



Derivatives Regulation in India

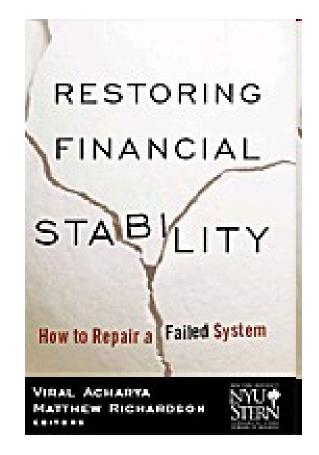
Too much or too little?

-Viral V Acharya

NYU Stern, NBER, CEPR and ECGI

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Policy Proposal Part of NYU Stern Project



Chapters 10, 11 and 12

(Viral V Acharya, Menachem Brenner, Rob Engle, Steve Figlewski, Anthony Lynch, Matt Richardson, Marti Subrahmanyam)

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OUTLINE

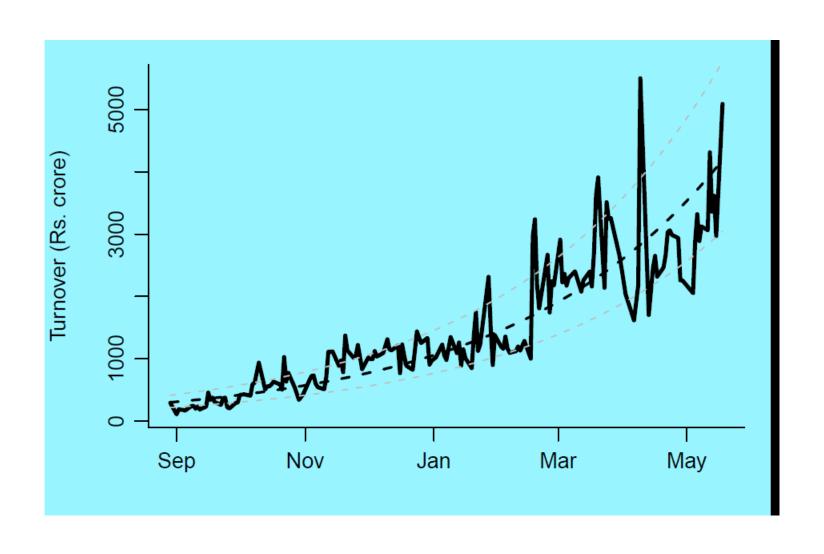
- Introduction
 - Indian landscape in derivatives
 - Making sense of it
- A case for markets and derivatives, even during and after crisis
- A critical assessment of the Indian landscape
 - OTC versus Centralized trading of derivatives
 - More generally
 - In India
- Five recommendations

INTRODUCTION

Some news and facts

- Successful single -stock and index futures and options
- Reasonably successful commodity derivatives
 - Spot delivery and prices an issue in agri-commodities
- IR futures contract launched on NSE, 31Aug09
 - 10 year contract only
 - NRIs banned
- FX futures contract introduced earlier
 - INR/USD only
 - FIIs /N R Is banned
 - Deemed reasonably successful (now \$1bln turnover)
- W hatever is not yet approved is banned
- More products likely to be introduced in future though no clear plans laid out yet

Turnover in FX futures contract



Some news and facts (cont'd)

- Until now, versions of FX and IR futures forwards were only traded over-the-counter (OTC) by banks
 - Banks and primary dealers can do OTC trades in these and other derivatives (swaps, options) with "hedging" counterparties (typically other banks or firms)
- However, banks still cannot participate in the equity and commodity derivatives
 - Commodity price risk and credit risk in underlying bank positions cannot thus be readily hedged
- Banking regulator (RBI) in charge of OTC markets
 product design, participation, risk controls
- Other regulators (SEBI, FMC) for exchanges

