



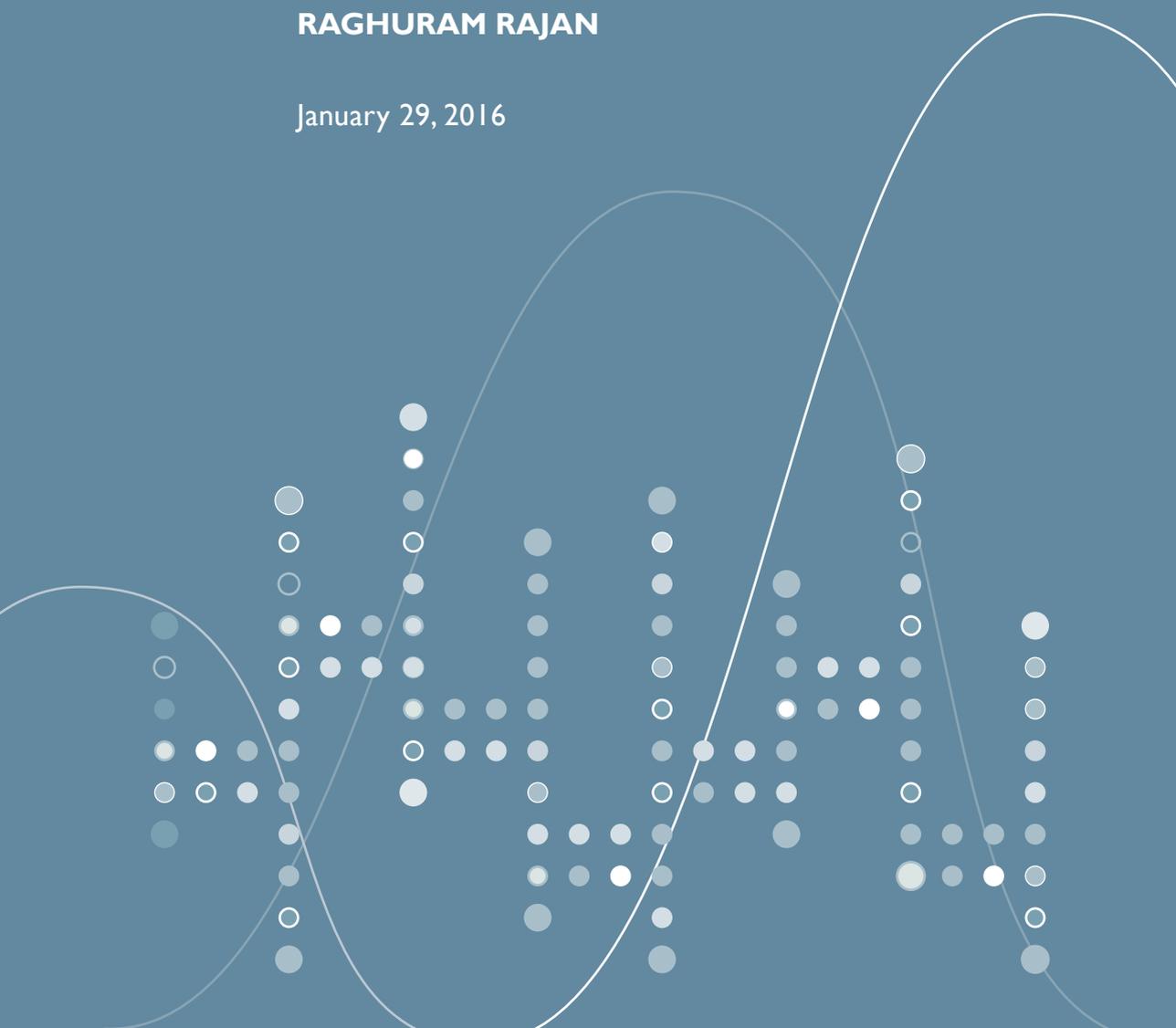
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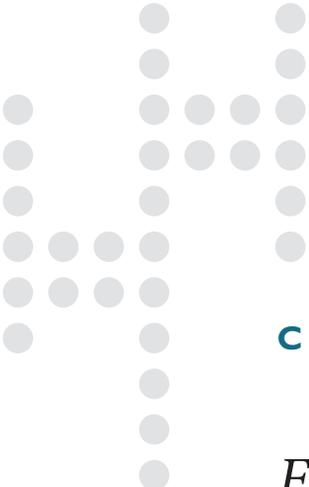
C D DESHMUKH MEMORIAL LECTURE 2016

*Financial Sector Reforms in India:
The Past and the Future*

RAGHURAM RAJAN

January 29, 2016





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Reserve Bank of India

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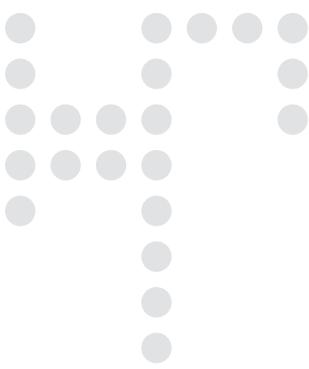


