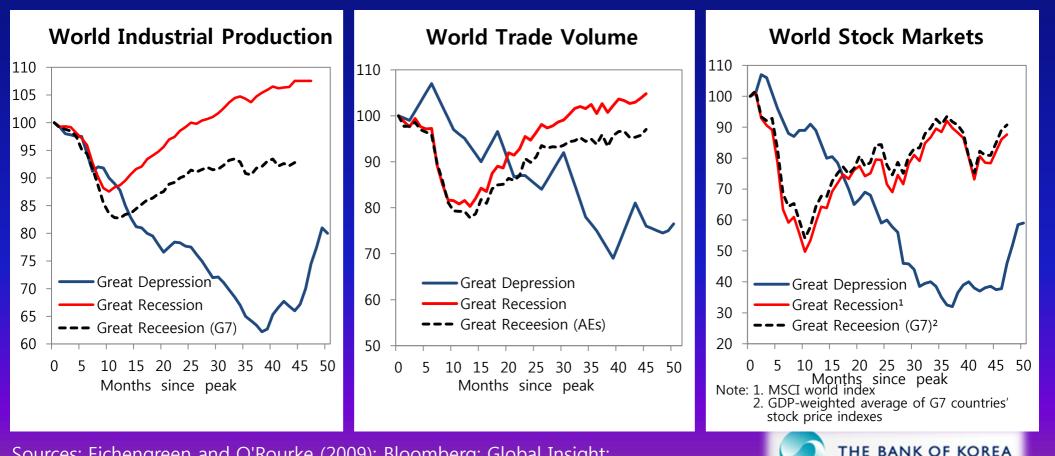
## Out of the Great Recession An EME's Perspective

Choongsoo Kim Governor Bank of Korea

IMFS, Goethe University April 16, 2012

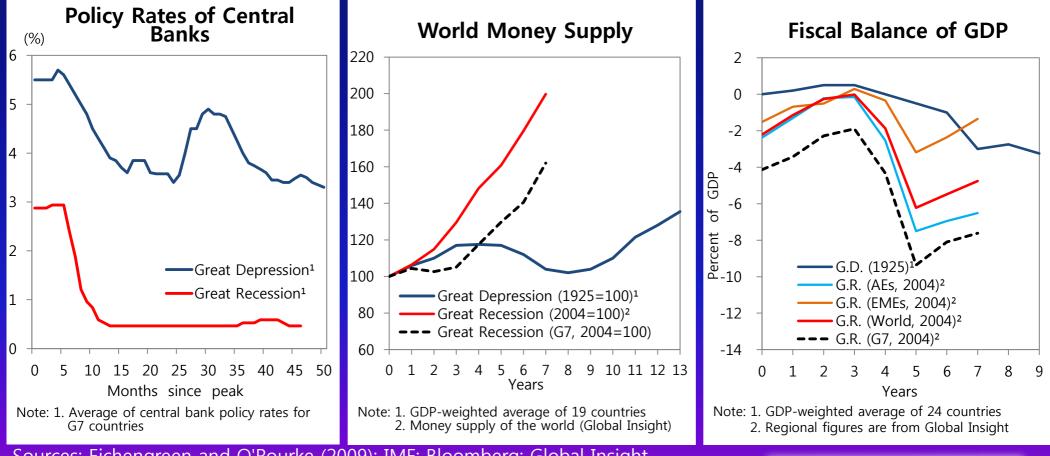


Global economy contracted at a pace comparable to the Great Depression but reversed its course within a year



Sources: Eichengreen and O'Rourke (2009); Bloomberg; Global Insight; CPB World Trade Monitor 1

#### Active and concerted policy efforts were pivotal

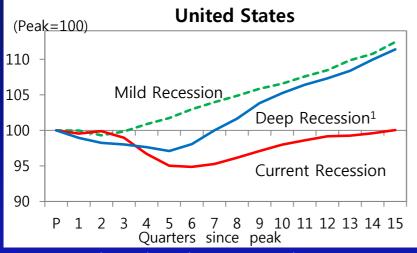


Sources: Eichengreen and O'Rourke (2009); IMF; Bloomberg; Global Insight

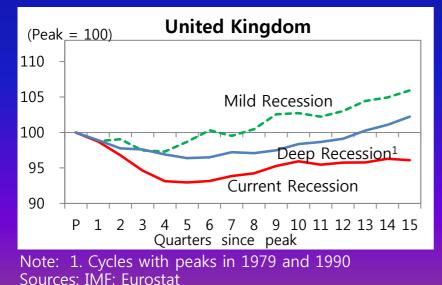


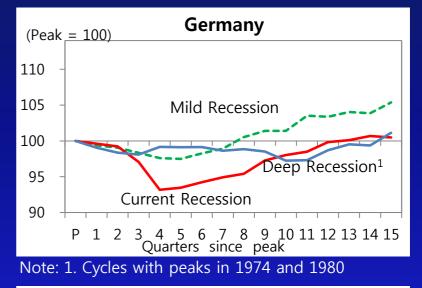
#### Current recovery is slower than in the past

