

## The use of the CPIS at the ECB

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Filippo di Mauro European Central Bank

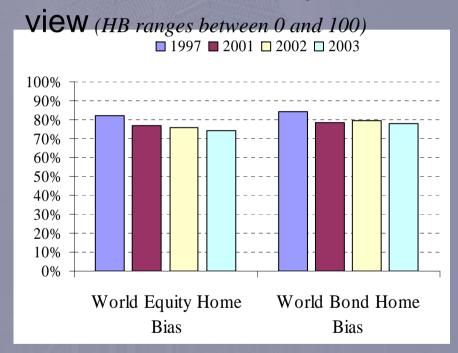
#### The issues



# Global financial integration **External Developments Division** EUROPEAN CENTRAL BANK

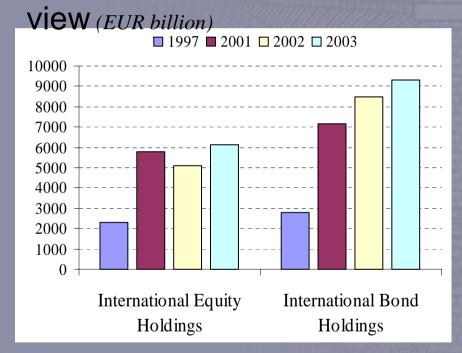
### **Global Home Bias**

#### Home Bias: Greenspan's



Sources: BIS, DataStream, IMF, ECB staff.
Note: The world average is computed on the basis
of 30 countries and the weights are GDP weights

### Savings Glut: Bernanke's



Sources: IMF, ECB staff.

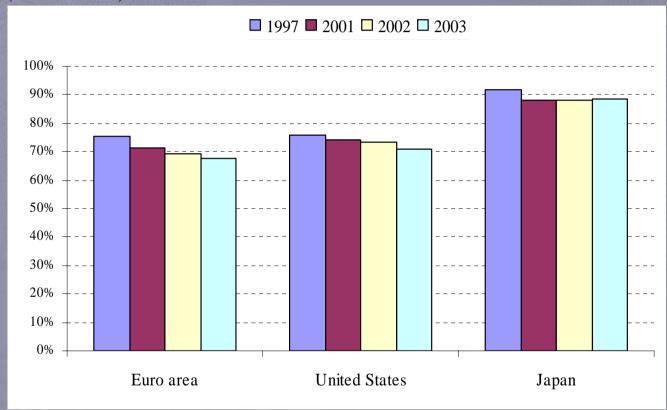
### **Optimal portfolio allocation and Home Bias**

- Optimal share of foreign asset =
   1- domestic market capitalization / world market capitalization
- HB = (1 actual share of foreign assets / optimal share)\*100
  - $\rightarrow$  100 = full home bias, 0 = No home bias

### Home bias in the equity markets decrease, but slowly..

### Home Bias in the Equity Market

(annual data)

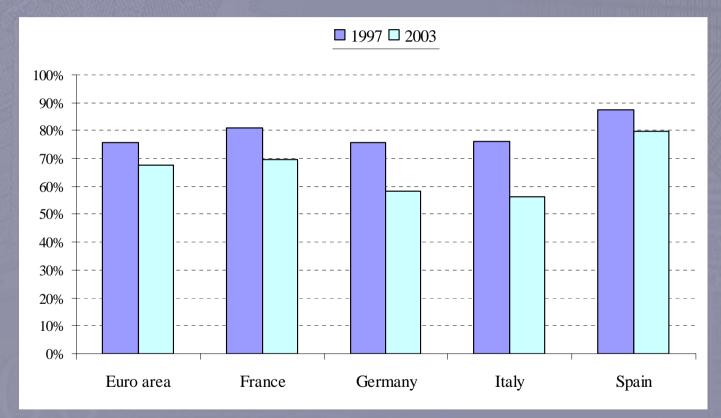


Sources: IMF, Thomson DataStream, ECB staff.

