from the removal of government barriers.
- **Privatization**
 - ⌘ DFI has also been stimulated by the selling of government operations.
- **Potential Economic Growth**
 - ⌘ Countries that have higher potential for economic growth are more attractive.

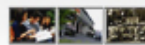




Factors Affecting DFI



- **Tax Rates**
 - α Countries that impose relatively low tax rates on corporate earnings are more likely to attract DFI.
- **Exchange Rates**
 - α Firms typically prefer to invest in countries where the local currency is expected to strengthen against their own.





Factors Affecting International Portfolio Investment

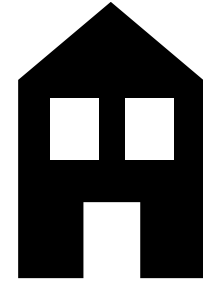


- **Tax Rates on Interest or Dividends**
 - ⌘ Investors will normally prefer countries where the tax rates are relatively low.
- **Interest Rates**
 - ⌘ Money tends to flow to countries with high interest rates.
- **Exchange Rates**
 - ⌘ Foreign investors may be attracted if the local currency is expected to strengthen.





International Flow Agencies

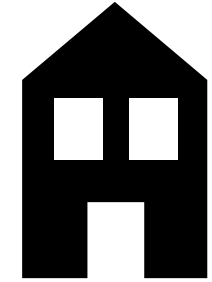


- **International Monetary Fund (IMF)**
 - ⌘ The IMF encourages internationalization of businesses through surveillance, and financial and technical assistance.
 - ⌘ Its compensatory financing facility attempts to reduce the impact of export instability on country economies.
 - ⌘ The IMF adopts a quota system, and its financing is measured in special drawing rights (SDRs).





International Flow Agencies



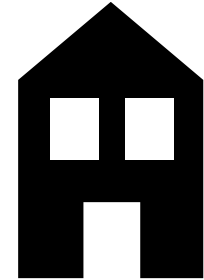
- **World Bank**

- ⌘ This International Bank for Reconstruction and Development makes loans to countries to enhance their economic development.
- ⌘ In particular, its Structural Adjustment Loans (SALs) are intended to enhance a country's long-term economic growth.
- ⌘ Funds are spread through cofinancing agreements with official aid agencies, export credit agencies, and commercial banks.

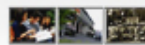




International Flow Agencies

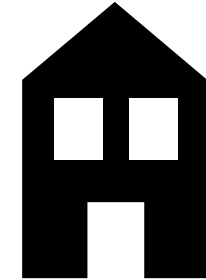


- **Multilateral Investment Guarantee Agency**
 - ⌘ Established by the World Bank, the MIGA helps develop international trade and investment by offering various forms of political risk insurance.
- **International Development Association**
 - ⌘ The IDA extends loans at low interest rates to poor nations that cannot qualify for loans from the World Bank.





International Flow Agencies

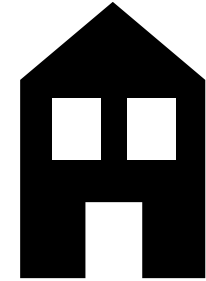


- **World Trade Organization**
 - ⌘ The WTO was established to provide a forum for multilateral trade negotiations and to settle trade disputes related to the GATT accord.
- **International Financial Corporation**
 - ⌘ The IFC promotes private enterprise within countries through loan provisions and stock purchases.





International Flow Agencies



- **Bank for International Settlements**
 - The BIS is the “central banks’ central bank” and “lender of last resort.”
- **Regional development agencies**
 - Inter-American Development Bank
 - Asian Development Bank
 - African Development Bank
 - European Bank for Reconstruction and Development.

