

Public Finance

Public Debt

Importance of public debt policy

- Revenue and Expenditure policy only part of the story
- Public debt policy is another major component
- Some plausible doubts
 - Why debt? Why can't government expenditure be limited to revenues?
 - What is the rationale for debt-financing?
 - What is debt-sustainability? How to achieve it?

Topics

- Need for public debt
- Theoretical views
- How public debt influences macro-economy
- Extent of the public debt
- Dangers of public debt
- Debt sustainability

Need for public debt

Justification

- Debt-financing smoothens the financial requirements of capital expenditure,
- Government capital expenditure
 - ·Lumpy in character.
 - Non-remunerative in the short run
 - Revenue flows, smooth in nature.

Justification

- Debt-financing helps realizing faster growth.
 - •Growth with current revenues alone would be sub-optimal.
- Tustifications same as in the private household or corporate sectors.

Theoretical views

Classical views

Depended on their faith in the role of the government. (Say, Smith, Ricardo, Malthus, Bastable ...)

- Debt financing
 - withdraws funds from productive use.
 - easier and less painful than taxes; unbalanced budgets therefore invite irresponsible governmental action.
 - makes future financing more difficult by increasing the taxes to finance the interest on the debt.
 - costly; may lead to currency depreciation.

Ricardian Equivalence

- It does not matter whether a government finances its spending with debt or a tax increase,
 - •because the effect on the total consumption and the level of demand in the economy remains the same.