### ...more if considering individual euro area countries

#### Home Bias in the Equity Market

(annual data)

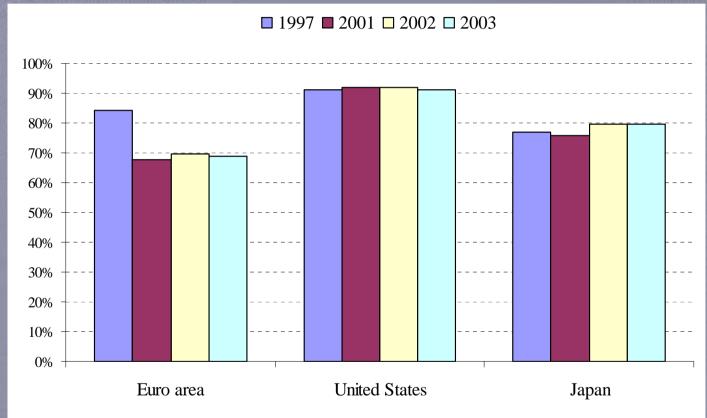


Sources: IMF, Thomson DataStream, ECB staff.

### Home bias decrease is even weaker for bonds, overall....

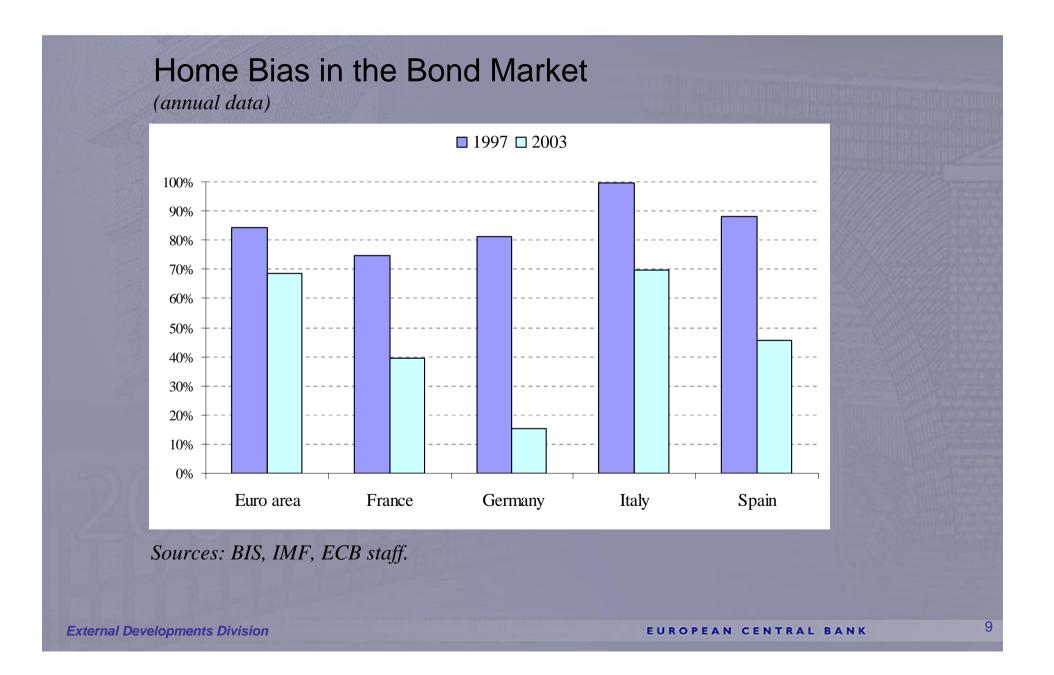
#### Home Bias in the Bond Market

(annual data)