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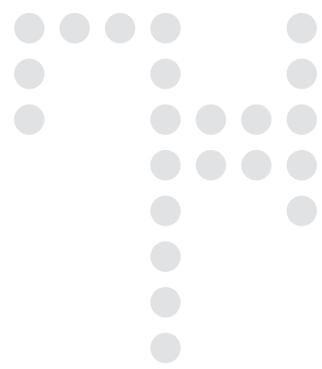
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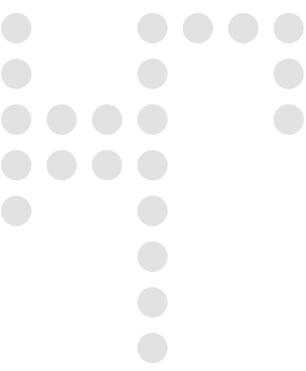
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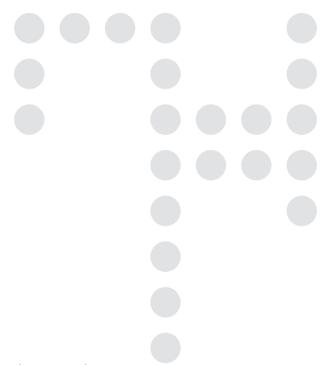
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Foreword

This Fourth C D Deshmukh Memorial Lecture remarkably brought together three Governors of the Reserve Bank of India, one of course in memoriam, RBI's first Indian Governor, and the other two in person in the form of our Chief Guest, Dr Bimal Jalan, RBI's 20th Governor, and the very special speaker of the evening, Dr Raghuram Rajan, RBI's 23rd Governor.

It is a matter of great pride for NCAER to be associated with all three: Deshmukh as one of the founding fathers of NCAER and a member of its first Governing Body, Jalan as the President of NCAER's Governing Body during 1992–93 and then again during 1998–2008, and Rajan, who has been a Non-resident Senior Fellow at NCAER for a number of years. Brief biographical sketches for all three are at the end of this booklet.

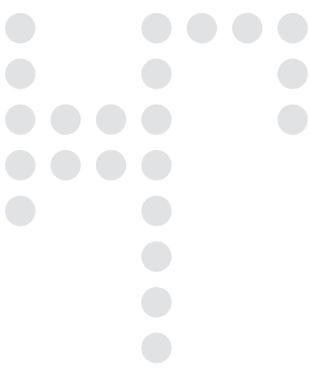
Together, these three Governors span some 73 years of RBI's history, and also span the entire 60-year history of NCAER. The 2016 C D Deshmukh Lecture was therefore special as well because it helped launch the beginning of the 60th anniversary celebrations of NCAER. The founding fathers of NCAER, including C D Deshmukh, made a promise in 1956 to the nation to serve both government and industry with economic and social data of the highest scientific quality, and empirical research of the highest order, both to better support sound policymaking.

The 4th C D Deshmukh Lecture, appropriately held at the Auditorium of the historical Teen Murti Bhawan in New Delhi, marked a renewal of this promise. It was on Nehru's request that Dr Deshmukh and others came together in 1956 to conceive and then implement the idea of a research institution like the National Council of Applied Economic Research. And it was Nehru who laid the foundation stone thereafter of the building that has housed the NCAER community since the late 1950s.

Dr Rajan delivered this Lecture to a full house in the evening of January 29th, 2016, in addition to a significant presence within and outside India viewing the Lecture live as it was web streamed. Rajan's talk on the future of India's financial sector is perhaps one of the most complete renditions of his views on the challenges that lie ahead as India seeks to accelerate economic growth and create the opportunities that must accompany the growth for it to be inclusive. It is must reading for anyone concerned about realizing India's vast economic potential.

March 27, 2016
New Delhi

Shekhar Shah
Director-General



About the C D Deshmukh Memorial Lectures at NCAER

NCAER instituted the **C D Deshmukh Memorial Lecture** in January 2013 in memory of one of India's most eminent economists and a founding father of NCAER. Deshmukh was a member of its first Governing Body when NCAER was established in 1956. One of India's greatest institution builders, Deshmukh left his imprint on a range of public institutions besides NCAER, including the Reserve Bank of India as its first Indian Governor, a member of the first Indian Planning Commission, the first Indian on the Board of Governors of the IMF and the World Bank, the first Indian Finance Minister to serve for six years after Independence, and the first Chairman of the University Grants Commission.

NCAER is privileged to honour the memory of C D Deshmukh as a part of its own nearly six-decade long legacy.

For a list of the Lectures delivered so far, see page 20.

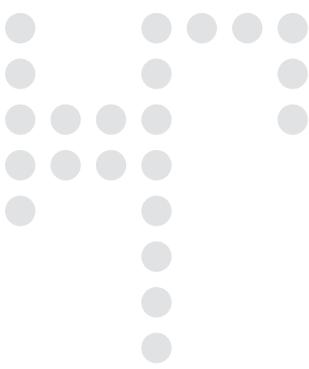
Financial Sector Reforms in India: The Past and the Future¹

Raghuram Rajan

I thank Shekhar Shah for inviting me to deliver the C D Deshmukh lecture at NCAER. Sir Chintaman Dwarakanath Deshmukh, an ICS officer, was truly a giant of modern India. In 1943, he was the first Indian, as well as the youngest in its history to date, to be appointed the Governor of the Reserve Bank of India. He subsequently served as the Finance Minister in the Union Cabinet. It was during this time that he also became a founding member of the Governing Body of NCAER. After resignation from the Union Cabinet over a matter of principle, he served at various times as Chairman of the University Grants Commission, Vice-Chancellor of the University of Delhi, President of the Indian Statistical Institute, and founding member and lifetime President of the India International Centre. Among his many contributions were his insightful interventions at Bretton Woods as part of the Indian delegation to that historic meet. He was awarded the Padma Vibhushan in recognition of his services. Sir C D Deshmukh died in 1982.