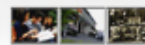




UNIVERSITAS ATMA JAYA YOGYAKARTA



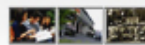
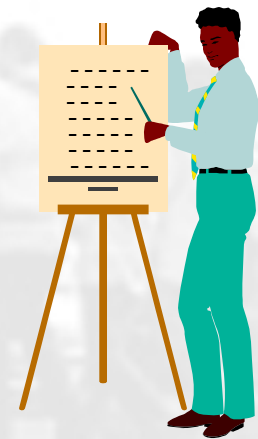
International Financial Markets





Chapter Objectives

- **To describe the background and corporate use of the following international financial markets:**
 - foreign exchange market,
 - international money market,
 - international credit market,
 - international bond market, and
 - international stock markets.





Motives for Using International Financial Markets

- The markets for real or financial assets are prevented from full integration by barriers like tax differentials, tariffs, quotas, labor immobility, communication costs, cultural and financial reporting differences.
- Yet, such market imperfections also create unique opportunities for specific geographic markets, helping these markets attract foreign creditors and investors.





Motives for Using International Financial Markets

- **Investors invest in foreign markets:**
 - α to take advantage of favorable economic conditions;
 - α when they expect foreign currencies to appreciate against their own; and
 - α to reap the benefits of international diversification.





Motives for Using International Financial Markets

- **Creditors provide credit in foreign markets:**
 - ⌘ to capitalize on higher foreign interest rates;
 - ⌘ when they expect foreign currencies to appreciate against their own; and
 - ⌘ to reap the benefits of diversification.
- **Borrowers borrow in foreign markets:**
 - ⌘ to capitalize on lower foreign interest rates;
 - ⌘ and when they expect foreign currencies to depreciate against their own.

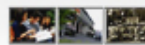




Foreign Exchange Market



- The **foreign exchange market** allows currencies to be exchanged in order to facilitate international trade or financial transactions.
- The system for exchanging foreign currencies has evolved from the **gold standard**, to agreements on **fixed exchange rates**, to a **floating rate system**.





Foreign Exchange Transactions

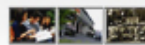
- The market for immediate exchange is known as the **spot market**.
- Trading between banks occurs in the **interbank market**. Within this market, brokers sometimes act as intermediaries.





Foreign Exchange Transactions

- The **forward market** enables an MNC to lock in the exchange rate at which it will buy or sell a certain quantity of currency on a specified future date.
- Customers in need of foreign exchange are concerned with quote competitiveness, special banking relationship, speed of execution, advice about current market conditions, and forecasting advice.





Foreign Exchange Transactions

- Banks provide foreign exchange services for a fee: a bank's **bid** (buy) quote for a foreign currency will be less than its **ask** (sell) quote.

$$\text{bid/ask spread} = \frac{\text{ask rate} - \text{bid rate}}{\text{ask rate}}$$

Example Suppose bid price for £ = \$1.52,
ask price = \$1.60.

$$\text{Spread} = \frac{(1.60 - 1.52)}{1.60} = .05, \text{ or } 5\%$$





Foreign Exchange Transactions

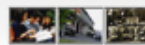
- The spread on currency quotations is positively influenced by order costs, inventory costs, and currency risk, and negatively influenced by competition, and volume.
- The markets for heavily traded currencies like the €, £, and ¥ are very **liquid**.





Interpreting Foreign Exchange Quotations

- The exchange rate quotations published in newspapers normally reflect the ask prices for large transactions.
- **Direct quotations** represent the value of a foreign currency in dollars, while **indirect quotations** represent the number of units of a foreign currency per dollar.
- Indirect quotation =
$$\frac{1}{\text{Direct quotation}}$$





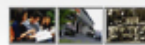
Interpreting Foreign Exchange Quotations

- A **cross exchange rate** reflects the amount of one foreign currency per unit of another foreign currency.

Example Direct quote: \$1.50/£, \$.009/¥

Indirect quote: .67£/\$, 111.11¥/\$

$$\begin{aligned} \text{Value of } \text{£} \text{ in } \text{¥} &= \frac{\text{value of } \text{£} \text{ in } \$}{\text{value of } \text{¥} \text{ in } \$} \\ &= \frac{\$1.50/\text{£}}{\$.009/\text{¥}} \\ &= 166.67\text{¥}/\text{£} \end{aligned}$$





Currency Futures and Options Market

- **Currency futures contracts** specify a standard volume of a particular currency to be exchanged on a specific settlement date. They are sold on exchanges, unlike forward contracts.
- **Currency call (put) options** give the right to buy (sell) a specific currency at a specific price (called the **strike** or **exercise price**) within a specific period of time.





