

The Challenge of Fiscal Adjustment in a Democracy: The Case of India¹

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At the IMF/NIPFP Conference on Fiscal Policy in India
Taj Mahal Hotel, New Delhi, India
January 16-17, 2004

I. INTRODUCTION

India is in an enviable position. Growth is high, the external position is strong, inflation and nominal interest rates are low. Yet there is a nagging concern about India's large fiscal imbalances. With the general government deficit exceeding 10 percent of GDP and the public debt representing almost 4½ years of revenue, there are reasons to worry.

Public debts have a lot in common with unwanted pregnancies. They are usually the *undesired* and *delayed* consequence of actions undertaken *with other intents* by *more than one person*. If fiscal policy were decided by an individual, the consequences of revenue and expenditure decisions, and the fact that borrowing implies more debt service tomorrow, would be internalized. But fiscal policy is a multi-agent game. This creates a common pool problem, similar to what happens when an individual goes to a restaurant in a group and orders lobster, when alone they would have ordered a cheaper option, chicken. The only solution this problem is cooperation and coordination, and hence the new focus on budget institutions.

Moreover, public deficits and debts are the *undesired* residual of multiple revenue and expenditure decisions. In general, all participants understand that less debt is preferable to more, but they disagree on the corrective action. This lack of coordination generates a bias towards deficits and debt. Most countries that have large fiscal imbalances do not sing its virtues, but instead struggle with the complexities of dealing with the collective action problems involved. They hope to sort themselves out before the damage is too great.

India is a case in point. A central Fiscal Responsibility and Budget Management Law (FRBM) has been approved and some states are following suit. But in India, the job of convincing the politicians and society that adjustment is necessary is made more difficult by the apparent absence of any symptoms of fiscal illness. Yes, the debt burden is only comparable to crises the countries of Turkey and Argentina. But markets are giving no indication that they find it excessive: nominal interest rates are low and declining, international capital inflows are large, and banks have ample liquidity. Usually it is politically easier to resolve a crisis, once it happens than to prevent one. Will India be able to garner enough political agreement so that it can use the good times to correct its fiscal imbalances?

¹ The authors would like to thank Ashok Lahiri and Amaresh Bagchi for their thoughtful remarks in their discussions of the paper. We would also like to thank Krishna Guha and William McCarten for their comments, Fritz Pierre-Louis for able research assistance, and Nong Jotikasthira for her editorial help.

This paper studies three aspects of fiscal consolidation. First, it accounts for the lack of symptoms by pointing to some aspects that make India unique. However, the lack of symptoms is a double-edged sword: it makes crises less likely for any level of debt, but society is less responsive to fiscal imbalances, thus making the eventual problem much larger. Second, it analyzes

Table 1. India's General Government Finances in an Emerging Market Context

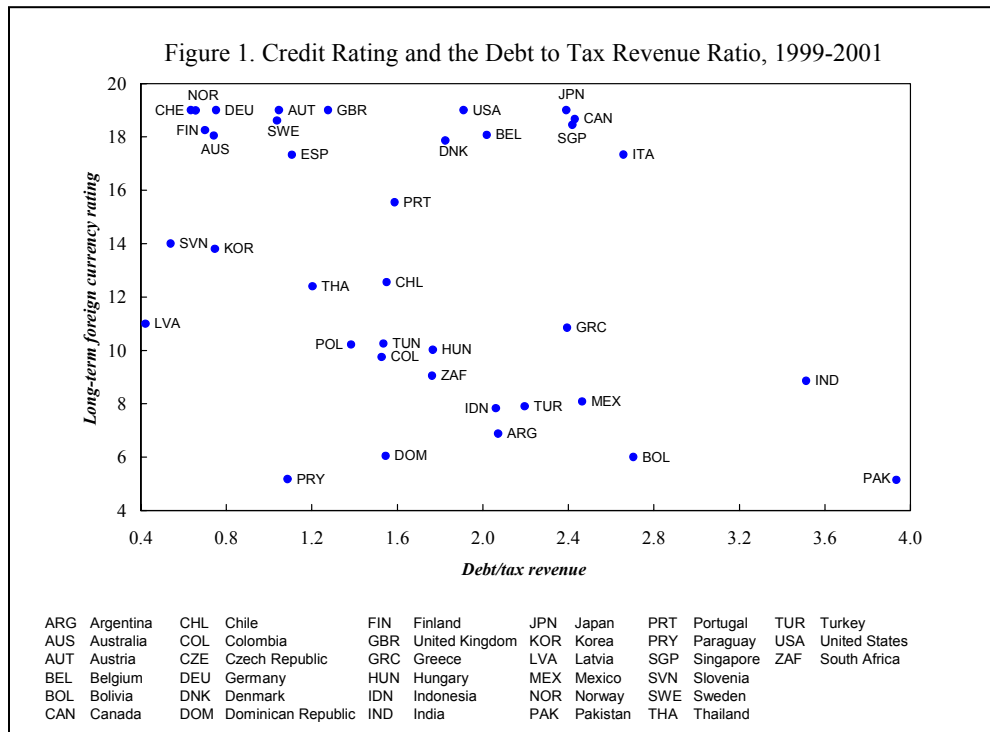
	Debt-to-GDP 1/		Debt-to-Revenue Ratio		Interest-to-Revenue Ratio	
	2002	1995	2002	1995	2002	1995
Turkey 1/	81.2	42.8	289.4	227.9	480.5	223.0
Argentina 1/	174.0	38.3	668.2	165.5	58.7	8.2
India 2/	80.6	71.0	441.2	387.3	34.0	27.3
Hungary	49.9	84.3	135.8	198.4	9.3	20.7
Philippines 1/	99.4	80.5	573.8	371.1	50.2	28.7
Brazil 1/	95.1	31.1	127.0	89.4	18.7	22.5
Indonesia 3/	80.6	29.0	414.5	191.3	28.7	12.0
Chile 1/	20.9	20.0	n.a	61.0	1.4	4.0
South Africa 3/	39.9	42.2	149.4	173.1	16.4	18.2
Russia	34.7	37.9	92.9	111.1	5.6	10.6
Ecuador 1/	57.8	39.7	223.9	268.0	13.8	17.9

Source: WEO.
 1/ Public sector.
 2/ For India gross debt.
 3/ Central government.

possible implications of the FRBM on India's imbalances. Finally, it studies India's federal system and the role of the states in the fiscal adjustment effort.

II. INDIA'S LACK OF SYMPTOMS

Elsewhere, the magnitude of fiscal imbalances in India would presage a fiscal crisis (Table 1). Yet, this is not happening. India's credit rating is better than many major emerging markets including pre-crisis Argentina and Turkey (Figure 1). But indebtedness ratios are a poor predictors of credit ratings: the indebtedness ratios of many emerging markets are comparable to those of highly rated industrial countries.



What other things beyond indebtedness ratios come into the picture in determining fiscal risks? To determine the relationship

between public debt and risk (or interest rates), it is useful to construct a simple model of fiscal risk. Suppose a country has a public debt service burden as a share of government revenue, labeled x :

$$x = \frac{iD}{\tau Y}, \tag{1}$$

where i and D are respectively the interest rate and the stock of government debt, Y is GDP and τ is the effective tax rate. Suppose for simplicity that the government will re-pay its debt provided the debt service ratio x is not larger than some maximum value \bar{x} . If it were larger, the government would simply default on the total amount forever.² This assumption is consistent with standard sovereign risk models, in which the government wants to maintain the net present value of government spending, and to avoid taxes and the costs of default.³ If the benefits of default, in terms of reduced debt service, rise faster with debt than the costs, then there will be an optimal point to default, namely, when $x = \bar{x}$.