C D Deshmukh was an institution builder. I am currently the caretaker of one he led, the Reserve Bank of India. Let me assure him that the Reserve Bank is in

¹ C D Deshmukh Lecture by Dr. Raghuram Rajan, Governor, Reserve Bank of India organised by NCAER, New Delhi, on January 29, 2016.



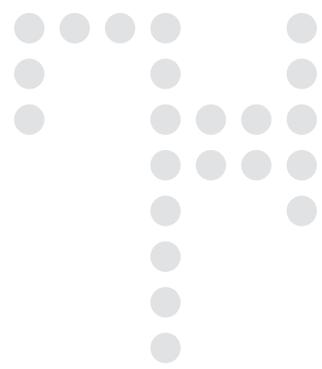
fine fettle. In a country where time has weighed heavily on the quality of institutions, the integrity, capability, and motivation of my colleagues allows the Reserve Bank to continue to stand tall.

The world today, however, is much less comforting. Industrial countries are still struggling, with a few exceptions, to grow. Our fellow BRICS all have deep problems, with confidence about China waxing and waning. Indeed, India appears to be an island of relative calm in an ocean of turmoil. What is different here and how can we be assured that it will continue?

A Lesson from Brazil?

Perhaps Brazil offers a salutary lesson. Only a few years ago, the world was applauding the country's thriving democracy, its robust economic growth, and the enormous strides it was making in reducing inequality. It grew at 7.6 per cent in 2010, and had discovered huge oil reserves which the then President Lula likened to "winning a lottery ticket". Yet the country shrank by 3.8 per cent last year, and its debt got downgraded to junk. Growth will be no better this year. What went wrong?

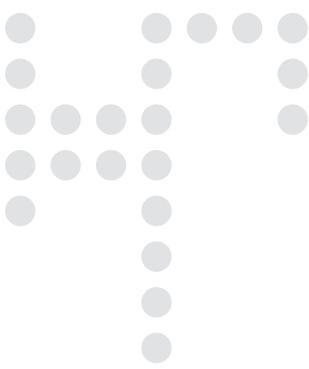
Paradoxical as it may seem, Brazil tried to grow too fast. The 7.6 per cent growth came on the back of a substantial stimulus after the global financial crisis. In an attempt to keep growth high, the *New York Times* says the



central bank was pressed to reduce interest rates, fuelling a credit spree that overburdened customers are now struggling to repay.² Further, Brazil's government-funded development bank hugely increased subsidized loans to corporations. Certain industries were favoured with tax breaks while price controls were imposed on gasoline and electricity, causing huge losses in public sector firms. Petrobras, the national oil company, which was supposed to make enormous investments in oil drilling, instead became embroiled in a corruption scandal. Even as government pensions burned an ever larger hole, budget deficits expanded, and the political consensus to narrow them has become elusive. Inflation touched double digits in the 4th quarter of 2015.

While the Brazilian authorities are working hard to rectify the situation, let us not ignore the lessons their experience suggests. It is possible to grow too fast with substantial stimulus, as we did in 2010 and 2011, only to pay the price in higher inflation, higher deficits, and lower growth in 2013 and 2014. Of course, India is not in the same situation today. Given the inhospitable world economy and two successive droughts, either of which would have thrown the economy into a tail spin in the past, it is to the immense credit of the government that we have over 7 per cent growth, low inflation, and a low current account deficit. But it is at such times that we should not be over-ambitious.

²“As a Boom Fades, Brazilians Wonder How it all Went Wrong”, Simon Romero, *New York Times*, September 11, 2015.



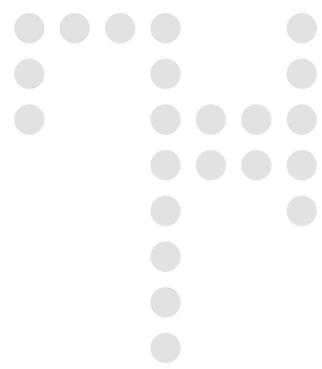
Macroeconomic Stability

As Brazil's experience suggests, the enormous costs of becoming an unstable country far outweigh any small growth benefits that can be obtained through aggressive policies. We should be very careful about jeopardizing our single most important strength during this period of global turmoil, macroeconomic stability.

There is a public discussion of whether India should postpone, yet again, the fiscal consolidation path it has embarked on. Clearly, the Government will balance various compulsions in taking its decision. But a number of facts are worth pointing out.

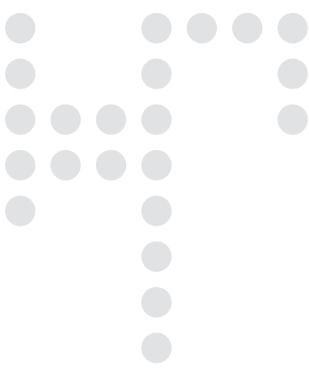
The consolidated fiscal deficit of the state and centre in India is by far the largest among countries we like to compare ourselves with; presently only Brazil, a country in difficulty, rivals us on this measure. According to IMF estimates (which is what the global investor sees), our consolidated fiscal deficit went up from 7 per cent in 2014 to 7.2 per cent in 2015. So we actually expanded the aggregate deficit in the last calendar year. With UDAY, the scheme to revive state power distribution companies, coming into operation in the next fiscal, it is unlikely that states will be shrinking their deficits, which puts pressure on the centre to adjust more.

Some say that fiscal expansion is necessary to generate the growth needed to put our debt-to-GDP ratio



back on a sustainable path. This is a novel argument. Ordinarily one would think that a government should borrow less, that is, run lower fiscal deficits, in order to reduce its debt. But there is indeed a theoretical possibility that the growth generated by the fiscal expansion is so great as to outweigh the additional debt that is taken on. Unfortunately, the growth multipliers on government spending at this juncture are likely to be much smaller, so more spending will probably hurt debt dynamics. Put differently, it is worth asking if there really are very high return investments that we are foregoing by staying on the consolidation path?