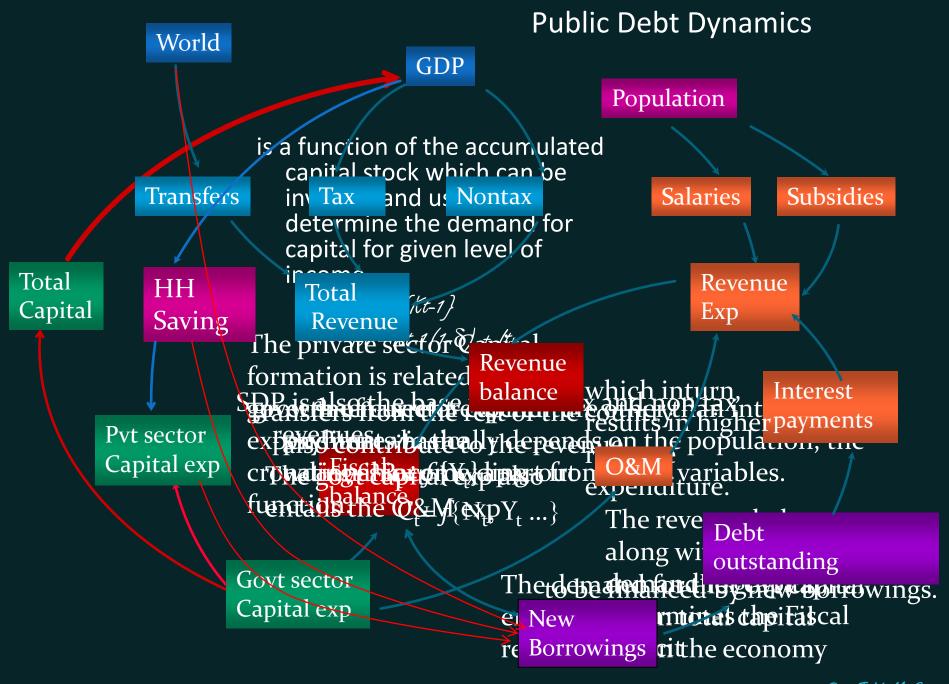
Assumptions seriously challenged

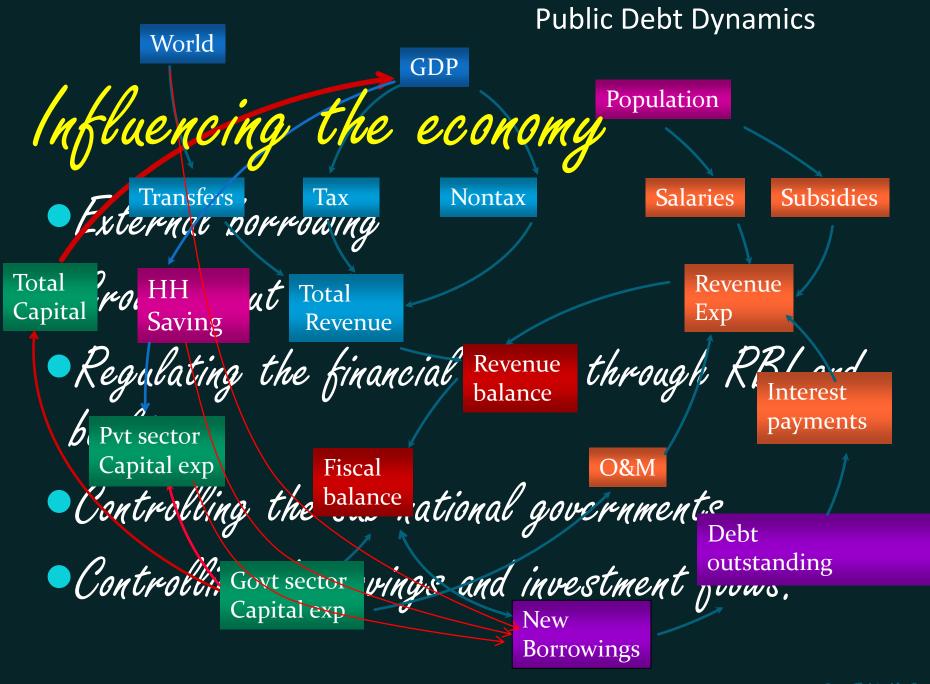
- Financial markets must be efficient
- Agents must be rational maximizers.
 - Ricardo himself doubted that this proposition had practical consequences

Keynesian No burden view

- Government can tap savings through public debt, put resources to productive use and bring about an increase in national income leading to more tax revenues to service the debt.
- At times of unemployment, public debt contributes to capital formation.
- Promotes development of institutionalized sources of savings like banks, stock markets and insurance companies,
- Helps curb consumption, encourages savings and promotes capital formation and makes it possible to improve standard of living.