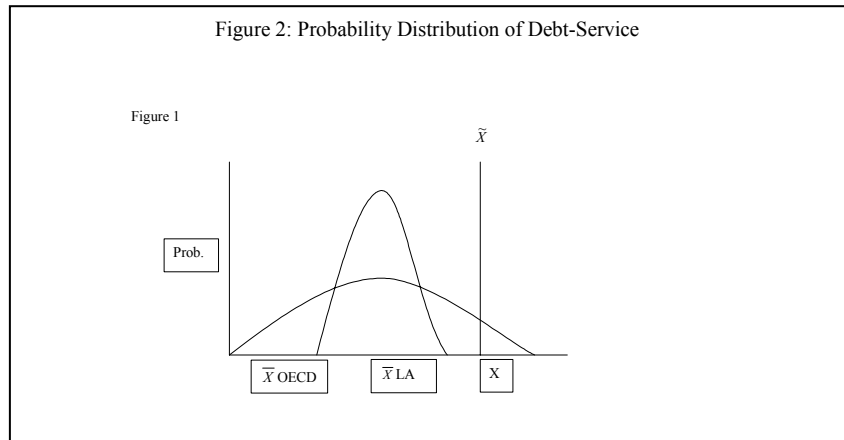
Investors are risk neutral and hence require the expected income from holding government debt to equal the risk-free rate ρ . However, government debt pays according to the following schedule:

$$iD \text{ if } x < \bar{x},$$

and $0 \text{ if } x > \bar{x}.$

In order for investors to earn the risk-free rate ρ , the contractual interest rate must be

$$i = \frac{\rho}{\text{Prob}(x < \bar{x})} \tag{2}$$



What are the determinants of the probability that $x > \bar{x}$? Figure 2 shows two stylized probability distributions of the value of x that differ in their volatility, but have the same

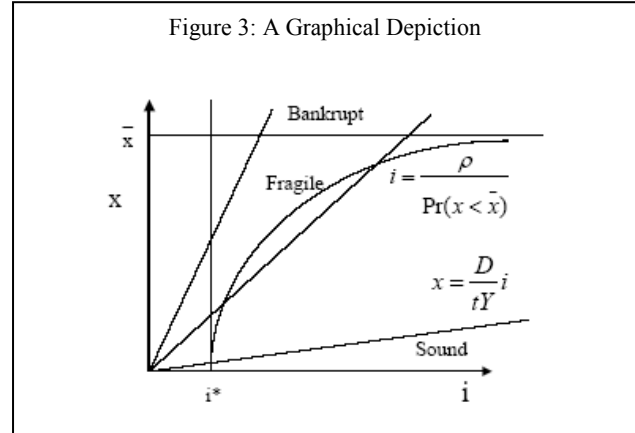
² In reality, the government would not default, nor would it stop paying forever. A more realistic default rule would only complicate the algebra without adding new insights.

³ See Eaton and Fernandez (1995) for a systematic survey of the literature on sovereign debt.

expected value of x . The risk premium must cover the value at risk, that is, in situations where $x > \bar{x}$. The narrow distribution (applicable to most OECD countries) has low volatility and negligible value at risk. The fatter distribution (relevant for many emerging market countries) has a significant part of the

distribution in which $x > \bar{x}$. The contractual interest rate has to be higher for the latter distribution, even though the expected value of debt service is the same. However, as the contractual interest rate increases, x rises.

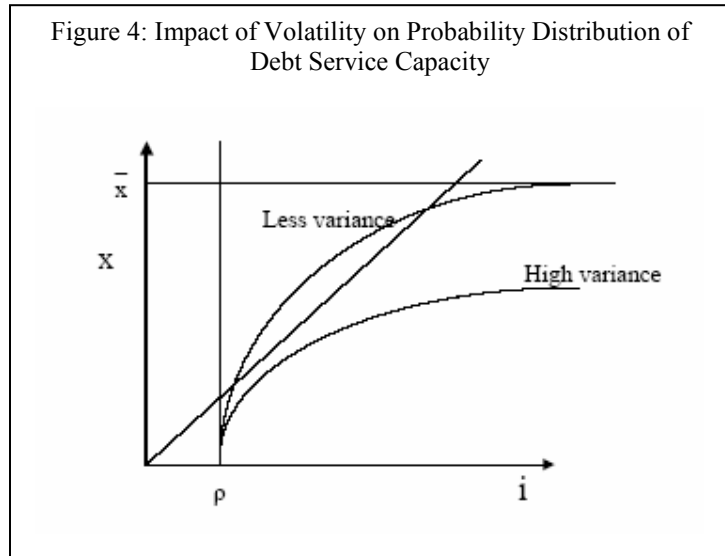
Equations (1) and (2) are depicted in Figure 3. The model is solved in x vs. i space. The vertical line represents the locus of points in which the interest rate i



is equal to the risk-free rate ρ . The horizontal line expresses the points at which $x = \bar{x}$. The ray from the origin is equation (1): it traces x as a function of i , with a slope equal to the debt-revenue ratio $D/\tau Y$. We draw three such rays at different $D/\tau Y$ ratios.

The hyperbola represents equation (2). For low values of x , the probability that $x > \bar{x}$ is essentially zero and hence i is very close to the risk-free rate ρ . For high values of x (drawn from a probability distribution) the probability that $x > \bar{x}$ increases and hence the interest rate must be higher. Obviously, at no point can $x > \bar{x}$, since in that case the government pays nothing. Equilibrium is determined where the ray crosses the hyperbola. As shown, at a low $D/\tau Y$ ratio, the equilibrium is very close to the riskless rate. At higher ratios, the ray crosses the hyperbola twice. This does not mean that there are multiple equilibria, as the second intersection is unstable: small increases in i cause a rise in x that is larger than what would be consistent with equation (2), causing thus an even larger increase in i until the government becomes insolvent. By contrast, in the first intersection, small increases in i lead to increments in x that are lower than would be consistent with equation (2), causing the interest rate to fall back. Finally, there is an even higher $D/\tau Y$ ratio in which the ray does not cross the hyperbola: there is no interest rate at which the expected return is ρ : the country is bankrupt.

Figure 4 analyzes the impact of volatility with two alternative hyperbolas. An increase in volatility (shown by a fatter distribution of x) implies a southeastern shift in the hyperbola. For a given $D/\tau Y$ ratio, higher volatility leads to bankruptcy, while at lower volatility the country has market access at a reasonable interest rate. Volatility may be a major factor in explaining why countries with the same debt-tax ratio have very different risk profiles.



One way to understand India's exceptionalism is to study the determinants of the volatility of x . Since $x=iD/\tau Y$, uncertainties in x must come from either the interest rate, the value of the debt, GDP or the effective tax rate. Consider first the volatility in the denominator, τY .

At just under 18 percent of GDP, India's revenue base is below the developing economy average of 26 percent of GDP, but it is far more stable. The volatility in India's revenue base is one-third of that of other developing countries, due to the low volatility of GDP growth (Table 2). A stable revenue base implies that India has a lower variance of x and hence for any given level of debt would have a

Table 2. Volatility of Tax Revenue, GDP, and Terms of Trade, 1990-1999 1/

(In percent)

	Tax Revenue Growth	GDP Growth	Change in Terms of Trade
(In local currency)			
Industrial countries	3.6	2	4.4
Developing countries	12.6	4.8	11.6
Latin America	11.8	4.6	10.7
Other countries	13	4.9	12
India	4.5	1.6	11.5

Source: Hausman (2003) and IMF staff estimates.
1/ For India, 1990-2002.

lower risk premium. But the lower volatility of growth and fiscal revenues in India is not just the consequence of aggregation across such a large economy. Braun, Hausmann and Pritchett (2002) find the average volatility of GDP growth in the states of India is similar to that of the United States and to the cross-country volatility in Western Europe, and is about a third of that Eastern Europe, Sub-Saharan Africa and Latin America.

