**Fiscal Affairs Department** 

#### Challenges of Budgetary and Financial Crisis in Europe



#### Carlo Cottarelli Director, Fiscal Affairs Department

London School of Economics and Political Science November 18, 2011

#### **Fiscal Monitor, September 2011**

World Economic and Financial Surveys

#### **Fiscal Monitor**

Addressing Fiscal Challenges to Reduce Economic Risks

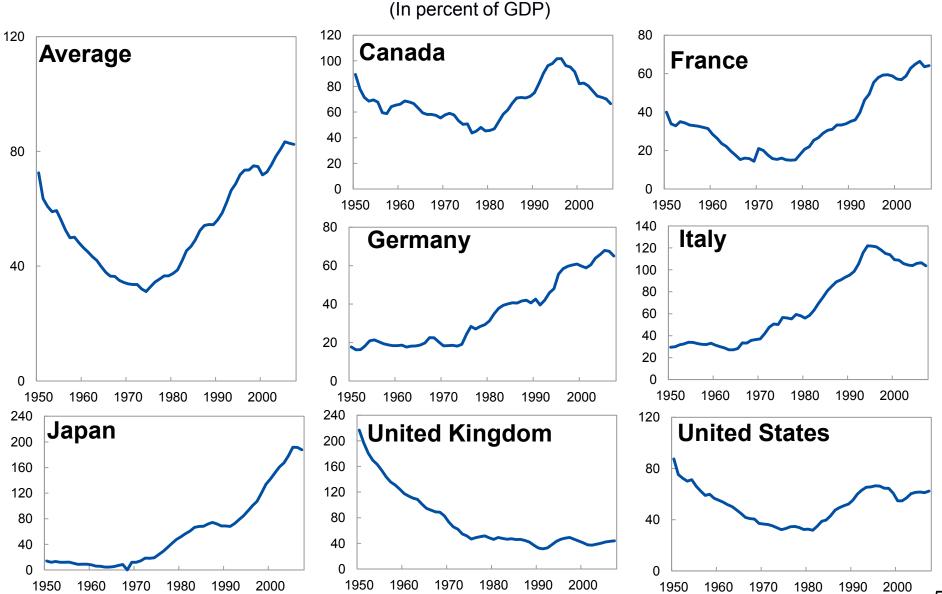




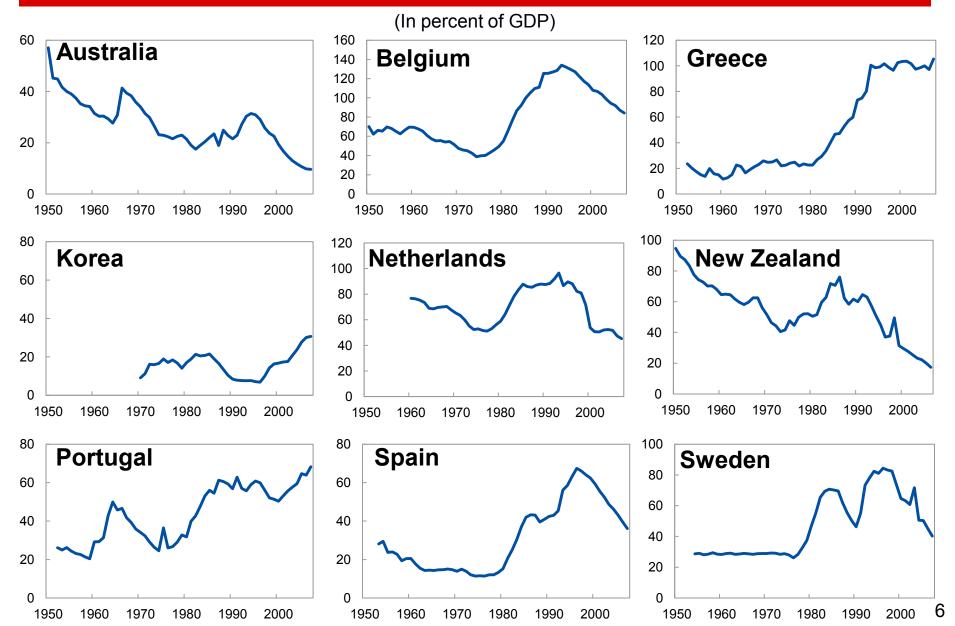
- The state of the public finances before the 2008 crisis
- 2. The effect of the crisis on the fiscal accounts
- 3. The risks arising from the current situation
- 4. Policy conclusions

# 1. The state of the public finances before the 2008 crisis

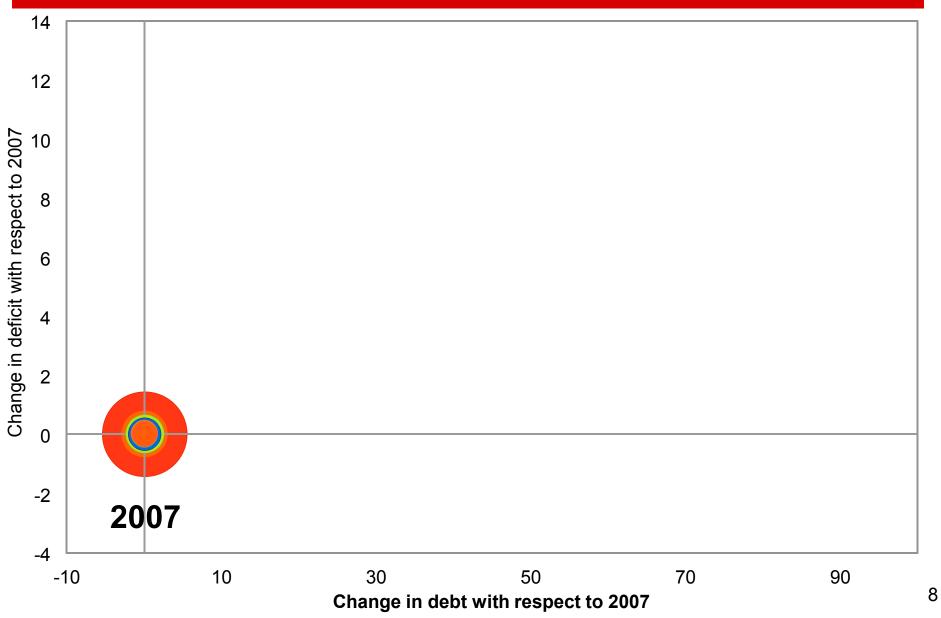
## General Government Gross Debt in G-7 Economies, 1950-2007