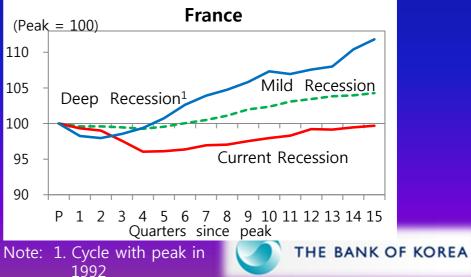
3



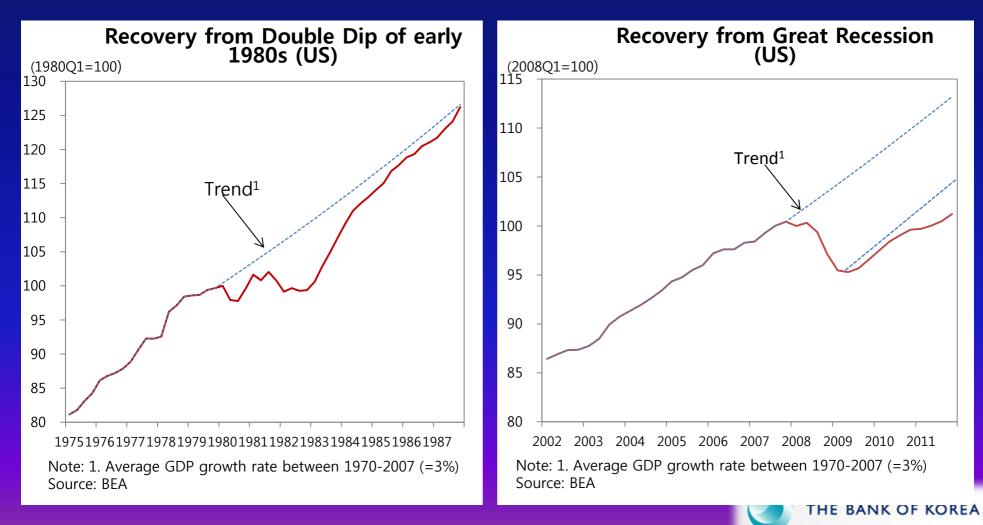
Note: 1. Cycles with peaks in 1973 and 1981



