

The economics of public debt

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Birds-eye view

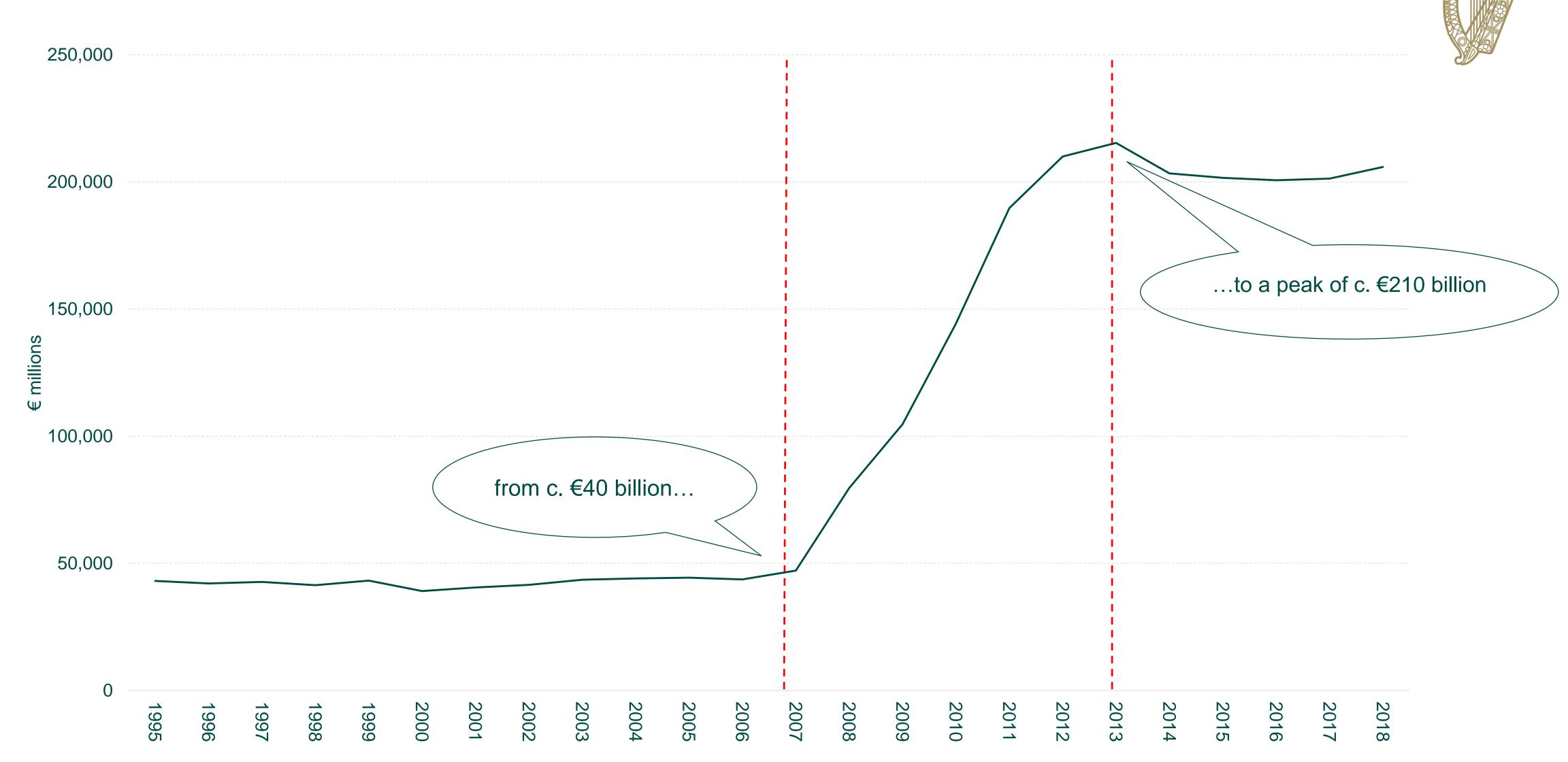


- Irish public debt: facts and figures
 - evolution
 - interest bill
- Irish public debt dynamics in international perspective
- Beyond the headline figures structure of debt
 - maturity profile
 - composition
 - interest rate
- Economic aspects of public debt
 - debt accumulation: "r g"
 - impact on economic growth
 - debt sustainability toolkit
- Conclusion



