

EU INDEPENDENT FISCAL INSTITUTIONS

ROLE OF IFIS IN ASSESSING THE SUSTAINABILITY OF

HIGH PUBLIC DEBT IN THE POST-COVID ERA

26 FEB 2021 11:10AM - 11:50AM (CET)

EFB THIRD ANNUAL CONFERENCE



This paper was prepared by an ad-hoc working group of the Network of the EU Independent Fiscal Institutions under the coordination of Esther Gordo (Independent Authority for Fiscal Responsibility, Spain) and Eddie Casey (Irish Fiscal Advisory Council).

The group included the Independent Authority for Fiscal Responsibility (Spain), the Irish Fiscal Advisory Council (Ireland), the Fiscal Council of Bulgaria (Bulgaria), the Council of Public Finances (Portugal) and the Secretariat of the Network of EU IFIs.

This paper has been reviewed by the EU IFIs Network. The analysis and views expressed do not necessarily represent the positions of individual members of the Network.

Context Role of IFIs Reflections & Insights



Widespread debt increases; some worse than others



Debt ratios and vulnerable employment



Note: % of GNI for Ireland Source: European Fiscal Monitor, September 2020. Note: Employment in "vulnerable sectors" refers to accommodation, food and beverage services and retail sectors. Sources: Eurostat Q4 2019 data; and European Fiscal Monitor, September 2020.



Likely to result in historically high ratios

Government debt ratios 1900 - 2020



Dif percentil 90-percentil 10

2020

Note: % of GNI for Ireland for better comparability

Source: Historical Debt Database (IMF), European Fiscal Monitor, September 2020 and European Commission AMECO Database.



Assumptions in recent Debt Sustainability Assessments

Nominal marginal interest rates (i)

Nominal output growth rates (g)

Steady state/long-run interest-growth rate differentials assumed (i-g)







Notes: The timing of steady state/long-run values assumed differed by respondent. For IE, this refers to 2050; for ES, there is no such steady state estimate but from 2027 to 2050, there is a range of variation of -/+ 0.5 points from i-g of -1%; for CY, this refers to 2033; for CZ, this refers to 2030; for DK, this refers to 2050; for NL, this refers to 2060; for SK, this refers to 2070. Source: Network of EU IFIs (2020)



Heightened sensitivity

Despite low interest rates, high debt ratios mean greater sensitivity to changes in interest rates and shortfalls in growth:

$$\Delta D_t = D_{t-1} \underbrace{\frac{(i_t - g_t)}{1 + g_t}}_{PB_t} - PB_t + SF_t$$

Issuance at long maturities helps mitigate risks.

But surge of age-related and health care spending will complicate debt reduction.



Heightened sensitivity: when i-g changes





Debt Sustainability Analysis (DSA)

- Historically high debt ratios,
- Heightened sensitivity to interest and growth changes
- Unprecedented monetary support
- Need to give reassurance that debt is sustainable
- Emerging consensus on debt anchor in rules

→ DSA becomes even more important

- We analyse EU and IFI practices + build on survey of EU IFIs
- Shed light on DSA roles that IFIs fulfil



DSA in the EC, ECB and IMF

European Commission

Only supranational European inst. publishing regular DSAs

Methods published in 2014 & 2016

Enhanced role with ESM

ESM relies on EC DSA

ECB

Produces for internal use Methods published 2015

IMF

Revised its DSA framework in 2011

New framework planned 2021



DSA in the EC, ECB and IMF

No consensus definition of debt sustainability across institutions

IMF definition (used by ECB too):

"...sustainable when the primary balance needed to at least stabilise debt under both the baseline and realistic shock scenarios is economically and politically feasible...consistent with an acceptably low rollover risk and with preserving potential growth at a satisfactory level..."

Since financial crisis, increasing number of indicators & multidimensional approach

Heat maps, etc



DSA in the EC, ECB and IMF

Deterministic: baseline uses

- own GDP growth forecasts (e.g., WEO);
- growth converges to potential;
- interest rates rely on market expectations;
- inflation converges to ECB's reference value;
- primary balance = no-policy-change (ECB assumes measures taken to meet SGP requirements).

Stochastic: EC based on variance-covariance matrix of historical shocks (Berti, 2013); IMF and the ECB rely on VAR modelling.