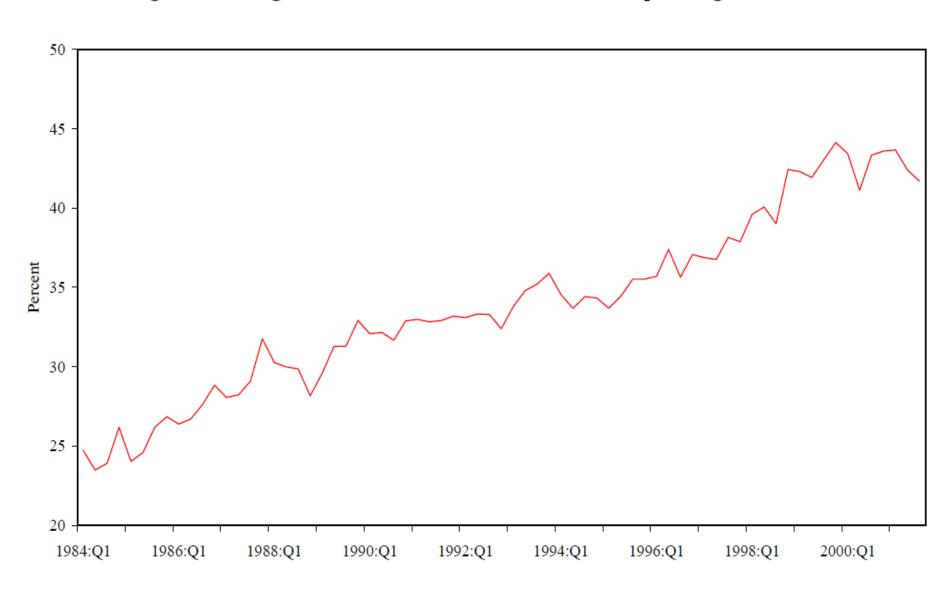
Making sense of the current landscape

- A Glass-Steagall style regulation of scope:
 - Though hedging options to banks are limited, benefit is that risky, speculative activity "descoped" from banks
 - Banking sector stability critical for HHs and SMEs, sector is effectively guaranteed, and partly state – owned
- Such separation is increasingly deemed by some as reasonable, controversially so, for financial stability
 - See next six slides
 - Traditional issues of risk management, price
 discovery, liquidity have recently been replaced by

Concerns from the crisis of 2007-09

- Did governments effectively underwrite /insure a ton of massive speculation by the banking sector?
- Is banking sector still performing the monitoring and screening role for which it is deemed "special" and accorded government guarantees?
- Did the excessive securities activity of banks allow them to construct "carry trades" at expense of taxpayers, leading to their insolvency?
- See charts for the US: Diversification in

Figure 1: Rising Share of Noninterest Income in Net Operating Revenue



Note: Noninterest income as a share of net operating revenue (noninterest income plus net interest income). Source: Aggregate data from FDIC.