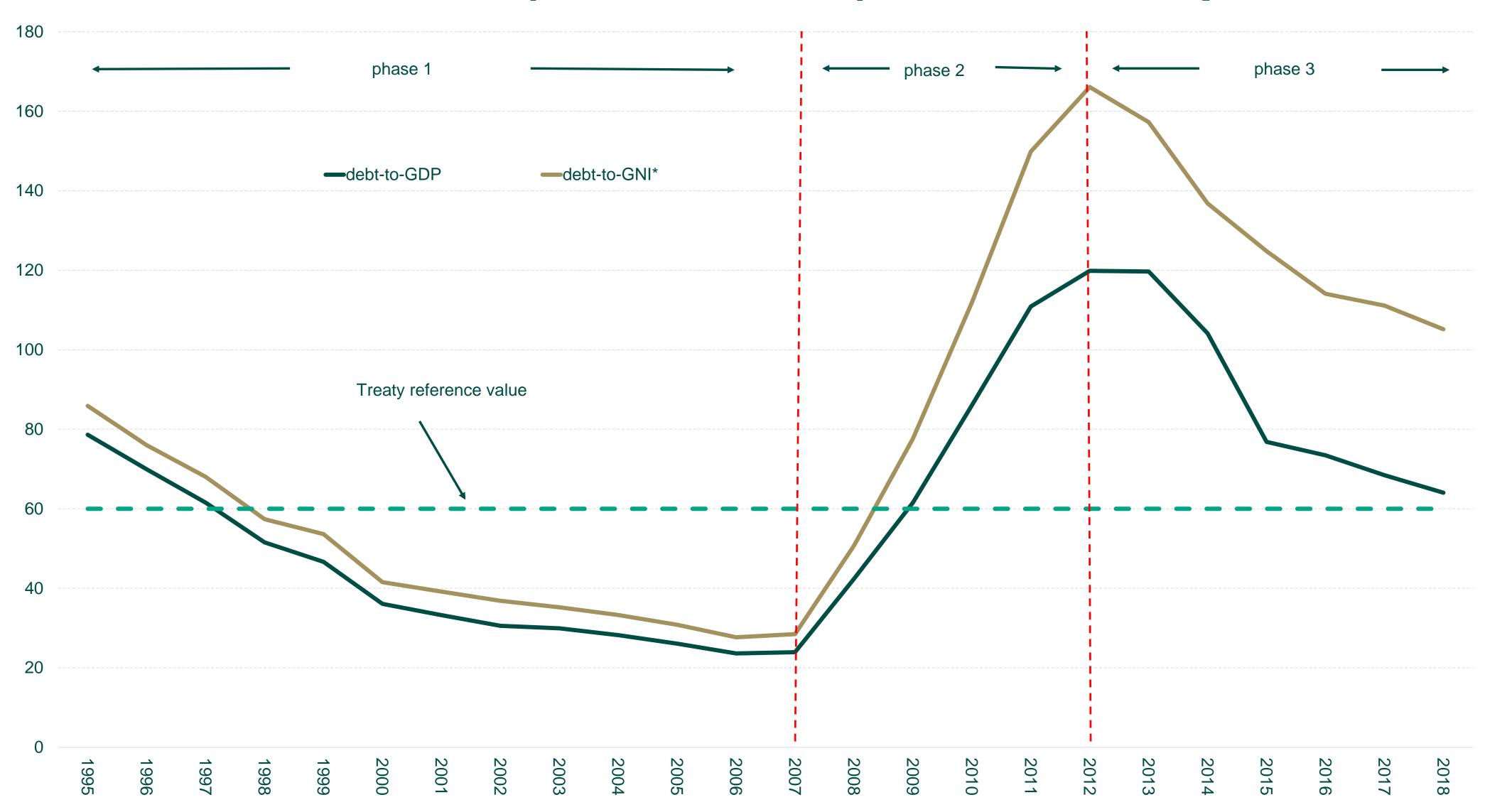
Irish public debt: facts and figures

Stock of public debt (GG) has increased sharply

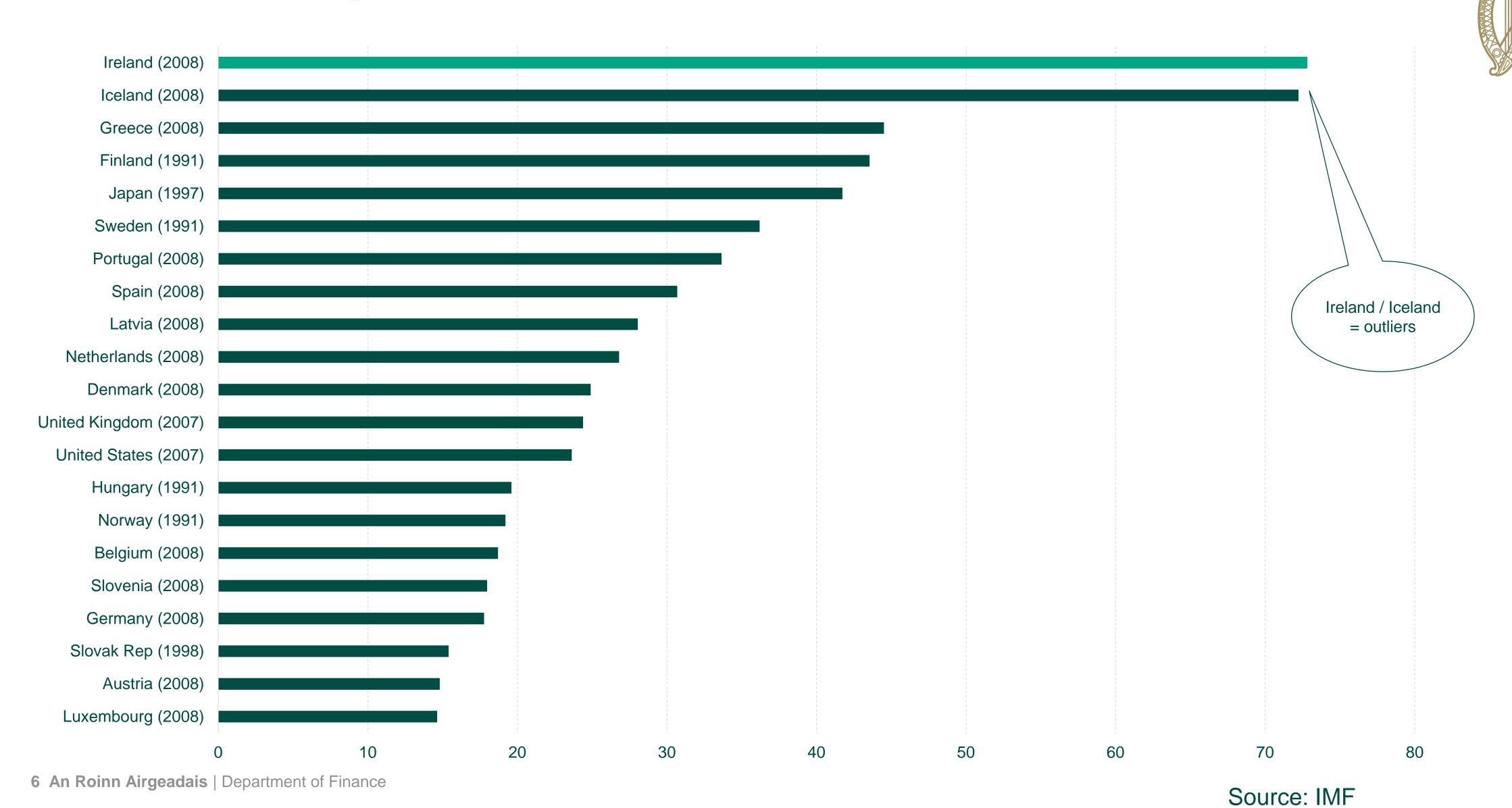


Debt-to-income ratios (GNI* and GDP) follow similar path



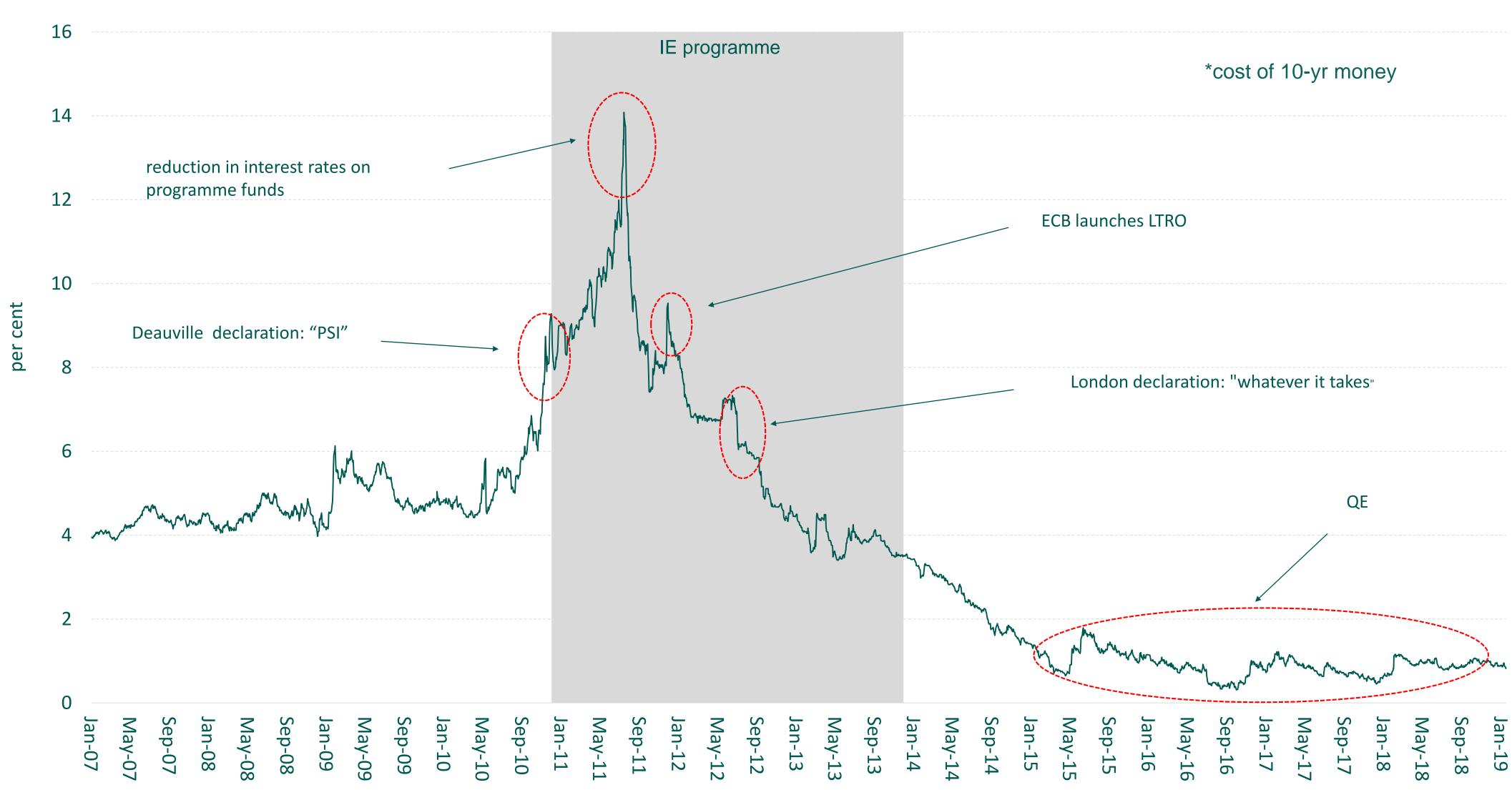


Increase in public debt from crisis, per cent of GDP

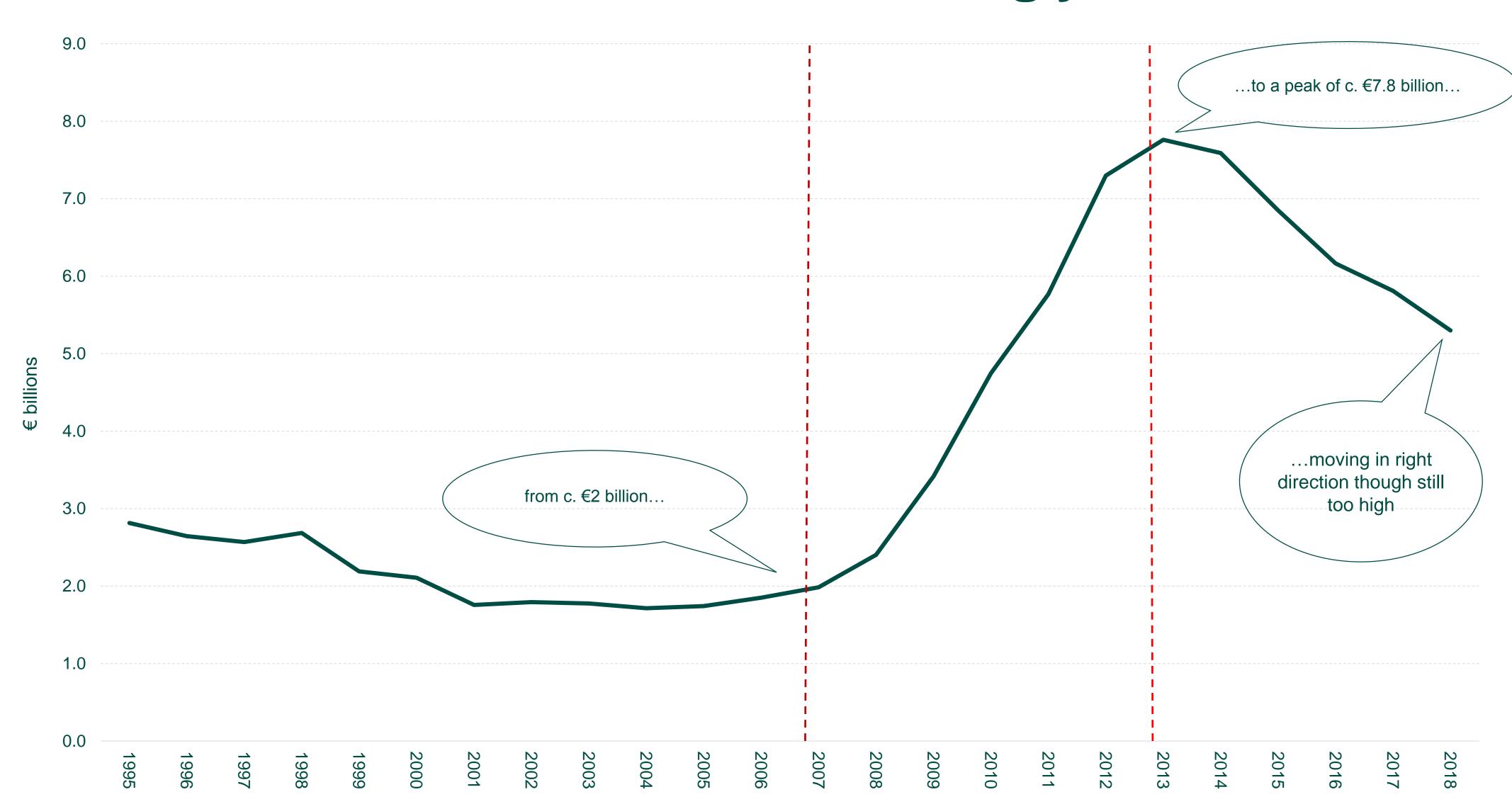


Borrowing costs have been contained – official sector funding and 'QE'