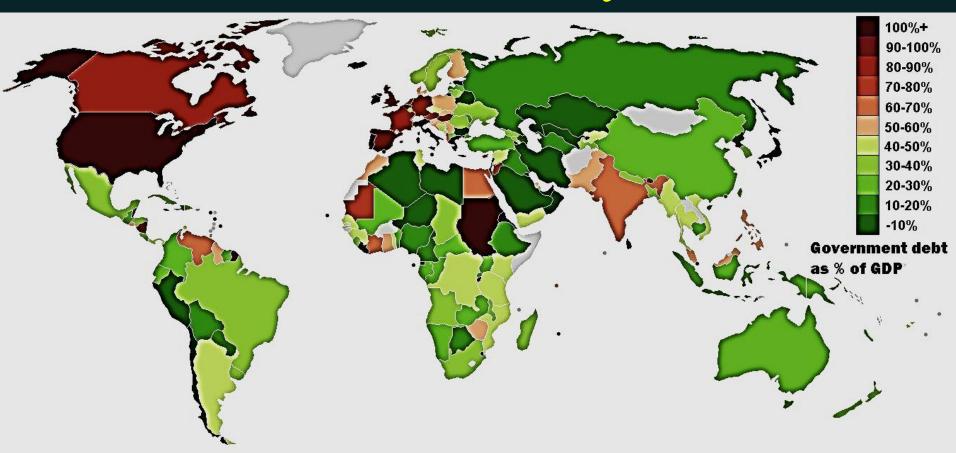
How public debt influences the economy



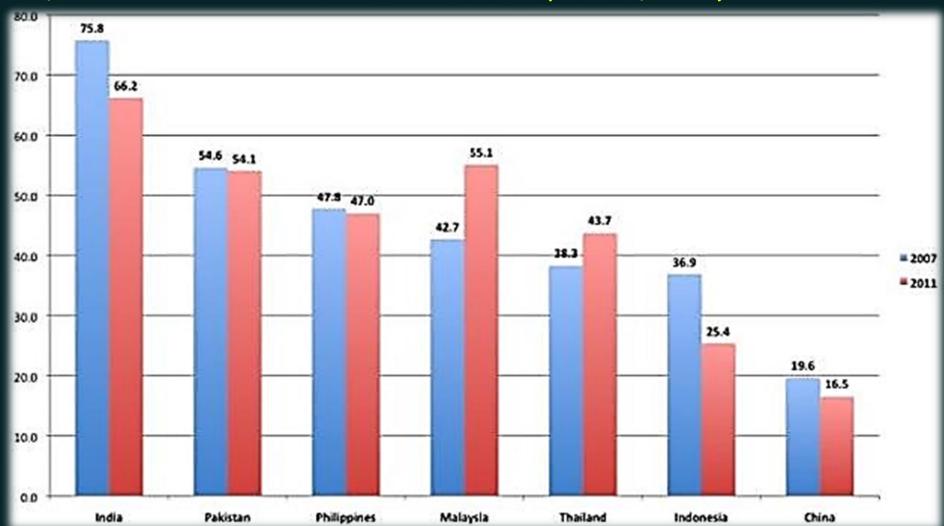


Extent of public debt

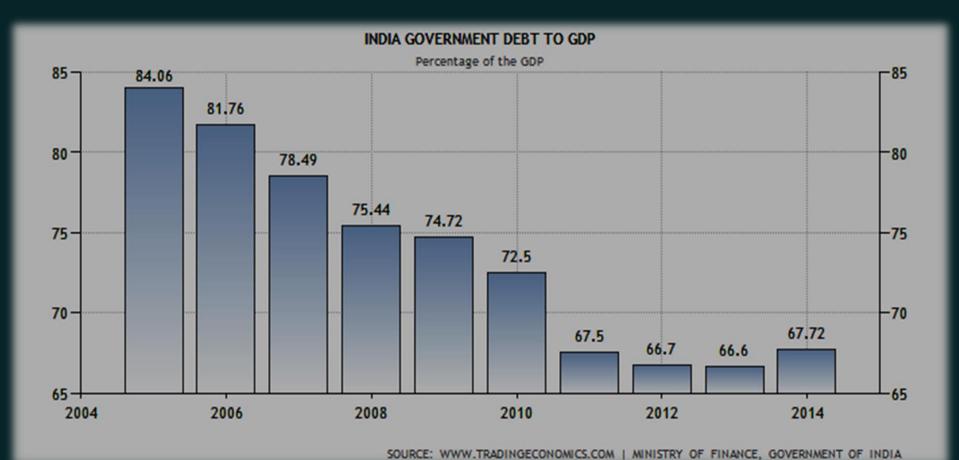
Government debt as % GDP by IMF



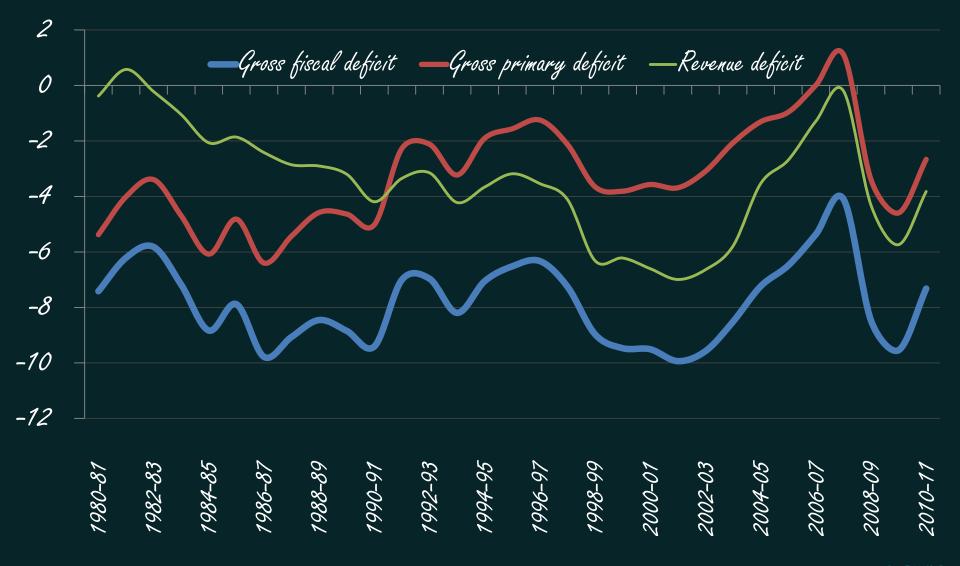
Gross Public Debt in Asia (% GDP)