Figure 2: Noninterest Income is More Volatile than Net Interest Incom

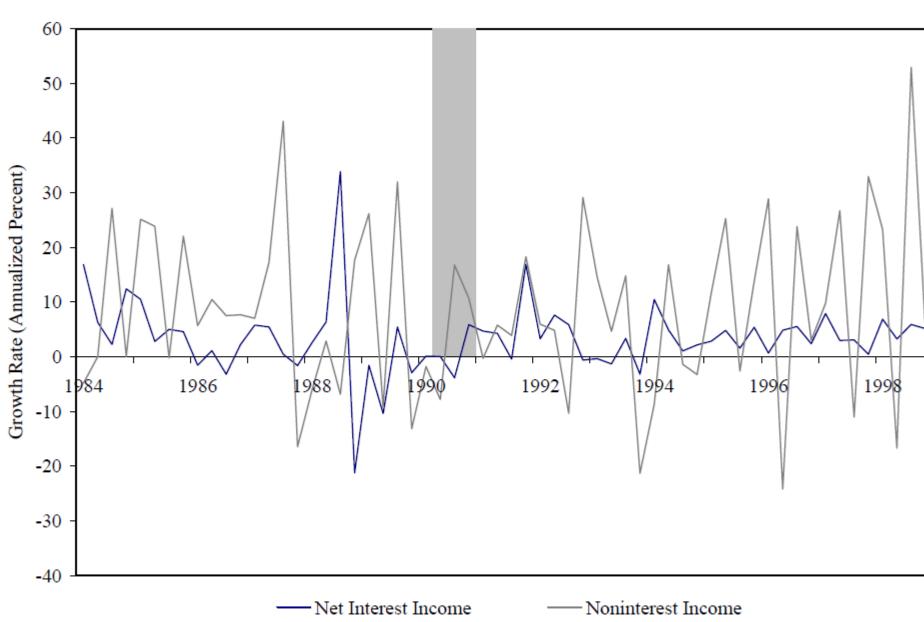


Figure 3: Trading is the Most Volatile Type of Noninterest Income

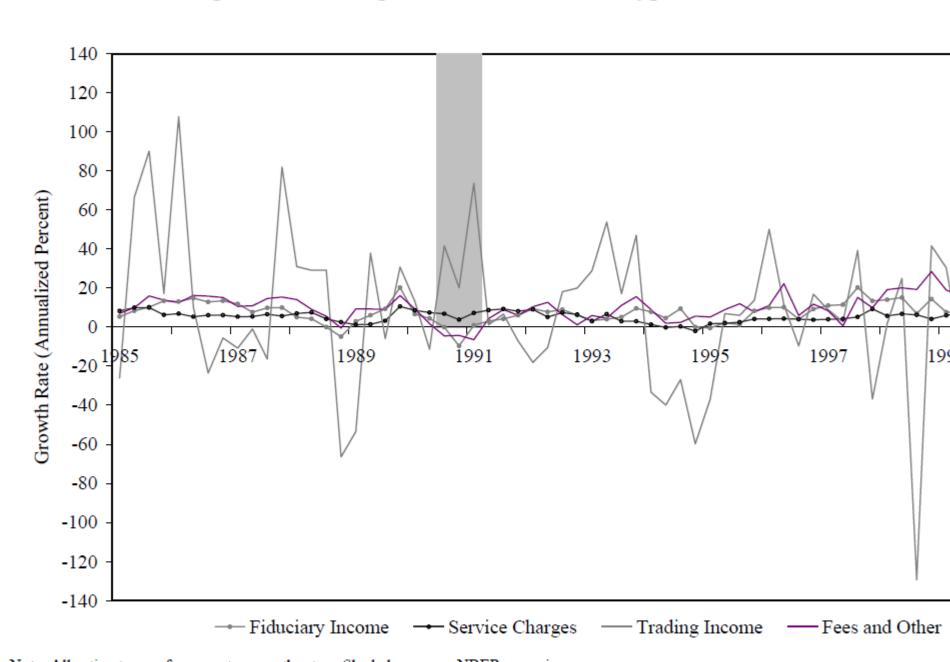
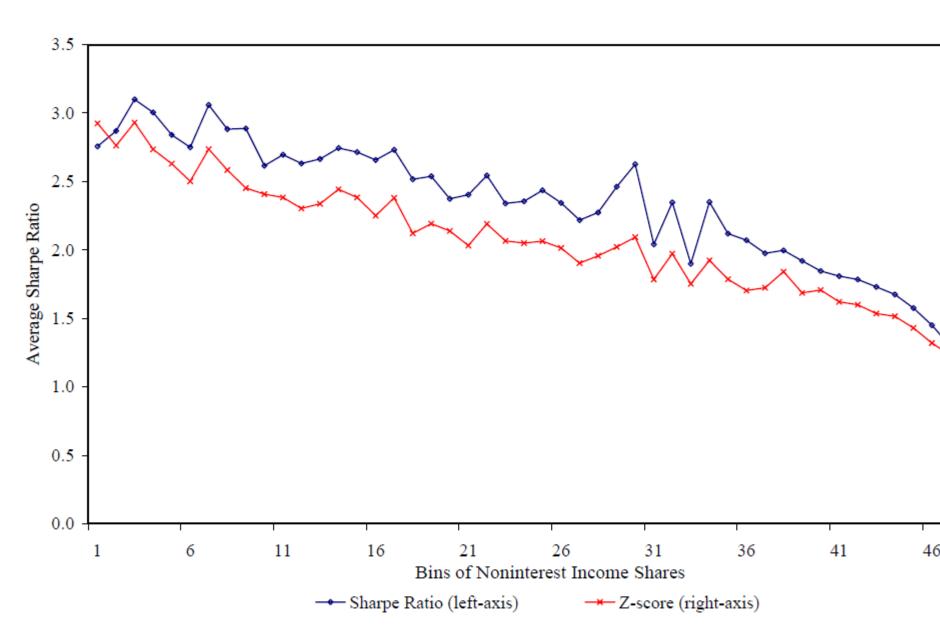


