International Financial System (4/2/2012) Econ 390-001

Definitions

- **fixed exchange rate** a currency's value is matched to the value of another single currency or to a commodity (e.g., gold)
- floating exchange rate a currency's value is allowed to fluctuate to the foreign exchange market
- managed float (dirty float) floating ER: but government sometimes intervenes (buying or selling foreign assets to influence exchange rates)
- crawling peg fixed ER: but allowed to fluctuate between a narrow band of rates
- gold standard fixed ER: currencies pegged to gold
- Bretton Woods (1944-1971) fixed ER: dollar pegged to gold, other currencies pegged to dollar
- currency board fixed ER: domestic currency backed 100% by a foreign currency with a permanent peg
- dollarization fixed ER: adoption of a foreign currency as the domestic currency (e.g., the dollar)
- *currency union* fixed ER (inside): countries join together for a common currency, which operates like a fixed regime (dollarization) among member countries and either fixed or floating with rest of the world
- *capital controls* restrictions on foreign investment; restrictions regulating the flow in and out of the capital account
- *perfect capital mobility* no capital controls
- *impossible trinity* a country cannot have all 3 of the following at the same time: fixed exchange rate, capital mobility, independent monetary policy
- international reserves (foreign exchange reserves) central bank holdings of assets denominated in a foreign currency
- **foreign exchange interventions** central bank international financial transactions made to influence foreign exchange rates
- unsterilized foreign exchange intervention FEI that effects the monetary base
- **sterilized foreign exchange intervention** FEI with an offsetting open market operation that leaves the monetary base unchanged
- **devaluation** setting the exchange rate peg (e) to a higher level
- *revaluation* setting the exchange rate peg (e) to a lower level
- **speculative attack** the massive selling (shorting) of a country's currency assets, with the hope of a devaluation, which would net a huge profit
- International Monetary Fund setup under Bretton Woods to help countries maintain fixed exchange rates (loans to countries with BoP problems); now acts as an international LOLR during financial crises
- World Bank provides long-term loans to developing countries for economic development projects

Principles

- Fixed exchange rates make trade and investment between two countries on the same peg easy (minimize exchange rate risk).
- Floating exchange rates have a more flexible monetary policy and don't have to waste resources defending the peg.
- The United States and most other countries were on a fixed exchange rate regime until 1971 (first the gold standard, then Bretton Woods).
- In order to defend a fixed exchange rate, the central bank must intervene when the exchange rate fluctuates.
- When the domestic currency depreciates (e↑), the central bank must sell foreign assets (international reserves) to restore the old exchange rate.
 - o If it runs out of reserves, it must either devalue or switch to a floating regime.
- When the domestic currency appreciates ($e\downarrow$), the central bank must buy foreign assets (international reserves) to restore the old exchange rate.
 - o Central banks may accumulate a lot of international reserves (e.g., China has > \$2 trillion).

Exchange rate regimes

- gold standard (fixed)
- currency union (fixed inside)
- dollarization (fixed)
- currency board (fixed)
- traditional fixed (fixed)
- crawling peg (fixed)
- managed float (floating)
- pure float (floating)

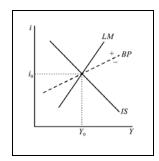
Impossible trinity examples

- United states
 - fixed exchange rate
 - o independent monetary policy
 - o capital mobility
- Euro (currency union)
 - o fixed exchange rate
 - o independent monetary policy
 - o capital mobility

Impossible trinity



Mundell-Fleming



perfect capital mobility

	float	fixed
FP	0	+
MP	+	0

	float	fixed	
FP	+	0	
MP	+	0	

no capital mobility

unsterilized foreign exchange intervention

Assets	Liabilities		
FEX reserves	-\$100	currency	-\$100

sterilized foreign exchange intervention

Assets		Liabilities	
FEX reserves	-\$100	currency	+\$0
bonds	+\$100		