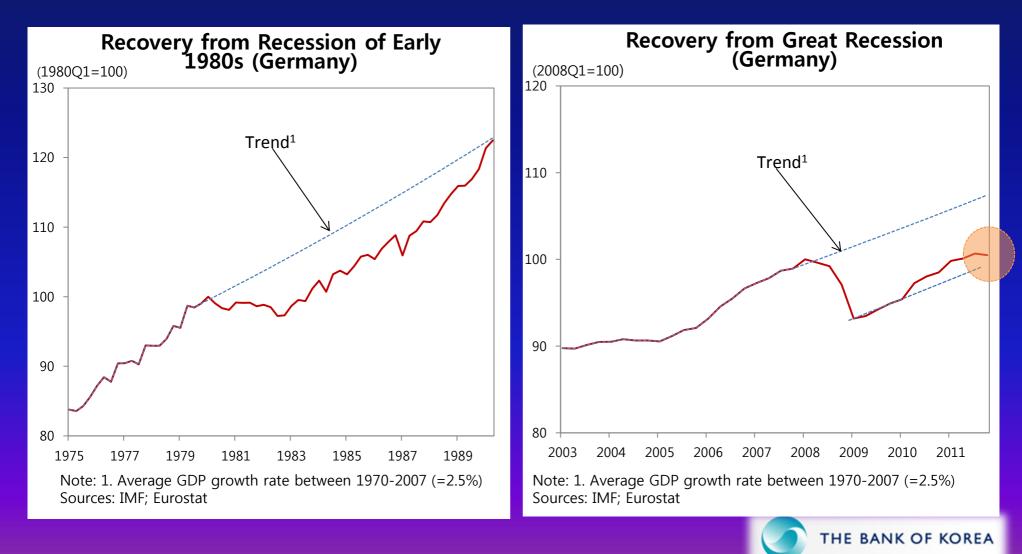




#### US economy is falling behind long-term trend



#### Germany is doing only slightly better

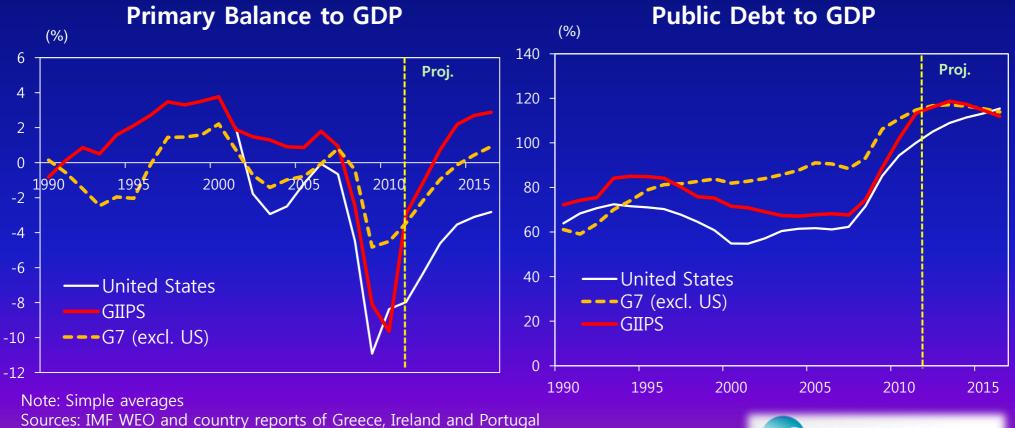






#### Legacy of the Global Crisis

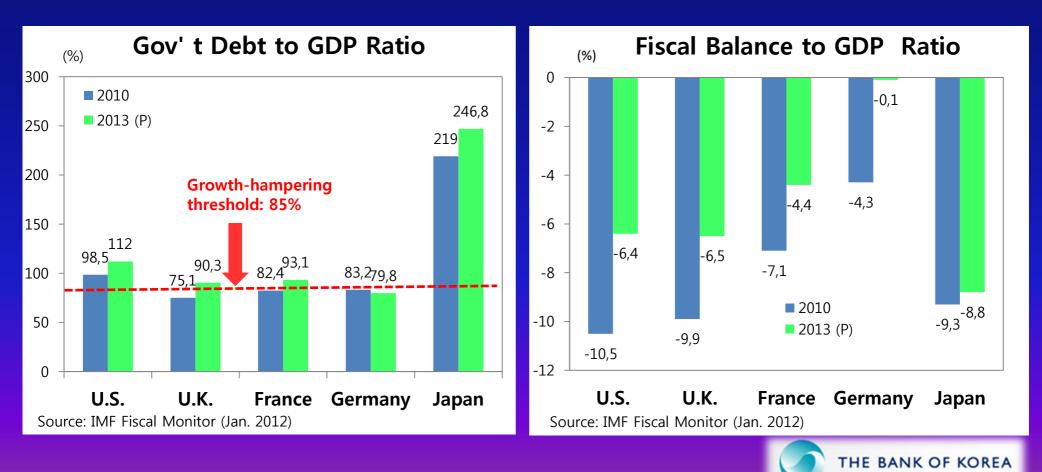
# AMEs' public debt projected to rise further despite shrinking deficits