Figure 8: Relation between Risk Measures and Noninterest Income Sha



Note: Sharpe Ratio is average return on equity (ROE) divided by the standard deviation of ROE. Z-score is the average return on asset

Exhibit 3 Major Wholesale Banks Write-downs and Exposures - Q2-08

	¾ UBS	Investment Bank	CREDIT S	UISSE	Deutsche E	Bank 🗾	O _{JPM}	organ	cí	tì	Merri	ll Lynch	Morgan (Stanley	Goldm Sachs		LEHMAN BE	ROTHERS
EQUITY (US\$bn)	2Q08	31.12. 2006	2Q08	31.12. 2006		31.12. 2006	2Q08	31.12. 2006	2Q08	31.12. 2006	2Q08	31.12. 2006	2Q08	31.12. 2006	2Q08	31.12. 2006	2Q08	31.12. 2006
Equity attr. to s hareholders	43.5	40.5	35.8	21.3	50.3	43.3	127	115.8	109	118.8	21.1	35.9	33.4	34.3	39.7	32.7	19.3	18.1
WRITEDOWNS (US\$bn)	2Q08	Cumu- lative	2Q08	Cumu- lative	2Q08	Cumu- lative	2Q08	Cumu- lative	2Q08	Cumu- lative	2Q08	Cumu- lative	2Q08	Cumu- lative	2Q08	Cumu- lative	2Q08	Cumu- lative
Leveraged loans 1	0.2	0.5	0.1	2.8	0.3	3.9	0.7	3.1	0.4	4.2	0.3	1.9	0.5	2.3	0.8	2.8	0.4	1.3
Total subprime ²	1.1	22.4	(0.5)	4.4	0.3	0.3	0.4	2.2	6.0	32.5	6.9	3 4 .2	0.4	8.8			2.0	3.6
Other M BS A BS	3.4	18.7	0.5	1.9	2.9	5.9		1 .4	0.9	2.5	0.7	2.3	0.3	2.1		1.0	1.7	2.8
Total MBS/ABS write-downs	4.5	41.1	(0.1)	6.3	3.2	6.2	0.4	3.6	6.9	34.9	7.6	36.5	0.7	10.9	0.0	1.0	3.7	6.4
Total	4.7	41.6	0.0	9.1	3.5	10,0	1.1	6.7	7.3	39.1	8.0	38.3	1.2	13,2	8.0	3.8	4.1	7.7
EXPOS URES (US\$bn)		2Q08		2Q08		2Q08		2Q08		2Q08		2Q08		2Q08		2Q08		2Q08
Leveraged loans		6.8		14.0		38.3		18.9		24,2		7.5		22,3		11		11.5
US Subprime exposure 3		6.7		1.9		2.9		1.9		22.5		8.3		0.3		1.8		3.4
US Alt-A exposure		6.4		1.1		5.9		10.6		16.4		1.5		2.4		4.7	1	
US Prime exposure		6.1		0.7				8.9				3 3 .7	[8.5	<u></u>	1 0 .2
Other MBS ABS exp.		11.8		2.7								7.4	<u></u>	4.3				11.3
CMBS exposure		6.5		1 4 .7		1 6.7		11.6		45.1		1 4 .9		6.4		17.0		29.4
Total MBS/ABS exposure		37.5		21.1		25.5		33.0		84.0		65.8		13.4		32,0		54.3
Total		44.3		35.1		63.8		51.9		108,2		73.3		35.7		43.0		65.8