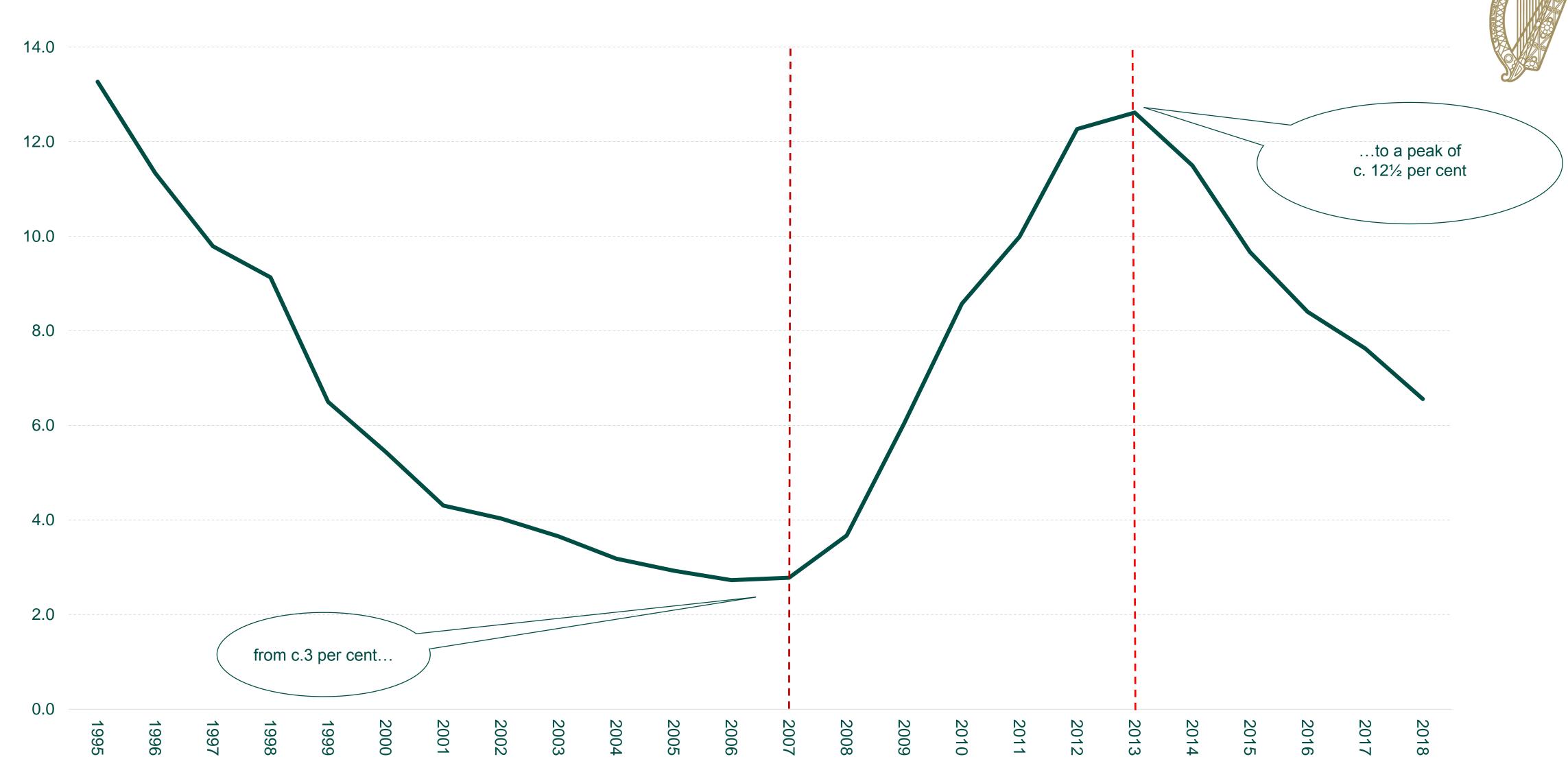




The interest bill has increased accordingly

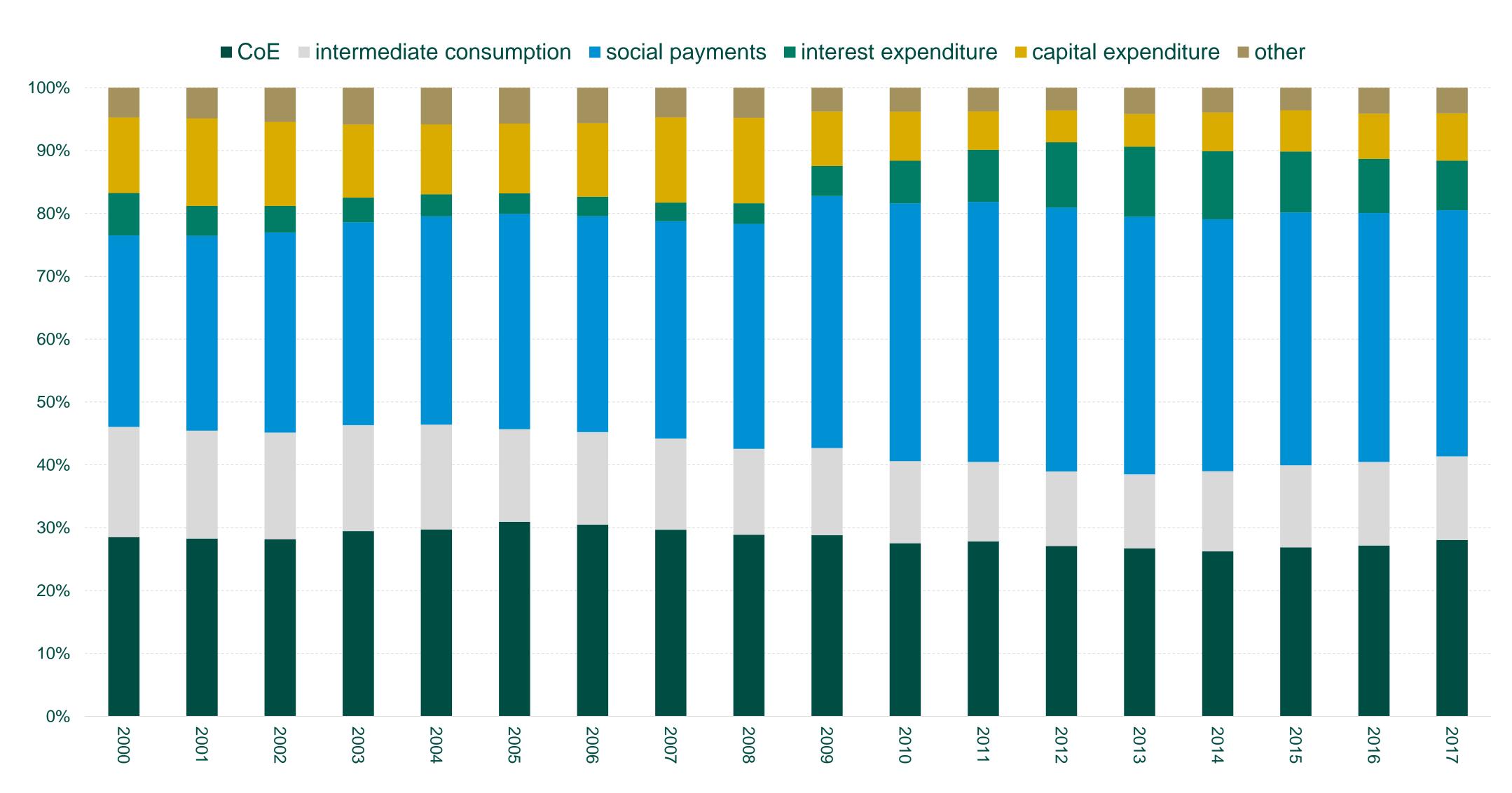


Interest bill absorbs more tax revenue than pre-crisis



Share of debt interest expenditure has risen





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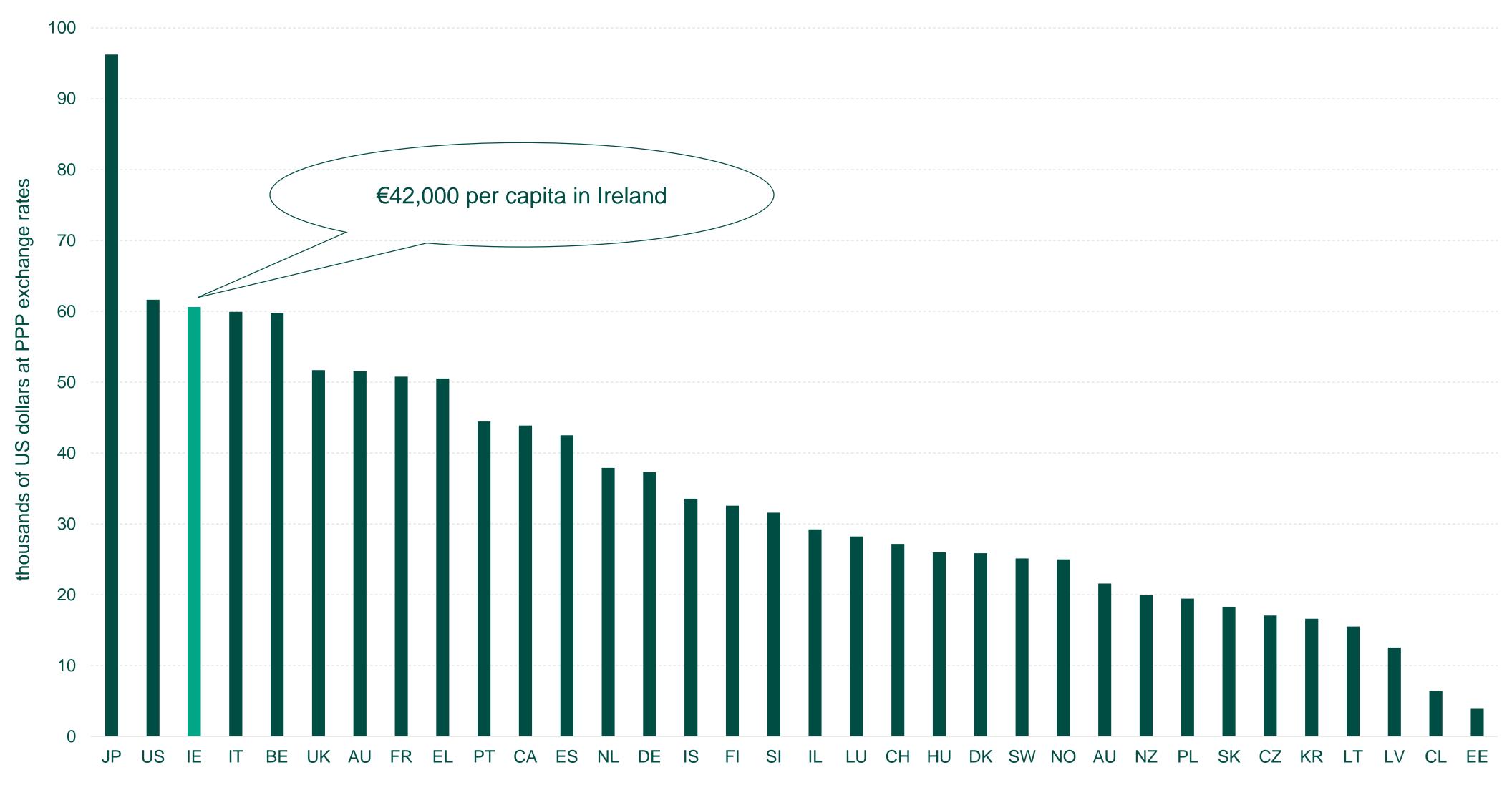