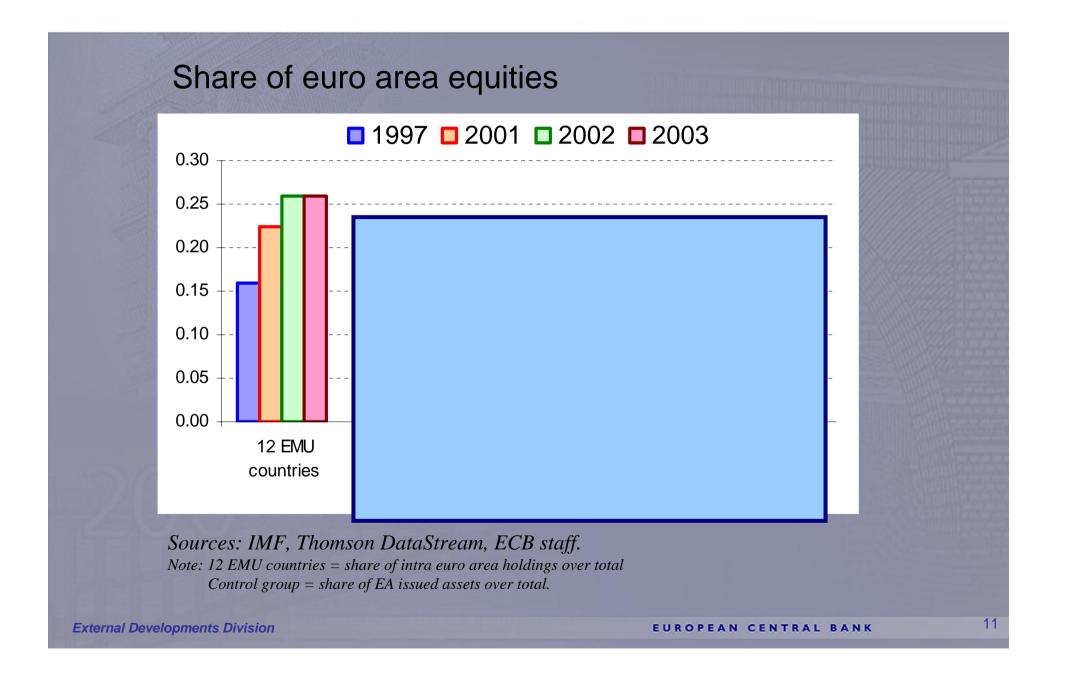
Sources: BIS, IMF, ECB staff.

### ....but stronger among euro area countries



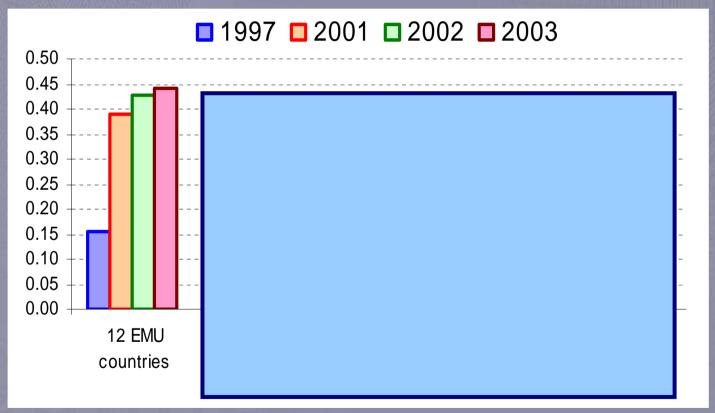


#### Role of the euro area assets in the world



### Role of euro area bond assets in the world

### Share of euro area bonds



Sources: BIS, IMF, ECB staff.

Note: 12 EMU countries = share of intra euro area holdings over total

Control group = share of EA issued assets over total.

### The impact of EMU on change in portfolio weights

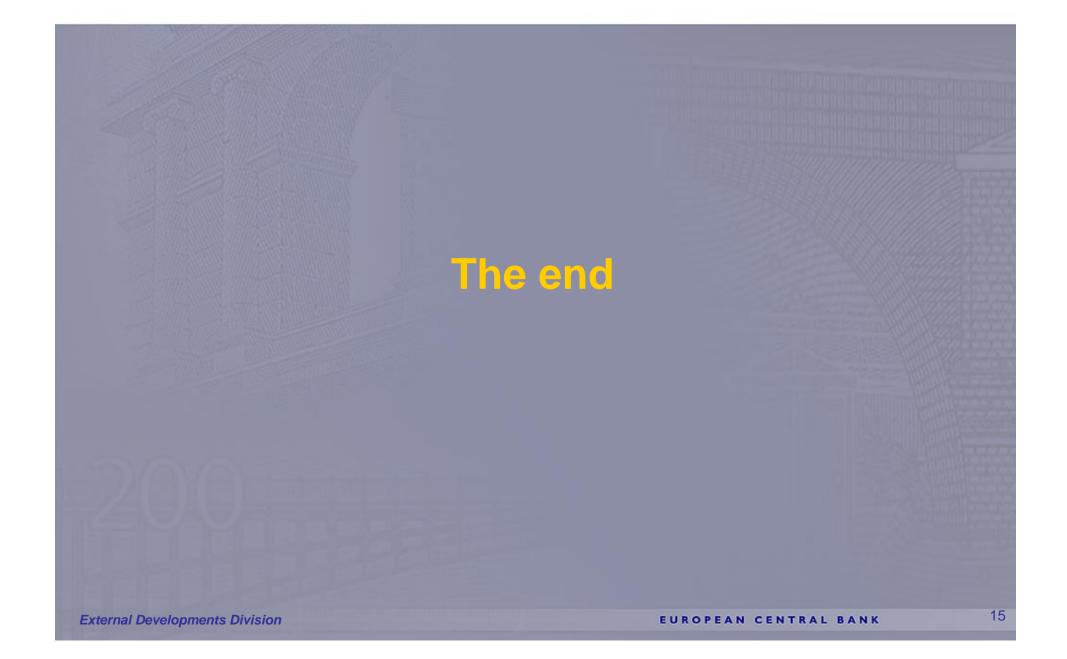
	<b>Equity</b>	Bond
D1 (all countries inc. EA investing in EA)	0.006**	0.018***
D2 (Rose effect = EA in EA)	0.014***	0.025***
Under-weight in 97	0.234***	0.394***
Divers. Benefits	17.35***	188.84***
Asset returns	0.003**	0.004
Asset returns (-1)	0.005	0.037***
Other	• • • • •	
Adj. R^2	0.444	0.241

