r-g<0: Can We Sleep More Soundly?

MAURO AND ZHOU

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Overview

Global r has been declining.

Public debt accumulates *autonomously* at a rate of *r-g*

If *r-g* < 0, do we no longer have to worry about debt?

Mauro and Zhou: Not so fast.

r-g < 0 is the norm, not an irregularity*r-g* doesn't predict default

Excellent data work

Convincing on both counts

Conceptual Framework

Accounting identities \rightarrow

$$\Delta d_{t+1} \approx (r-g) \ d_t + def_t$$

Debt will decline as long as growth-interest differential *sufficient to cover deficits:*

$$(g-r) > \frac{def}{debt}$$

Application: USA

Past 10 years	<u>Currently</u>
g(nominal) = 4%	g(nominal) = 2%
r(nominal) = 2.5%	r(nominal) = 1.8%

- g r = 1.5% g r = 0.2%
 - < <

Deficit/Debt = 8%

Deficit/Debt = 6%

g-r vs. Deficits: High Income



g-r vs. Deficits: High Income



g-r vs. Deficits: Developing



g-r vs. Deficits: Developing



Conceptual Problems with Debt Sustainability Accounting Exercises

Given r, g, deficit: debt sustainability merely accounting

But r, g, deficit are all determined in equilibrium:

• g ←→ deficit

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• Multiple equilibria in r

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Multiple Equilibria in r



Cf. Calvo (1988); Cole&Kehoe (2000); Aguiar et al (2012).

Political Equilibrium in Deficit and r

Policymaker equalized marginal benefit and cost of public debt

- Marginal costs: probability of default or spiking risk premia
- Marginal benefits: benefits of \uparrow public spending and \downarrow taxes

With low *r-g*, optimizing policymaker will increase deficits until prob(crisis) outweighs economic/political benefit of deficit

Reduced risk doesn't follow from low *r-g*