Consider now the determinants of the volatility of the numerator of x , namely iD . Here it is useful to expand equation (3) to split the debt into three components: long-term, fixed-rate, domestic currency debt (l); short-term domestic currency debt (s); and long-term, fixed-rate foreign currency debt (f), so that

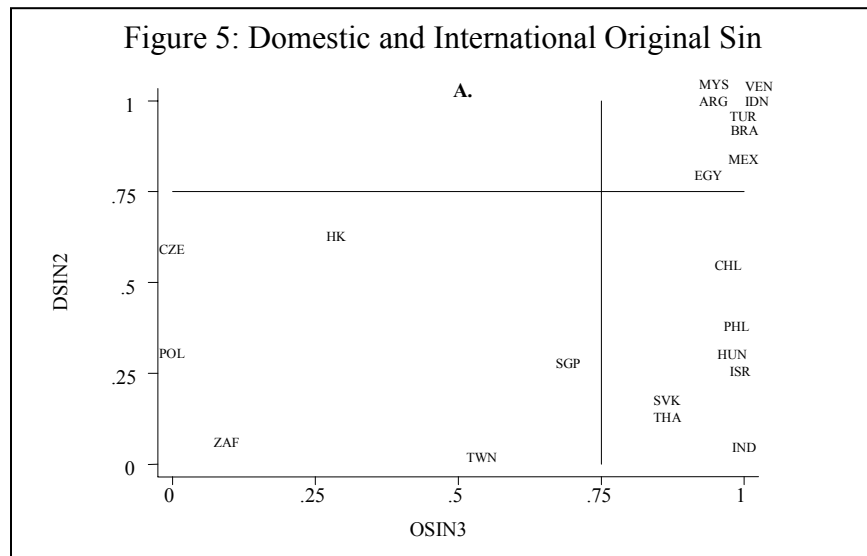
$$x_t = \frac{i_{t-1}^l D_{t-1}^l + i_t^s D_{t-1}^s + i_{t-1}^f e_t D_{t-1}^f}{\tau Y_t} \quad (3)$$

At $t-1$, the cost of servicing long-term, fixed-rate, domestic-currency debt is fully known, but the interest rate on short-term, domestic currency debt is uncertain and the exchange rate on long-term, foreign currency debt is unknown. This uncertainty impacts the volatility of x .

Most emerging market countries borrowing abroad cannot denominate their obligations in their own currency, a fact labeled original sin by Eichengreen and Hausmann (1999). Thus the real value of foreign debt is affected by movements in the real exchange rate. What matters then is the volatility in the dollar value of GDP, which reflects both the volatility in real GDP and the real bilateral exchange rate. Eichengreen and Hausmann (1999) shows the average volatility in dollar GDP growth in developing countries to be twice as high as the volatility in their real GDP growth and about 5 times the volatility of industrial countries.

Many emerging markets also lack a long-term, fixed rate, domestic-currency debt market, labeled by Hausmann and Panizza (2003) *domestic original sin*. They are forced to borrow at short maturities or at floating rates making debt service dependent on the short-term interest rate, which may be very volatile.⁴ Countries with both forms of sin find if they borrow in dollars, they expose themselves to real exchange rate risk, and if they borrow in local currency, they expose themselves to real interest rate risk. This can make the volatility in x truly large.

Figure 5 shows measures of the two forms of original sin: the ability to borrow abroad in domestic currency (OSIN) and the ability to borrow at home at fixed rates, long maturities and in



⁴ Hausmann and Panizza (2003) show that the volatility of monthly real short-term interest rates averages 10.5 percentage points in Latin American, and 0.9 percentage points in the United States.

local currency (DSIN).⁵ India is in the second quadrant with no ability to borrow abroad in rupees but one of the lowest measures of domestic original sin in emerging markets due to its deep long-term fixed-rate rupee market in government securities. Countries in this quadrant have a statistically significant higher probability of having exchange controls than countries in other quadrants. This suggests that countries with international original sin can only develop long-term domestic markets if they are sheltered from capital movements.⁶

While India suffers from international original sin, it has a very small foreign currency public debt. This implies that exchange rate movements *per se* do not have a significant fiscal impact. Moreover, the long duration of its domestic debt implies that shocks to the interest rate take a long time in affecting the fiscal deficit. Both characteristics may explain both India's low macroeconomic volatility and its high debt tolerance.

But complacency here may be misguided. First, while the public debt is long-term, a significant portion is held by banks that fund their positions with short-term deposits. Hence, in a scenario of a significant jump in long-term interest rates banks could lose a significant amount of capital. Patnaik and Shah, 2002, show that only 9 of India's 42 domestic banks would be adequately hedged in the event of a large positive interest rate shock. In such a scenario, a jump in long-term interest rates may precipitate a banking crisis. In such circumstances, the effective maturity of the public debt may not be much larger than the maturity of the deposits that are ultimately funding it. Resolving such a crisis would require eroding the real value of the debt through inflation. The low public tolerance for inflation in India may however prompt the government to take action before such a stage were reached.

The second reason why complacency may be misplaced is that India's tolerance for debt makes the political system and society as a whole less responsive to debt accumulation. Consider two countries. One has a very volatile x and the other has a very stable x . Assume both countries have unsustainable fiscal policies that will inevitably end in a crisis. The country with the lower variance of x will have the crisis at a higher level of debt. This may complicate the crisis when it happens and may lead to a permanently higher tax burden or lower primary spending in the post-crisis period. Just as with cancer, it may not be good in the long run to be symptom-free: it prevents the patient from taking early action.

⁵ From Hausmann and Panizza (2003). OSIN3 is measured as one minus the ratio of internationally placed securities in a country's currency to internationally placed securities by a country's residents, using data from the BIS. DSIN2 is the ratio of long-term fixed rate domestic currency securities to total locally issued securities using data from JP Morgan.

⁶ A country in the (i) top right-hand quadrant suffers from both forms of original sin, (ii) 3rd quadrant has low levels of both forms of original sin (iii) in the 4th quadrant can borrow abroad in its own currency and has a domestic long-term bond market.

III. ACHIEVING FISCAL DISCIPLINE: INSTITUTIONAL DETERMINANTS

A. Institutional Challenges in a Democratic Systems

Sustained fiscal deficits are usually the undesired outcome of complex multi-agent, or strategic interactions. Common pool problems occur at many levels. At cabinet between spending ministers, at parliament between individual representatives or parties in a multi-party coalitions, between states in a federal system. Each player has more to gain by securing more resources than what they may lose by accumulating excessive but shared debts.

The magnitude of common pool problems is deeply related to how choices are aggregated by the electoral rules and power arrangements designated by the constitution. Federal systems have more collective action problems than unitary systems. Electoral rules that give rise to many political parties, and hence to coalition governments, have more problems reigning in the common pool problems (von Hagen and Harden (1995). Proportional representation generates greater party fragmentation than first-past-the-post electoral systems.

Fiscal policy also suffers from agency problems as participants in the fiscal game have delegated authority from the public. The agent is supposed to decide in the best interest of the principal, but will typically skew choices to include his own interests. Corruption is a clear case in point. More subtly, governments can create electoral budget cycles. They engineer unsustainable fiscal expansions, in order to exploit the difficulty of the public in distinguishing between competence and profligacy in the short run.

Credibility problems also arise when plans are not time consistent. It is in the interest of the government to commit to keep inflation low so that the public will be willing to buy the debt at a low interest rate, but then it may have incentives to erode the real value of debt through higher inflation. Investors anticipate this and may demand a higher interest rate which only makes the higher inflation more attractive. Credibility problems may lead to inefficient equilibria of high inflation or interest rates.

Solving these coexistent problems involves difficult trade-offs. The common pool problem can be addressed by giving full fiscal powers to a single individual who would internalize all the externalities. However, this would create an enormous agency problem and would not allow choices to reflect social preferences. Adopting rigid rules, such as balanced budget rules may facilitate credibility but limit the flexibility needed to have a stabilizing response to shocks. A first-past-the-post electoral system provides more decisive mandates that may exhibit less of a common pool problem, but at the cost of leaving minority views under-represented. In practice, societies make choices that reflect these difficult trade-offs.

Institutional reforms provide mechanisms to assure cooperation and coordination. Alesina and Perotti (1995) classify fiscal rules to address these coordination problems into:

- *Numerical rules* such as balanced budget rules and deficit and debt ceilings.