THE BANK OF KOREA

#### **Debt Overhang**

# AMEs' public debt ratio at or above critical threshold for debt overhang

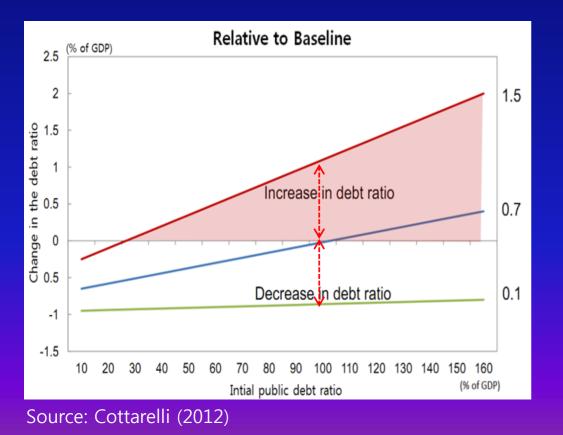


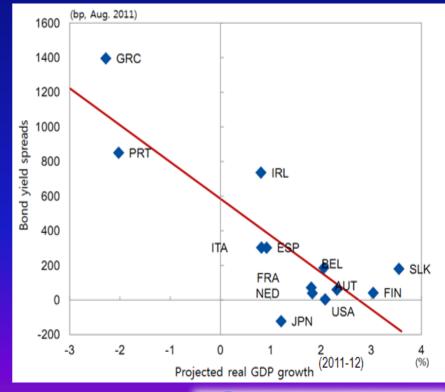
#### **Fiscal Consolidation**

## Fiscal tightening may not bring about the intended results

#### Impact on Debt Ratio of 1% of GDP Discretionary Fiscal Tightening (1<sup>st</sup> yr)

Sovereign Bond Yield Spreads and Projected GDP Growth

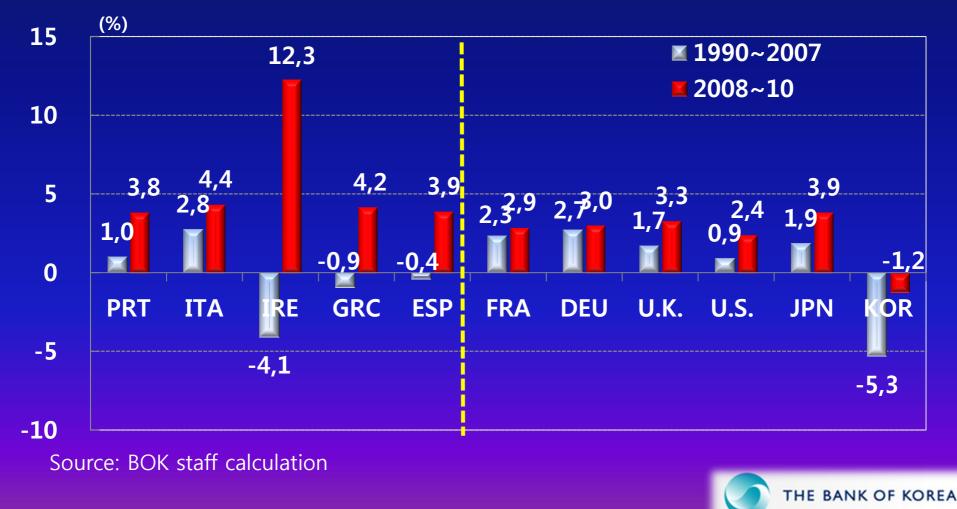




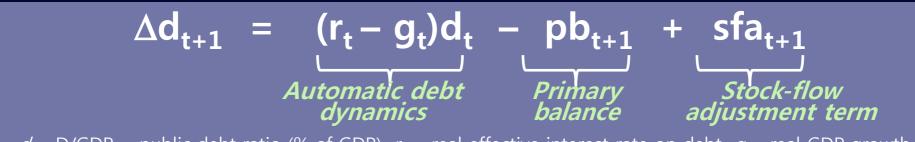


#### **Interest Rate-Growth Rate Differential**

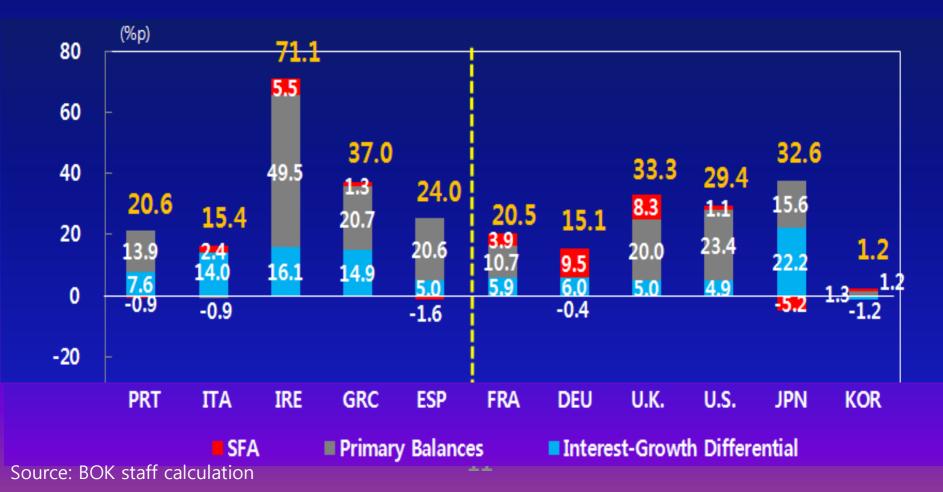
Generally higher during post-crisis period in most AMEs and among GIIPS in particular



#### **Historical Decomposition: 2008-2010**

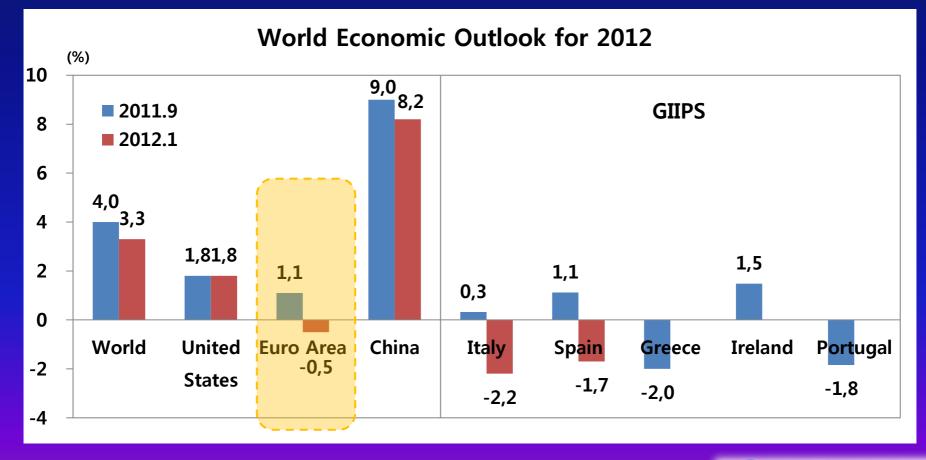


d = D/GDP = public debt ratio (% of GDP), r = real effective interest rate on debt, g = real GDP growth, *pb*: % of GDP (minus if deficit), *sfa*: % of GDP