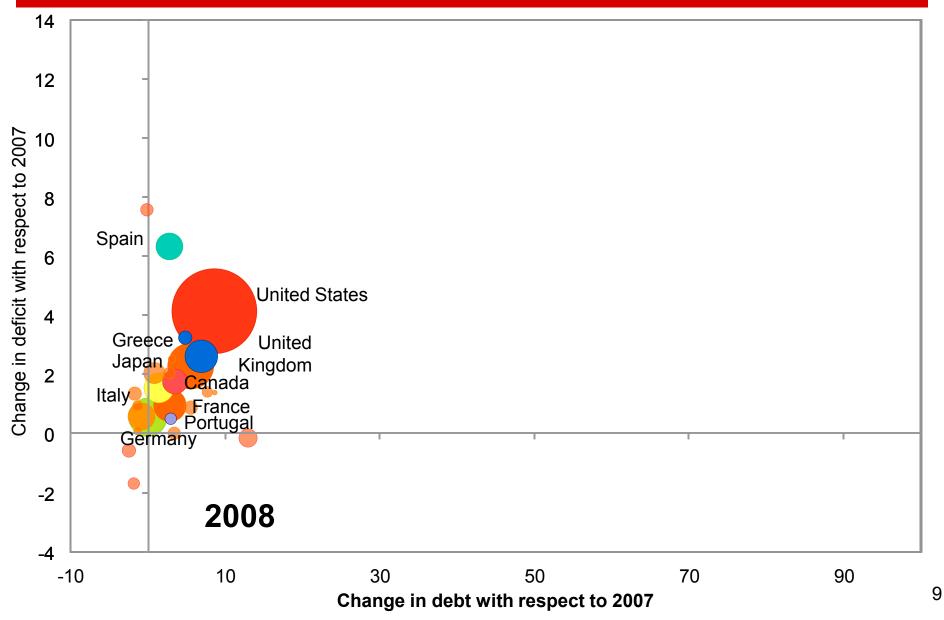


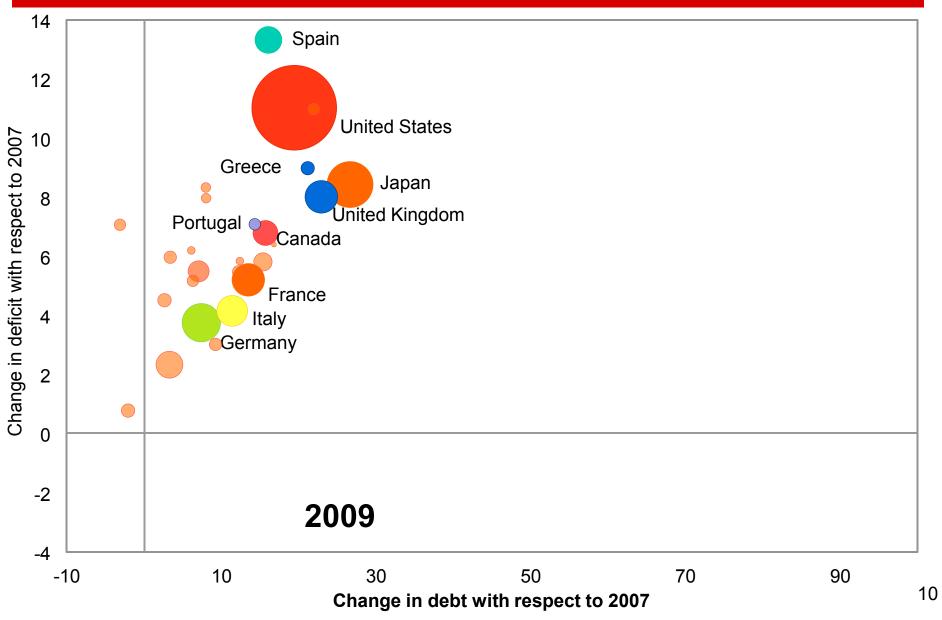
## General Government Gross Debt in Selected Advanced Economies, 1950-2007