- *Procedural rules* which define the respective powers of the finance ministry, cabinet, parliament, the national and sub-national governments in the budget processes.
- *Transparency rules* which determine who has the responsibility to make what information publicly known and through which entity.

The experience with reforms in these areas is still limited. Cross sectional analyses try to show that different institutions lead to different results.⁷ While the policy conclusions from this literature are suggestive it is hard to establish whether the experience of one country can be replicated in another while leaving much of the rest of its political and governmental institutions unaffected. Actual experience has been less encouraging. The Gramm-Rudman-Hollings Act in the United States did not deliver the agreed adjustment. France and Germany have broken the Stability Pact limits. Argentina and Peru numerical targets were quickly violated. Venezuela adopted an oil stabilization fund, whose rules it has changed eight times in less than a decade, so as to make them less binding.

The experience in Brazil and New Zealand seem more successful. New Zealand does not set any numerical targets. It adopts certain principles including reducing debt to prudent levels by achieving operating surpluses every year until *prudent* levels of debt have been achieved and maintaining debt at prudent levels by ensuring that, on average, over a *reasonable* period of time, total operating expenses do not exceed total operating revenues. It requires the government to take account of contingent liabilities and to recognize the value of having a reasonable degree of predictability about the level and stability of tax rates. The government is supposed to interpret what is reasonable and how longer-term goals are to be adjusted for cyclical events making these interpretations explicit in the published Budget. Actual deviations must be explained. Enforcement relies on the political or the capital market fallout if this discretion is abused. This may work in New Zealand, a small and relatively homogeneous country with a well-developed capital market.

In Brazil, all agents with budgetary authority are forced to respect the budget and sound principles through a system of sanctions. Rules apply to all levels of government. They make it illegal for entities to spend more than their allocated budgets and to accumulate so-called 'administrative' debt. Ceilings are placed on the proportion of the budget that can go into salaries. Governors or mayors found in violation of these principles can go to jail. The perception is that the Brazilian reform has allowed the government to make the budget a credible institution that actually binds government spending and its structure.

⁷ See Inman (1990) or Poterba (1994) for the United States, von Hagen and Harden (1995) for the European Union, Alesina, Hausmann, Hommes and Stein (1996), IDB (1997), Stein, Talvi and Grisanti (1998), and for Argentina see Braun and Tommasi (2004) for Latin America.

B. India's Fiscal Responsibility Institutional Reform at the National Level

India is also attempting to deal with its fiscal imbalances by reforming its budget institutions. After a three-year discussion, the FRBM Law was enacted 2003. Its key objective is to restore fiscal sustainability by setting a medium-term target to guide fiscal policy. The target is embedded within a framework that places increased emphasis on transparency. As such, it merges aspects of the frameworks of advanced countries, such as that in New Zealand, with the more rules-based approaches of the European Union and Canada.

The rule under India's FRBM possesses some features that set it apart from other emerging market fiscal responsibility frameworks. One key aspect is that, although the states' fiscal deficit is almost half of the general government deficit, the new framework only targets the central level of government. We will discuss the implications of this in the next section. In this section, we will concentrate on the issues arising at the national level.

The FRBM requires the central government to eliminate its revenue (or current) deficit by March 2008. This effectively allows the government to run a deficit to finance investment. The new rule may have the advantage of safeguarding capital expenditure from bearing the brunt of any adjustment effort as it has in the past. On the other hand, by opportunistically classifying current expenditures as capital, and by not requiring outlays to recoup the cost of capital, the rule may in fact leave spending and overall deficits quite unconstrained.

The procedural arrangements governing convergence to the FRBM target and for measuring and assessing compliance have yet to be put in place. To ensure the quality and durability of the adjustment, FRL (or their supporting regulations) are generally explicit on the accounting procedures for the fiscal policy target. In India, accounting and definitional procedures underpinning the law have been delegated to yet to be defined supporting rules.

Enforcement relies on the loss of reputation that the government experiences from not implementing the FRBM. There are no explicit penalties. Breaches of the ultimate medium-term target, or of the annual targets set under the supporting rules, are permitted for reasons of natural disaster, security or other circumstances specified by parliament. The Minister of Finance is only required to report to parliament on the accentuating circumstances after the targets have been missed. It is an open question under what conditions rules without explicit penalties can work. They seem to do so in New Zealand, but even in the European Union, penalties have been ineffective in assuring enforcement.

The FRBM employs more exacting transparency requirements and supplements the existing constitutional procedures governing budget processes. India's budgetary system has traditionally been hierarchical in nature, vesting strong powers in the Ministry of Finance vis-à-vis other ministries, and in the executive vis-à-vis Parliament. Once submitted, parliament can reduce or reject proposed expenditure, but it has no power to modify the composition or size of the budget deficit. Its powers to reject the budget are constrained. These elements should help contain the common pool problem, as the Finance Ministry has, in principle, a greater capacity to internalize the costs of public spending.

While preserving strong hierarchical powers of the Minister of Finance and the executive, the FRBM imposes greater transparency requirements. The executive now must submit to parliament additional documentation in support of its budget, including a medium-term fiscal policy statement assessing deficit and debt sustainability; a fiscal policy strategy statement articulating the key fiscal measures for the coming year; and a macro-economic framework statement. These should make the underlying budget assumptions and policy choices clearer.

The FRBM also strengthens the institutions governing budget execution and reporting. It requires parliament to approve corrective action through tax or expenditure measures during the budget implementation process to avert deviations from the fiscal target. New quarterly reports are to be submitted to parliament every quarter. The controller general of accounts will continue to compile budget implementation data (ex-post) using existing accounting definitions, while a special unit with the Ministry of Finance will analyze and prepare the reports on fiscal performance and compliance (again, ex-post).

However, the law does not establish an independent agency to assess compliance with the law on an ex-ante basis. In Spanish, the term “budget” is “presupuesto,” which comprises “supuesto” meaning assumption and the prefix “pre,.” Hence, “presupuesto” could be literally translated as pre-assumption or assumption squared. By strategically playing with the budget assumptions, the government can be in abidance of the law and then have a long list of explanations as to why targets were missed ex-post.

Assumptions about the macroeconomic outturn, revenue performance and expenditure are critical. If the estimating entity has an interest these estimates for other purposes, it may bias them to better achieve these goals. This was a serious problem under the Gramm-Rudman-Hollins Act in the United States when, the Office of Management and Budget, within the Executive, made the budget estimates. Every year the approved budget implied a projected deficit that was in line with the law. Every year the actual deficit exceeded the targets.

India’s track record suggests that budget estimates have not been unbiased. Over the past ten years, the actual central government deficit overshoot its budget target by 0.8 percent of GDP, with the actual nominal overruns in eight years (Table 3). The overruns were

	1992/93	1998/99	2002/03	Average	
				1992-2002	1998-2002
	(In percent of GDP)				
Deficits					
Budget	-3.8	-4.4	-5.5	-4.4	-4.9
Outturn	-4.8	-5.1	-5.9	-5.2	-5.6
Expenditure					
Budget	14.8	14.5	16.6	15.1	16.2
Outturn	15.4	14.5	16.0	15.0	15.4
Revenue					
Budget	11.0	10.1	11.0	10.7	11.3
Outturn	10.6	9.4	10.1	9.8	9.7
Deficit overrun in % of GDP (+)	1.0	0.7	0.4	0.8	0.8
Expenditure cuts % of GDP (-)	0.6	0.1	-0.6	-0.1	-0.8
Revenue shortfall % of GDP	-0.3	-0.7	-1.0	-0.9	-1.6
Overrun in % of expenditure	6.2	5.0	2.3	5.4	5.0
Real GDP growth	5.1	6.5	4.3	5.9	5.4

Source: Ministry of Finance, India.

the result of revenue shortfalls with respect to the estimated values and these were only partly

contained by expenditure compression. The revenue shortfalls—or optimistically biased revenue projections—were particularly acute in disinvestment where the annual budget regularly anticipated about ½ percent of GDP in proceeds, but only about one-fifth was realized.

