

BBVA Research		
	Contents	
	Is country risk in peripheral European countries overvalue	ed?
	What else are markets pricing in?	
	What can be expected on the European sovereign crisis going forward?	
	A	
	Annex	
BBVA		Page 2









BBVA Research		
	Contents	
	Is country risk in peripheral European countries overvalued?	
	What else are markets pricing in?	
	What can be expected on the European sovereign crisis going forward?	
	Annex	
BBVA		Page 7









BBVA Research										
	What else are markets pricing in ?									
3	Banking situation and national bailouts of banking systems (and other large companies)									
		Ireland	Spain							
	Big size of it's financial system	649%	328%	Assets/PIB						
	Solvency issues	20%	1.5%	Capital injections/PIB						
	Stress tests low credibility (I): small coverage	50%	100%	% of guaranteed assets						
	Stress tests low credibility (II): Estimated fail credits too optimistic	1%	4%	Fail credits, % of assets						
	Pending liquidity injections after the stress tests	14	2	bn EUR						
	Liquidity (I): High dependence on the ECB	5.7%	2.6%	% average assets since 2008						
	Liquidity (II): Big maturities in the short-run	2.2%	1.2%	Maturities to dec. 2010, % of assets						
BBVA				Page 12						



BBVA Resear	ch
	Contents
	Is country risk in peripheral European countries overvalued?
	What else are markets pricing in?
	What can be expected on the European sovereign crisis going forward?
	Annex
BBVA	Page 14



BBVA Research		
	Contents	
	Is country risk in peripheral European countries overvalued?	
	What else are markets pricing in?	
	What can be expected on the European sovereign crisis going forward?	
	Annex	
BBVA		Page 16

BBVA Research

BBVA

Annex

Teach Teach <th< th=""><th>Medium Term</th><th>DEU</th><th>FRA</th><th>NLD</th><th>BEL</th><th>ITA</th><th>SP</th><th>POR</th><th>GRE</th><th>AUT</th><th>FIN</th><th>IRI</th><th>DEN</th><th>SWE</th><th>UK</th><th>US</th><th>JAP</th><th>Avo</th></th<>	Medium Term	DEU	FRA	NLD	BEL	ITA	SP	POR	GRE	AUT	FIN	IRI	DEN	SWE	UK	US	JAP	Avo
Business regulations 2 2 1	Labour market inefficiency	2	3	2	2	3	3	3	3	2	1	1	1	2	1	1	1	1.
Network regulations 1 2 1 1 2 1 1 2 3 1 2 3 1	Business regulations	2	2	1	3	2	3	2	3	2	2	1	1	1	1	1	2	1.0
Retail sector regulation 1 2 1 3 2 2 2 3 3 2 1 </td <td>Network regulations</td> <td>1</td> <td>2</td> <td>1</td> <td>1</td> <td>2</td> <td>1</td> <td>2</td> <td>3</td> <td>1</td> <td>2</td> <td>3</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>2</td> <td>1.</td>	Network regulations	1	2	1	1	2	1	2	3	1	2	3	1	1	1	1	2	1.
Profesional services regulations 3 2 1 2 3 2 2 3 2 1	Retail sector regulation	1	2	1	3	2	2	2	3	3	2	1	2	1	1	2	1	1.8
Long Term Image: Second S	Profesional services regulations	3	2	1	2	3	2	2	3	2	1	1	1	1	1	1	1	1.
Institutions and contracts 1 2 1 2 3 3 3 3 1 1 2 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 2 1 1 1 3 3 3 3 2 1 1 1 1 1 1 1 1 2 3 3 3 2 2 3 1 1 1 1 1 1 1 1 1 2 3 3 3 3 2 2 3 1	Long Term																	
Huma capital 2 2 1 1 3 3 3 3 2 1 1 1 1 2 2 1 1 Infraestructure 1 1 1 1 1 2 3 1 2 3 2 2 3 1 <td< td=""><td>Institutions and contracts</td><td>1</td><td>2</td><td>1</td><td>2</td><td>3</td><td>2</td><td>3</td><td>3</td><td>1</td><td>1</td><td>2</td><td>1</td><td>2</td><td>1</td><td>2</td><td>2</td><td>1.8</td></td<>	Institutions and contracts	1	2	1	2	3	2	3	3	1	1	2	1	2	1	2	2	1.8
Infraestructure 1 1 1 2 3 1 2 3 2 2 3 1	Huma capital	2	2	1	1	3	3	3	3	2	1	1	1	1	2	2	1	1.8
Innovation 1 1 1 1 2 3 3 3 2 2 2 1	Infraestructure	1	1	1	2	3	1	2	3	2	2	3	1	1	1	1	1	1.0
Average 1.6 1.9 1.1 1.9 2.6 2.2 2.4 3.0 1.9 1.6 1.7 1.1 1.2 1.1 1.3 1.3 1 Total 14 17 10 17 23 20 22 27 17 14 15 10 11 10 12 12 Source: IMF and BBVA Research	Innovation	1	1	1	1	2	3	3	3	2	2	2	1	1	1	1	1	1.0
Total 14 17 10 17 23 20 22 27 17 14 15 10 11 10 12 12 Source: IMF and BBVA Research IMF and BBVA Re	Average	1.6	1.9	1.1	1.9	2.6	2.2	2.4	3.0	1.9	1.6	1.7	1.1	1.2	1.1	1.3	1.3	1.7
Source: IMF and BBVA Research	Total	14	17	10	17	23	20	22	27	17	14	15	10	11	10	12	12	
	Source: IMF and BBVA Research																	

