International Financial Management: Review

Prof. Ian Giddy
New York University

International Financial Management

- 1. Management, Markets and Linkages
- Exchange Rate Determination and Forecasting
- Hedging Tools: Forwards vs Futures vs Options
- 4. Measuring and Managing Risk
- 5. Managing Corporate Financial Structure
- 6. Swap-Linked Financing
- 7. Bank and Money Market Financing
- 8. Long Term Financing in Intl Capital Markets
- 9. Hybrids and Structured Finance
- 10. Integrated Multimarket Financing

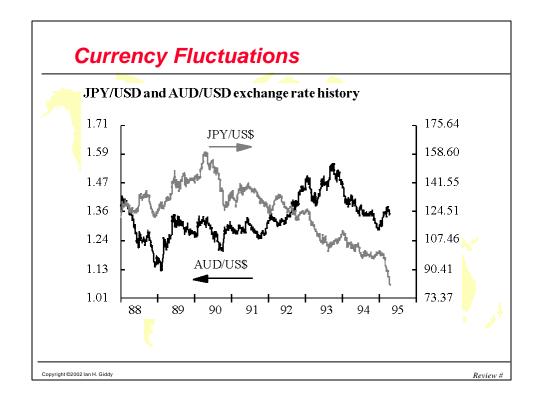


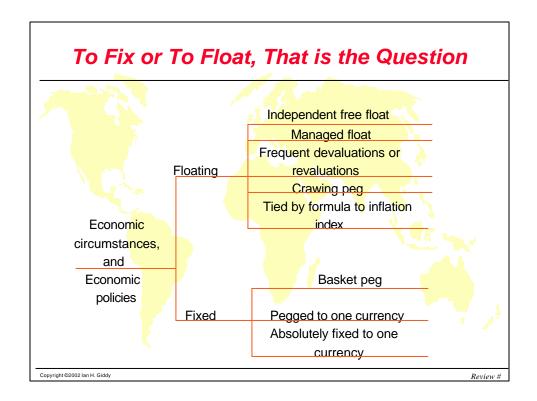
Copyright @2002 Ian H. Giddy

What Is So Special about Corporate Finance in the Int'l Environment?

- λ Financial Markets Are Partially Linked / Partially Separated
- λ Exchange Rates Fluctuate
 - Risks Eg currency exposure measurement and management
 - Opportunities such as deviations from purchasing power parity
 - Analytical Tools like exchange rate determination and hedge pricing

Copyright ©2002 Ian H. Giddy Review #





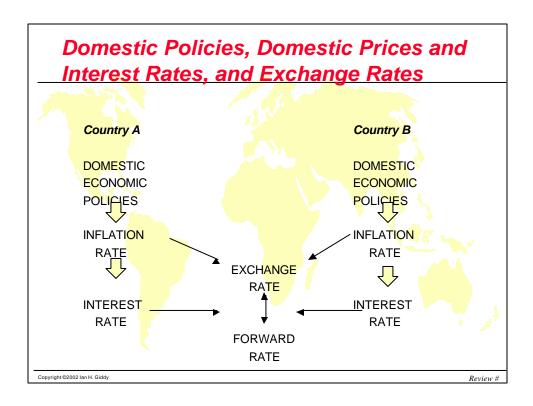
Implication of EMU

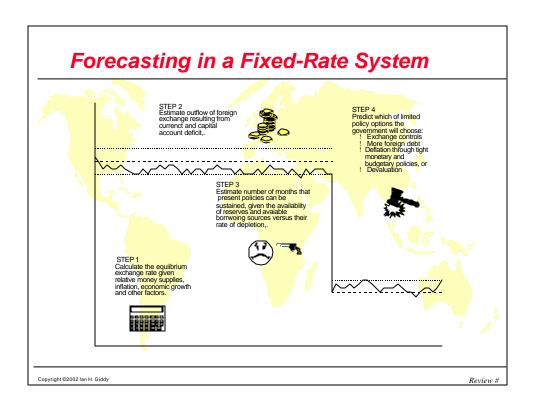
- λ Only Eurofed creates money
- Central banks can no longer print money to finance public deficits
- λ Only a nation's creditworthiness determines ability to run a fiscal deficit