Extent of government debt in India

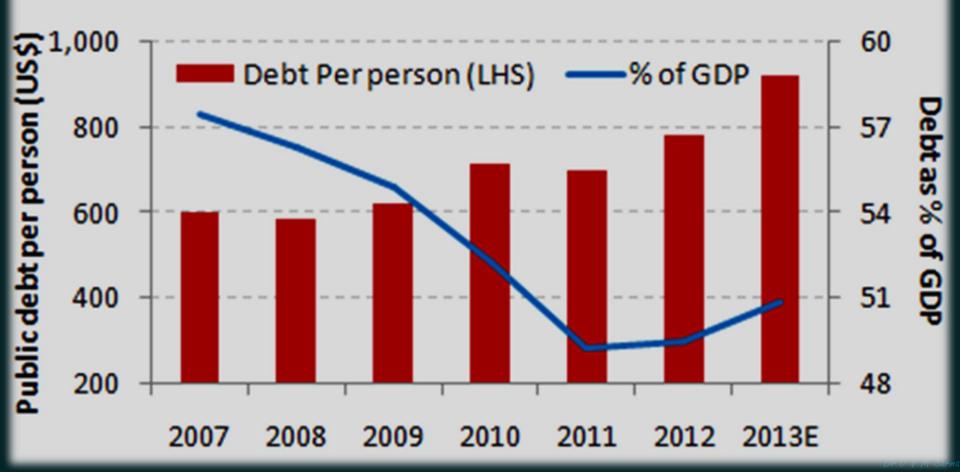


Fiscal balances (% GDP)