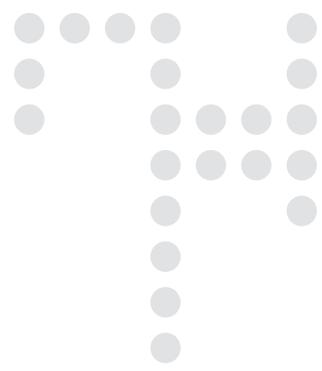
Of course, the common man does not really care whether we stay on the consolidation path or not. But the bond markets, where we have to finance over ₹10 lakh crore of deficits plus UDAY state bonds, do care. Deviating from the fiscal consolidation path could push up government bond yields, both because of the greater volume of bonds to be financed and because of the potential loss of government credibility on future consolidation. It was James Carville who said, “I used to think if there was reincarnation, I wanted to come back as the President or the Pope or a .400 baseball hitter. But now I want to come back as the bond market. You can intimidate everybody.” The Government understands the importance of bond market confidence, but I wonder if the economists debating in public put adequate weight on it.



The fall in inflation has been a major contributor to lower bond yields, and is the joint work of the Government and the RBI, aided to some extent by the fall in international commodity prices. This is no mean achievement given two successive droughts that would have, in the past, pushed inflation into double digits. Despite this success, we hear voices suggesting weakening the fight against inflation. Let me reiterate that macroeconomic stability relies immensely on policy credibility, which is the public belief that policy will depart from the charted course only under extreme necessity, and not because of convenience. If every time there is any minor difficulty, we change the goal posts, we signal to the markets that we have no staying power. Let me therefore reiterate that we have absolutely no intent of departing from the inflation framework that has been agreed with the Government. We look forward to the Government amending the RBI Act to usher in the monetary policy committee, further strengthening the framework.

Macroeconomic stability will be the platform on which we will build the growth that will sustain our country for many years to come, no matter what the world does. Indeed, I am reminded today of the period 1997–2002 when India laboured and reformed with only moderate growth, only to see a decade of high growth after that.

Before I turn to the main body of this talk, a word on interest rates. Industrialists grumble about high rates



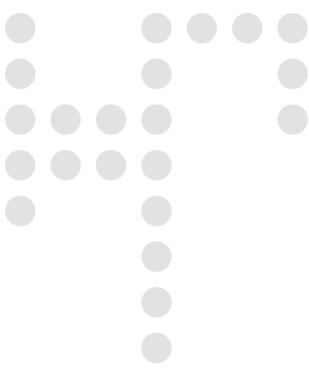
while retirees complain about the low rates they get today on deposits. Both overstate their case, though as I have said repeatedly, the way to resolve their differences is to bring CPI inflation steadily down.

Let me explain, starting with the retiree. The typical letter I get goes, “I used to get 10 per cent earlier on a 1 year fixed deposit, now I barely get 8 per cent”, please tell banks to pay me more else I won’t be able to make ends meet”. The truth is that the retiree is getting more today but he does not realize it, because he is focusing only on the nominal interest he gets and not on the underlying inflation which has come down even more sharply, from about 10 per cent to 5.5 per cent.

To see this, let us indulge in Dosa economics. Say the pensioner wants to buy dosas and at the beginning of the period, they cost ₹50 per dosa. Let us say he has savings of ₹1,00,000. He could buy 2,000 dosas with the money today, but he wants more by investing.

At 10 per cent interest, he gets ₹10,000 after one year plus his principal. With dosas having gone up by 10 per cent to ₹55, he can buy 182 dosas approximately with the ₹10,000 interest.

At 8 per cent interest, he gets ₹8,000. With dosas having gone up by 5.5 per cent, each dosa costs ₹52.75, so he can now buy only 152 dosas approximately. So the

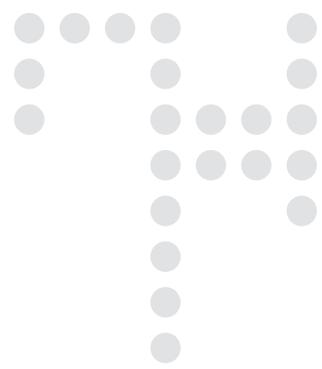


pensioner seems vindicated: with lower interest payments, he can now buy less.

But wait a minute. Remember, he gets his principal back also and that too has to be adjusted for inflation. In the high inflation period, it was worth 1,818 dosas, in the low inflation period, it is worth 1,896 dosas. So in the high inflation period, principal plus interest are worth 2,000 dosas together, while in the low inflation period it is worth 2,048 dosas. He is about 2.5 per cent better off in the low inflation period in terms of dosas.

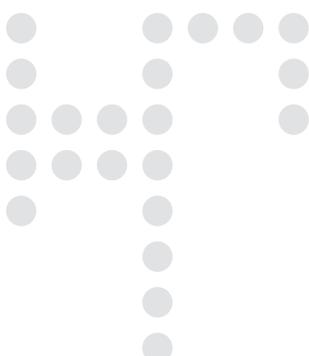
This is a long-winded way of saying that inflation is the silent killer because it eats into pensioners' principal, even while they are deluded by high nominal interest rates into thinking they are getting an adequate return. Indeed, with 10 per cent return and 10 per cent inflation, the deposit is not giving you any real return net of inflation, which is why you can buy only 2,000 dosas after a year of investing, the same as you could buy before you invested. In contrast, when inflation is 5.5 per cent but the interest rate you are getting is 8 per cent, you are earning a real rate of 2.5 per cent, which means 2.5 per cent more dosas. So while I sympathize with pensioners, they certainly are better off today than in the past.