International Money Market

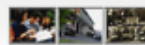
- **Financial institutions in this market serve MNCs by accepting deposits and offering loans in a variety of currencies.**





International Money Market

- Both the European and Asian money markets originated as markets involving mostly dollar-denominated deposits.
- The **Eurocurrency market** (market for **Eurodollars**) developed during the 1960s and 1970s, stimulated by regulatory changes in the U.S. and the growing importance of OPEC.





International Money Market



- **The growing standardization of global banking regulations has contributed towards the globalization of the industry.**
 - The Single European Act opened up the European banking industry and increased its efficiency.
 - The Basel Accord outlined risk-weighted capital adequacy requirements for banks.
 - The proposed Basel II Accord attempts to account for operational risk.





International Credit Market

- MNCs sometimes obtain medium-term funds through banks located in foreign markets.
- **Eurocredit loans** refer to loans of one year or longer extended by banks in Europe to foreign MNCs or government agencies.
- Floating rate loans, such as those based on the **LIBOR**, are common, since bank asset and liability maturities may not match.





International Credit Market

- Sometimes a single bank is unwilling or unable to lend the amount needed by a particular MNC or government agency.
- A lead bank may then organize a **syndicate** of banks to underwrite the loan.
- Borrowers that receive a syndicated loan typically incur front-end management and commitment fees, in addition to the interest on the loan.





International Bond Market

There are two types of international bonds:

- ① Bonds denominated in the currency of the country where they are placed but issued by borrowers foreign to the country are called **foreign bonds** or **parallel bonds**.
- ② Bonds that are sold in countries other than the country of the currency denominating the bonds are called **Eurobonds**.

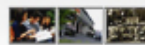




International Bond Market



- **The emergence of the Eurobond market was partly due to the 1963 U.S. Interest Equalization Tax (IET). They have become very popular, perhaps in part because they circumvent registration requirements.**
- **Usually, Eurobonds are issued in bearer form, pay annual coupons, and have call provisions. Some also carry convertibility clauses, or have variable rate provisions.**