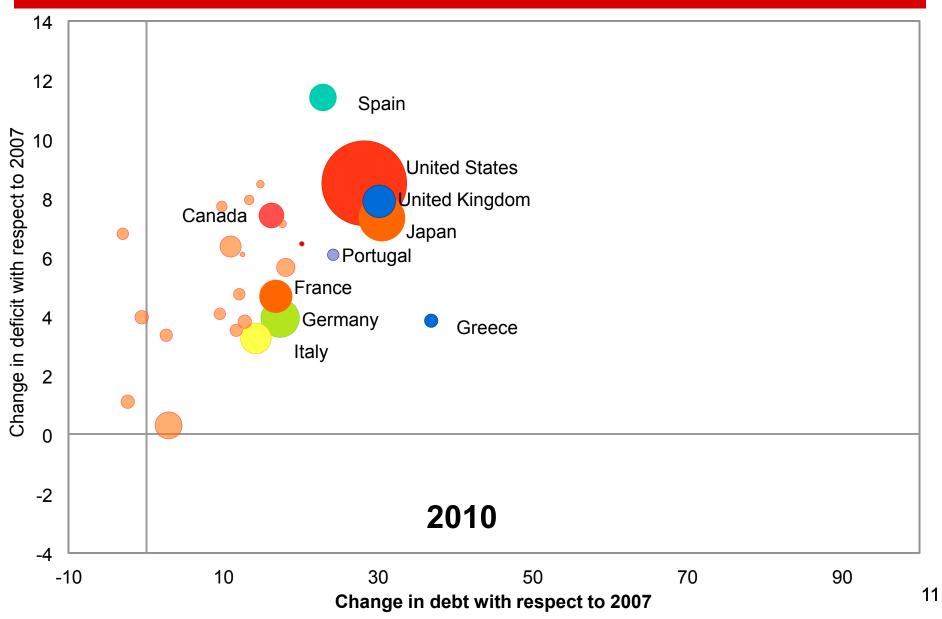


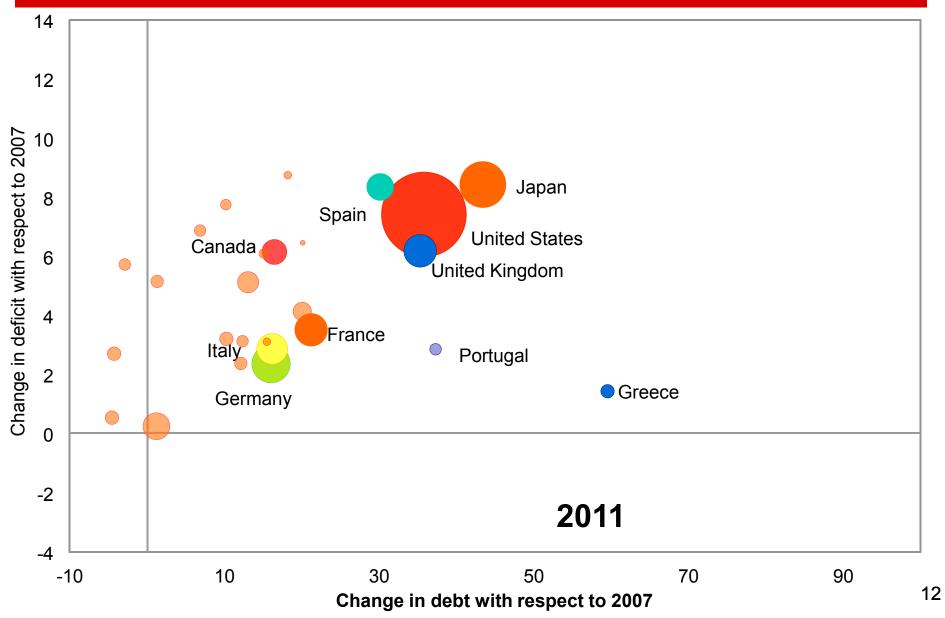
2. The effect of the crisis on the fiscal accounts