#### **Alarming Growth Prospects for AMEs**

# Disappointing growth in US and mild recession in the Eurozone



Sources: IMF WEO (Sep. 2011 and Jan. 2012)

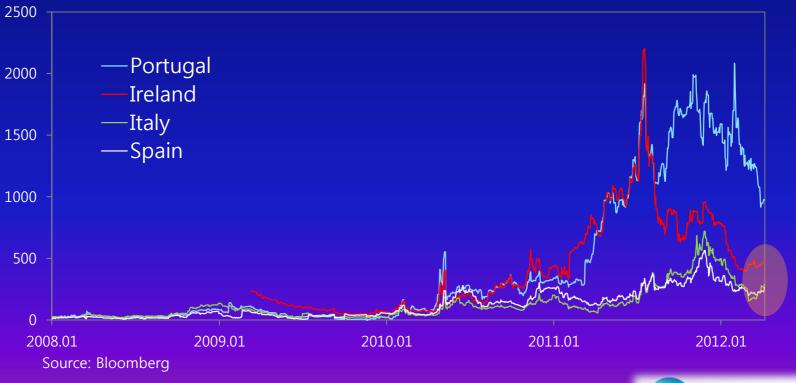


#### **Fiscal Risk for GIIPS**

## Government bond spreads have fallen but still remain elevated

#### **Government Bond Spreads of Euro-periphery**

(Two-year yield spread over German bunds, basis points)



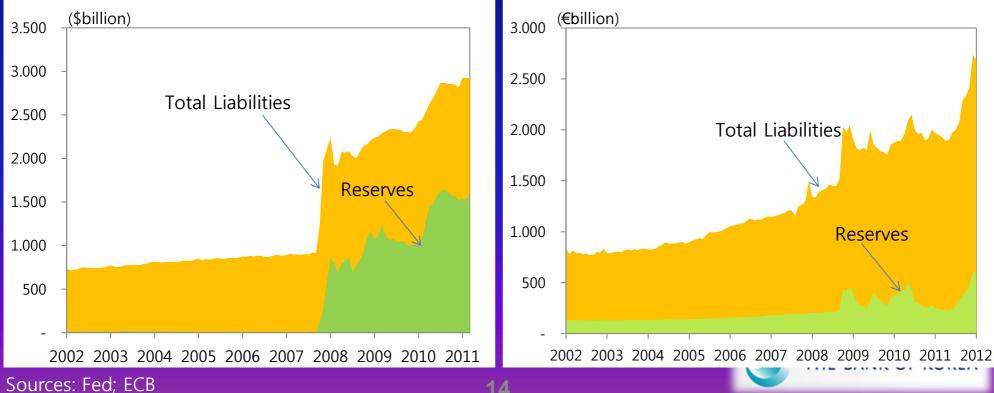


#### Limited Policy Space on Monetary Front

Unconventional monetary easing in AMEs Fed: \$2.4 trillion in total through QE 1 and QE2 ECB: LTRO €1.1 trillion through 1<sup>st</sup> and 2<sup>nd</sup> LTRO 

#### **US Fed Balance Sheet**

#### **ECB Balance Sheet**



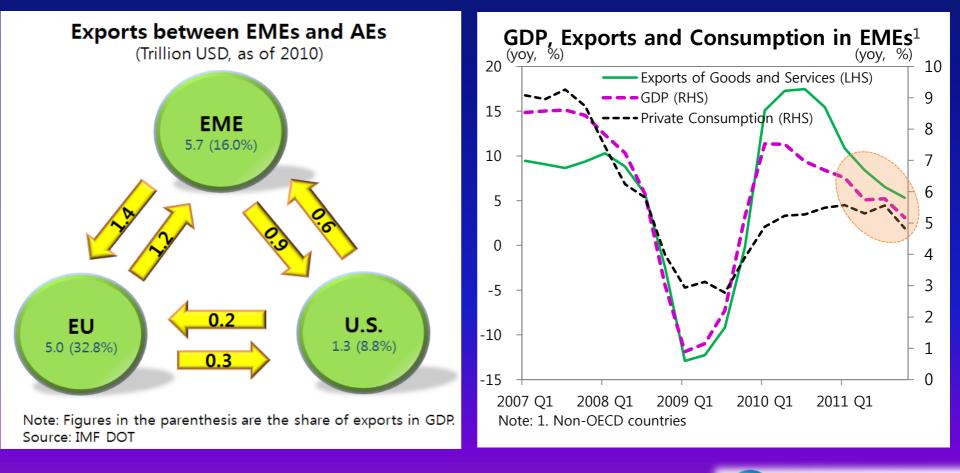
Sources: Fed: ECB

#### **Sources of Negative Financial Spillovers**

- AMEs' deleveraging
- AMEs' extraordinary monetary easing
- Financialization of commodities