note: 2018 data not yet available



Irish public debt dynamics in international perspective

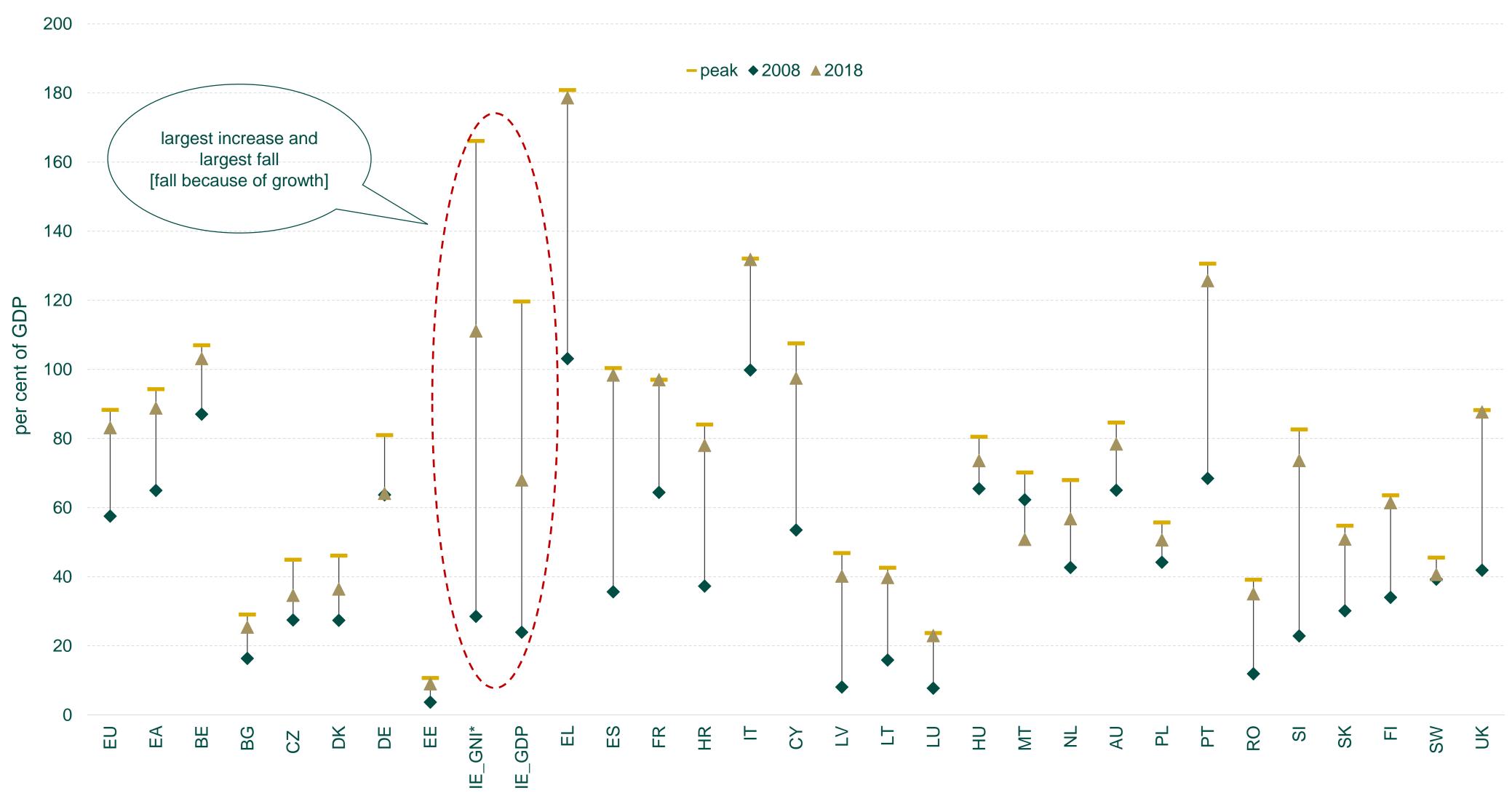
General government debt per capita, 2016 data





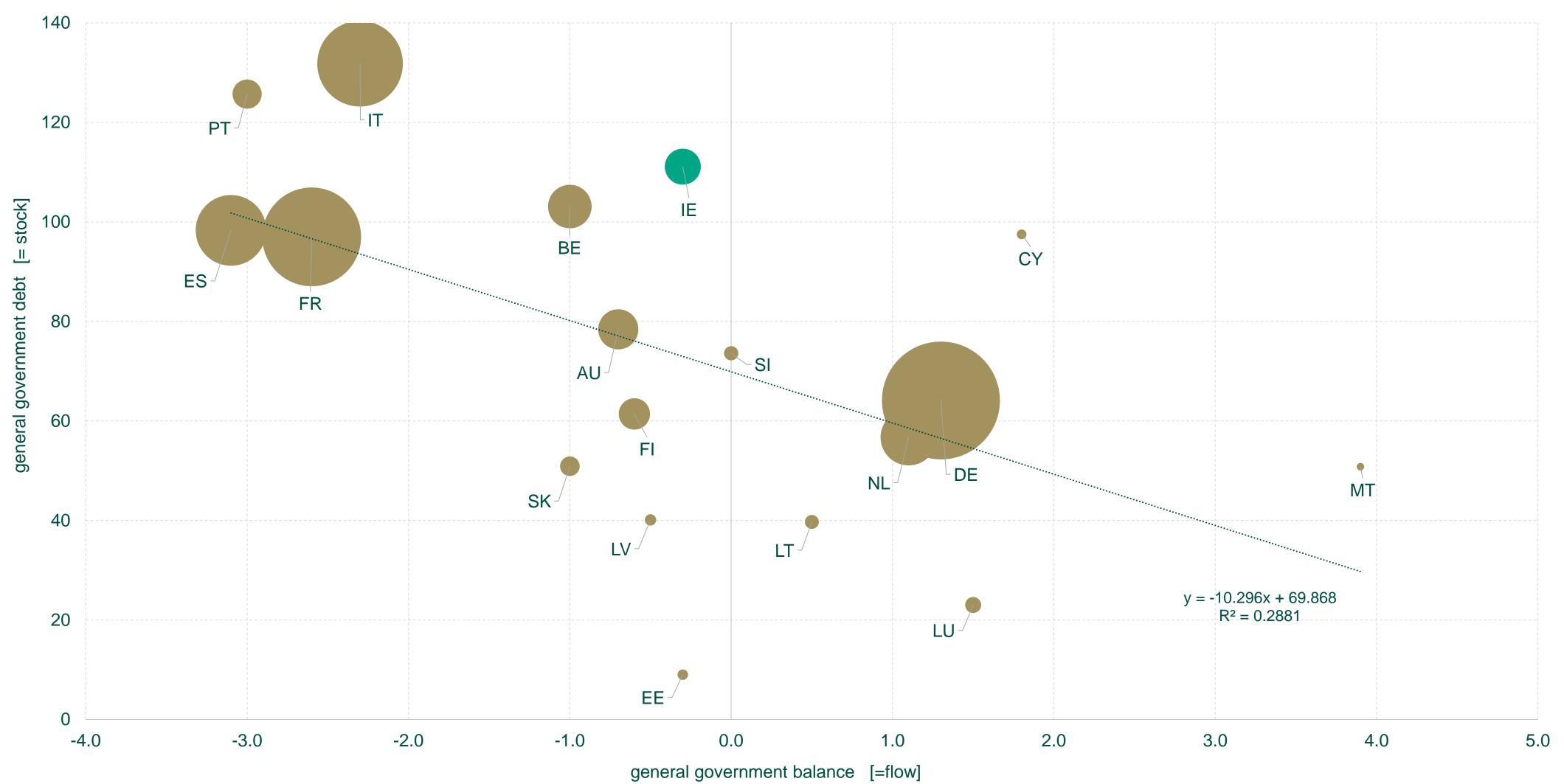
Debt dynamics in the EU28 since the crisis (2008-2018)