Page 17

BBVA Research Annex Europe: Fiscal deficit and debt forecast (% GDP) **Fiscal** vulnerability 150 Including NAMA 12 100 20 10 75 429 472 11.0 14.3 5 -11-30.1 -13.6 -9.4 -11.2 -7.57.7 -6.0^{4.6} -5.35.0^{3.92.7} -7.3 -9.4 3.3 -5.5^{4.5}^{3.53.0} -5.9^{-4.8^{4.1}^{3.0}} -10 21 09 10 11 12 13 14 Ireland 091011121314 -20 091011121314 091011121314 091011121314 091011121314 091011121314 09 10 11 12 13 14 091011121314 Italy Portuga Spain UK Belgium Greece ny Public debt l(left) ---- Public deficit (right) BBVA Page 18







BBVA Research	
/	Annex: Model country risk
1) General Description	 The model allows assessing structural sovereign risk of any country included in the sample and it also allows estimating idiosyncratic risk from any other country, whether it is or not in the sample It allows disaggregating the estimated risk in two independent components: Global Risk: associated to common factors that affect simultaneously many different countries, but allowing a differential impact on each country Idiosyncratic Risk: The part of risk associated to specific country factors
2) Methodology	 The dependent variable used to proxy for a given country Sovereign Risk is the monthly average of the Credit Default Swaps (CDS) The methodology combines three different statistical methodologies in three sequential steps. 1) We construct two compound indexes that summarize the information coming from different idiosyncratic variables that are highly correlated among them. 2) We estimate a State-Space model in order to separate the observed CDS of a given country into two different components: a global risk component and an idiosyncratic risk component. 3) We use the output of the State-Space model to re-estimate the contributions of the idiosyncratic variables to the total observed country risk, through a Tobit-Panel model
BBVA	Page 22

BBVA Research	
/	Annex: Model country risk
3) Variables and Estimated Equation	 The variables that define the idiosyncratic component are: The GDP growth rate The inflation rate: Widely used in the literature as a proxy for macro stability Rule of Law de Kaufman: A commonly accepted measure of governance. It's an indicator that summarizes institutional and political stability Fiscal Position Indicator: fiscal balance and public debt External Position Indicator: current account and external debt The final estimated equation is: <i>Country Risk</i>_{it} = Global Risk(Estimated) t*Lambdai + β1 X_{1,it} + + βr X_{1,it} + δ_i + u_{it}
BBVA	Page 23