SOURCE: Competitor 2Q result announcements and pre-announcements; transcripts; brokers' notes; 10-Q filings

Data: UBS AG. Source: Chapter 5 "Enhanced Regulation of Large, Complex Financial Institutions" (Saunders, Smith and Walter) from *Restoring Financial Stability*

^{1.} Net of hedges and underwriting fees

^{2.} Net of hedges

^{3.} Exposure net of hedges (except for LEH) or monoline in surance

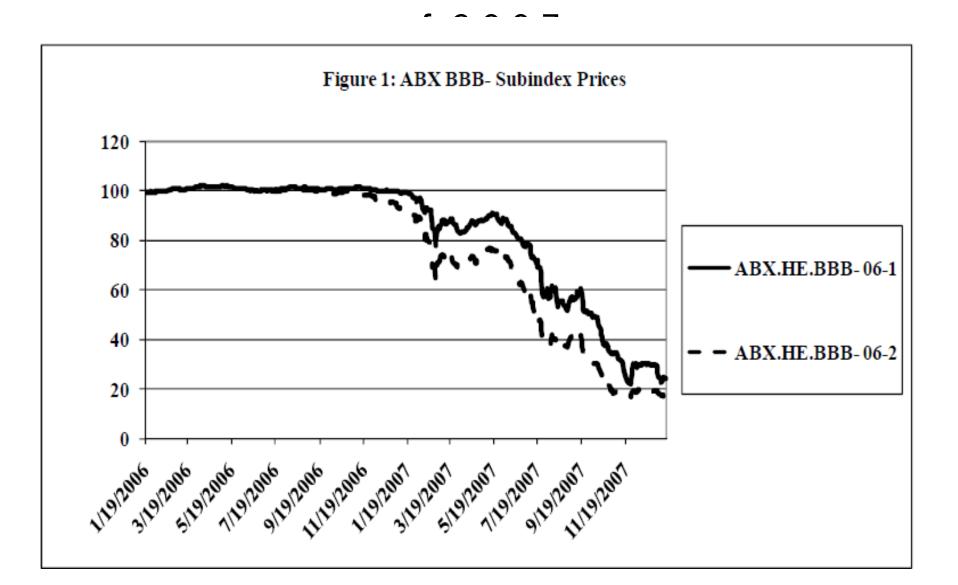
COULD THIS HAVE BEEN AVOIDED?

- Solution I: Prevent banks from undertaking securities activities where counterparties could be speculators, constituting a special form of <u>Glass</u>-<u>Steagall</u>
 - How will banks hedge? In OTC markets, perhaps?
 - NOTE: Problems in this crisis rose in OTC not exchanges
 - Needs sophisticated accounting /regulation of OTC
- Solution II: Do not restrict scope of banks to securities activities, but employ efficient risk – control mechanisms such as centralized clearinghouses (CCHs) to develop well-regulated markets