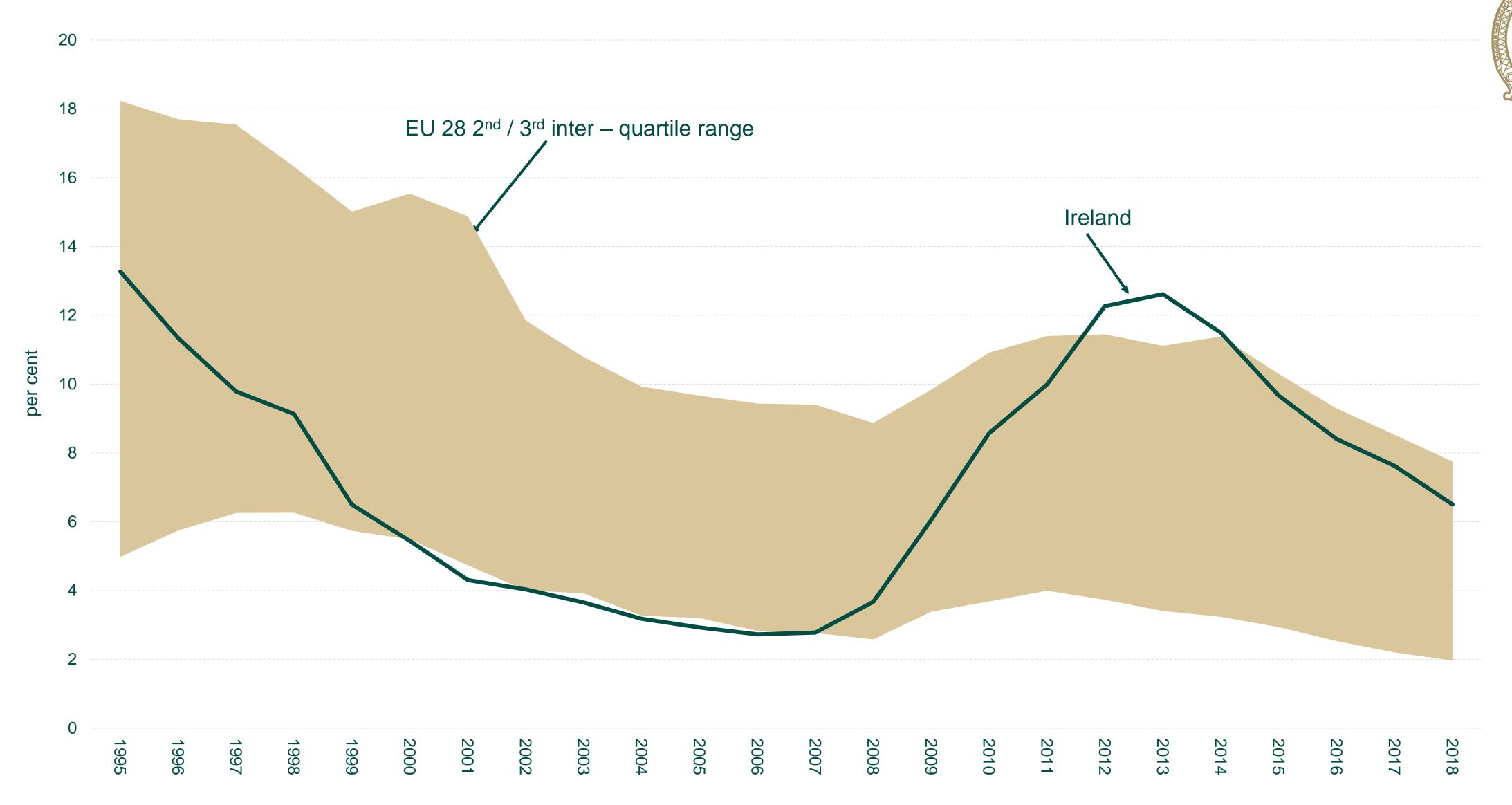


Public finances in the euro area (stock and flow), per cent of GDP



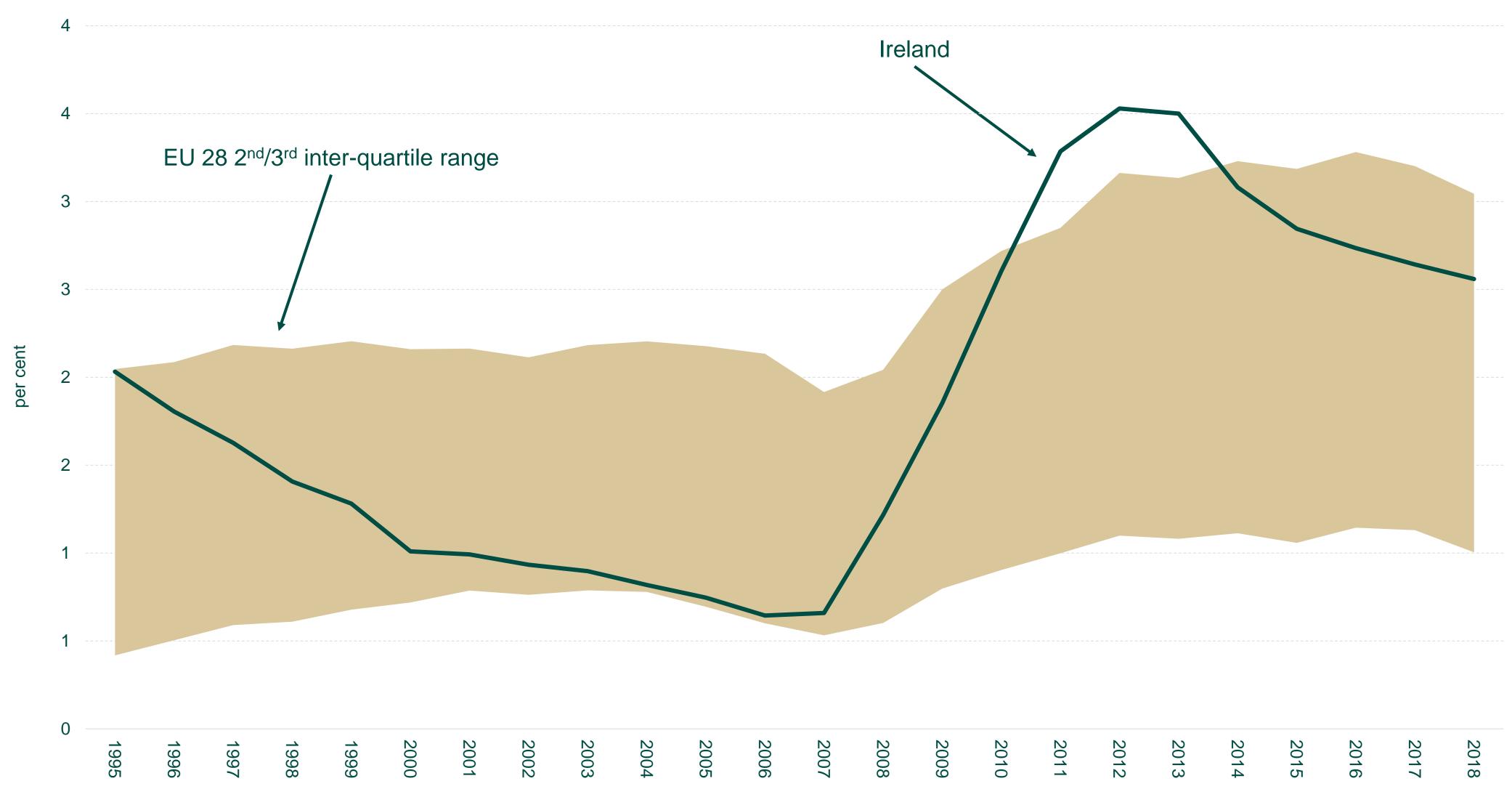


Debt burden (=interest-to-revenue ratio), IE relative to EU 28



Leverage (=debt-to-revenue) ratio, IE relative to EU 28





Cost of sovereign borrowing related to debt burden





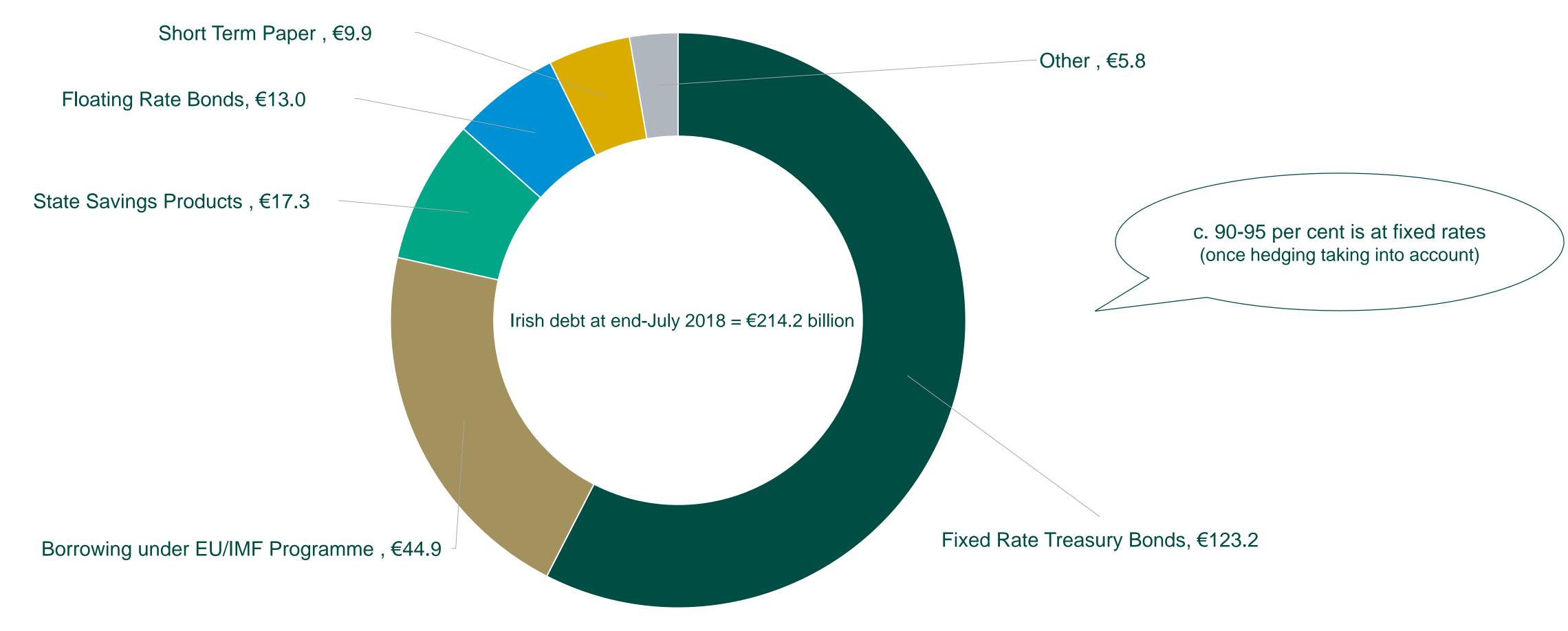
ratio of general government debt to revenue, per cent