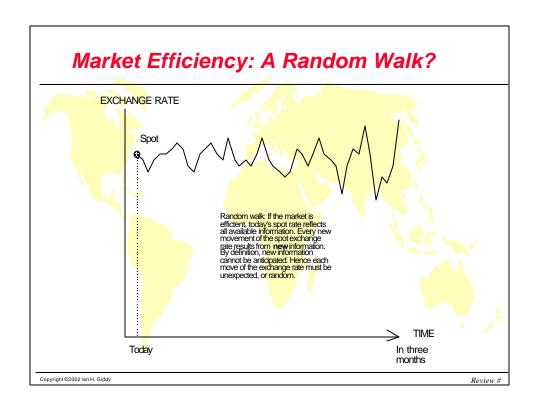


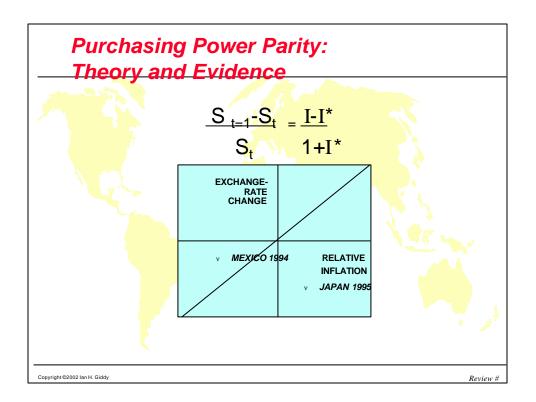
Copyright ©2002 Ian H. Giddy

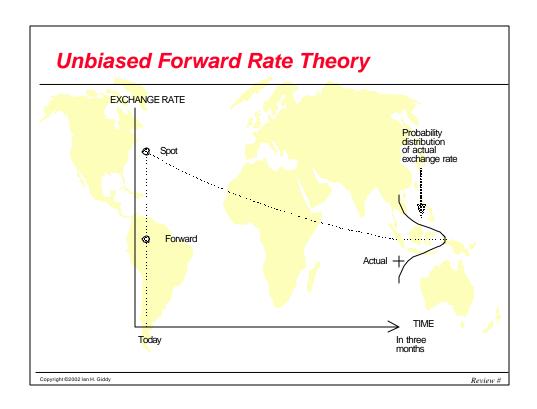
Review #

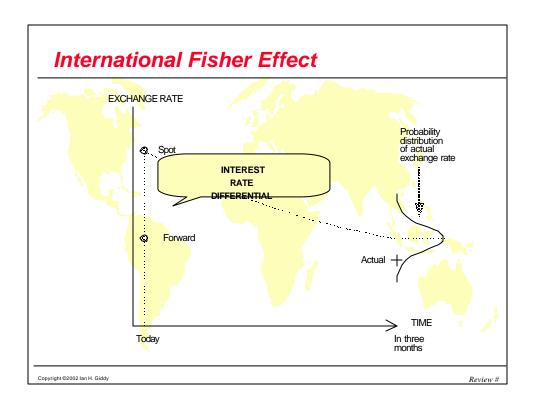












Interest-Rate Parity

 $\frac{$1 (1 + /_{ES})}{(1 + /_{EBP})} = (\frac{$1}{S_t})(\frac{1 + /_{EBP}}{(1 + /_{EBP})} = \frac{F_t^n}{t}$

where S_t is the spot exchange rate (dollars per British Pound) and Fⁿ_t is the forward rate.

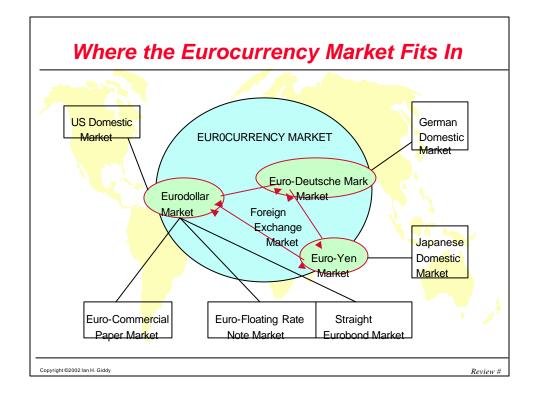
to a close approximation,

$$(/_{E\$} - /_{EBP}) = [(Ft_n - S_t)/S_t] (365/n) 100$$

Interest-rate differential = forward premium or discount

Copyright ©2002 Ian H. Giddy

Review:

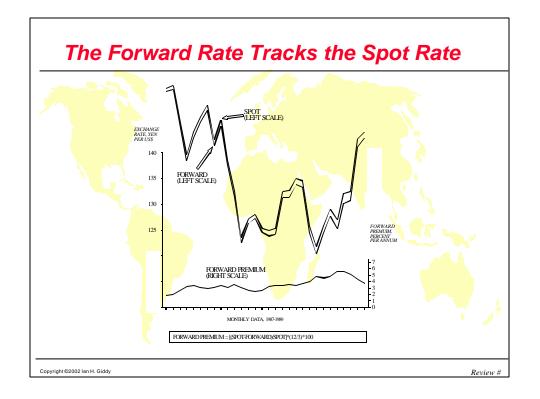


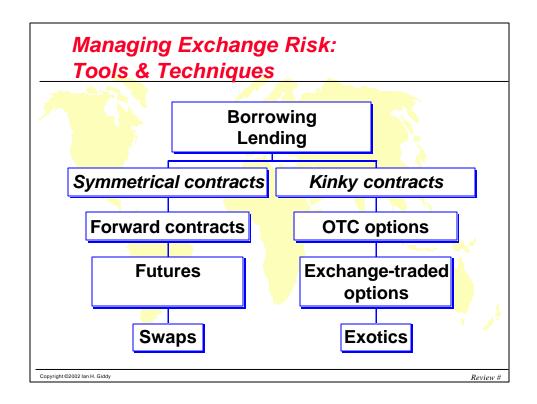
Hedging Transactions Exposure

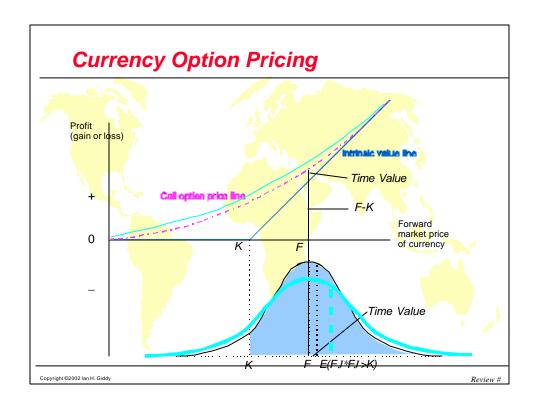
- λ Types of exposure
- λ One-shot exposure
- λ Hedging approaches:
 - ◆Open
 - **♦**Forward
 - ♦Money market
 - **♦**Futures
 - **♦**Options
- λ Ongoing transactions exposure