The FRBM may increase the pay-off to this bias. Ensuring against unbiased estimates and opportunistic expenditure reclassifications are important elements of the institutional structure. Governments can change taxes and appropriations but as long they can achieve similar results by changing the estimates they will have a temptation to do so. This reduces the credibility of the budgeted figures and may complicate political negotiations.

Granting autonomy to the entity in charge of making the estimates can be a remedy. After the abuses under the Gramm-Rudman-Hollins Act, the responsibility for budget estimates was transferred to the Congressional Budget Office. Creating a similar independent entity—along the lines of India’s Electoral Commission—with the function of signing off on the quality of budget estimates and the appropriateness of its classification may increase the effectiveness of the FRBM, while making deviations at the time of budget execution more justifiable.

IV. THE CHALLENGE OF ACHIEVING FISCAL SUSTAINABILITY WITHIN A DECENTRALIZED FEDERAL SYSTEM

A. Institutional Dimensions of Federal Systems

Common pool problems are often exacerbated in a federal system depending on how five key dimensions of the federal relations are organized:

The power to tax: Federal systems tend to give pre-eminence to federal taxation and put in place a system of inter-governmental transfers due to the mobility of tax bases within national frontiers, the need for internal common market, and scale economies in tax administration.

The system of inter-governmental transfers: The transfer system can act as an obstacle to fiscal discipline. In systems that rely on shared taxes, any adjustment requires a more than proportional increase in taxes because the extra revenue must be shared with the lower levels of government, while national revenue shortfalls are transmitted to the sub-national level.

The power (or responsibility) to spend. Most important here is the clarity. Countries often assign joint responsibility to the national and sub-governments for the same area of spending allowing lower tiers to underfund these areas and extract greater resources from the centre.

The power to borrow: Due to problems of excessive subnational debt, borrowing powers are often restricted: 49 U.S. states have balanced-budget rules, Chile prohibits it, while others require national government approval. Aggravating matters is the tendency of national governments to bail out state governments in a debt crisis. This creates a moral hazard

problem, in which states allow themselves to run unsustainable deficits as a means to extract more resources from the national government when these debts become unsustainable.

The power to elect the sub-national government. State governments are often a political force in and of themselves, and may exercise influence through their state representatives in the national parliament. This can amplify the common pool problem.

Eichengreen and von Hagen (1999) argue that noncooperative subnational behavior is most probable in federal systems characterized by large vertical imbalances. They argue against such imbalances and for stable and predictable transfers to avoid transferring revenue uncertainty to levels of government least able to deal with them, and for clear rules-based revenue sharing arrangements to avoid political renegotiation.

All this suggests that a strategy to deal with the fiscal imbalance by focusing only on the national government may not work in India. Adjustments at the center may be compensated by higher state deficits as federal spending cuts may create further pressures for state spending. Lower government borrowing may make it easier for states to borrow. Cuts in federal transfers may increase state funding gaps while a more solvent federal government more leeway to bail out states. To analyze how these potential political economy distortions give rise to fiscal imbalances we examine the five dimensions of decentralization in India.

The Power to Elect State and Local Governments in India

Indian states possess a high degree of political autonomy. The 1993 Constitutional amendment added municipalities and rural panchayats to supplement the state tier of government. In contrast with many other decentralized systems, subnational government executives and legislatures are elected under first-past-the post system, although there are some efforts to ensure representation from minorities and women. This limits political fragmentation at each level. However, to the extent that party structures become regional, they may generate another form of political fragmentation at the national level, as in fact has taken place. State elections are held on a rolling basis across states every five years, are outside the national parliamentary election cycle and officials can be reelected. Issues of political organization usually trump fiscal issues in constitutional discussion, as they should. Keeping national unity is a prerequisite for any well functioning polity and hence should have precedence over fiscal issues, which can best be addressed through other rules and institutions.

However, it is useful to note the stresses political rules may pose. India's political system has demonstrably increased the focus on local issues, some argue at the expense of fiscal policy. Coalition governments are highly reliant on the support of state-level political parties who may negotiate support in exchange for additional fiscal resources or may complicate the achievement of consensus on reform priorities (McCarten, 2003; Roa and Singh, 2001). State governments also have veto powers on constitutional amendments (which govern the

assignment tax and expenditure functions) and constitutional reforms require a two-thirds majority in national parliament and approval by at least half of the state legislatures.⁸ In addition, the rolling election calendar implies that national coalition governments in India are subject to a perpetual electoral cycle, while strong anti-incumbency bias in state elections also suggests that politicians rarely face the consequence of their spending decisions.

Expenditure and Revenue Assignment

The constitution clearly assigns responsibilities between the state and central governments (see Hemming et al. 1997). The central government has strong powers, including the supremacy of central legislative power and the right to take over state administration in a state of emergency. Its functions primarily relate to macroeconomic management. States are assigned a wide range of responsibilities including health, education, power, irrigation, roads, rural development, public order. The Constitution prevents overlapping tax powers but it assigns taxes by source leaving the central government responsible for nonagricultural tax sources. Although states can raise taxes on agricultural and self-employed income, few do. Sale taxes are the most important revenue source for states.

Internationally, India is one of the most decentralized countries. Using the proportion of general government expenditure spent by the states, only China has a greater degree of decentralization (Table 4). Over the course of the 1990s, state governments in India increased their share of general government spending without taking on additional expenditure responsibilities. However, states revenue raising powers do not match their expenditure responsibilities. The share of total taxes collected by states is low, especially when compared to China. While states have broad powers to decide both the scope of the tax base and the tax rate most choose not to exercise these powers and compete for mobile tax bases by offering tax incentives.

Intergovernmental Transfers

Large vertical imbalances imply leave states in India highly dependent on central government transfers (Table 5). The constitution provides for a variety of transfers to states. The most important are shared taxes, which comprise about 60 percent of total transfers and about one third of total state-level taxes. The Constitution does not specify the revenue shares but instead provides for a Finance Commission (FC) to be appointed every five years to recommend how taxes are to be shared. The FC formulates its recommendations using projections of the shortfall between states' own-revenue collections and expenditure needs, and specifies a formula allocate these taxes among states. While shared taxes de-link expenditure decisions from the incidence of taxation, they also transmit the cyclical volatility to the states as demonstrated by the concurrent fall in central and state revenues since 1994.

⁸ The constitution grants the central government seniority when powers are concurrent.

Shared-taxes are supplemented by various grants, which are often determined in a discretionary manner. The responsibility for determining the size of grants transferred is split between two agencies. Traditionally, the Planning Commission (PC) “plan” or block grants for implementation of state-level development plans have been the largest. In recent years, the “grants-in aid” recommended by the FC to fill projected gaps between states’ own-revenue resources, shared taxes and non-plan expenditure responsibilities, and the “earmarked grants for central sponsored schemes” approved by the PC have become increasingly important (rising to almost 40 percent of the total).

	Measures of Central Assistance to the States				Vertical Gap 4/	Vertical Gap After Grants
	Grants from Centre as Share of Revenue	Grant Dependence 1/	Tax Sharing 2/	Tax Autonomy 3/		
(Average for 1990-1997)						
China 5/	53.4	36.9	n.a.	53.0	-0.7	-0.3
Denmark 6/	43.1	43.1	4.8	47.8	-0.1	-0.1
India's states	42.4	34.7	32.4	46.9	-38.5	-22.1
Australia	37.4	38.1	n.a.	35.9	2.4	1.6
United States	15.2	5.4	n.a.	55.0	5.4	3.9
Canada	13.6	12.6	n.a.	65.6	-9.5	-7.0
Argentina	12.4	11.5	64	79.1	-9.2	-8.1
Germany 6/	11.4	10.3	86.5	61.0	-9.2	-6.9

Sources: Government Finance statistics; authors' own calculations.