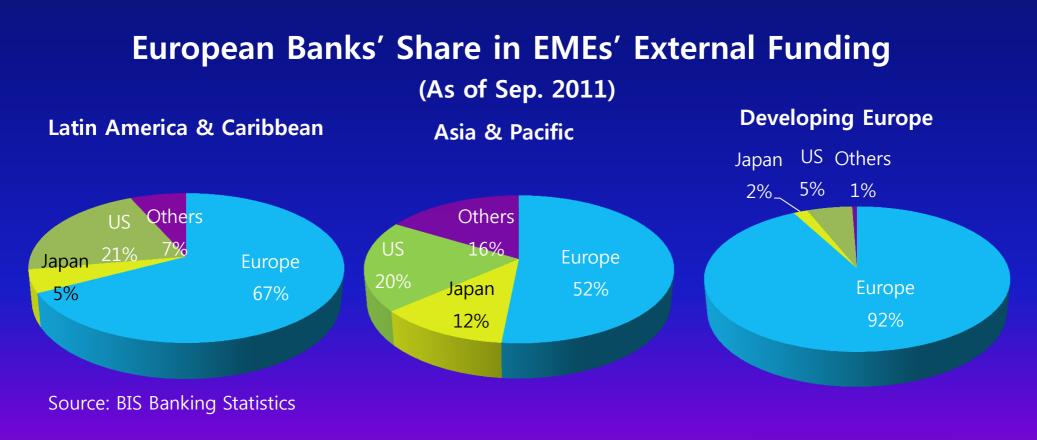
#### EU and US are major trading partners of EMEs





### **Spillover: Financial Linkages**

#### The brunt of EMEs' external funding is intermediated through European banks



17



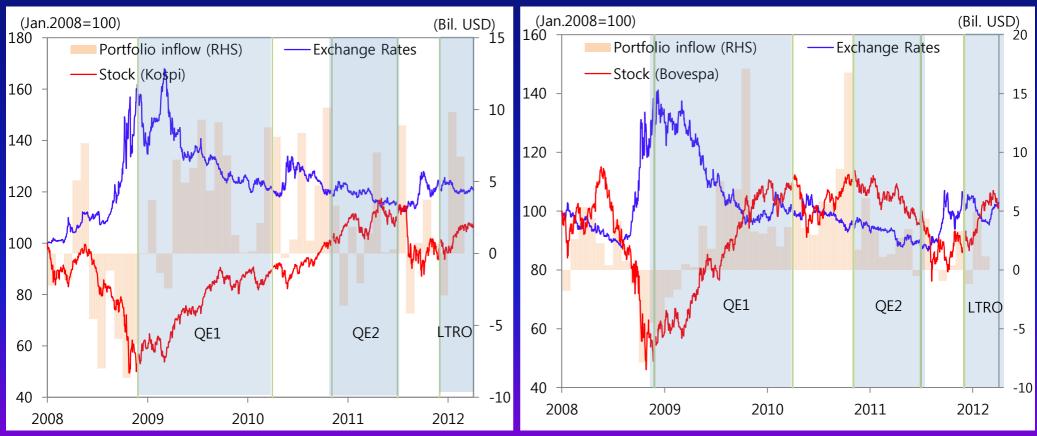
### **Spillover: Policy Linkages**

## AMEs' monetary easing causes instabilities in EMEs

**QEs and Portfolio Investment into Korea and Brazil** 

Korea

Brazil

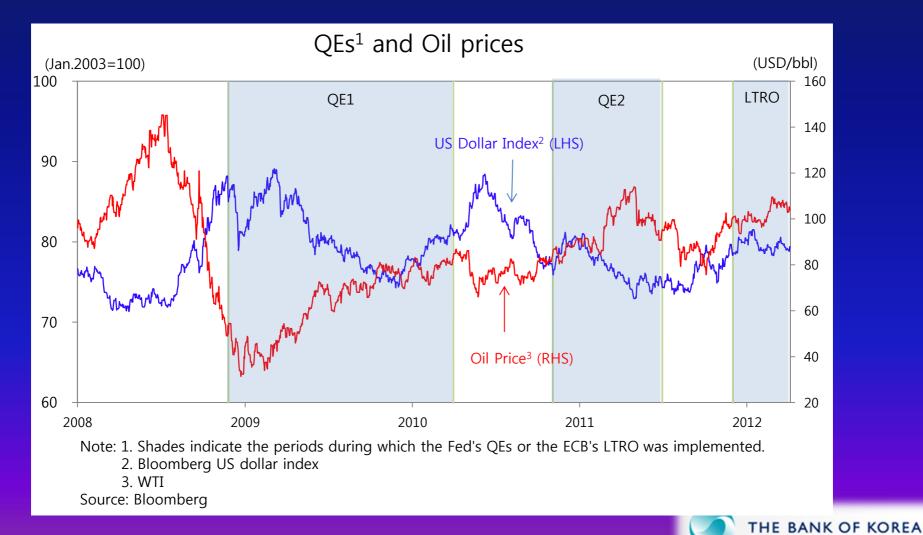


Note: Shades indicate the periods during which the Fed's QEs or the ECB's LTRO was implement Sources: Bloomberg; the Bank of Korea; Banco Central do Brasil