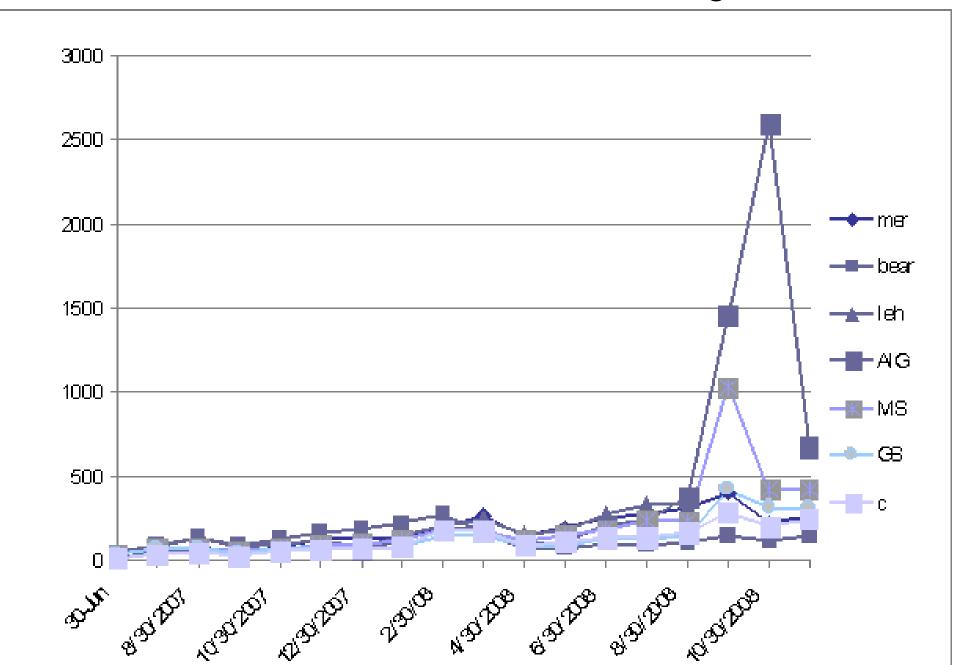
IS THERE (STILL) A CASE FOR DERIVATIVES AND MARKETS GIVEN THE CRISIS?

- Financial innovation went awry in the crisis due to
 - Poor institutional infrastructure (OTC)
 - Incentive problems
- A case for derivatives and markets IN SPITE of crisis
 - In absence of indices revealing the risk of subprime tranches, crisis would have been triggered much later than it did reducing response times (Gorton, 2008)
 - Even during stress in CDS markets, the relative ranking of risk was accurate
 - Magauras of avatamia rick based on are origin data

Gorton (2008): Information, Liquidity and the (Ongoing) Panic



Behavior of CDS during the



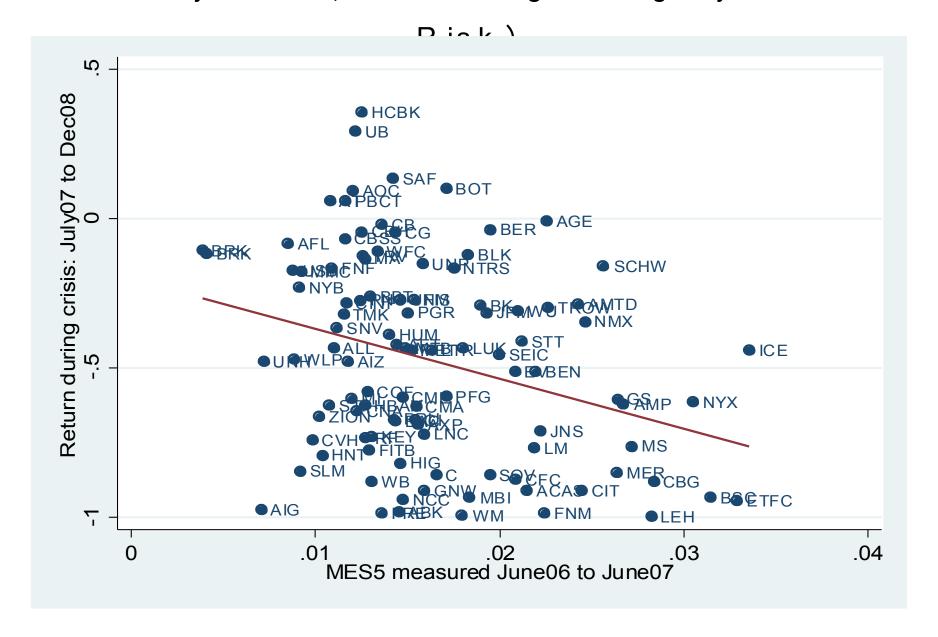
Temporary Liquidity Guarantee Program - UK