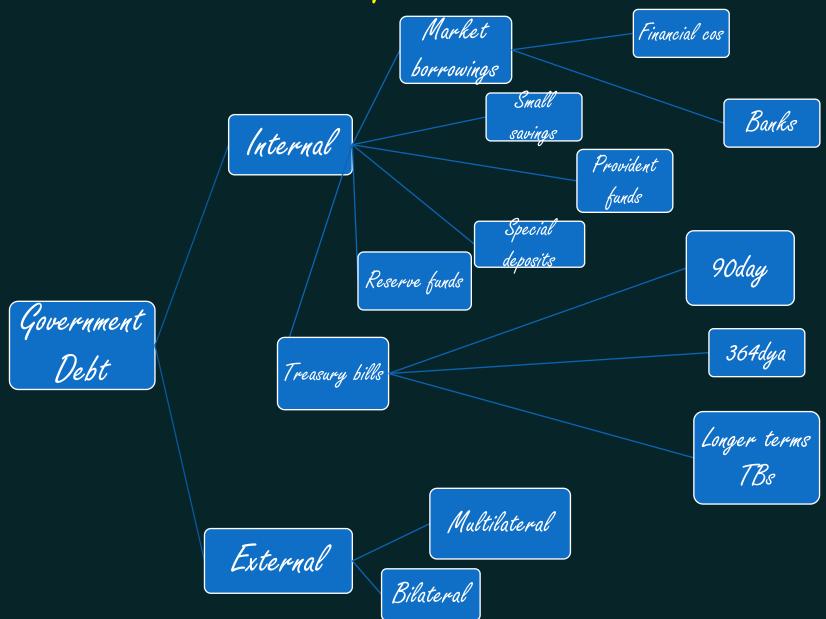


Percapita Public Debt

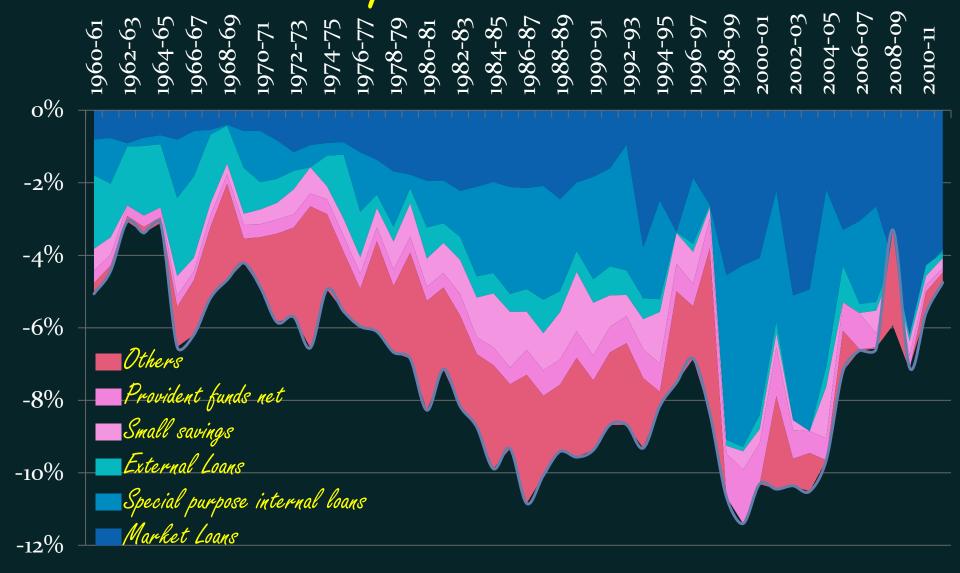
India's public debt growing faster than population



Government debt composition - India



Public debt composition



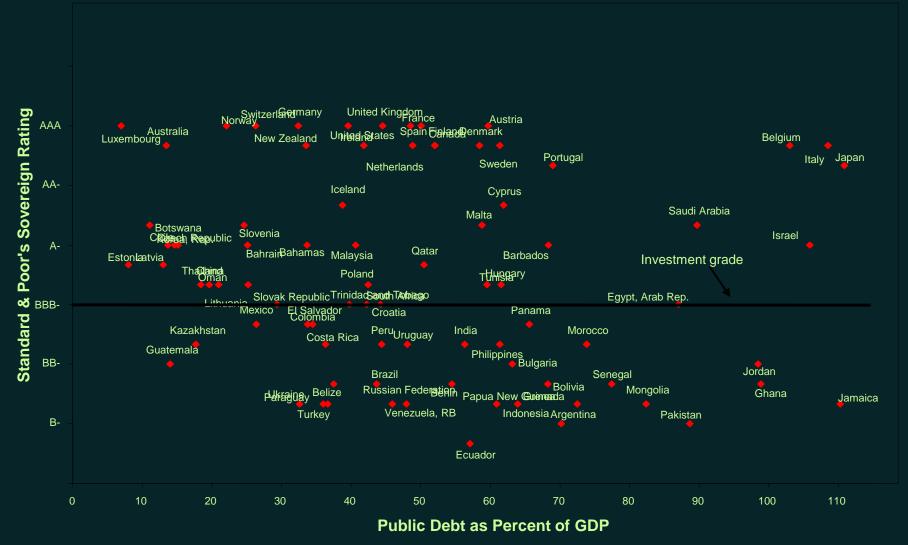
Hidden debt

- Contingent liabilities (22,4 trillion)
 - Guarantees
 - Indemnities
- Technical Committee on State Government Guarantees (1999)
 - eselectivity in the provision of guarantees,
 - institution of ceiling,
 - setting up of guarantee redemption funds
- Pension funds (unfunded)
- Implied debt due to Banks (underwriting)



- Crowding out
- Increases tax burden of future generations
- •Can lead to raise in interest rate, makes private investment costlier
- Interest payments of government cuts into welfare expenditure allocations
- Low credit-rating of the country.