### **Spillover: Policy Linkages**

#### Financialization of commodities



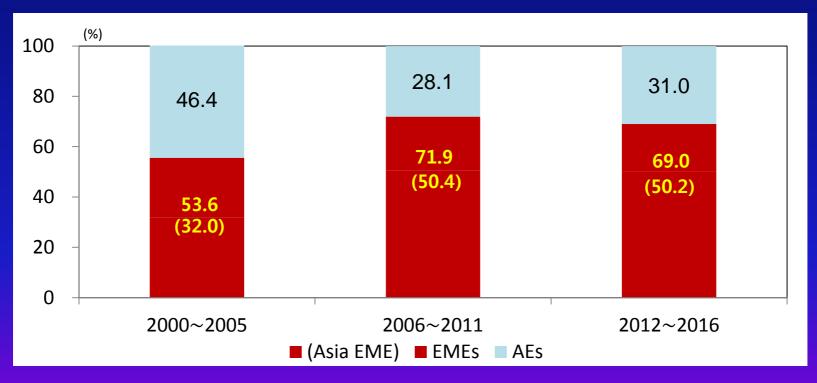




#### **Greater Role of EMEs Expected**

#### EMEs' contribution to world GDP growth amounts to 70%

#### **EMEs' Contribution to World Economic Growth**

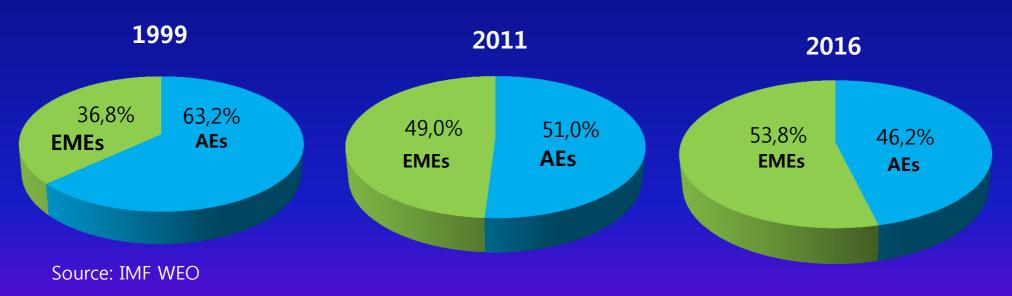


Note: Figures in the parenthesis are for Asian EMEs Source: IMF WEO



#### **Greater Role of EMEs Expected**

EMEs share in the world GDP has risen to 50% by 2011 and expected to reach 54% by 2016



Share of EMEs in the World GDP



#### **Positive Growth Spillovers**

Growth spillover effect of 1% per capita GDP increase



Note: Figures are the result of growth regressions using 5 yr. nonoverlapping averages of the variables Source: BOK staff's estimation



### **Determinants of L-R Growth: AMEs**

#### **Dependent variable=per capita GDP growth rate**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Gov. debt /GDP ratio		-0.08 [1.76]*					
Financial reform <sup>1</sup>			0.62 [2.01]**				
Labor market rigidity <sup>2</sup>				0.04 [0.90]			
Trade openness <sup>3</sup>					0.11 [3.10]***		
Social safety net <sup>4</sup>						-0.03 [1.37]	
Financial deepening <sup>5</sup>							0.02 [1.28]
Log per capita GDP of EMEs	0.30 [6.58]***	0.29 [3.19]***	0.26 [3.92]***	0.27 [2.66]**	0.27 [5.58]***	0.27 [6.33]***	0.27 [5.86]***
No. of obs.	80	76	71	68	80	68	80
No. of country	20	20	18	17	20	17	20

Note: 1. Financial reform index (0~21) developed by Abiad et al. (2010)

2. Employment protection legislation index (1~6) developed by OECD and Botero et al. (2004)

- 3. Sum of export and import to GDP ratio
- 4. Unemployment benefit to GDP ratio
- 5. Domestic credit to GDP ratio

\* Other control variables (not reported) include log per capita GDP at t-1, gross fixed capital formation to GDP ratio, working age population to total population ratio, tertiary education completion ratio (Barro and Lee 2010), and log CPI. All the variables are 5-year non-overlapping averages for the period of 1980~2010. The system GMM is used for the estimation.