Let us turn to the industrialist. At a recent conference, I met a businessman who complained that his business was getting torn to shreds by imports. He was



lobbying for safeguard duties. When asked for evidence of unfair competition, he said his revenues had not grown at all, with his volume growth barely offsetting the price decline for his product. While commiserating with him, I said lower input costs must be a boon, because commodity prices have fallen even more sharply than output prices. He grudgingly agreed they had helped. When asked about his profits, he eventually admitted they were at an all-time high. But nevertheless, he said, we need safeguard duties because foreigners are dumping below cost! Put differently, businesspeople complain about low output price inflation, but the inflation that matters to them is the inflation in their profits, which is higher. For instance, analysing 2nd quarter results for non-financial non-government corporations, we find that while revenues have fallen by 8.8 per cent year on year, input costs have fallen by an even higher 12.4 per cent, so that gross value added has gone up by 10.8 per cent.

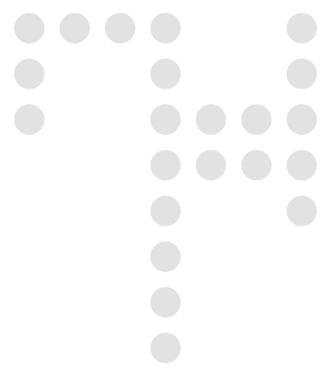
Clearly, there are industries in trouble. We should, however, be particularly careful about raising tariffs at a time when costs are falling everywhere – aside from the inflationary impact, for every happy domestic businessman whose prices are raised by the imposition of tariffs on imports, we have an unhappy domestic businessman whose costs are raised by the very same tariffs, as well as unhappy consumers.



Cleaning up the Banks

One very important contributor to macroeconomic stability is healthy banks. Banks in India have a number of stressed loans on their balance sheets. In some cases, the reality is that existing loans will have to be written down significantly because of the changed circumstances since they were sanctioned (which includes extensive project delays, cost over-runs, global over-capacity, and over-optimistic demand projections). If loans are written down, the promoter brings in more equity, and other stakeholders like the tariff authorities or the local government chip in, the project may have a strong chance of revival, and the promoter will be incentivized to try his utmost to put it back on track. But to do all this deep surgery, the bank has to classify the asset as a Non Performing Asset (NPA), a label banks are eager to avoid. Alternatively, instead of deep surgery, the banks could apply band aids, they could “extend and pretend”, lending the promoter the money he needs to make loan payments. The project’s debt obligations grow, the promoter loses further interest, and the project goes into further losses.

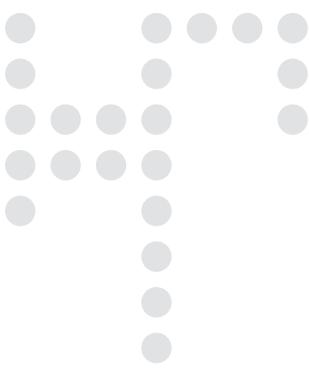
A number of good banks in our system have taken the necessary action to recognize and resolve stressed loans in a timely fashion. But some others need to take more proactive action. Over the last few quarters, the Reserve Bank has expanded the tools banks have to recognize and deal with stressed loans. It is now working with the



Government and banks to ensure that the stressed assets are dealt with on a proactive basis, and that bank balance sheets both reflect a true and fair picture, and are adequately provisioned. The Finance Minister has indicated he will support the public sector banks with capital infusions as needed. Our estimate is that the support that has been indicated will suffice, especially when coupled with other capital sources that are usually available to banks. Our various scenarios also show private sector banks will not want for regulatory capital as a result of this exercise. Finally, the RBI is also working on identifying currently non-recognizable capital that is already on bank balance sheets, such as undervalued assets. The RBI could allow some of these to count as capital as per Basel norms, provided a bank meets minimum common equity standards.

In sum, we believe enough capital is available. While the profitability of some banks may be impaired in the short run, the system, once cleaned, will be able to support economic growth in a sustainable and profitable way. To be less proactive, as our past and the history of banking across the world suggests, will only see the problem get bigger and less manageable.

Let me now turn to the structural reforms that we intend to implement in the financial sector, which will build on the platform of macroeconomic stability to generate growth. We will increase efficiency through greater entry and competition. We need more participation in our

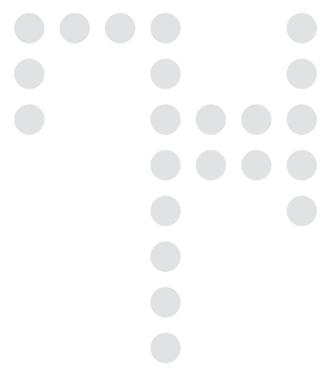


financial markets to increase their size, depth, and liquidity. Participation is best enhanced not through subventions and subsidies but by creating supporting frameworks that improve transparency, contract enforcement, and protections for market participants against abusive practices. Technology can be very helpful in reducing the costs of the supportive frameworks, and can bring hitherto excluded populations into the financial fold. It is these ideas that guide our medium-term reform strategy. Let me be more specific.

Fostering Competition

In order to get sustained growth, we need more competition, especially from new entrants who are in a better position to reach hitherto excluded parts of our economy. After over a decade of no new entry, we have seen two new private banks enter last year, and a number of payment banks and small finance banks will enter this year. We will put licensing for universal banks on tap soon.