1/ Ratio of central grants to total consolidated expenditure of subnational governments.
 2/ Ratio of shared taxes from central government to total subnational tax revenue.
 3/ Ratio of tax revenue (including shared taxes) to total sub-national revenues, including grants.
 4/ Deficit as a share of sub-national non-grant revenue; a positive number implies a surplus.
 5/ Tax autonomy measured from GFS data for 1995-1999. Others measures use data reported in IMF WP/02/168 for 1990-1997.
 6/ Tax share ratios from Ebel and Yimax (2002).

The split in responsibility for grant allocations across two agencies results in the envelope for state grant assistance being determined in fragmented ad-hoc manner that largely depends on the availability of central government resources. As a result the size of transfers can vary widely year-to-year and often fall short of budgeted amounts. The rise in earmarked grants also implies that a growing share of spending is dictated by the central government, negating the efficiency gains from decentralizing expenditure decisions. And while PC grants are allocated among the states by Gadgil formula they do not address deficiencies in basic medium level of public service provision across states.

Table 4. Scale of Indian Decentralization in an International Context 1/

	Decentralization of: 2/		Change in Decentralization of:			
	Expenditure (Average for 1990-1997)	Revenue 3/ (Average for 1990-1997)	Deficit	Expenditure (Average 95-97 less average 90-94)	Revenue	Deficit
	(In percent of General Government)					
China 4/	81.5	59.7	-0.9	-3.3	-16.4	-17.1
Canada	58.8	53.0	3.8	0.7	0.2	-83.1
India's states	56.7	39.1	36.7	0.5	-2.0	4.4
Denmark	53.9	31.7	-1.9	0.8	0.4	-10.9
Australia	49.0	31.7	-75.7	-2.0	1.8	246.4
Argentina	45.6	39.1	177.4	-1.0	-0.4	-245.7
Brazil 5/	45.6					
United States	44.4	42.1	-48.2	2.7	-0.6	-79.7
Germany	38.8	33.8	43.8	-1.4	-0.4	4.9
Columbia 5/	39.0	...	...	...	...	...
Bolivia 5/	26.7	...	...	...	...	...
Mexico 5/	25.4	...	...	...	...	...
Average Latin America 5/	14.6	...	...	...	...	...
Average OECD 5/	34.9	...	...	...	...	...

Source: Government Finance Statistics, IADB (1997).

1/ Where data are available, subnational government includes both the state and lower levels of government.

2/ Subnational expenditure, revenue, or deficit as a proportion of general government expenditure, revenue or deficit.

3/ Excluding grants from the central government.

4/ For China, non-GFS data from Ahmad, Keeping, Richardson and Singh (2002) IMF WP/02/168.

5/ From IADB (1997).

It also gives rise to common pool problems. States have little incentive to increase their revenue raising efforts when they do not derive the full benefit of the extra resources in a revenue pooling system. They can reduce the tax burden on its citizens by increasing their reliance on transfers or they can offload additional spending costs onto others. Indeed, states' own-revenue has fallen by 1 percent of Gross State Domestic Product (GSDP) since the mid-1980s while expenditures have risen by $\frac{3}{4}$ percentage points of GSDP per annum.

Subnational Borrowing Autonomy

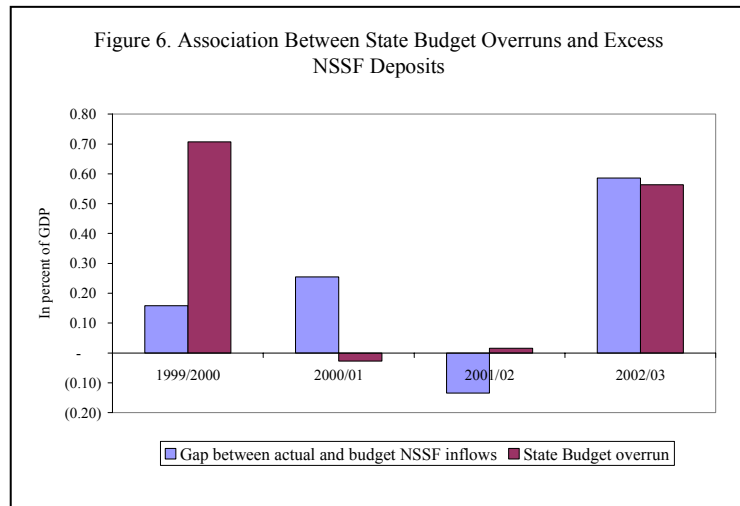
A system that leaves large vertical imbalances may still be contained by strict limits on borrowing by state governments. Many emerging market economies countries impose tight controls on subnational borrowing but India's borrowing regime allows state governments greater freedoms, except for foreign debt (Purfield, 2004). On an index of borrowing autonomy developed by Rodden (2002)—where 4 represents the most liberal regime and 1 the least liberal regime—India's scores 2.5 points, compared to 2.7 points for Germany, 3 points for the US, 3.4 points for Canada.⁹ Captive private savings, off-budgetary financing, and central government support for higher borrowing notwithstanding the central government's administrative control over states indebted to it, and extra-budgetary assistance allow states to borrow rather than raise revenue to close their financing gaps.

A large pool of captive domestic savings facilities state borrowing. Banks are required by statutory liquidity requirements to hold state-issued paper but market borrowing accounts for less than 15 percent of the

states' borrowing. The National Small Savings Fund (NSSF) is more important. It is required to invest 100 percent of its net collections in state paper and finances almost half of the state deficit. The growth in NSSF deposits has outstripped effective interest outlays, with the result that states have been able to borrow and effectively capitalize the interest cost of these funds.

There has been a strong

positive correlation between state deficit overruns and the excess of NSSF net deposits over budgeted targets (Figure 6).¹⁰ States' also make extensive use of guarantees, public owned



⁹ The index assesses the actual effectiveness of constraints on subnational borrowing.

¹⁰ McCarten (2003) suggests that similar correlation exists at the individual state level.

enterprises and financial institutions to soften budget constraints. State guarantees amount to 7¼ percent of national GDP, having grown by more than 40 percent between 1993 and 2000, outstripping the growth in official state level debt. Fiscal activities are also conducted by states off budget through various state owned financial corporations (SFCs) and utilities. This creates further mechanisms that weaken budget discipline and facilitate debt accumulation at the state level.

Making matters even more complicated, the Federal government has an established record of bailing out states. The FC has accorded debt relief to the states (Table 6). There is also a hands-on approach in helping state governments through their payment difficulties as demonstrated by the 2002 and 2003 debt-buyback schemes and the restructuring of arrears owed by state electricity enterprises.

	Relief	
	Rs. Billions	% of GDP
1974-1978	19.7	2.95
1979-1983	21.6	2.11
1984-1988	22.9	1.03
1989-1995	9.8	0.22
1995-2000	2.12	0.02
1995-2000 (relief to Punjab)	34.13	0.25
Total debt relief provided under the Finance Commission	110.25	6.58

Sources: Report of the Eleventh Finance Commission and McCarten (2003).

Simulations: Implementation of Fiscal Rules in a Decentralized Fiscal Structure

The mix of effective political decentralization, large vertical imbalances, a repressed financial system, and a liberal borrowing rule add up to a regime make it difficult to impose a hard budget constraint on states. Under these conditions, the FRBM may not be nearly enough to seriously address the fiscal imbalances. It is not only that state deficits are a significant part of the overall imbalance, but that in addition, adjustment at the federal level may quite easily lead to fiscal relaxation at the state and local level.

Indeed, recent efforts by central government to induce fiscal consolidation at the state level have worked less well than expected. The Medium-Term Fiscal Reforms Facility—established in 2000 to offer financial incentives to states that reform their finances—has so far failed to meet its targets. Under the program, 21 states formulated medium-term adjustment plans to reduce their revenue deficit to revenue receipts ratio by 5 percentage points per annum so as to eliminate the combined states revenue balance by 2005/06. Three years into the program, the states had secured a 9 percent reduction in this ratio compared to a target of 15 percent. It may be too early to assess this program. Structural problems may have hampered consolidation efforts. On the other hand, the incentives provided by the fund, barely to 0.5 percent of GDP for all states for the five-year period maybe insufficient inducement to compensate for the set of institutional distortions that create the deficit bias.