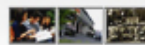




International Bond Market



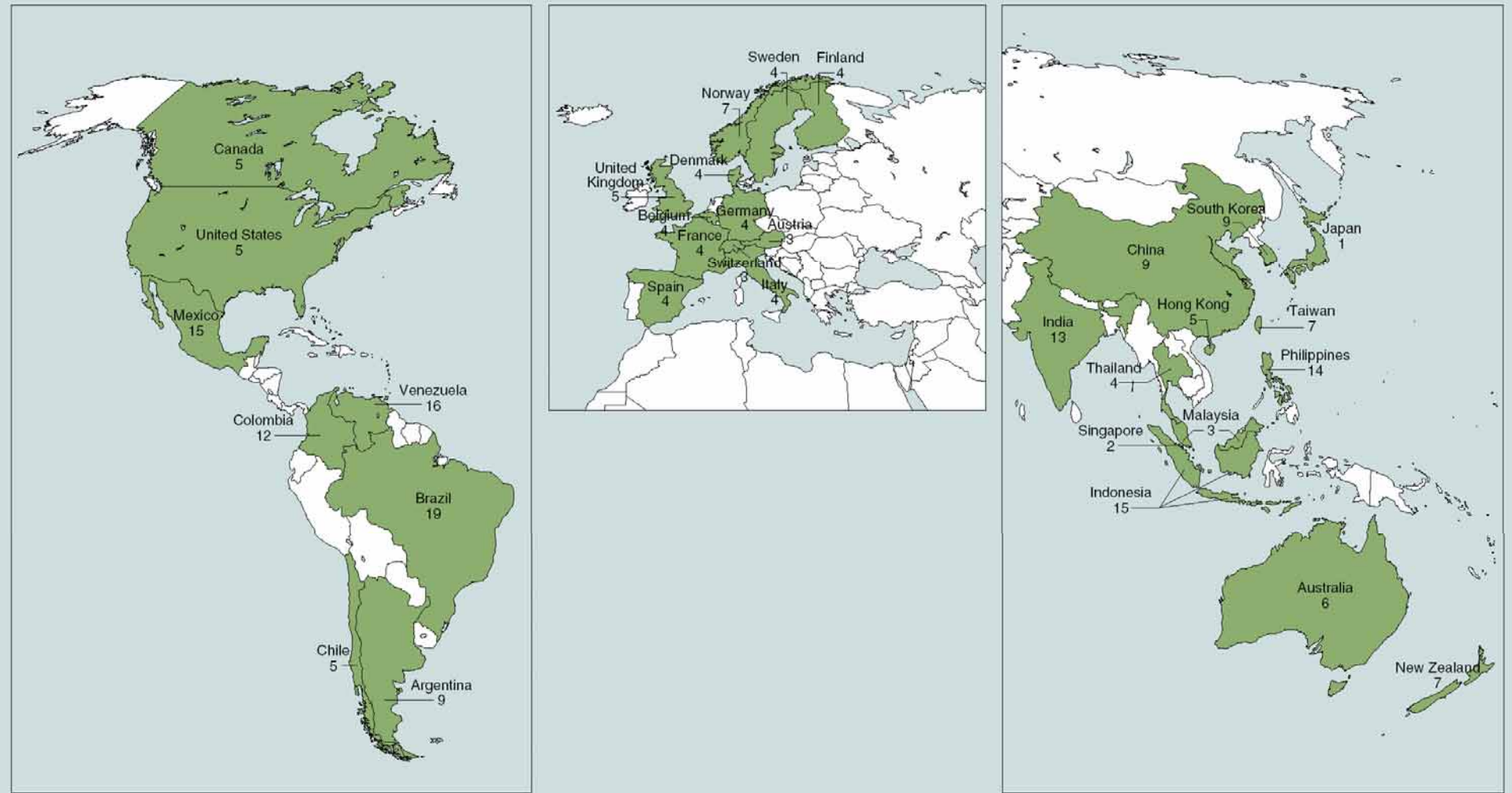
- **70 to 75 percent of Eurobonds are denominated in the U.S. dollar.**
- **Eurobonds are underwritten by a multinational syndicate of investment banks and simultaneously placed in many countries.**
- **In the secondary market, the market makers are often the same underwriters who sell the primary issues.**