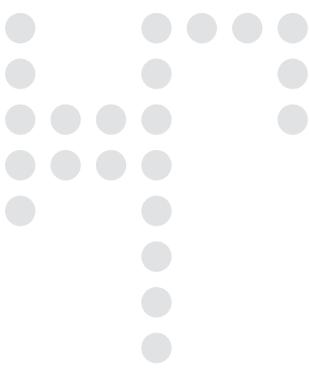
Incumbents have expressed fears about unfair competition. Competition is only unfair if it is not on the same playing field. In fact, new entrants have no privileges that incumbents do not already enjoy. We hope, though, that the new entrants will find innovative ways of giving customers better services at lower prices, thus shaking up and changing the banking sector for the better. Payment bank kiosks, post offices, or business correspondents could



be the means by which the remote villager traverses the last mile to the formal financial system. Small finance banks could be the low cost assessment and monitoring mechanism to lower lending costs to small urban and rural firms.

Clearly, public sector banks (PSBs), with their large branch networks, will have to adapt because some of these new entrants will go after their customers. This is no bad thing because, hitherto, those customers have had limited choice. Public sector banks will need to automate more so as to reduce transactions costs, cut administrative overheads and improve response times, even while improving their risk assessment and monitoring systems so that they can use the wealth of information they have gathered over the years to make sound lending decisions. Almost surely, this transformation will require more lateral hires at market wages, including skilled loan officers, risk managers, forensic accountants, IT professionals, lawyers, and human resource professionals. While PSBs can undertake contractual hiring at market wages, it remains to be seen whether they can attract professionals without promising them the means for career advancement within the bank.

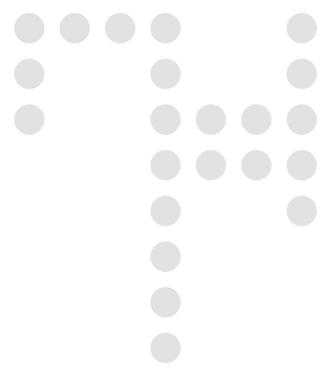
Public sector banks will also require more professional boards that can chart a differentiated strategy for them. The Bank Board Bureau, which will select board members, will come into operation soon. We have to pay



board members of PSBs a market compensation if we are to attract decent talent – otherwise we risk attracting an unwieldy mix of the truly patriotic and the truly unscrupulous, with the latter intending to profit by their board position. When thousands of crores can be diverted by a bad board decision, should we not ensure we have adequate integrity and talent on bank boards?

More decisions need to be decentralized from the Government to the PSB boards, once they have been fully professionalized. For instance, should boards not determine strategy as well as the appointment or renewal of their chief executive? What about their executive directors? Can bank boards have more freedom in choosing these? Can boards be given the freedom to set compensation structures and performance measures for their senior executives, including long-term stock options? If we want to address the concern that many public sector banks have identical strategies and are competing for the same pie, we have to allow the boards more freedom to differentiate their banks.

Finally, as bank health recovers, the issue of PSB mergers can be addressed. Almost surely, some banks will have to merge to optimize their use of resources. But talking of bank mergers, which take a lot of management attention, especially when each bank management is preoccupied with dealing with stressed assets, is probably premature. At the same time, some banks could benefit

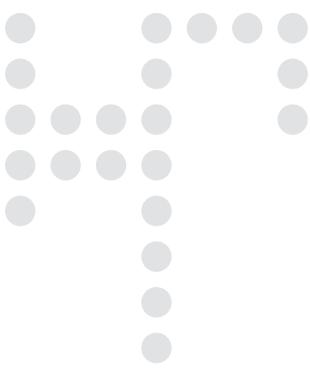


from governance help to deal with their current problems. Is it an opportune time to induct skilled financial firms as strategic investors into public sector bank boards, perhaps with a 10 or 15 per cent stake? Certainly, the experience of countries like China who inducted such investors is worth studying.

Technology and Innovation

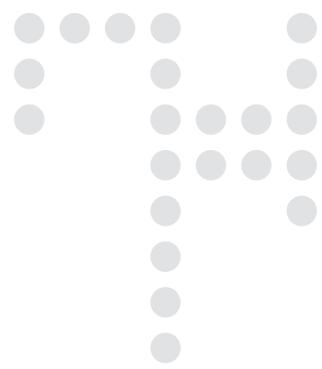
Regulators are naturally a conservative lot. It is good we are that way else there would be no speed breakers in the economy to slow its propensity to get into trouble. But we also should not stand in the way of innovation. There is a Chinese saying: “Cross the river by feeling the stones”. The RBI has tried to follow that path of experimentation and incremental liberalization. So, for example, as increasingly innovative new services want their customers to have the ability to make payments quickly, we have allowed small value card payments without two-factor authentication. As we and financial institutions gain experience, and as new technologies ensuring security emerge, we can liberalize further. More generally, our philosophy is to allow innovation in institutions, instruments and practices so long as they do not present a clear and present danger. Once we understand them better, and they grow to a material size, we can do a deeper analysis on how they should be regulated.

A number of innovative structures are likely to



be implemented soon. NPCI will go live soon with the Unified Payment Interface, which when fully rolled out will allow anyone to make a payment to anyone else with a bank account simply via a mobile and a unique email-like address. The Trade Receivables Exchanges will be a boon to small businesses. Essentially, any business that has a receivable against a large firm can sell it as a bill on the exchange, after the large firm acknowledges it has been supplied the goods. Not only will the small firm get paid quickly, but buyers will discount the bill at the rate associated with the large firm, and thus pay the small firm more. Importantly, the three Trade Receivables Exchanges that have been licensed will get a fillip if public sector firms and government departments are required to allow their receivables to be traded. This will also discipline these entities to pay on time, a huge boon to the system.