A simple quantitative model illustrates how the federal system could impact the FRBM's goals. The macroeconomic assumptions and the path by which the assume that the central government adjusts its policies to meet the FRBM target are shown in Tables 7 and 8. Due to the sharing of taxes, the center's adjustment is greater than the current level of the revenue deficit, the exact amount varying depending on the weight of new revenue raising measures in the adjustment effort.

Reflecting India's low tax burden, we assume that about 60 percent of the adjustment will

come via revenue raising measures implying that a total adjustment of 4.8 percentage points—comprising an increase in gross revenue of 2.7 percent of GDP, and a reduction in expenditure of 2.1 percent of GDP—will be required to meet the revenue deficit target. We assume

that the government channels half of the revenue savings into capital expenditure so that the overall deficit adjusts by 2.1 percentage points of GDP.

How successful this adjustment will be in reducing the overall debt burden depends crucially on the behavior of states. In the first scenario in Figure 7, states sustain a primary deficit of 2½ percent of GDP implying a rising interest burden and deficit. The adjustment at the central level is insufficient to offset the widening state level deficit, and general government debt rises to 88½ percent of GDP by end-March 2008. In the second, states emulate the central government by eliminating the revenue deficit by March 2008 and the general government debt falls to 82⅓ percent of GDP by 2008.

The success of the FRBM also depends on the evolution of growth and interest rates. The simulations conducted so far assume a positive differential between nominal growth. Yet in

Table 7. Macroeconomic Assumptions

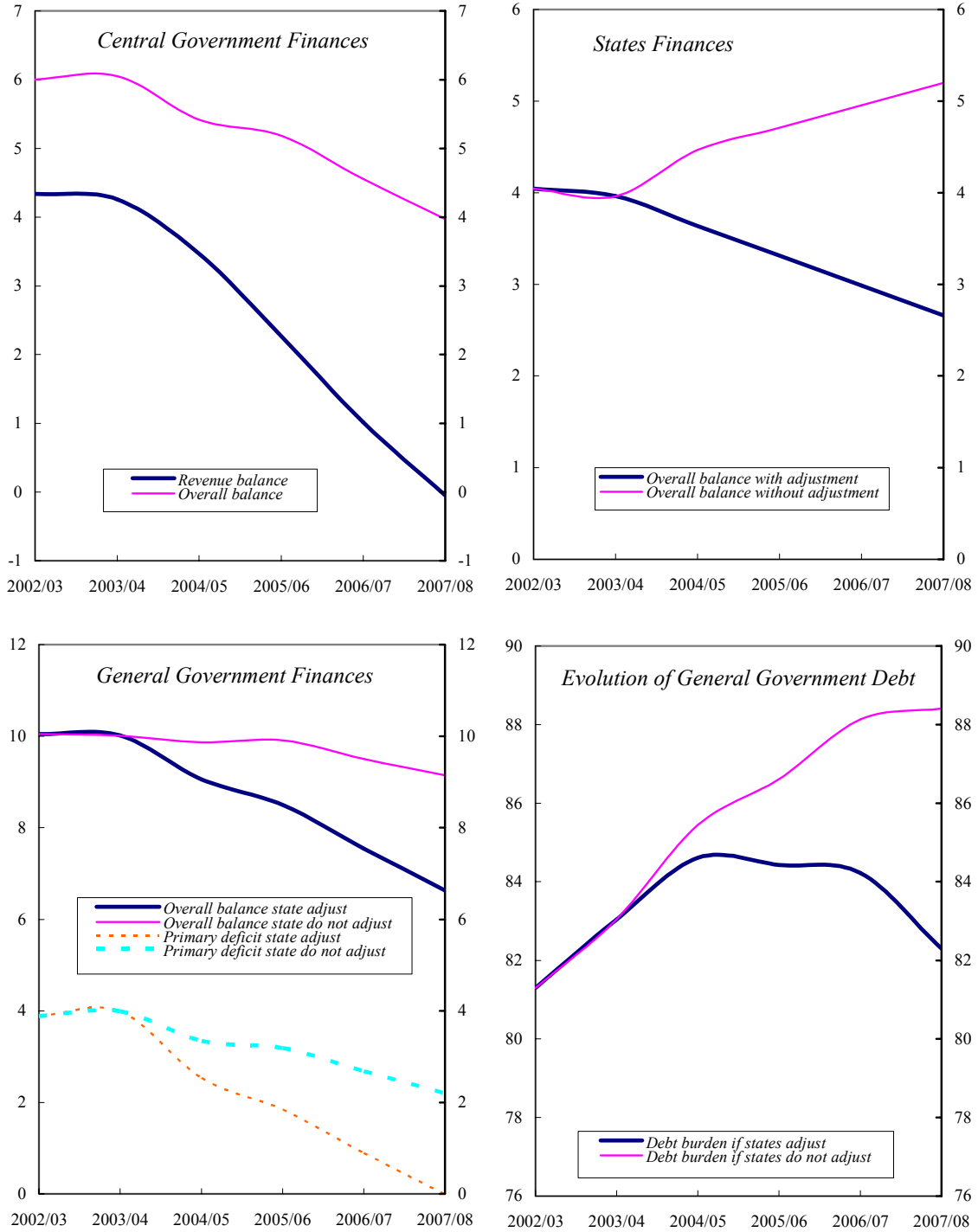
	Ten-Year Average 1993-2003	Five-Year Average 1999-2003	Average 2004-2008
Real GDP growth rate	6.0	5.4	6.1
Nominal effective interest rate on general government debt	8.7	9.0	8.7
Real effective interest rate on general government debt	2.7	5.2	4.5

Table 8. Adjustment in Central Government Finances Under the
Fiscal Responsibility and Budget Management Law

	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	Cumulative Change 2003/04-2007/08
(In percent of GDP)							
Central government 1/							
1 Net Revenue (1-2)	9.0	8.8	9.0	9.4	10.1	11.0	2.2
2 Gross revenue	11.2	11.1	11.4	11.9	12.7	13.8	2.7
3 Tax share to states	2.3	2.3	2.3	2.4	2.6	2.8	0.5
4 Expenditure (5+6)	15.0	14.8	14.4	14.6	14.6	14.9	0.1
5 Revenue expenditure	13.3	13.0	12.5	11.7	11.1	11.0	-2.1
6 Capital expenditure	1.7	1.8	1.9	2.9	3.5	4.0	2.2
7 Overall deficit (1-4)	-6.0	-6.0	-5.4	-5.2	-4.6	-4.0	2.1
8 Revenue deficit (1-5)	-4.3	-4.3	-3.5	-2.3	-1.0	0.0	4.3
Gross annual adjustment to meet FRBM target (Δ (2+5))	...	0.1	0.8	1.3	1.5	1.2	4.8

Source: IMF staff estimates.
1/ Excludes commercial departments.
2/ Excluding transfers to states.

Figure 7. India: Debt Dynamics Under the Fiscal Responsibility and Budget Management Act
(In percent of GDP)



Source: IMF staff estimates.

the last 12 years that this differential has fluctuated between 10 percent and -1.5 percent per year with a standard deviation of 4.0 percent. Even after controlling for a trend and an autoregressive term, the standard deviation (with barely 8 degrees of freedom) is 1.7 percent per year. Assuming a stable nominal growth-interest differential is unwarranted. This variable is not only volatile, but it trending upward as would be expected given a rising debt ratio.

To simulate the impact of non-stable growth-interest differential, we subject the growth-interest differential to a one standard deviation shock. We then assume that the annual differential evolves as a random walk (i.e., with the square root of time). Even if both tiers of government eliminate their revenue deficit, the debt burden rises towards 100 percent of GDP by 2009

	2003/04	2007/08	
	Base Year	No State Adjustment	States Adjust
	(In percent of GDP)		
Central government revenue deficit	-4.3	-3.0	-3.0
Central government deficit	-6.0	-7.0	-7.0
State deficit	-4.0	-6.9	-5.0
General government deficit	-10.0	-13.9	-11.9
General government debt	83.0	102.8	97.0

Source: IMF staff calculations.