Sovereign rating (1995-2000)



Source: Jaimovich and Panizza (2006) and Standard and Poor's

Dr J V M Sarmo

It is like this



Public debt sustainability

Debt-Sustainability

- Role of Seignorage
 - Non-inflationary money creation
- Primary deficit
 - If primary deficit less seignorage is zero, then, the debt will grow with the interest paid
 - because the government is simply borrowing to pay the interest,

• The budget identity for the non-financial public sector can be

$$X+iB = \Delta S+\Delta B$$

where

X = primary deficit,

iB = the sum of interest payments on the existing debt, B,

 ΔS is the 'seignorage', and

 ΔB is the increase in the interest-bearing debt.

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Using lower case letters for proportion of GDP
and writing GDP = PY
             (real × price level),
x+ib = \Delta s + \Delta B/P4
                                                    - (1).
Since B = bPY, and writing P' = \Delta P/P, and Y' = \Delta Y/Y, it follows
\Delta B = P4. \Delta b + bP4 (P'+4'), or
\Delta B/P4 = \Delta b + b (P'+4').
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Thus, eqn (1) becomes

$$x+ib=s+\Delta b+b(P'+4'), or$$

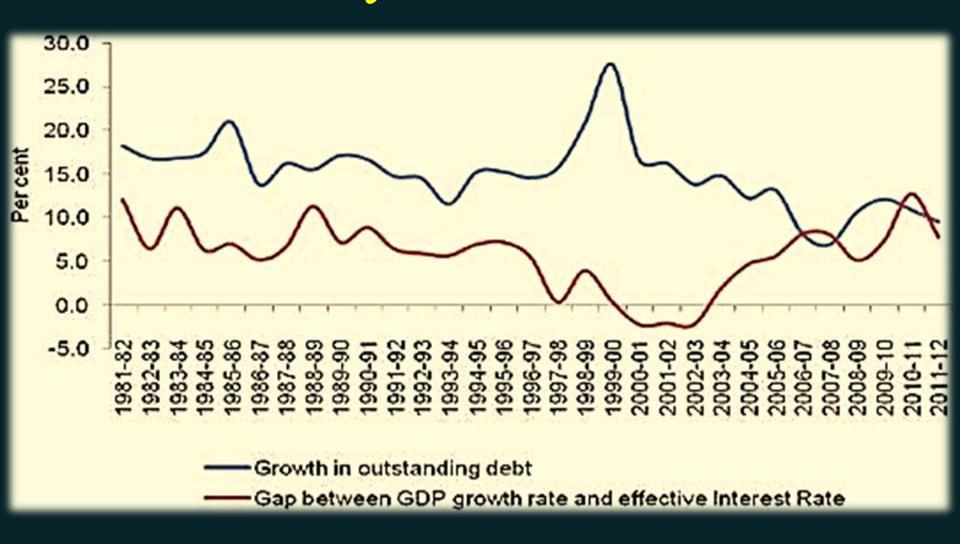
$$\Delta b = x + ib - s - b \left(P' + 4'' \right).$$

Further, defining the real interst rate as r = i-P', we have $\Delta b = x + b \left(\mu + P' \right) - s - b \left(P' + q' \right)$ $\Delta b = x - s + b (r + P') - b (P' + 4')$ $\Delta b = x - s + b \left(r - 4 \right)$ - (2). Thus b may reach a limit when $\Delta b = 0$, and the limit will be - (3). $b = (x-s)/(9'-\mu)$

Condition for debt-sustainability

- Thus, if the rate of interest > the rate of growth of GDP, then debt-GDP ratio will grow.
 - New debt is sustainable still, if the return on new investment exceeds the interest rate,
 - provided that the debt-GDP ratio is not dangerously high,
- Interest rate=GDP growth, debt/GDP stationary
- Interest rate <GDP growth, debt is sustainable.</p>

Debt Sustainability - India



Concluding

We covered

- Need for public debt
- •How public debt influences macro-economy
- Extent of the public debt in India
- Dangers of public debt
- Debt sustainability