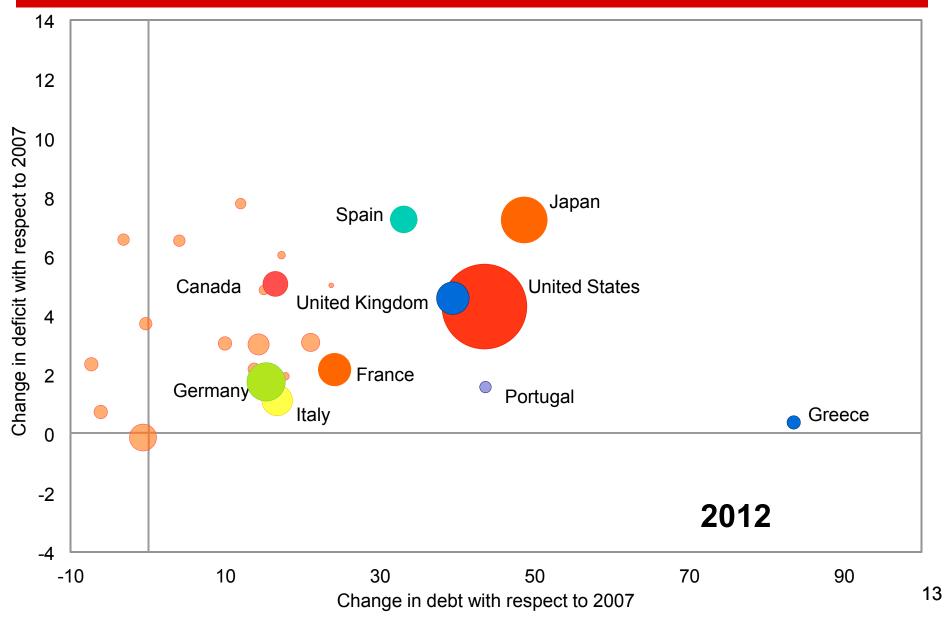






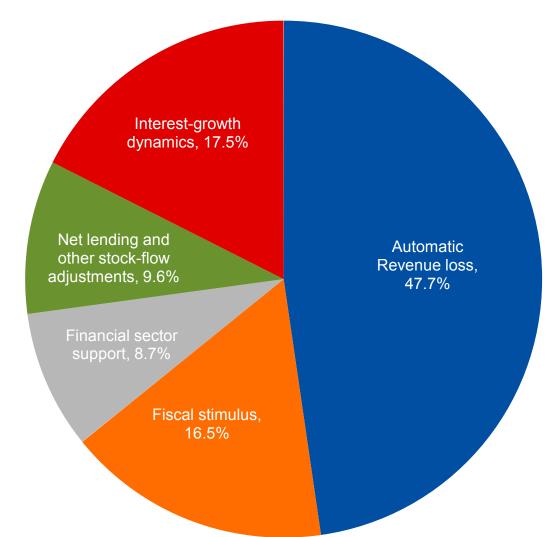




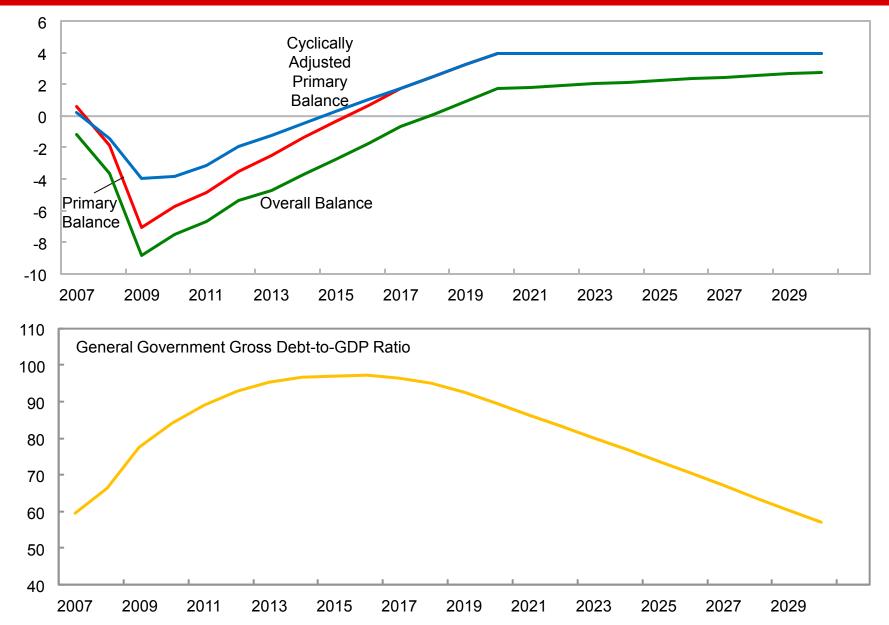


#### G-20 Advanced Economies: Increase in General Government Debt, 2008–15

#### (Total increase: 38.6 percentage points of GDP)

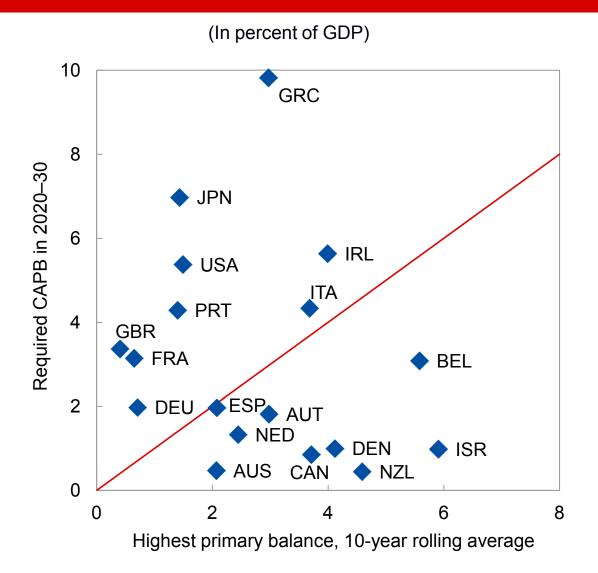


## Illustrative Scenarios for Primary Balance Adjustment and Debt, 2010-30



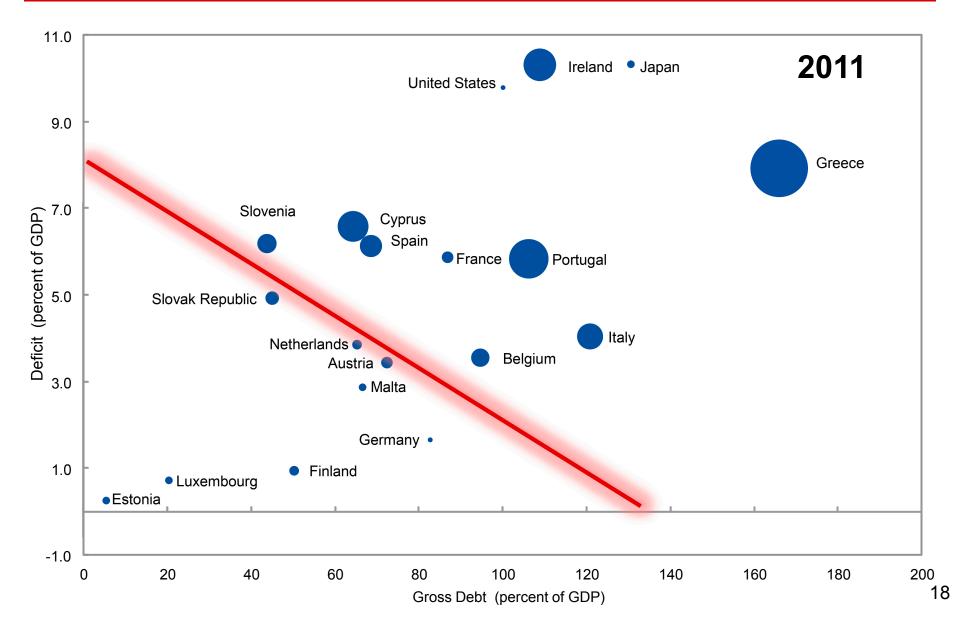
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## Cyclically Adjusted Primary Balance that Needs to Be Maintained in 2020–30 to Achieve Debt Target by 2030



