



- \varnothing Exchange rates fixed in U.S. dollar
- \varnothing U.S. dollar was fixed in gold U.S. dollar was fixed to gold at \$35 per ounce
- Ø March 1973 most currencies float in value



Exchange Rate Mechanisms

- Ø Independent float
 - ü Currency value allowed to move freely
 - ü Little government intervention
- **⊘** Pegged to another currency
 - ü Currency value fixed in terms of a foreign currency
 - ü E.g. U.S. dollar
 - ü Central bank maintains the exchange rate
- Ø European Monetary System (Euro)
 - ü Twelve countries use a single currency
 - ü Floats against other currencies E.g. U.S. dollar



Foreign Exchange Markets

- **⊘** Foreign Exchange Rates
 - ü Interbank rates
 - ü Wholesale prices
 - ü Exchange of currencies within Banks
- **Ø** Published on the internet and in newspapers
- Ø Reflected as;
 - ü Direct quotes (US \$ equivalent)
 - ü Indirect quotes (currency per US \$)



Foreign Exchange Rates

- Ø Spot rates
 - ü Today's price for purchasing or selling a foreign currency
- Ø Forward rate
 - ü Today's price for purchasing or selling a foreign currency for some future date
- Ø Premium
 - ü Forward rate is greater than the spot rate
- Ø Discount
 - ü Forward rate is less than the spot rate



Foreign Exchange Rates

- **Ø** Option contracts
 - ü Foreign currency option
 - ü Gives right, no obligation
 - ü Trade foreign currency in future
- Ø Put option
 - ü Option to sell the foreign currency
- \emptyset Call option
 - ü Option to buy the foreign currency
- Ø Strike price
 - ü Exchange rate at which currency will be exchanged when option is exercised



Foreign Currency Transactions

- Ø Transaction exposure
 - ü Exposure to foreign exchange risk
- Ø Export sale
 - ü Sale to foreign customer
 - ü Later payment
 - ü In customer's currency
- Ø Import purchase
 - ü Purchases from foreign supplier
 - ü Payment in the supplier's currency
- Ø Foreign exchange risk
 - ü Change in the exchange rate results
 - ü Exporter will receive less
 - ü Importer will pay more than anticipated



Foreign Currency Transactions

- Ø Example
- Ø Joe Inc., a U.S. company, makes a sale and ships goods to Jose, SA, a Mexican customer
- Ø Sales price is \$100,000 (U.S.) and Joe allows Jose to pay in pesos in 30 days
- Ø The current exchange rate is \$0.10 per 1 peso
- Ø Joe plans to receive 1,000,000 pesos (\$100,000/\$0.10)
- Ø Joe has foreign exchange risk exposure because he may receive less than \$100,000.
- Ø Suppose the peso decreases such that in 30 days the exchange rate is \$0.09 per 1 peso.
- Ø Joe will receive 1,000,000 pesos which will be worth \$90,000 (1,000,000 x \$0.09) and Joe receives \$10,000 less due to exchange rate fluctuation.



Accounting for Foreign Currency Transactions

Ø One transaction perspective

- ü Treats sale and collection as one transaction
- ü Transaction complete when foreign currency received and converted
- ü Sale is measured at converted amount
- ü Not allowed under IAS or U.S. GAAP

⊘ Two transaction perspective

- Ø Two transactions as Sale & Collection
- Ø Sale based on current exchange rate
- Ø Exchange rate changes Collection for different amount
- Ø Difference considered as a Foreign exchange gain or loss
- Ø Concepts are identical for purchase transaction
- Ø IAS 21 and FASB 830 require two-transaction perspective



Accounting for Foreign Currency Transactions

∅ Gain or loss – export sales

- ü Export sale asset exposure
- ü If foreign currency appreciates foreign exchange gain
- ü If foreign currency depreciates foreign exchange loss

Ø Gain or loss – import purchases

- ü Import purchase liability exposure
- ü If foreign currency appreciates foreign exchange loss
- ü If foreign currency depreciates foreign exchange gain



Accounting for Foreign Currency Transactions

- Ø Export sale
- Ø February 1, 2012, Joe Inc., a U.S. company, makes a sale and ships goods to Jose, SA, a Mexican customer.
- Ø Sales price is \$100,000 (U.S.).
- Ø Jose agrees to pay in pesos on March 2, 2012.
- Ø Assume spot rate as of February 1, 2011 is \$0.10 per peso.
- Ø Joe, Inc. records the sale (in U.S. \$) on February 1, 2011 as follows:

Accounts Receivable Dr 100,000 Sales Cr 100,000

- Ø On March 2, 2011, the spot rate is \$0.09 per peso.
- Ø Joe Inc. will receive 1,000,000 pesos, which are now worth \$90,000. Joe makes the following journal entry

Cash 90,000
Foreign Exchange Loss 10,000
Accounts Receivable 100,000



Hedging Foreign Exchange Risk

Ø Hedging

- ü Protects from exchange rate fluctuations
- ü Foreign currency forward contracts
- ü Foreign currency options

Ø Foreign currency forward contract

- ü Buy or sell foreign currency
- ü Future date

Ø Foreign currency option

- ü Right to buy or sell foreign currency
- ü For a period of time

Ø Hedge accounting

- ü Used to hedge an exposure
- ü Highly effective In offsetting changes in Fair value



Ø Hedging – Example 1

- ü Previously, Joe Inc. lost \$20,000 without hedging as the peso fell from \$0.11 to \$0.09.
- ü The loss was (\$0.11 \$0.09) x 1,000,000 pesos.
- ü Joe could have purchased a foreign currency forward contract on December 1, 2010.
- ü Under the contract, Joe would have agreed to sell 1,000,000 pesos for \$0.105 on March 2, 2011.
- ü In this case, Joe would have collected \$105,000 rather than \$90,000.
- ü Instead of a \$20,000 foreign exchange loss, Joe would have paid a \$5,000 premium on the forward contract.