Comparing Interest Rates Among Currencies

Annualized Short-Term Interest Rates among Countries in 2001





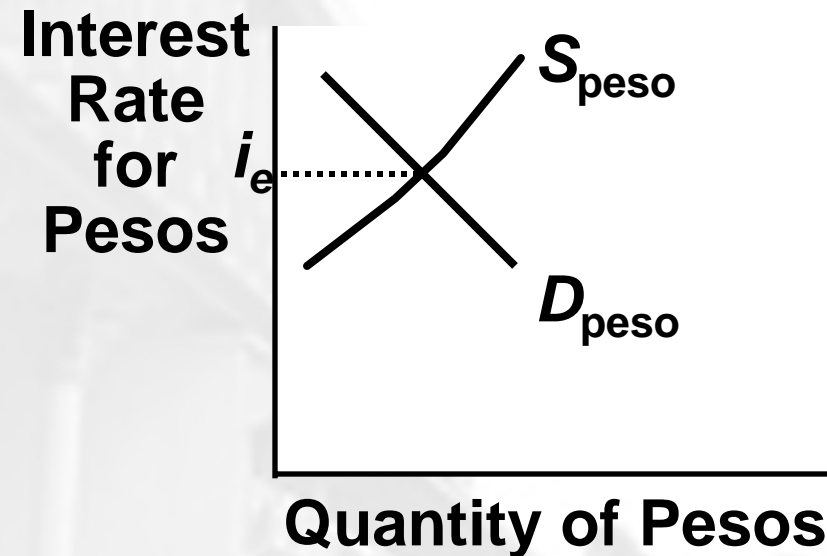
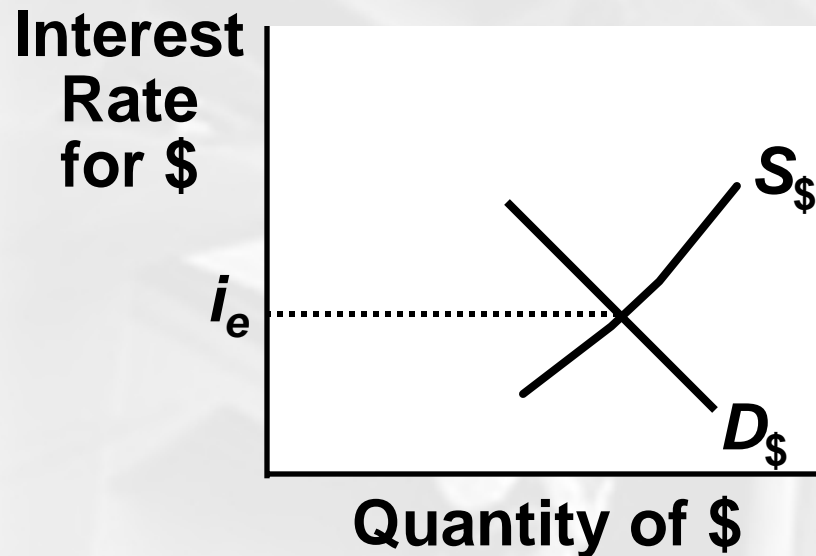
Comparing Interest Rates Among Currencies

- Interest rates are crucial because they affect the MNC's cost of financing.
- The interest rate for a specific currency is determined by the demand for and supply of funds in that currency.
- As the demand and supply schedules for a specific currency change over time, the equilibrium interest rate will also change.

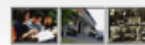




Why U.S. Dollar Interest Rates Differ from Mexican Peso Interest Rates

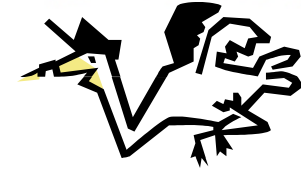


- The curves are further to the right for the dollar because the U.S. economy is larger.
- The curves are higher for the Mexican peso because of the higher inflation in Mexico.





International Stock Markets



- In addition to issuing stock locally, MNCs can also obtain funds by issuing stock in international markets.
- This will enhance the firms' image and name recognition, and diversify their shareholder base.
- A stock offering may also be more easily digested when it is issued in several markets.

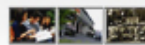




International Stock Markets

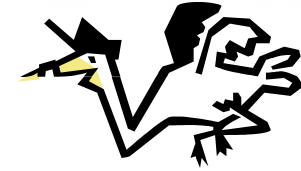


- Stock issued in the U.S. by non-U.S. firms or governments are called **Yankee stock offerings**. Many of such recent stock offerings resulted from privatization programs in Latin America and Europe.
- Non-U.S. firms may also issue **American depository receipts (ADRs)**, which are certificates representing bundles of stock.

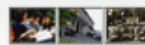




International Stock Markets



- **The locations of an MNC's operations can influence the decision about where to place its stock, in view of the cash flows needed to cover dividend payments.**
- **Market characteristics are important too. Stock markets may differ in size, trading activity level, and proportion of individual versus institutional share ownership.**