3. The risks arising from the current situation

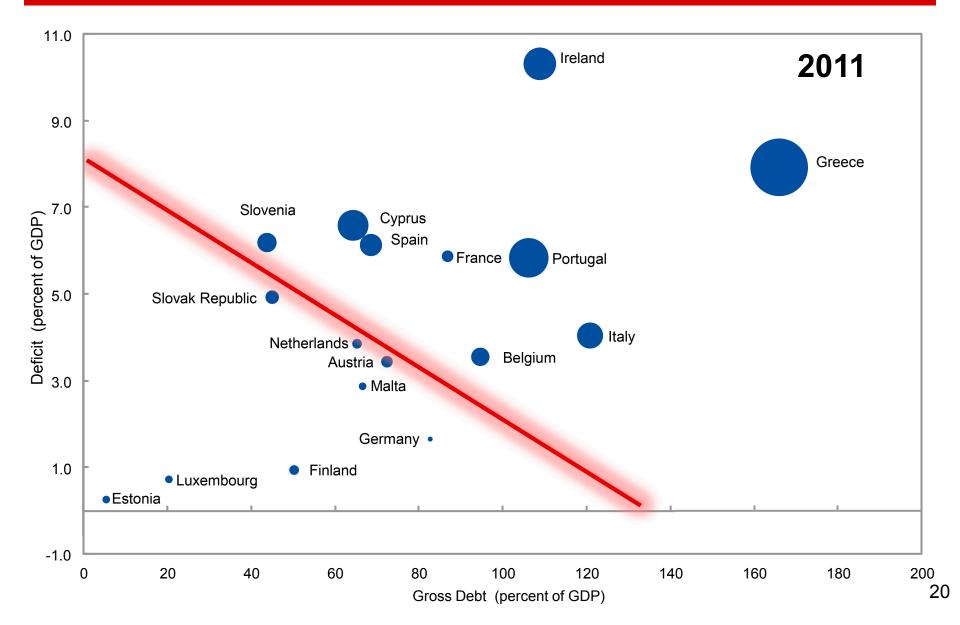
## General Government Deficit vs. Debt in Euro Area Countries, 2011



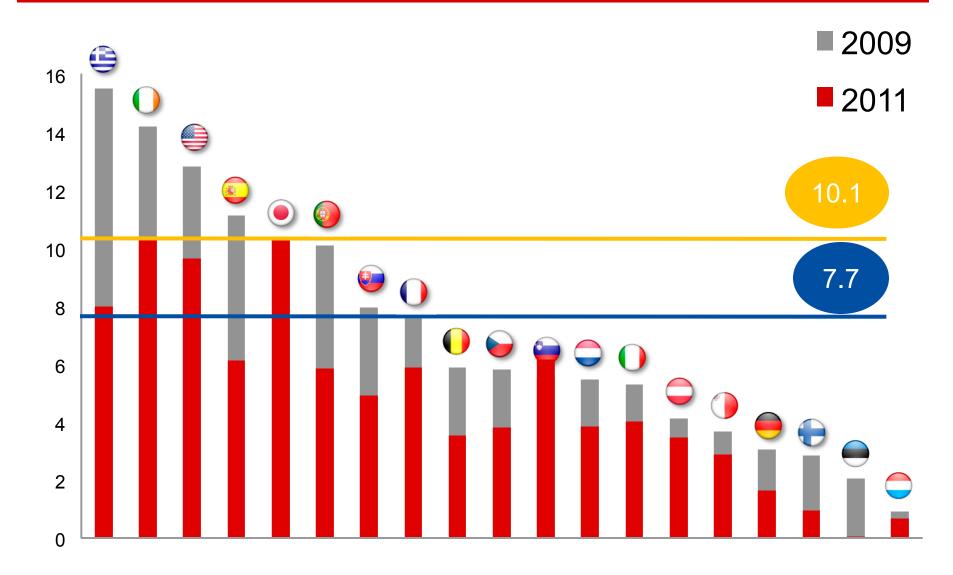
#### Why Euro Area Countries Are Different from US and Japan?

1. Past and future fiscal trends

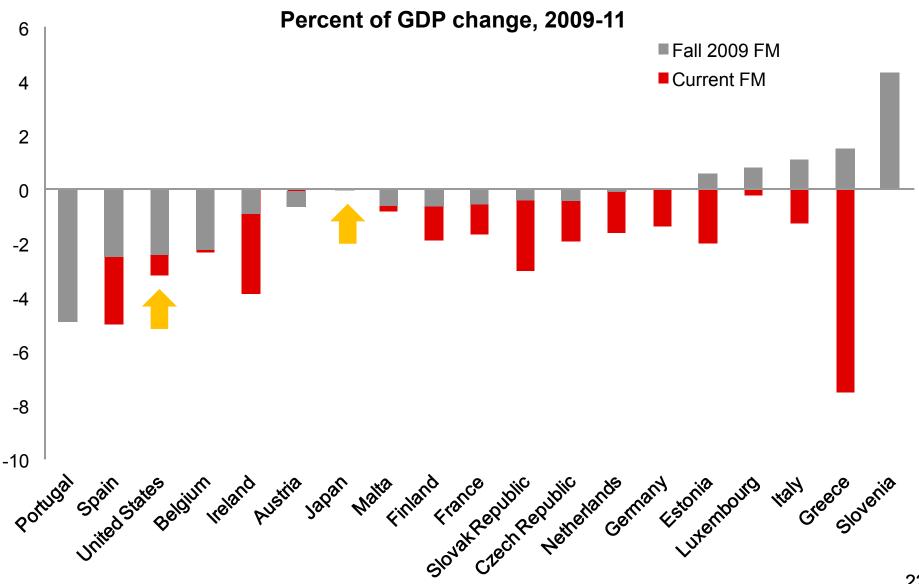
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#### **General Government Deficit, in percent of GDP**

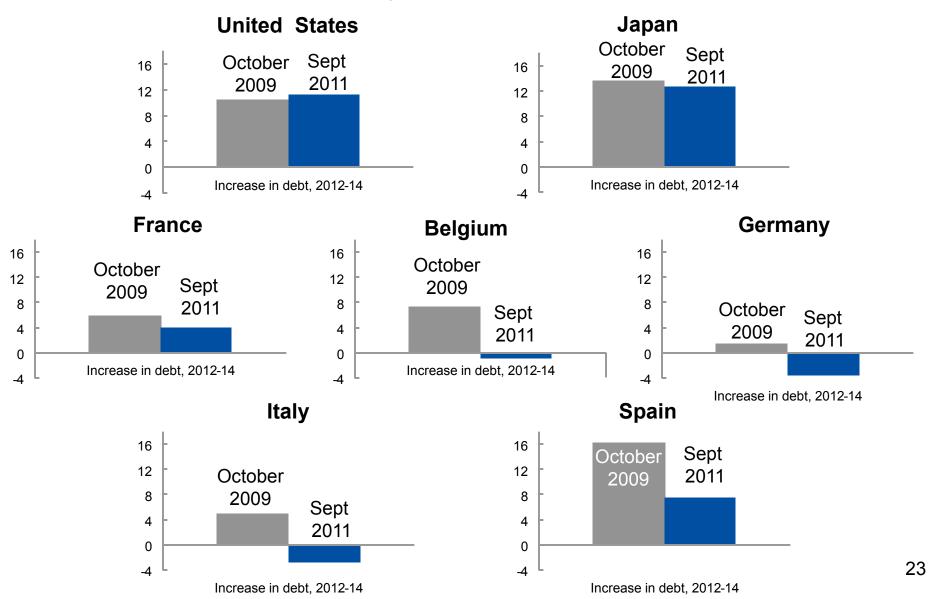


#### Change in the Deficit in the Euro Area, US and Japan



#### Fiscal Outlook: Increase in General Government Debt during 2012-14

(Change in percent of GDP)

