3543 Fiscal and Financial System in Japan A / KC3002 International Finance

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<u>Lecture 5(Nov 6)</u> <u>Exchange Rates:</u> <u>Equilibrium in the FX Markets</u>

Hideyuki IWAMURA Faculty of International Studies

Тс meiji gakuin university

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Asset Approach

"Export and import transactions are small relative to the amount of domestic and foreign assets at any given time. For example, foreign exchange transactions in the United States each year are well over 25 times greater than the amount of U.S. exports and imports." (Mishkin, p.511)

For a short period of time, the demand and supply of the dollar mainly reflect the demand for the dollar/yen **assets**, rather than the demand for the US/Japan **goods**.

→ An Asset Approach to the Short-term Exchange Rate Determination

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Depreciation of the Future Dollar			
How changes the expected	n the future exchang ven return on dollar a	e rate affect ssets when $E_0 = 80$)
$R^{e} \cong 0.03 + \frac{E_{1}^{e} - 80}{80}$			
Today's yen/dollar exchange i	Expected yen/dollar ate exchange rate	Expected yen return on dollar assets	
80	81	0.0425	
80	80	0.03	
80	79	0.0175	
80	78	0.005	
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Changes in yen interest rates $E_{1}^{e} = 80 \qquad i = 0.02 \rightarrow 0.03$ $E_{0} = 80.8 \qquad i^{*} = 0.03$ 1. The higher expected return on the yen assets. $R^{e} \cong 0.03 + \frac{80 - 80.8}{80.8} \cong 0.02 \qquad \langle i = 0.03$ 2. Investors try to replace all the dollar assets with yen, and the dollar begins to depreciate against the yen. 3. At ¥80 per dollar, both assets have the same expected return measured in one currency, and the exchange rate stays. $E_{0} = 80.8 \rightarrow 80$



Changes in dollar interest rates $E_{1}^{e} = 80$ i = 0.02 $i^* = 0.03 \rightarrow 0.04$ $E_0 = 80.8$ 1. The higher expected return on the dollar assets. $R^{e}\cong\ 0.04+\frac{80-80.8}{80.8}\cong 0.03$ i = 0.02> 2. Investors try to replace all the yen assets with dollar, and the dollar begins to appreciate against the yen. 3. At ¥81.6 per dollar, both assets have the same expected return measured in one currency, and the exchange rate stays. $E_0 = 80.8 \rightarrow 81.6$ 28