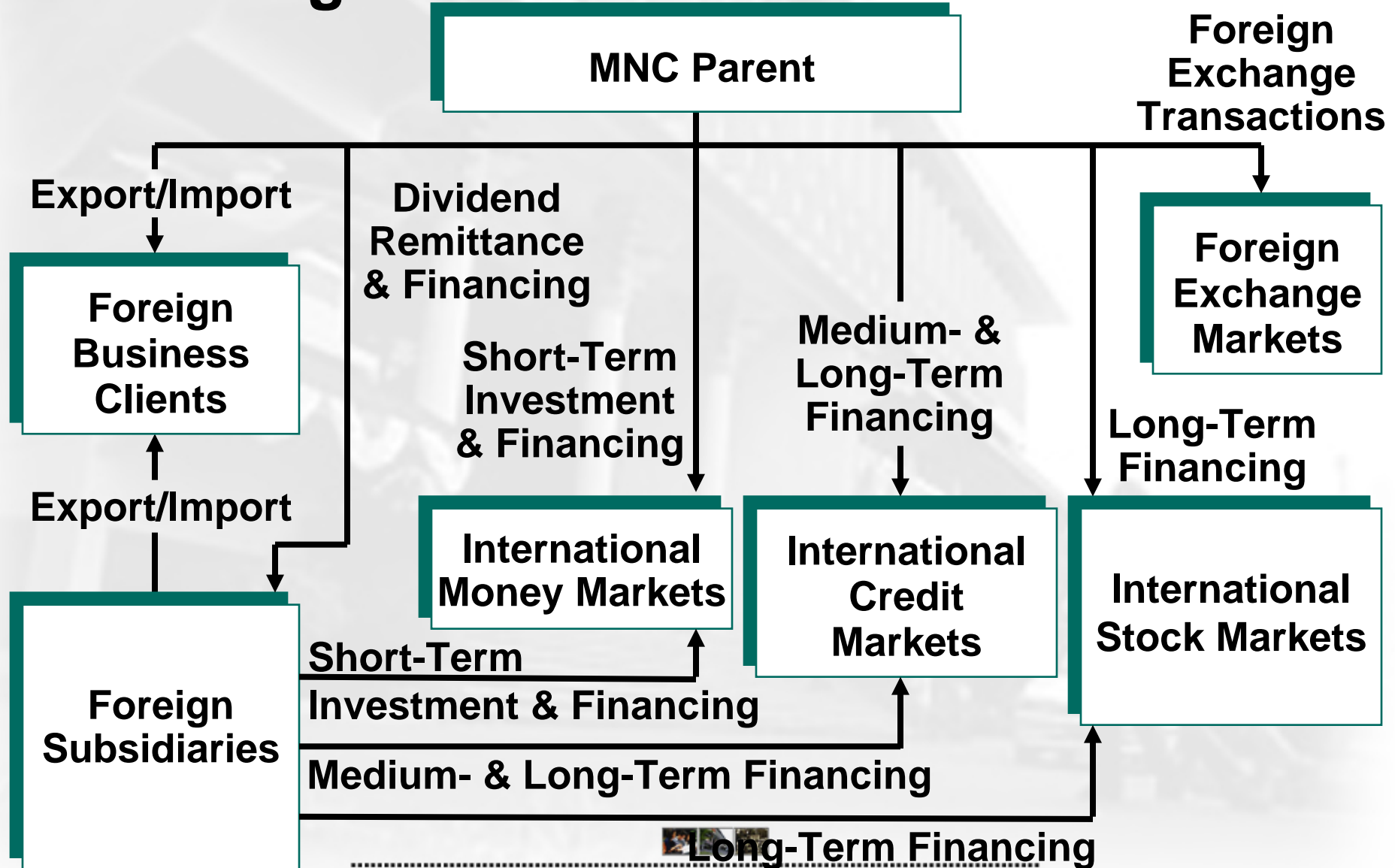
Comparison of International Financial Markets

- **The foreign cash flow movements of a typical MNC can be classified into:**
 - ① Foreign trade – exports and imports
 - ② Direct foreign investment (DFI) – acquisition of foreign real assets
 - ③ Short-term investment or financing in foreign securities
 - ④ Longer-term financing in the international bond or stock markets





Foreign Cash Flow Chart of an MNC





How Financial Markets Affect an MNC's Value

- **Since interest rates commonly vary among countries, an MNC may use the international financial markets to reduce its cost of capital, thereby achieving a higher valuation.**