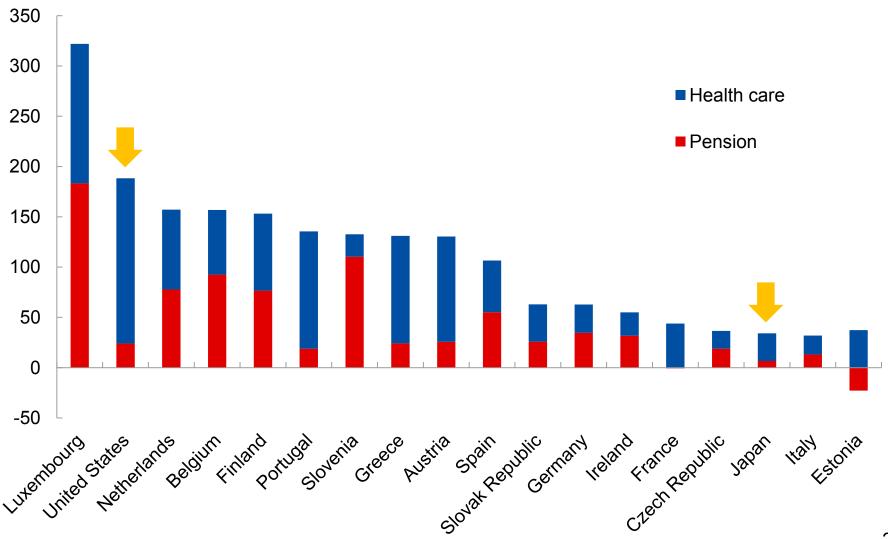


#### Why Euro Area Countries Are Different from US and Japan?

- 1. Past and future fiscal trends
- 2. Long-term pressures on spending for health care and pensions

#### NPV of Pension and Health care Spending Change 2010-50

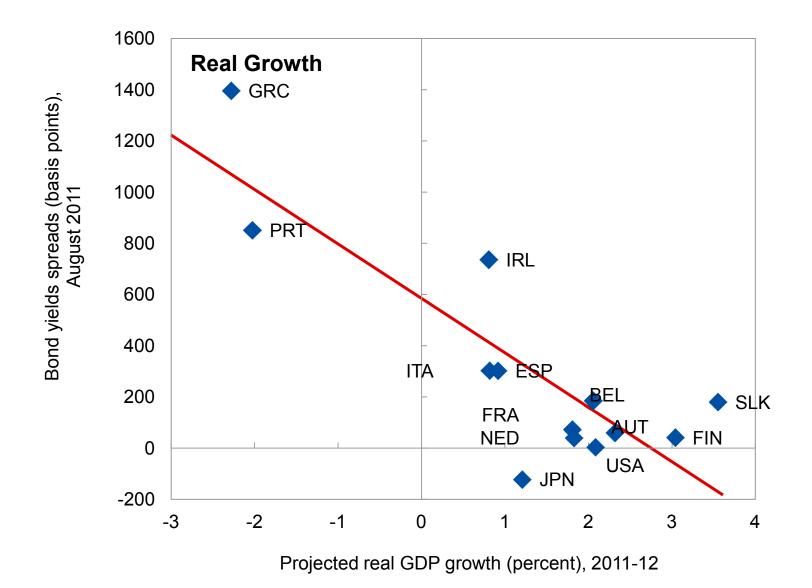
(Change in percent of GDP)



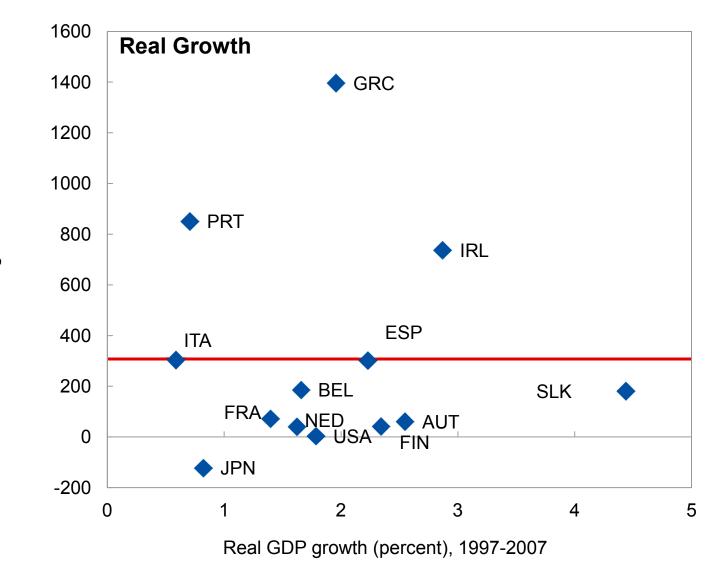
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- 2. Long-term pressures on spending for health care and pensions
- 3. Banks
- 4. Growth

#### Sovereign Bond Yield Spreads and Projected Real GDP Growth



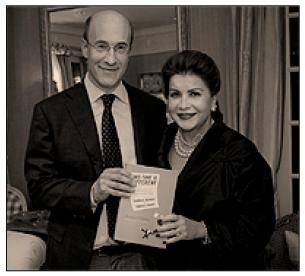
#### **Sovereign Bond Yield Spreads and Real GDP Growth**