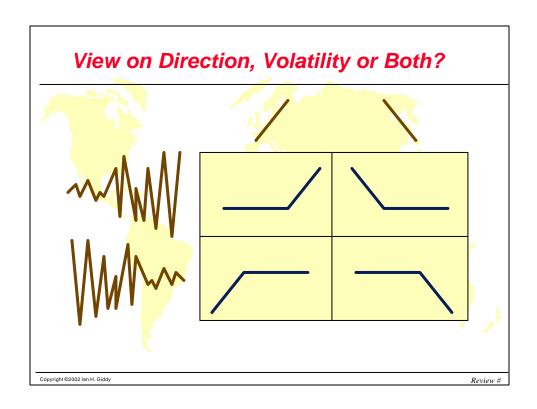
Copyright ©2002 Ian H. Giddy

Review

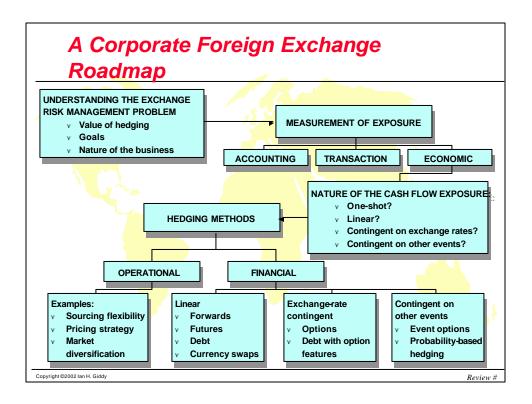


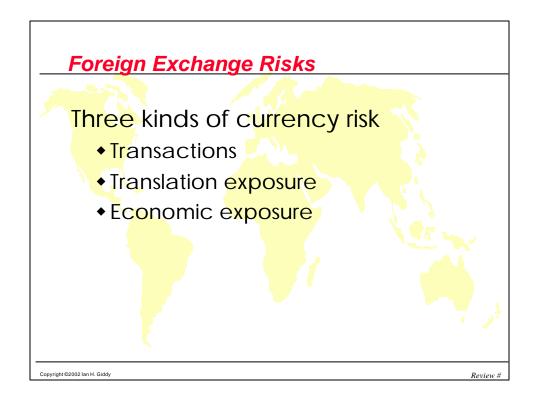






<mark>ldentifia</mark> ble	Debt, swaps,
<mark>exposu</mark> re	forward contracts
Uncertain exposure	Instruments with
	flexibility, such as
	forwards and futures
Expos <mark>ure t</mark> hat	Deep-out-of-the-
threate <mark>ns fina</mark> ncial	money options
distress	
View on direction	At-the-money
and volatility	options





Transactions Exposure: Hedging

- λ Reeves International (CT) has a subsidiary in Italy. It makes printing blankets for sale in Europe.
- λ Reeves Italy has to pay a dividend of approximately ITL 24 m. in December. How should Reeves hedge this?
 - **♦**Forwards?
 - ◆Futures?
 - ♦Money market hedge?
 - ◆Do nothing?

Copyright ©2002 Ian H. Giddy

Review #

Measures of Translation Exposure

		Current/	Monetary/	Temporal (US
7	All Current	noncurrent	nonmonetary	GAAP)
Assets				
Cash	С	C	C	C
A/R	С	С	C	\C
Inv.	С	С	Н	Ĥ
Fixed	С	Н	Н	H
Liabilities				
Current	С	C	С	C
Long term	С	Н	С	С
Equity	Residual	Residual	Residual	Residual

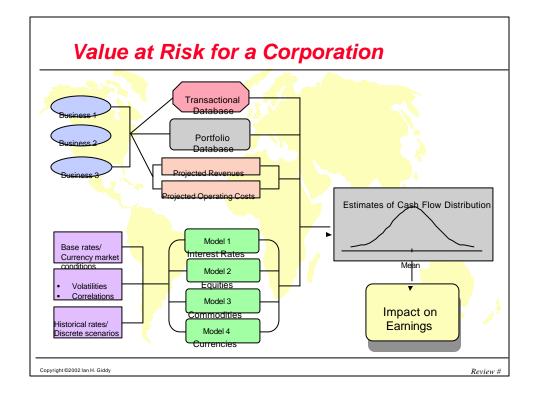
Copyright ©2002 Ian H. Giddy

Review

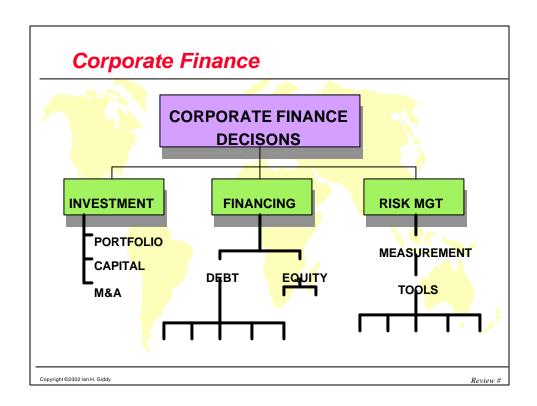
Economic Exposure

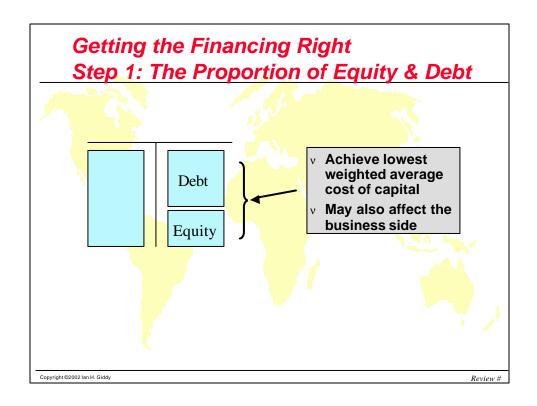
- "Change in the economic value of the firm resulting from unanticipated exchange rate changes"
- λ Contractual vs noncontractual cash flows
- λ Cash flow projections based on elasticities, etc.
- λ Anticipated vs. unanticipated changes
- λ Exposure and the parity assumptions: "In the long run, we are not exposed"
- λ The "cost of hedging"
- λ Currency of denomination vs. currency of determination