Yet another technological development to watch is the alliance between Internet marketplaces and financial firms. The information obtained from monitoring sales and cash flows of the online merchant can be the basis for making him a loan and recovering payment. I am especially excited by the possibilities afforded to the carpet seller from Srinagar, who can display her wares across the globe, with the marketplace arranging marketing, logistics, and finance for her.

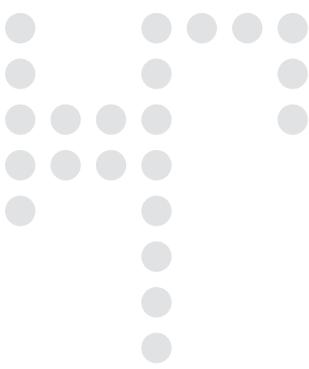


Financial Inclusion

The Prime Minister's Jan Dhan Yojana has created accounts for much of the excluded population. The Government has taken the next step of attaching a variety of financial services such as accident and life insurance to these accounts, and sending Direct Benefits such as scholarships, pensions, and subsidies to these accounts. We also have to ease access to bank accounts through Business Correspondents, payment banks, and point-of-sales machines so that they are used frequently. Easy payments, access to cash-in and cash-out facilities, and widespread availability of safe savings instruments have to be our next objectives in the financial inclusion of households.

When credit leads the process of financial inclusion, we risk lending to people who have little ability to manage money and overburdening them. By drawing them into the formal system through savings and payments first, then insurance, we get them accustomed to managing money before tempting them with credit. This is the successful method we have followed with self help groups, and is what we should do more widely. Importantly, we need a variety of firms and NGOs to help small businesses with management advice so that they can flourish.

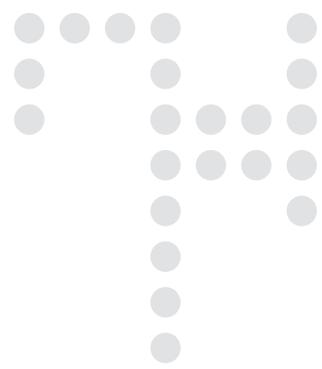
Technology will also help reduce transaction costs, facilitating inclusion. We now have an Internet portal



(Vidyalakshmi) where students can apply to a variety of banks for education loans. We are exploring a similar portal for MSMEs, where MSMEs can apply easily to banks and where we can monitor timely responses to the loan applications.

In all such lending, we need to address the issue of collateral. Credit flows easily only when the lender is persuaded that he will get his money back, so easier access to credit necessitates harsher consequences of default, including the loss of collateral. Aadhaar has given individual borrowers the possibility of using their future access to credit as collateral. I do hope the Supreme Court clears up the cloud over its use quickly. But there are also situations where borrowers have physical collateral they can use to lower their cost of credit and improve access. We really need to re-examine mandates that banks should lend without collateral to certain segments. While the intent is laudable, the consequence may simply be that banks fear taking collateral even when available, and thinking the borrower is too risky, do not lend.

More generally, the best way to facilitate lending to the excluded is to reduce transactions costs, improve borrower information and frameworks for recovery, and create institutions that have lower costs and easier access to the borrower than existing ones. For this, we need to improve the structure and working of credit information

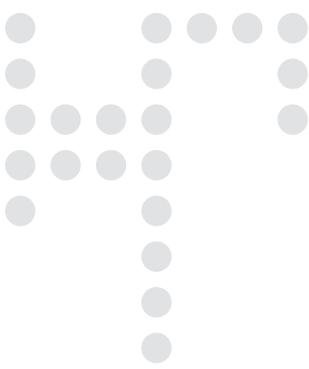


bureaus, collateral registries, and debt recovery tribunals. Perhaps the most important source of collateral value is land. We need better digital mapping and clean records of land ownership across the country so that land can be used more effectively as collateral. Andhra Pradesh's pattas for tenant farmers is also an innovation that will help tenants get access to credit.

Consumer Protection and Literacy

Finally, newcomers and outsiders need protection against unfair practices. As one example of what we are doing, RBI has developed a Charter of Consumer Rights after public consultation. Bank boards have been asked to put in place frameworks that ensure those rights are protected, including creating an internal office of ombudsman. Soon, those frameworks will have been in operation for about a year. After studying practices, RBI will take a view on best practices and even regulation, if any is needed. In the meantime, incognito field visits by RBI, to check mis-selling as well as the proper functioning of bank infrastructure such as branches and ATMs, will be expanded. We are also working with state law enforcement authorities through State Level Coordination Committees to try and nab fly-by-night operators before they do real damage.

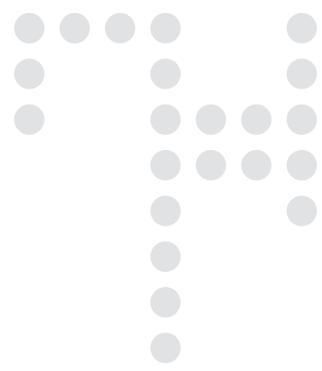
As access to finance improves, we need customers



to protect themselves. Higher education is not sufficient protection. Many of you must have received an email from me saying that the RBI had concluded a pact with the IMF or the British Government to take over the gold found on pirate ships in the sixteenth century, sell it, and give the proceeds to deserving citizens like you. In return for a small transaction fee of ₹20,000, the email goes on, I would be happy to transfer the sum of 50 lakh rupees into your bank account. Without pausing to think why I need ₹20,000 when I supposedly have ₹50 lakhs of your money with me, some of you send ₹20,000 as requested into an untraceable account. My office then gets repeated phone calls from you asking what happened when the ₹50 lakhs does not show up. The truth is that we are all gullible – no amount of warnings that the Reserve Bank does not ask you for your money helps. The central theorem of financial literacy is, “There is no such thing as a free lunch”. In the context of financial investments, it can be restated as “There is no return without risk”. We need to imprint these two statements in everyone’s head and we intend to roll out campaigns to do so.