Bond yields spreads (basis points), August 2011

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#### **High Public Debt is Bad for Growth**









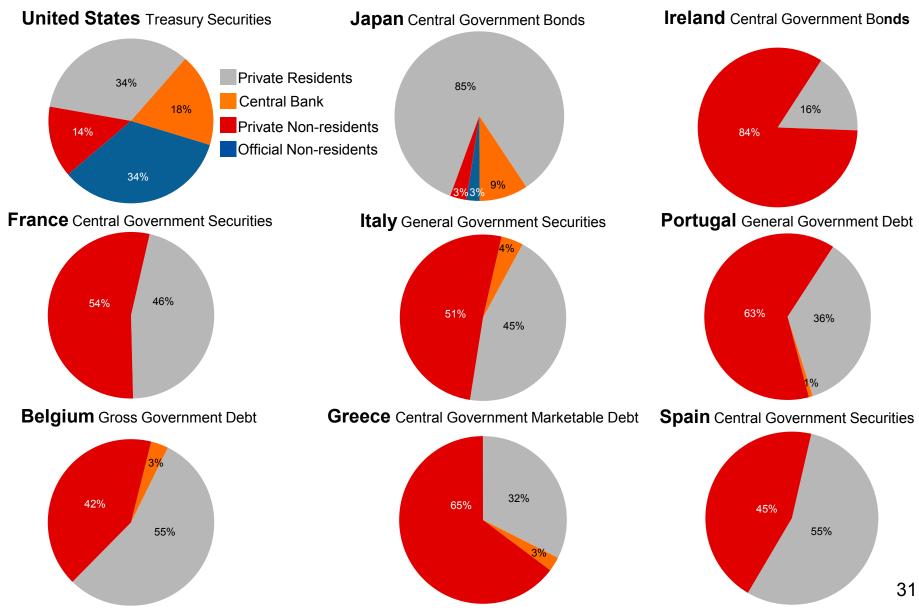
Rogoff and Reinhart: "This Time is Different: Eight Centuries of Financial Folly" (2009) Kumar and Woo: "Public Debt and Growth" (2010)

Steven Cecchetti: "The Real Effects of Debt" (2011)

#### Why Euro Area Countries Are Different from US and Japan?

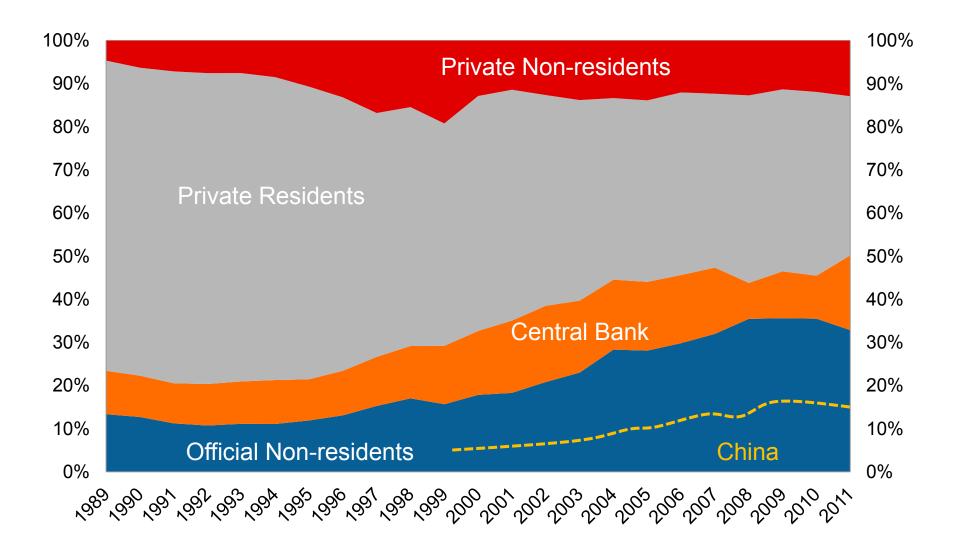
- 1. Past and future fiscal trends
- 2. Long-term pressures on spending for health care and pensions
- 3. Banks
- 4. Growth
- 5. Sources of financing

#### Sources of Financing: Holders of Public Debt

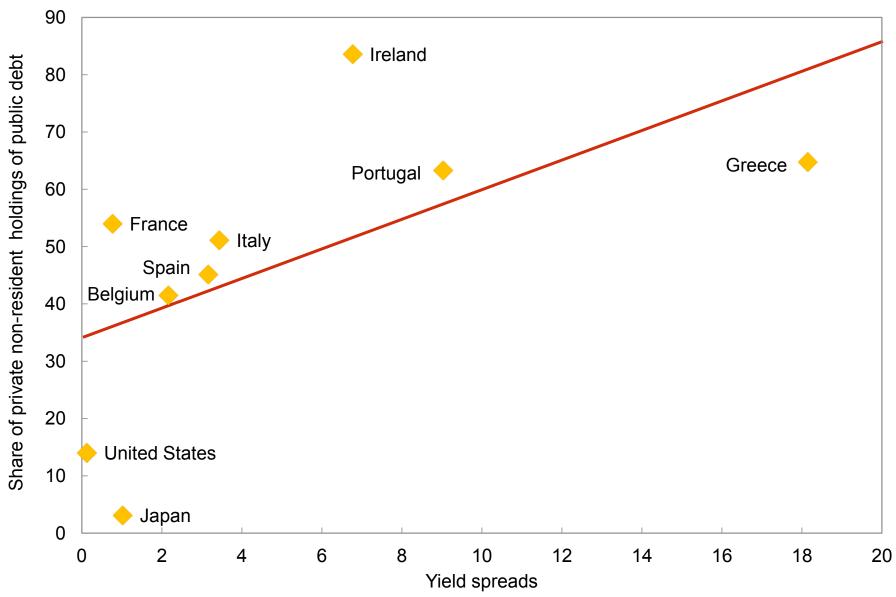


Note: For Ireland, France, Italy, Portugal, Greece and Spain: Private non-resident, includes ECB.