Source: De Santis and Gerard (2006), "Financial Integration, International Portfolio Choice and the EMU", ECB Working Paper Series, forthcoming.

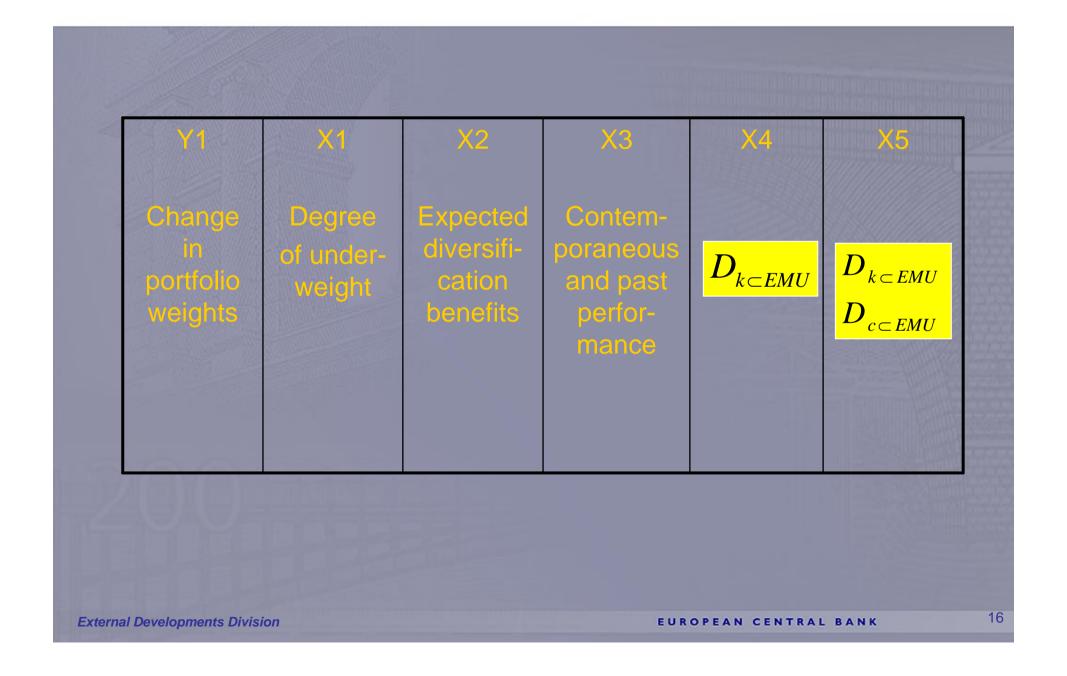
Note: \*\*\*, \*\*, \* statistically significant at 1%, 5% and 10%.

### **Conclusions**

- Equity home bias is declining, but only very slowly
- Bond home bias decline only for the euro area, not for the US and Japan
- The adoption of the euro has eased market access, enhancing regional financial integration in both equity and bond markets in the euro area
- •This is confirmed by empirical analysis on changes in portfolio holdings ("Rose effect").



### (reserve) International portfolio choice model



### (reserve) The Rose's effect in the asset market (D2)

	Germany	France	US
Germany	1	1	1
France	1	1	1
US	0	0	0

	Germany	France	US
Germany	1	1	0
France	1	1	0
US	0	0	0

$$D1 = D_{k \subset EMU}$$

$$D2 = \frac{D_{k \subset EMU}}{D_{c \subset EMU}}$$