Conclusion

I have described some of the ways we will position the financial system towards sustainable growth on a base of macroeconomic stability. Of course, finance can only facilitate growth, the true engine of growth is the real



economy, where the government's structural reforms are facilitating the way.

Throughout its 81 year history, the RBI's staff has always risen to the challenges posed by a dynamic, growing economy. We have never hesitated to say no when the stability of the system is at stake. At the same time, we have liberalized when it is needed. Following the traditions set by our past leaders like Shri C D Deshmukh, we will help take India forward. Thank you very much again for inviting me to give this talk.



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Chintaman Dwarakanath Deshmukh (1896–1982) was born on January 14, 1896 in Nata, in Maharashtra. He was educated at Elphinstone College in Mumbai, and at Jesus College, Cambridge, winning the Frank Smart Prize in Botany in 1917 and graduating with a Natural Science Tripos. Deshmukh topped the Matriculation Examination of the University of Bombay in 1912 and then the Indian Civil Service (ICS) Examination in 1918.

During his 21 years of distinguished service in the ICS, he was knighted by the British Government (1944) and served as one of the two Indian Secretaries to the 1931 Second Roundtable Conference in London. After his civil service career, Sir Deshmukh went on to help build numerous public institutions. He was the ranking Indian on India's delegation to the July 1944 Bretton Woods Conference that led to the establishment of the World Bank and the IMF.



Deshmukh with Jawaharlal Nehru at the foundation stone ceremony for NCAER's building, October 31, 1959.

He became the first Indian to be appointed the RBI Governor, bridging the transition to an independent India (1943–50); a member of the IMF and World Bank Board of Governors (1944–54); one of the four initial members of the Indian Planning Commission at its inception in 1950; and the first Chairman of the University Grants Commission (UGC, 1956–61). He was the first Union Finance Minister of India (1950–56) after Independence to serve continuously for six years until he resigned in protest against the Government's position on the linguistic problems of the then Bombay State. "I have decided to resign on a particular issue," he said. "It is neither too tragic nor too heroic. It is just satisfying one's conscience. . . . When I differ from the Government on some matter of principle, I feel I must resign." Sir Chintaman was asked soon after his resignation whether he was willing to have his name considered for the position of the Managing Director of the International Monetary Fund. Instead, he chose to serve his country as the UGC Chairman.

Sir Chintaman did much to advance intellectual life in India. He was a founding father of NCAER—India's first independent economic policy institute established in 1956—and a member of its first Governing body. He played a key role in establishing the India International Centre in 1959. He was the Vice Chancellor of Delhi University (1962–67), and the President of the Indian Statistical Institute (1945–64) and the Institute of Economic Growth (1965–74). Sir Chintaman and his wife Durgabai Deshmukh, a prominent social worker in her own right, were both honoured by the President of India with the *Padma Vibhushan*, India's second highest civilian award, in 1975.



Raghuram Rajan became the 23rd Governor of the Reserve Bank of India in September 2013. He was earlier the Chief Economic Advisor, Ministry of Finance, Government of India, and the Eric J. Gleacher Distinguished Service Professor of Finance at the University of Chicago's Booth School of Business. He has been the Economic Counsellor and Director of Research at the International Monetary Fund (2003–2006). Rajan chaired the Indian Government's Committee on Financial Sector Reforms (2007–2008). He was the President of the American Finance Association in 2011 and is a member of the American Academy of Arts and Sciences. Rajan was the recipient in 2003 of the first Fischer Black Prize awarded by the American Finance Association for the best finance researcher under the age of 40. He received the Global Indian of the Year award from NASSCOM in 2011, the Infosys Prize for the Economics Sciences in 2012, the Center for Financial Studies-Deutsche Bank Prize for Financial Economics in 2013, Euromoney's Central Banker of the Year Award 2014, and Central Banking's Central Banker of the Year Award 2015. Rajan's work spans a range of areas in financial economics, macroeconomics, and monetary policy. Rajan has a BTech in Electrical Engineering from IIT Delhi, an MBA from IIM Ahmedabad, and a PhD from MIT.

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NCAER, the National Council of Applied Economic Research, was set up in 1956 as part of Prime Minister Nehru's vision for independent institutions that a newly independent India needed. It is the nation's oldest and largest independent, non-profit, economic think-tank, informing policy choices for both the public and private sectors. Over nearly six decades, NCAER has served the nation with its rich offering of applied research, data, and policy inputs to central and state governments, corporate India, the media, and informed citizens. It is one of a few independent think-tanks globally that combine rigorous analysis and policy outreach with deep data collection capabilities, particularly for large-scale household and consumer surveys.

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NCAER is led by its Director-General, Dr Shekhar Shah, and governed by an independent Governing Body headed by its President, Mr Nandan M Nilekani, the former Chairman of India's Unique Identity Authority. NCAER's Governing Body includes prominent persons from industry, research, and the government. NCAER's operating revenues come from research commissioned by government and industry and its own research supported by multi-year research grants from international and domestic donors and income from NCAER's endowment.

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