Beyond the headline figures - structure of Irish public debt

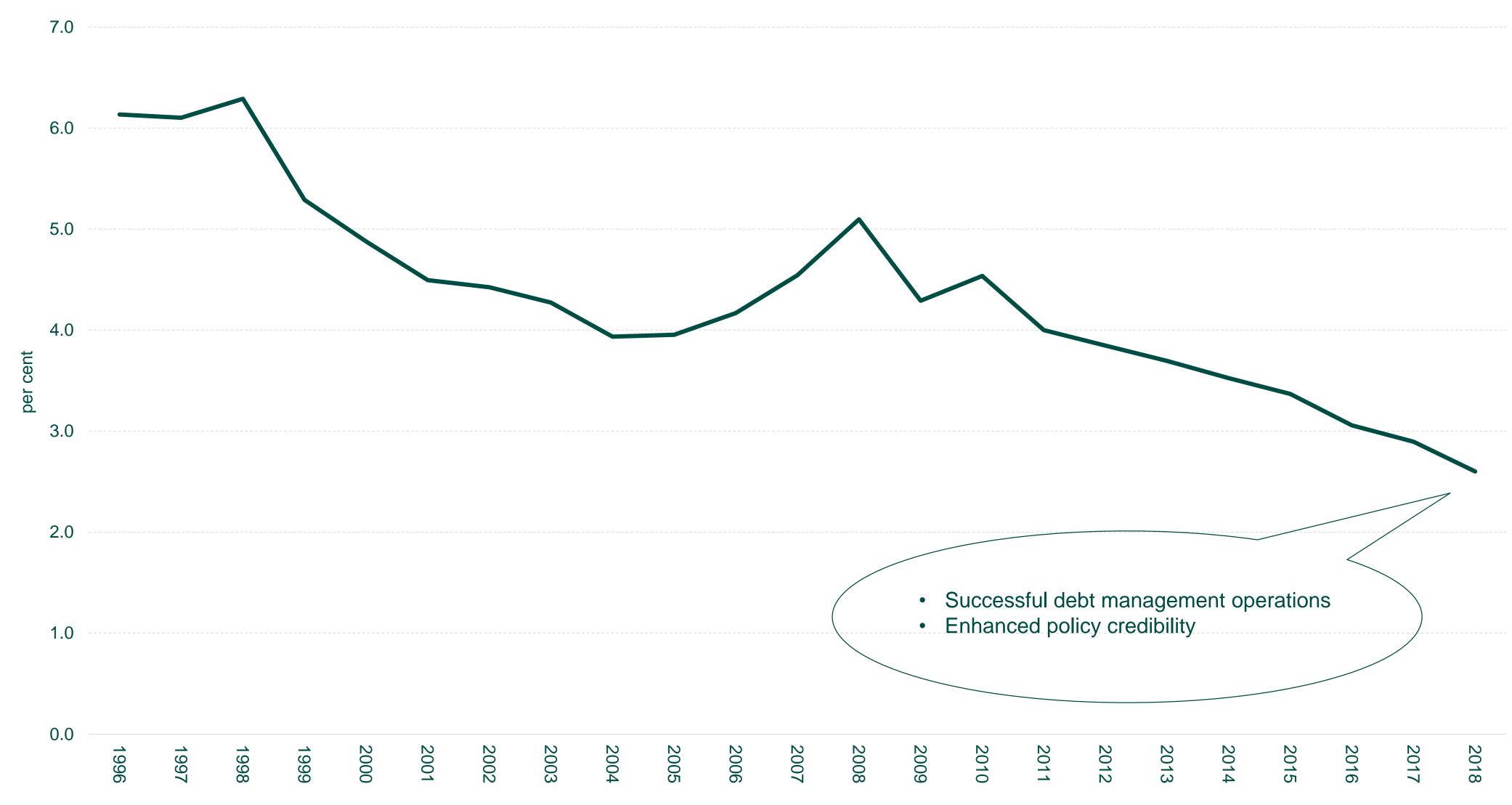
Composition of Irish debt, end-July 2018, € billions





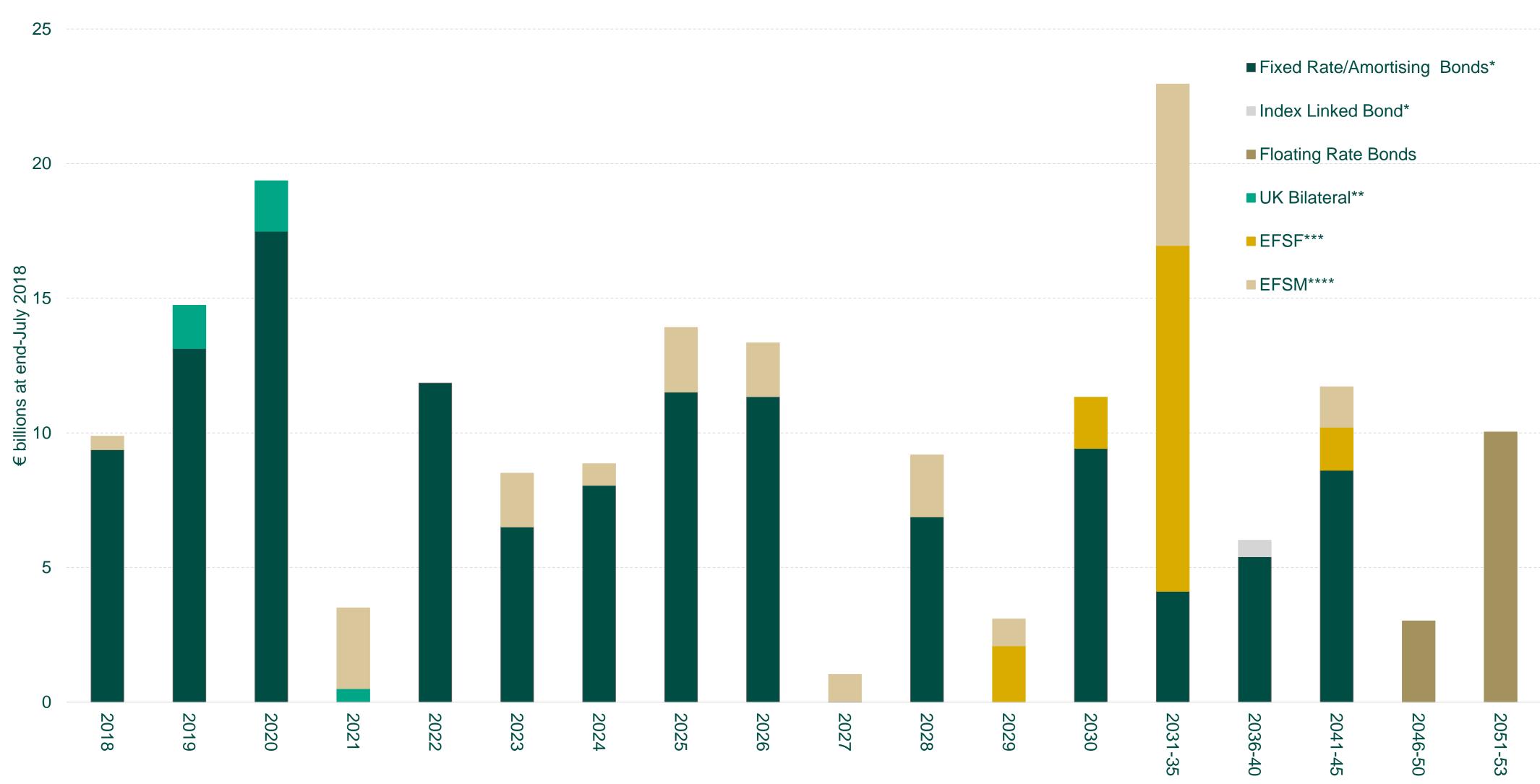
Effective interest rate on Irish public debt