#### **United States: Ownership of Treasury Securities**



#### **Private Non-residents Holders of Debt vs. Yield Spreads**



#### **Determinants of Spreads, Cross Section Analysis, 2011**

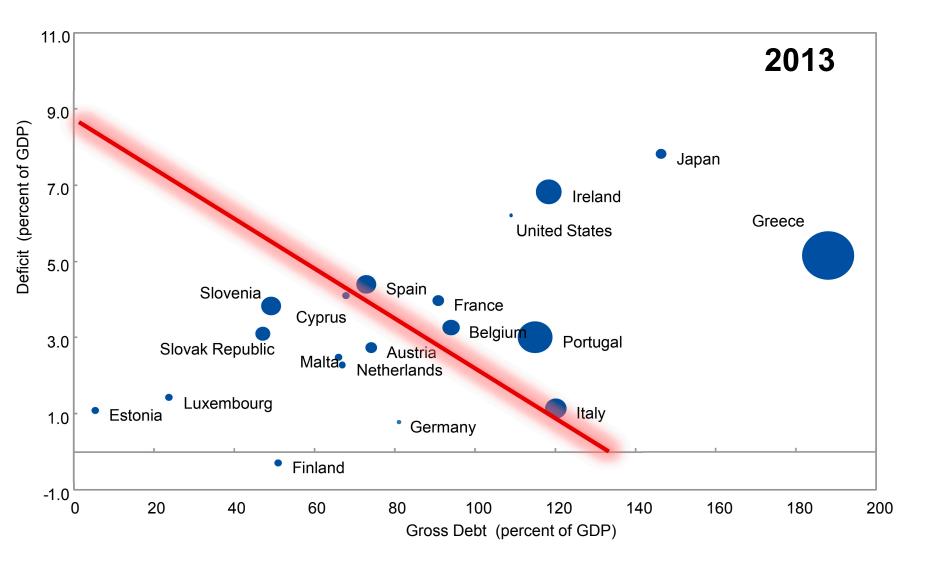
	(1)	(2)	(3)	(4)	(5)
VARIABLES					
Gross debt to GDP 2011	0.0165***	0.0191***		0.0170***	0.0175***
	(3.089)	(5.683)	(4.930)	(5.026)	(5.390)
Primary balance to GDP 2011 for Euro Area	-0.210***	-0.185***	-0.185***	-0.189***	-0.177***
	(-3.728)	(-3.273)	(-3.195)	(-3.432)	(-3.606)
Debt held by a country's central bank or by foreign central banks to GDP	-0.0287*	-0.0380**	-0.0398**	-0.0424***	-0.0419***
	(-1.744)	(-2.747)	(-2.633)	(-3.531)	(-3.681)
Inflation rate 2011	0.309**	0.343***	0.395***	0.384***	0.382***
	(2.729)	(3.329)	(4.623)	(5.122)	(5.024)
Real GDP Growth 2011	-0.195**	-0.221***	-0.163**	-0.159***	-0.153**
	(-2.632)	(-3.580)	(-2.626)	(-2.822)	(-2.671)
NPV of pension spending in percent of GDP 2010	-0.000967	-0.00203	-0.00233	-0.00262	
	(-0.225)	(-0.478)	(-0.615)	(-0.699)	
NPV of health spending in percent of GDP 2010	-0.00238	-0.00245	-0.00100		
	(-0.870)	(-0.880)	(-0.373)		
Primary balance to GDP 2014 for Euro Area	0.0948				
	(0.856)				
Potential output growth, average 2011-2016	0.287*	0.290*			
	(1.724)	(1.765)			
Constant	2.589***	2.506***	2.872***	2.845***	2.712***
	(4.604)	(4.982)	(6.011)	(6.418)	(5.949)
Observations	31	31	31	31	31
R-squared	0.781	0.776	0.748	0.747	0.741
Robust t-statistics in parentheses					

\*\*\* p<0.01, \*\* p<0.05, \* p<0.1

## 4. Policy conclusions

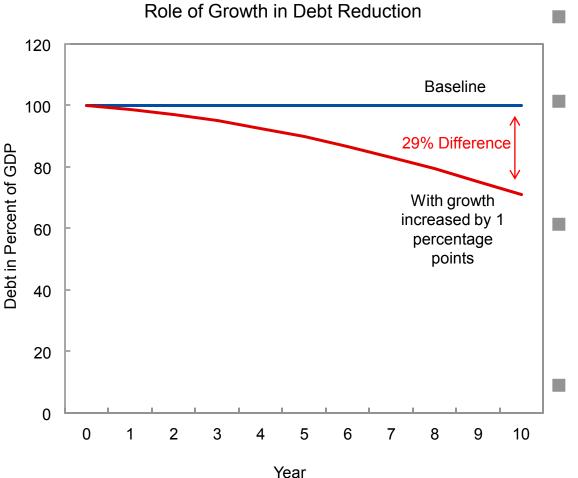
- 1. United States and Japan need a clear plan
- 2. Europe needs:
  - 1. Adjustment in fiscal fundamentals

## General Government Deficit vs. Debt in Euro Area Countries, 2013



- 1. United States and Japan need a clear plan
- 2. Europe needs:
  - 1. Adjustment in fiscal fundamentals
  - 2. Reforms to boost potential growth

#### **The Role of Growth Lowering Debt Ratios**



- Initial debt ratio at 100%
  - Increase the growth rate for 10 years by 1 p.p.
- Spending constant in per capita terms, assuming a 40% tax ratio
- Would lower public debt by 29% of GDP

- 1. United States and Japan need a clear plan
- 2. Europe needs:
  - 1. Adjustment in fiscal fundamentals
  - 2. Reforms to boost potential growth
  - 3. Banking
  - 4. Financing for countries that are adjusting

### **Thank You!**