(Table 9). Stabilizing the debt could prove daunting if the growth-interest differential moves in the wrong direction by a magnitude in line with its stochastic history.

V. CONCLUSION AND POLICY IMPLICATIONS

We argued that India's ability to tolerate high deficits and debt is the consequence of the low volatility in the debt service to revenue ratio. This can be explained by the very low volatility of real output, and hence of real tax revenues, compared to other emerging market countries. It also reflects the India's large long-term, fixed-rate, rupee-denominated bond market. Thus movements of the interest rate have only a small fiscal impact in the short run, while the long duration of the bond market implies that surprise inflation, even in small quantities, can have substantially positive wealth effects on the fiscal, allowing inflation to play a potentially stabilizing role in assuring solvency. Finally, even though India has been unable to borrow abroad in its own currency, it has very little foreign currency debt. All lowers the probability of difficulties *for any given level of debt*.

This characteristic is a double-edged sword. It helps India remain stable and crisis free at levels of debt that would get others into trouble but the absence of early symptoms removes the warning signs that would force the political system into resolving fiscal imbalances until the debt is that much larger. Moreover, volatility is likely to increase as India becomes more globally integrated. Current trends suggest that India is on an unsustainable path and will eventually have to adjust, one way or the other, i.e., with or without a crisis.

Furthermore, we find that the bias towards large debts and deficits in India may have strong institutional foundations. India's political and budget institutions have many positive aspects. Its first-past-the-post electoral system keeps political fragmentation in check but regional differences imply that at the national level political fragmentation is substantial making coalition governments more frequent and fiscal discipline much more dependent on strong budget institutions. The inherited institutional budget setup is strong and hierarchical, and the FRBM adds to it a new numeric fiscal target, improves transparency and monitoring of budget execution, and incorporates inter-temporal macroeconomic considerations in budget formulation. These are steps in the right direction.

However, we make three substantive comments. First, the FRBM increases the incentives for the strategic use of estimates and for creative accounting. The evidence suggests that the institutional system already had a significant tendency towards biased budget estimates. Second, the FRBM does not include any coercive powers to assure enforcement. However, it is an open question whether this strategy would work in India. Name and shame strategies have not been effective in pressuring the French or German governments to comply with the Growth and Stability Pact. Third, and probably most importantly, the FRBM does not tackle the institutional fiscal federalism arrangements that are a potent sources of deficit bias.

We propose a set of policy ideas that may help strengthen India's budget institutions and address its federal problems. It is important to point out, as we did earlier, that each institutional solution involves important trade-offs along different dimensions: common pool vs. agency problems, credibility vs. flexibility, representativeness vs. decisiveness, etc. Conscious of these trade-offs, we offer these ideas for discussion.

For a reputation-based framework of numerical targets such as the FRBM to succeed, transparency will be of the utmost importance. One way to enhance transparency is to empower an independent scorekeeper (much like the Electoral Commission) to ensure the budget process is not distorted by the strategic use of budget estimates. This institution would be empowered to (i) prepare budget estimates, (ii) provide accounting standards, and (iii) verify compliance with the FRBM and other budgetary rules and targets.

On the budget estimation side, the autonomous scorekeeper would have functions similar to the Congressional Budget Office in the United States. It would be responsible for estimating all non-discretionary budget items on revenue and expenditure. The Government and Parliament keep their current functions, but delegate the transformation of policies into projections to the autonomous scorekeeper.

Giving regulatory and interpretative powers on accounting issues to the autonomous scorekeeper may help fiscal transparency. Standards and definitions need to evolve over time because watertight definitions cannot be made all at once because new programs and financial forms arise such as state debt-swaps and public-private partnerships. The autonomous scorekeeper may also dictate that divestment revenues be incorporated into the budget after they are realized to ensure budgeted resources are secure. Furthermore, the

development of the accounting system that is based on the overall balance sheet of the public sector is a progressive task that needs an unbiased focal point in the institutional system.

The autonomous scorekeeper should also be empowered to verify compliance with the FRBM and other rules and goals. It should express judgment as to whether the fiscal targets are achieved and comment on the government's medium-term fiscal policy statement and its strategy statement in terms of their technical feasibility, given the announced policies.

There is also the issue of ex-post monitoring. So far, the quarterly reporting system mandated by the FRBM has utilized the data and reports produced by the controller general of accounts and of a technical unit within the Ministry of Finance. The autonomous scorekeeper could be mandated to provide an assessment of ex-post performance and compliance. In this case, it may make sense to decide whether the three institutions should be maintained or whether there should be some consolidation.

It is important to ensure an independent and accountable scorekeeper. Like an independent central bank, the scorekeeper could have a board appointed by parliament, with super-majority requirements. The board should be appointed for long but staggered tenures. Removal from office would only take place due to gross violations. The scorekeeper should be accountable to Parliament, explaining deviations from estimates, and presenting an independent ex-post evaluation of its assessments.

The presence of a credible autonomous scorekeeper can make state-contingent targets more effective. If the FRBM were to adopt a Chilean-style rule, such as a cyclically-or monsoon-adjusted primary surplus, the scorekeeper would decide what annual cyclical adjustments should be made to the target. This would make the numerical target more flexible without a concomitant decline in credibility. The rule would use good times to achieve even faster fiscal consolidations and this provide more scope for flexibility in bad times.

One could make it a rule that if that absent mitigating circumstances, there is a breach of the adopted rule, the government and parliament would have a set period of time to bring matters into conformity or else, automatic across the board spending cuts would be put in place. Even if these cuts are inefficient, or because of the inefficiencies they may create, they can play a constructive role in terms of creating the incentives for the cabinet and parliament to avoid this outcome by taking more effective action.

To deal with the political economy causes of the deficit bias at the state level we propose three courses of action. First, expand the principles of the FRBM to the states to increase transparency and accountability. It may be useful to discuss whether this effort should be done on a state-by-state basis or at the federal level. Should each state have its own independent scorekeeper or should the national entity provide scorekeeping services? Budget rules may be enhanced following Brazil federal law which restricts each tier of government and imposes severe penalties for those politically responsible for breaching those rules.

Secondly, state borrowing autonomy has made fiscal balance extremely difficult. The Constitution provides for federal authorization of borrowing by states who owe money to the

Central. Since all states do, the Central Government could play a coordinating role. One idea would be to impose borrowing ceilings on states that decline to a desired long run level and could even be cyclically adjusted by the federal scorekeeper. Ceilings are just another way to impose a deficit constraint and adopting them would extend the central targets to the states. A medium-term fiscal consolidation plan could form the basis for these ceilings.

Third, the system of inter-governmental transfers should be reformed. The fiscal consolidation plan could incorporate a rule that estimates fiscal transfers as a specific amount, say 95 percent, of projected revenue. This would be the actual transfer under the plan irrespective of actual revenue outturns relieving states from the volatility in the fiscal transfers enabling them to commit to a debt ceiling. Moreover, by fixing fiscal transfers, additional tax effort by states would be kept by the state governments better internalizing the benefits of taxation. For the centre, the change would imply that states help in the fiscal adjustment and any improvement in tax efficiency can be used fully to lower the deficit.

After the 5–7 years of the state fiscal consolidation plan, a more permanent structure would be needed. It would be ideal to work towards permanently reducing state borrowing autonomy and to making inter-governmental transfers a function of projected medium term revenues projected by the autonomous scorekeeper.

Most countries do not deal in good times with fiscal imbalances that may bring bad times. The world is full of these recent sad examples. India in its good times is starting to act on its fiscal imbalances. We have argued that current plans represent a move in the right direction but more forceful institutional action may help extend the good times. India would become an example of fiscal wisdom in a complex democracy that the world sorely needs.

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