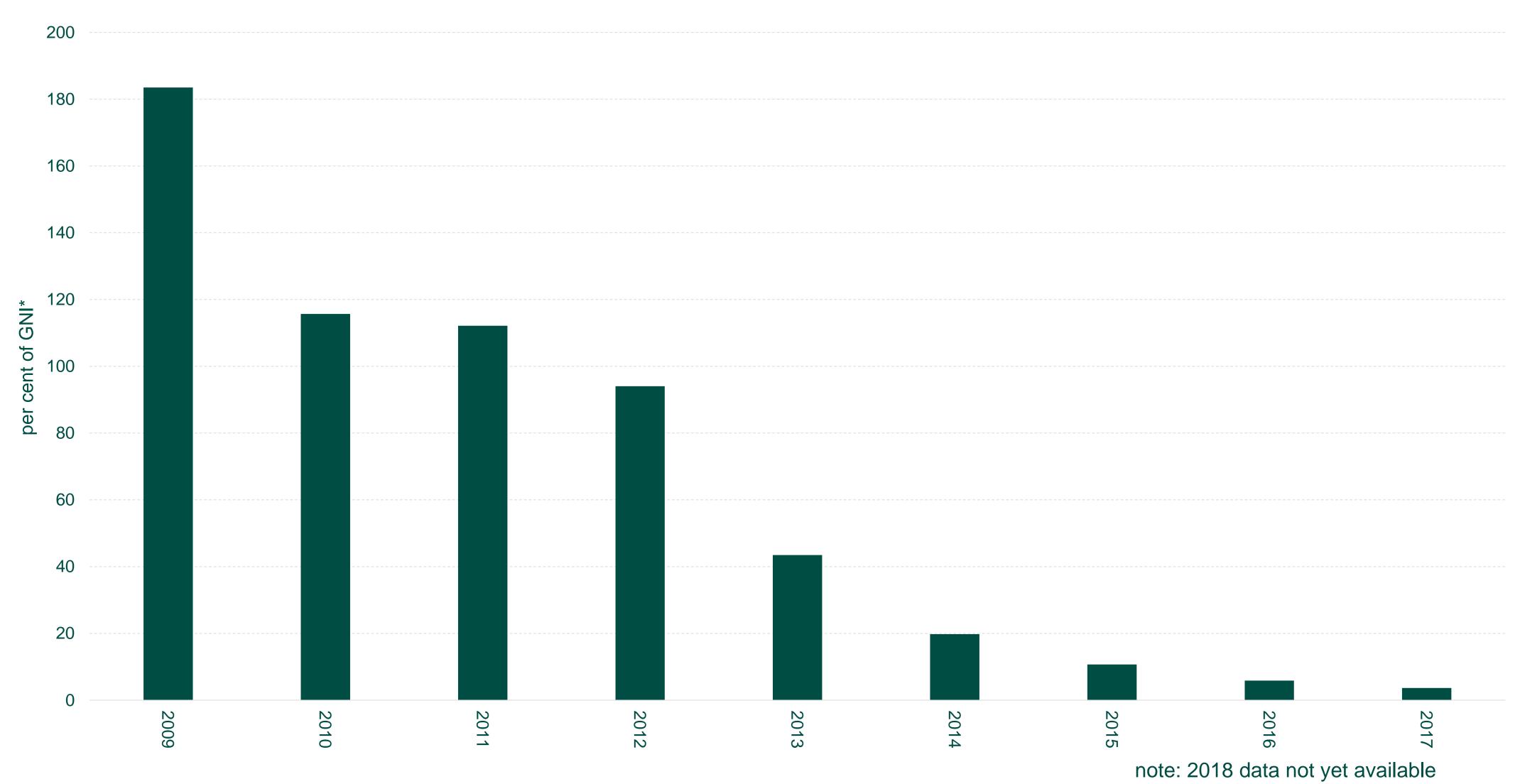
Maturity profile of Irish government debt





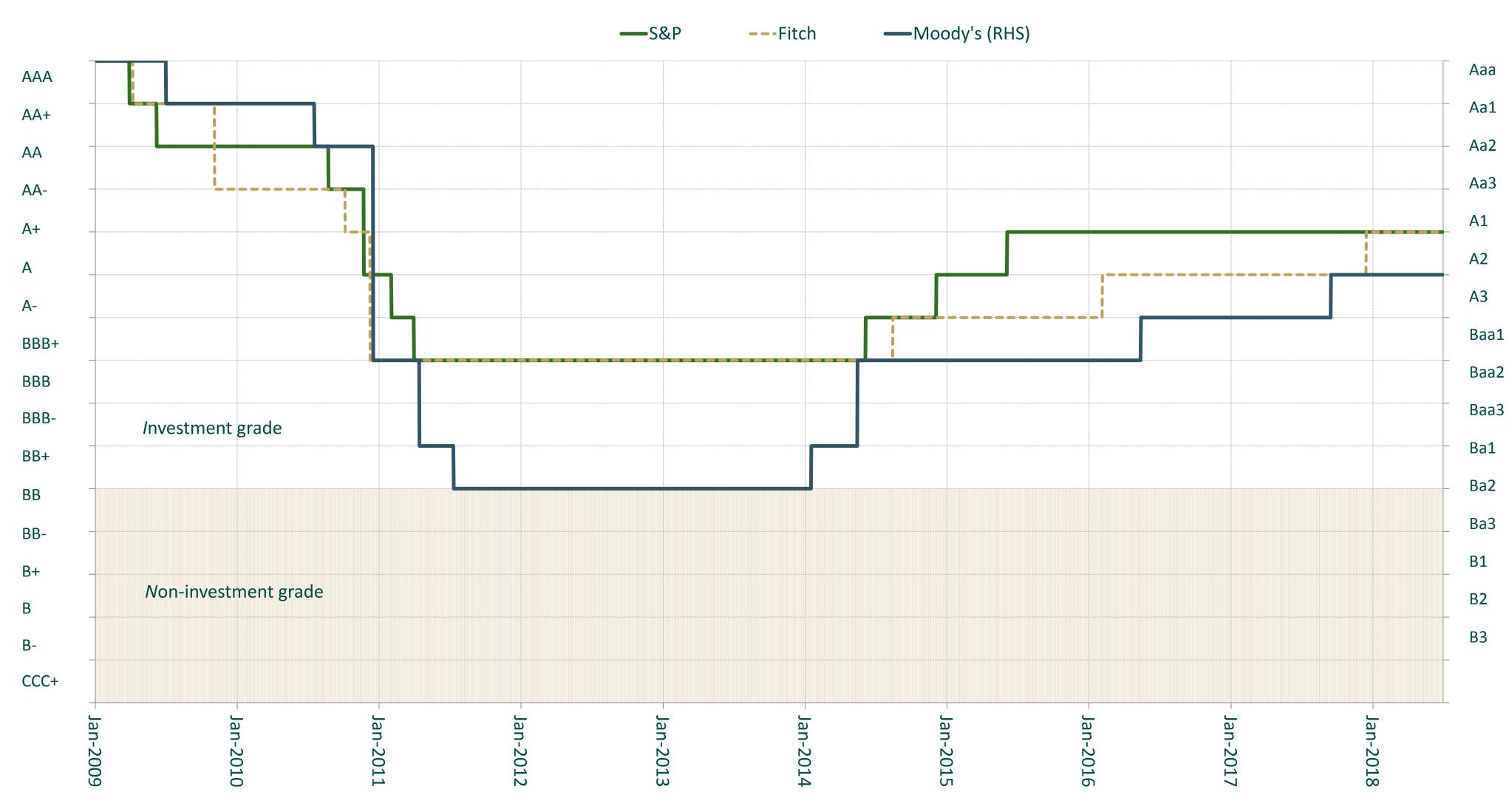
Contingent liabilities – almost eliminated





Creditworthiness has been restored





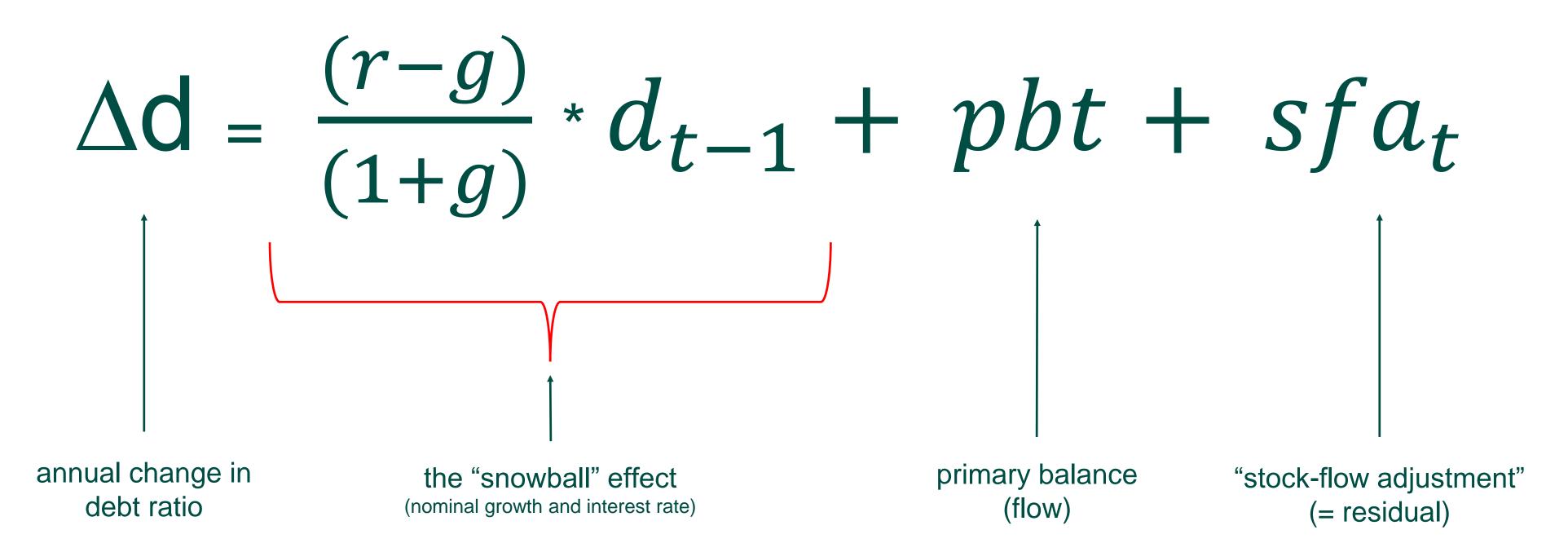


Economic aspects of public debt

Reconciling the stock (debt) with flow (balance)