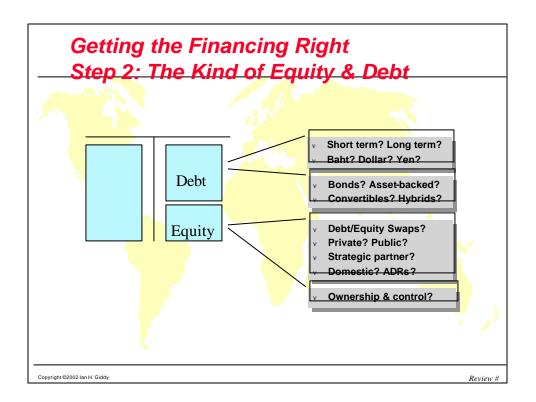
Copyright ©2002 Ian H. Giddy Review #

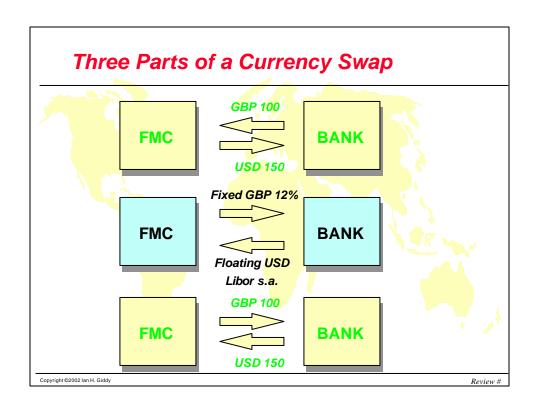


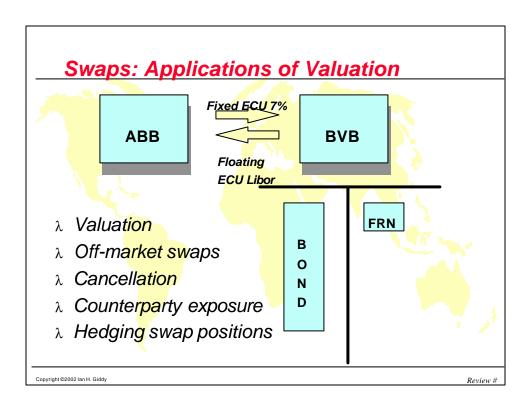
BASED ON CORR	AT-RISK COMPUTATIONS BETWEEN SPARMCO WORLDWIDE \$0 \$6,165 (\$200,758) (\$5,835) (\$96,626)		RATES, JP MORGAN VOLATILITY (%) 2.84 3.69 1.79	\$ AT RISH \$0 \$376
CURRENCY F. AUD BBEF CAD DKK FFR DEM	\$0 \$6,165 (\$200,758) (\$5,835)	WEIGHT (%) 0.00% 1.04% -34.03%	VOLATILITY (%) 2.84 3.69	\$ AT RISH \$0 \$376
AUD BEF CAD DKK FFR DEM	\$0 \$6,165 (\$200,758) (\$5,835)	0.00% 1.04% -34.03%	2.84 3.69	\$0 \$376
BEF CAD DKK FFR DEM	\$6,165 (\$200,758) (\$5,835)	1.04% -34.03%	3.69	\$376
CAD DKK FFR DEM	(\$200,758) (\$5,835 <mark>)</mark>	-34.03%		
DKK FFR DEM	(\$5,835)		1.79	
FFR DEM	(' ' '	0.000/		\$5,939
DEM	(\$96,626)	-0.99%	3.62	\$349
	(\$00,020)	-16.38%	3.75	\$5,985
ITL 🛂	\$22,36 <mark>5</mark>	3.79%	3.82	\$1,411
	(\$69,650)	-11.81%	3.67	\$4,219
JPY	(\$15,688)	-2.66%	3.71	\$961
NLG	\$10,605	1.80%	3.79	\$662
ESB	\$47,660	8.08%	3.35	\$2,632
SEK	\$6,826	1.16%	3.97	\$447
CHF	\$6,500	1.10%	4.28	\$459
GBP	(\$101,277)	-17.17 %	3.18	\$5,309
TOTAL	\$589,954	100.00%		\$28,749
			WITH DIVER	
			C) [