Source: BOK staff's analysis



#### **Determinants of L-R Growth: EMEs**

#### **Dependent variable=per capita GDP growth rate**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Gov. debt /GDP ratio		-0. <u>1</u> 9 [2.27]**					
Financial reform <sup>1</sup>			0.94 [1.96]*				
Labor market rigidity <sup>2</sup>				-0.11 [2.31]**			
Trade openness <sup>3</sup>					0.12 [2.45]**		
Social safety net <sup>4</sup>						0.43 [0.47]	
Financial deepening <sup>5</sup>							0.02 [2.22]**
Log per capita GDP of AEs	0.37 [2.89]***	0.39 [2.75]**	0.39 [2.98]***	0.39 [2.39]**	0.39 [2.53]**	0.35 [2.77]**	0.27 [2.31]**
No. of obs.	96	84	87	79	96	40	96
No. of country	26	26	24	22	26	13	26

Note: 1. Financial reform index  $(0 \sim 21)$  developed by Abiad et al. (2010)

2. Employment protection legislation index (1~6) developed by OECD and Botero et al. (2004)

- 3. Sum of export and import to GDP ratio
- 4. Unemployment benefit to GDP ratio
- 5. Domestic credit to GDP ratio

\* Other control variables (not reported) include log per capita GDP at t-1, gross fixed capital formation to GDP ratio, working age population to total population ratio, tertiary education completion ratio (Barro and Lee 2010), and log CPI. All the variables are 5-year non-overlapping averages for the period of 1980~2010. The system GMM is used for the estimation.

Source: BOK staff's analysis

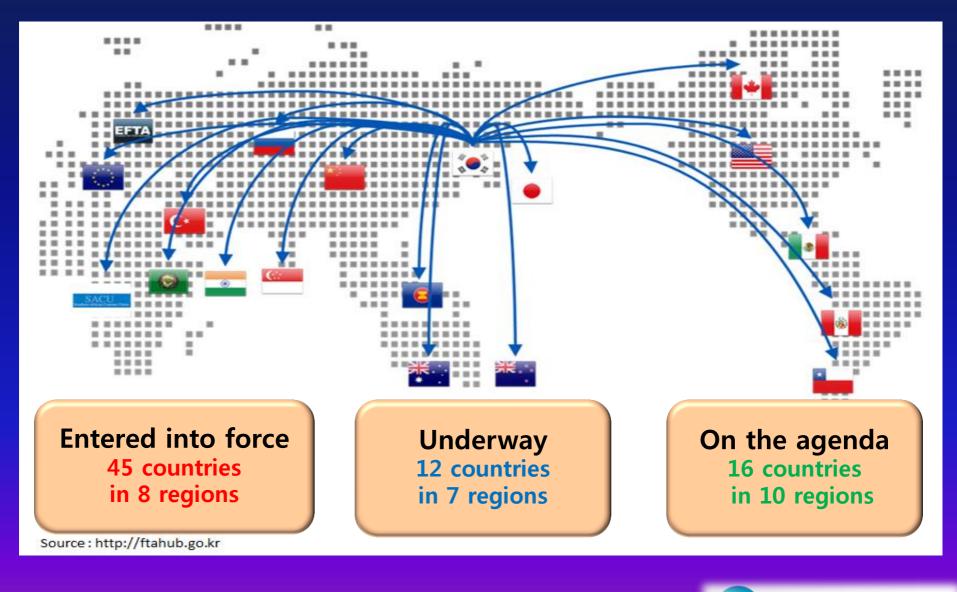
25

#### Growing out of Great Recession: To-do List

- Address fiscal problems through reforms and wise use of fiscal space if available
- Minimize negative financial spillovers by putting in place backstopping framework for financial stability with sufficient public resources
- Trade and financial protectionism should be rejected decisively by all



#### **Free Trade Agreements of Korea**



27



#### **Growing out of Great Recession: To-do List**

- More research about unintended consequences of new financial regulatory framework
- Strengthen global financial safety nets and macro-prudential framework



#### Macro-prudential Framework for FX Risk of Korea

Introducing cap on FX derivative positions (since Oct. 2010), strengthened (July. 2011)

• 50%  $\rightarrow$  40% for domestic banks, 250%  $\rightarrow$  200% for foreign bank branches

Restoring tax on foreigner's bond investment (Jan. 2011)

> Reintroducing withholding taxes-14% and 20%-on interest income and transfer gain, respectively

Macro-prudential Stability Levy (since Aug. 2011)

Levied on non-deposit FX liabilities of banks







#### **Central Bank's Role for Growth**

- Major central banks' policy should return to normal for price and financial stability
- Prevent negative financial spillovers and preplan orderly withdrawal of excess liquidity
- G20 can be a useful forum at hand for discussing monetary coordination
- Multilateral perspective in policy making through a global institution (e.g., IMPC)







### **Concluding Remarks**

World economy at a crossroad

- Need a global solution for sustainable growth
- Take advantage of positive growth spillovers while minimizing negative financial spillovers
- International cooperation is key



### Vielen Dank