Sustainability indicators: S0, S1, S2 indicators to get 60% including ageing costs

Gross financing needs

Thresholds (EC: 60%, IMF 85% and 20% for Gross Financing Needs)

Context Role of IFIs Reflections & Insights



Wide range of mandates

NL CPB	Macro: Official		Budget: Ov		wn DSA: By mandate		andate	
ES AIReF	Macro: Endorse w/	own	Budget: Own		DSA: B	y mandate		
LT NAO	Macro: Endorse w/	own	Budget: Own		DSA: B	y mandate		
PT PFC	Macro: Endorse w/	own	Budget: Own		DSA: B	y mandate		
SK CBR	Macro: Assess w/ c	own	Budget: Own		DSA: B	y mandate		
AT FISK	Macro: Assess		Budget: Own		DSA: By mandate	2		
DK DEC	Macro: Assess w/ o	own	Budget: Own		DSA: Own			
IE IFC	Macro: Endorse w/	own	Budget: Own		DSA: Own			
IT UPB	Macro: Endorse w/	own	Budget: Own		DSA: Own			
SI SFC	Macro: Assess w/ o	own	Budget: Own		DSA: Own			
SI IMAD	Macro: Official		DSA: Ow					
CZ CNFC	Macro: Endorse		DSA: By mandate				\sim	
LV FDC	Macro: Endorse		DSA: By mandate					~1/3 have official
GR HFC	Macro: Endorse w/ own		Budget: Own					
GR PBO	Macro: Endorse w/	own	Budget: Own					mandate for DSA,
CY CFC	Macro: Endorse		DSA: Own					
DE ABSC	Macro: Endorse		Budget: Own					while another 1/3
RO RFC	Macro: Endorse		DSA: Own					
BU BFC	Macro: Endorse							do on own
EE EFC	Macro: Endorse							in it otive
FI EPC	Macro: Assess							Initiative
FI NAO	Macro: Assess							
FR HCPF	Macro: Endorse							
HU HFC	Macro: Endorse							
LU NCPF	Macro: Assess							
MT MFAC	Macro: Endorse							
SE FPC	Macro: Endorse							
HR FPC								
NL RVS								Noto: Mandatos rolating to n

Note: Mandates relating to macro, fiscal and debt sustainability analysis forecasts Source: Network of EU IFIs (2020)



DSA a common feature of mandates

- This can be through short- or medium-term DSAs
- It can also be through long-term assessments of fiscal sustainability



Some challenges faced

Challenges (% of total respondents)



Note: For forecasting, respondents were asked "What were the main challenges you faced in terms of forecasting during Covid? Importance (from 1 - unimportant to 5 - very important). For DSA, respondents were asked "What were the main challenges related to debt sustainability analysis? How would you evaluate their importance?" On average, 13 IFIs responded. Source: Network of EU IFIs (2020).



Practices evolving in light of Covid

Shift to IFIs using new analytical approaches (% of total respondents)



Notes: Respondents were asked: "Did the new forecast distinguish between baseline and OWN scenarios?"; "Did your institution use new sources of high frequency data?"; and Did you change the methodology of your forecast due to Covid-19?". On average, 14 IFIs responded. Source: Network of EU IFIs (2020)



DSA as practised reveals IFI preferences

DETERMINISTIC

- Simplest
- Most common: 9/15 IFIs practicing DSA rely on it
- But
 - well-documented optimism bias (Guzmann and Heymann, 2015): g -> potential, fiscal adjustment feedback downplayed
 - endogeneity issues (growth and revenue; spreads; inflation)

STOCHASTIC

- Captures uncertainty
- Less common: 6/15 IFIs
- But
 - assumes history is good guide to future dynamics/uncertainty;
 - less clear narrative;
 - uncertainty widens quickly;
 - how to reflect ageing + climate change?



Stochastic DSAs can come with very high uncertainty

Stochastic debt projection ranges (percentage points, 10th-90th percentile)



Commission's (2020a) Debt Sustainability Monitor 2019.

Source: Network of EU IFIs (2020); and European Commission Debt Sustainability Monitor 2019.



Example: DSA in Spain post-Covid





Example: DSA in Ireland based on pre-Covid data

"Maq" – a macro-fiscal model that produces stochastic DSAs

3 key eq'ns: growth, marginal interest rate; and Phillips curve; feedbacks between macro and fiscal side

% GNI*, gross general government debt

180

 160
 Latest Post-Covid scenario

 140
 ----- Extended Budget 2021

 100
 ----- Extended Budget 2021

 100
 Unlikely

 80
 ----- Extended Budget 2021

 60
 ------ Central

Context Role of IFIs Reflections & Insights



Some Reflections

Deterministic and stochastic DSAs both important

- Deterministic for scenario analysis, such as in Covid era
- Stochastic when things are steady (no clear scenarios to emphasise)
- Complementary role

IFIs have responded by changing their modelling approaches and assumptions about growth and interest rates

But deep questions remain: lasting impacts on growth from pandemic; persistence of low interest rates; appropriate policy



Practical insights

IFIs should :

- (1) be upfront about their growth and interest rate assumptions and open to alternatives;
- (2) continue to develop scenario analysis and stochastic DSAs;
- (3) bring greater transparency to fiscal measures introduced;
- (4) develop medium-term projections where these are lacking; and
- (5) remind us of the long-term fiscal challenges that have not gone away



CONTACT US

EMAIL - SECRETARIAT@EUIFIS.EU

PHONE - 32 2 229 3932

WEBSITE - WWW.EUIFIS.EU

ADDRESS - 1, PLACE DU CONGRÈS, BRUSSELS

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