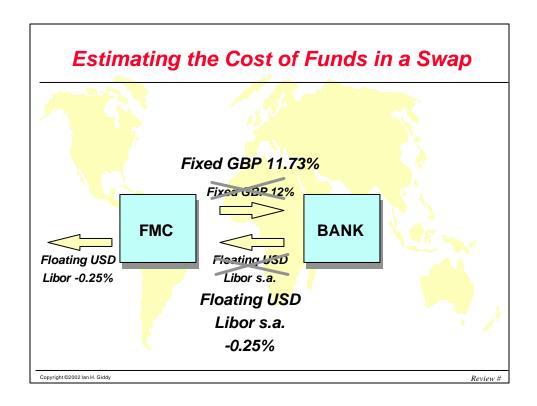














Copyright @2002 Ian H. Giddy

The International Capital Market

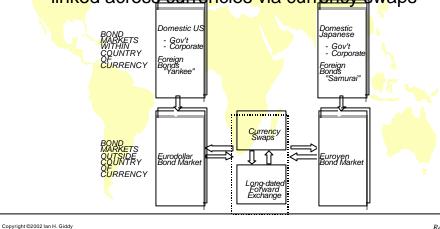
- Eurobonds, foreign bonds and global bonds
- 2. The international equity market
- 3. Structured finance

Copyright ©2002 Ian H. Giddy

Review +

International Bond Markets are Linked

λ Issuers and investors compare terms in the domestic and Eurobond markets, which are linked across currencies via currency swaps

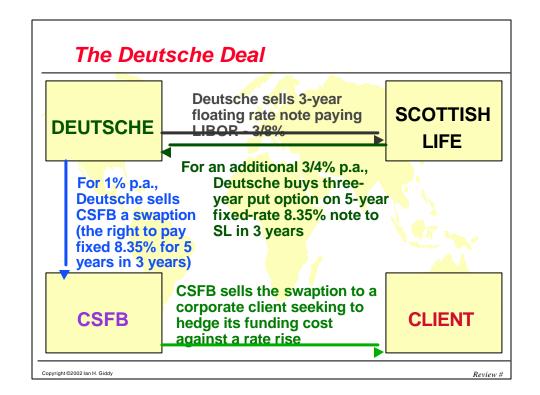


"Hybrid" Features of A Bond Issue

- λ Conversion Feature compound option
- λ Warrants two instruments
- λ Index-linked bonds
- λ Call Feature
 - ◆Bond value = straight bond value call value

 These are all example of hybrid bonds and should be priced by decomposition

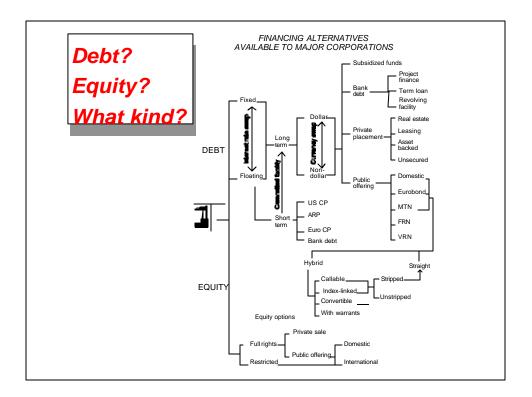
Copyright ©2002 lan H. Giddy Review :



Financing Ciba

- 1) What is Ciba's debt-to-equity ratio, and what might one advise the company about what it should be?
- (2) How much of Ciba's debt is fixed-rate borrowing, and should this proportion change?
- (3) How much of the company's debt should be long term?
- (4) What is the composition, by currency, of Ciba's debt? What should it be?

Copyright ©2002 Ian H. Giddy Review #



lan H. Giddy

Stern School of Business, NYU
44 West 4th Street
New York, NY 10024

Tel 212-998-0426 ian.giddy@nyu.edu http://giddy.org

Copyright ©2002 Ian H. Giddy

Review