- standard debt accumulation equation
- role of economic growth : (r g) = vital
- Blanchard (2018) American Economic Review



Growth damaging effects of public debt



Transmission channels

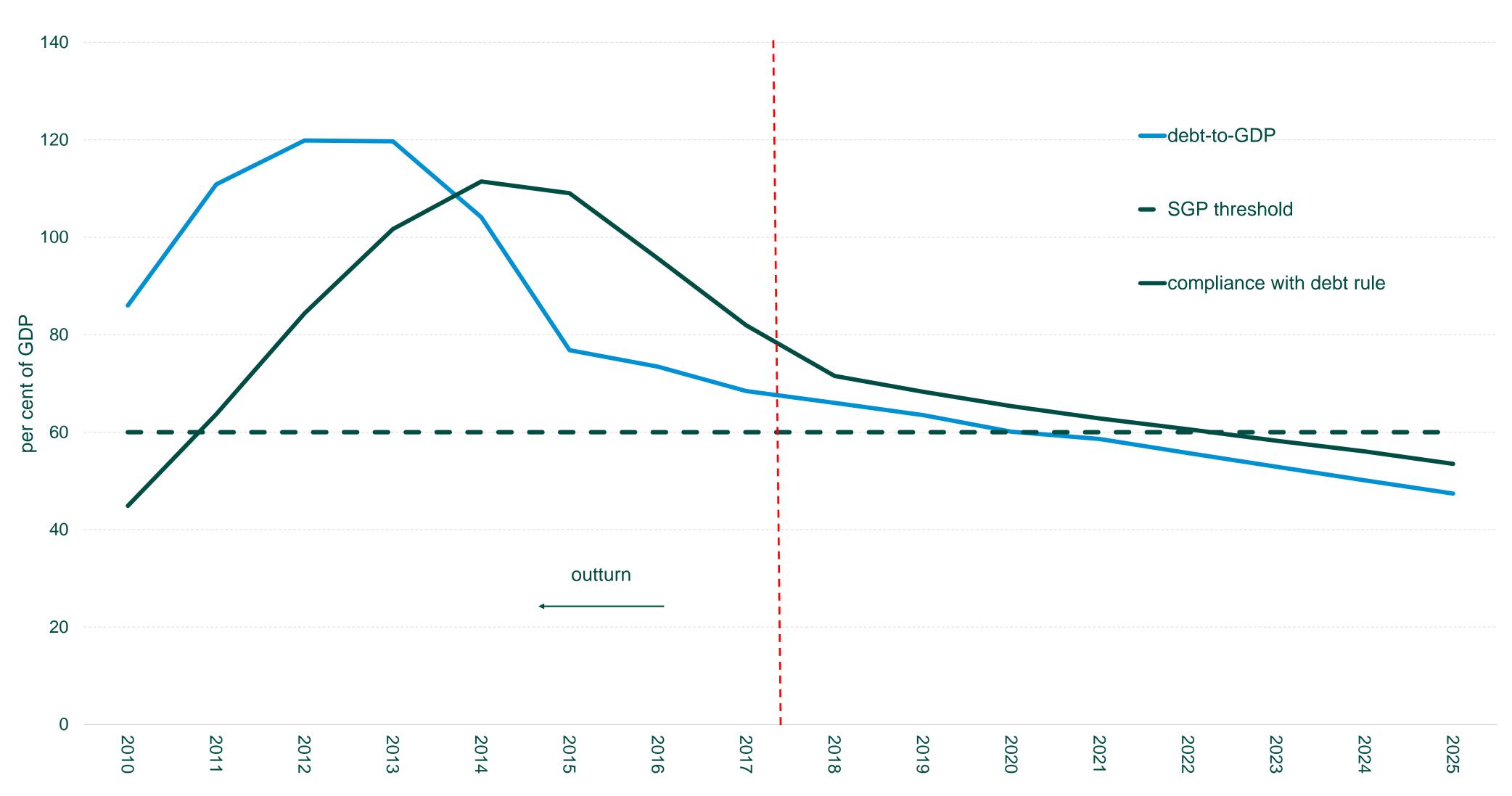
- Reduces room for manoeuvre
 - automatic stabilisers / discretionary
 - amplify the cycle (hysteresis effects)
- Diverts resources from productive areas to debt service
 - 'first charge'
 - potential growth
- 'crowding out channel'
 - higher interest rates
- Inter-generational equity

Threshold effects?

- Considerable academic debate
 - no consensus

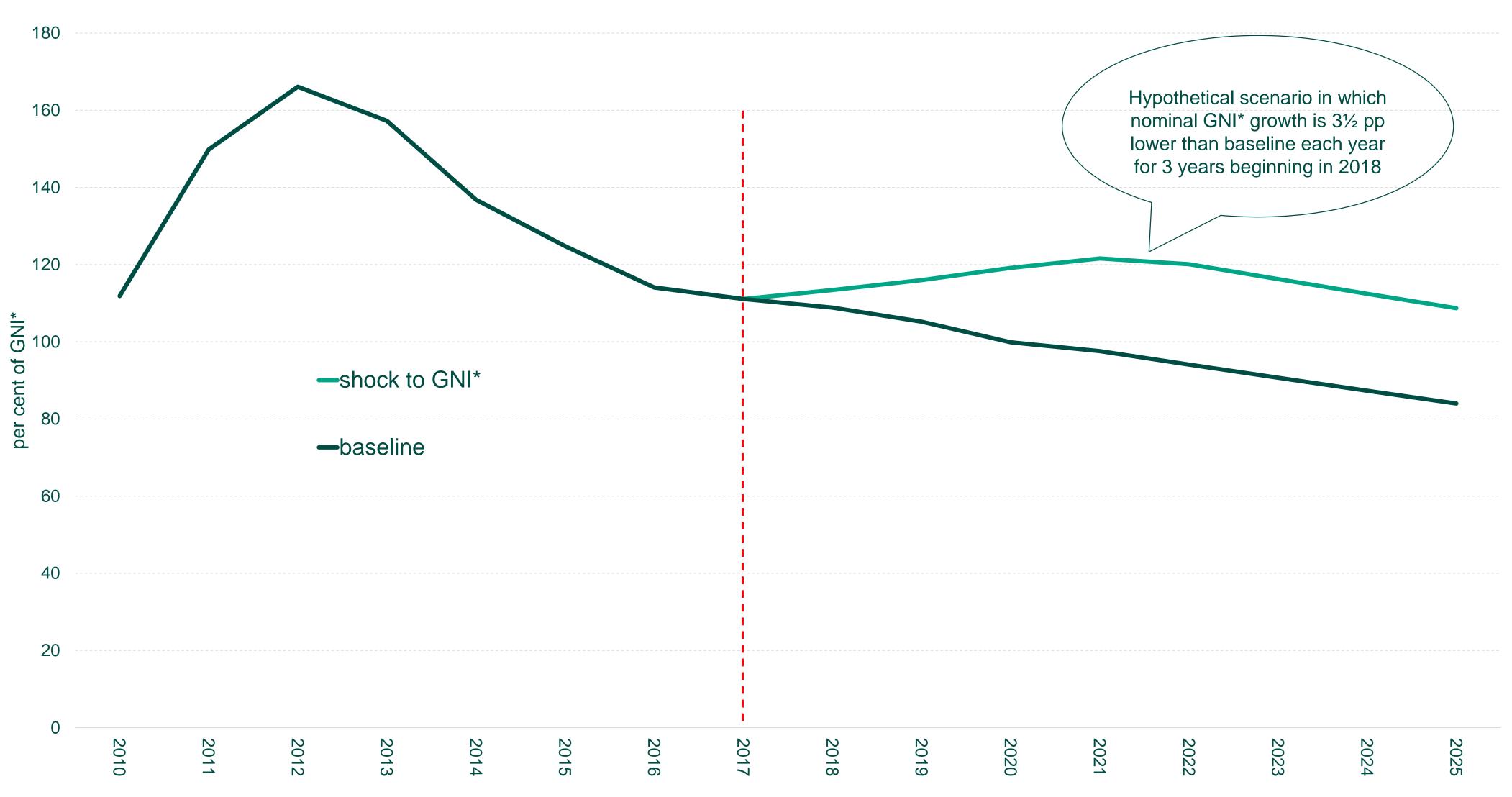
Stability and Growth Pact: 1/20th debt reduction rule





Debt sustainability analysis: GNI* shock





Enhancing the toolkit – heat map indicators



Deviation from compliance	LR Average (p.p)	Threshold	Min (p.p)	Max (p.p)	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
GG Debt GDP	5.2	60.0%	-32.2	47.2															
GG Debt GNI*	11.9	60.0%	-19.0	70.8															
3% Deficit rule	-1,1	-3.0%	-29.0	5.8															
Structural Balance (CAM) real time **	-2,2	-0.5%	-9,5	3.2															
Structural Balance (CAM) ex-post **	-2,3	-0.5%	-10.4	1.7															
Structural Balance (ALT) **	-2,2	-0.5%	-11.4	1.9															



Conclusions

Conclusion



- Surge in Irish public debt due to "twin crises"
 - part banking-related
 - but mostly fiscal
- Policy has put debt ratio on downward trend
 - consolidation
 - debt management
- Crucial that debt burden continues to be contained
 - ending of QE (rollover needs)
 - market view can change rapidly
 - ageing population

Disclaimer and other information:



The views expressed in this presentation are those of the presenter and do not necessarily reflect the views held by the Department of Finance, the Minister for Finance or the Government of Ireland.

The analysis set out in this presentation is based on "Annual Debt Report" published by the Department of Finance (September 2018). Some of the figures have been updated, taking into account the Departments latest forecasts and estimates as set out in "Economic and Fiscal Outlook", published by the Department of Finance at the time of Budget 2019.

Outturn data are sourced from a variety of sources including the Department of Finance, Central Statistics Office, European Commission (AMECO) and Central Bank of Ireland.

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