Bank	Median 3-	Median 5-	UK Loan	"Fair-price" of
	year C D S	year C D S	Guarantee	guarantee
	fee in year	fee in year	fe e	(average 3-year
	ending 7	up to 7 Oct	(m edian 5-	CDS spread in
	Oct 2008	2008	year C D S +	Nov 2008)
			50 bps)	
Abbey National	5 6 .5	72.6	112.6	71.2
Barclays	66.0	81.4	1 3 1 .4	1 3 5 .7
нвоѕ	93.3	112.7	1 6 2 .7	1 1 7 .4
H S B C	48.5	58.8	108.8	1 0 2 .1
Lloyds TSB	55.6	62.5	112.5	82.7
N a tio n w id e	1 2 2 .8	1 2 8 . 3	178.3	1 2 3 .0
RBS	73.5	85.9	1 3 5 .9	1 2 0 .8
Std. Chartered	50.3	67.5	117.5	1 2 4 .1
Average	70.8	83.7	133.7	109.6

Temporary Liquidity Guarantee Program - US

Bank	Median 3- year CDS fee in year ending 7 Oct 2008	Median 5- year CDS fee in year up to 7 Oct 2008	Loan Guarantee fee	"Fair-price" of guarantee (average 3-year CDS spread in Nov 2008)
Bank of America	71.0	85.0	7 5	1 2 6 .0
Citigroup	100.0	115.2	7 5	238.3
Goldman Sachs	109.0	107.0	7 5	3 2 1 .0
JP M organ C hase	70.6	85.0	7 5	1 1 5 .8
Morgan Stanley	174.1	159.4	7 5	475.7
Average	104.9	110.3	75	255.4

"Tail beta" pre-crisis and in-crisis returns
(A charya et al, 2009: Regulating Systemic



Ranking by systemic risk (MES and

\$MES)

MES (per share & \$)		
Ranking based on MES as of June 07	MES (%)	MES (\$)
E TRADE FINANCIAL CORP	1	37
BEAR STEARNS COMPANIES INC	2	20
C B RICHARD ELLIS GROUP INC	3	54
LEHMAN BROTHERS HOLDINGS INC	4	12
MORGAN STANLEY DEAN WITTER & CO	5	4
GOLDMAN SACHS GROUP INC	6	5
MERRILL LYNCH & CO INC	7	6
SCHWAB CHARLES CORP NEW	8	16
C I T GROUP INC NEW	9	50
T D AMERITRADE HOLDING CORP	10	42
T ROWE PRICE GROUP INC	11	36
EDWARDS A G INC	12	68
FEDERAL NATIONAL MORTGAGE ASSN	13	8
JANUS CAP GROUP INC	14	76
FRANKLIN RESOURCES INC	15	13
LEGG MASON INC	16	44
AMERICAN CAPITAL STRATEGIES LTD	17	62
STATE STREET CORP	18	24
COUNTRYWIDE FINANCIAL CORP	19	27
EATON VANCE CORP	20	75

MES (per share & \$)		
Ranking based on \$ MES as of June 07	MES (%)	MES (\$)
CITIGROUP INC	31	1
JPMORGAN CHASE & CO	24	2
BANK OF AMERICA CORP	49	3
MORGAN STANLEY DEAN WITTER & CO	5	4
GOLDMAN SACHS GROUP INC	6	5
MERRILL LYNCH & CO INC	7	6
WELLS FARGO & CO NEW	55	7
FEDERAL NATIONAL MORTGAGE ASSN	13	8
AMERICAN INTERNATIONAL GROUP INC	90	9
WACHOVIA CORP 2ND NEW	57	10
AMERICAN EXPRESS CO	36	11
LEHMAN BROTHERS HOLDINGS INC	4	12
FRANKLIN RESOURCES INC	15	13
METLIFE INC	39	14
WASHINGTON MUTUAL INC	28	15
SCHWAB CHARLES CORP NEW	8	16
PRUDENTIAL FINANCIAL INC	50	17
BANK NEW YORK INC	25	18
FEDERAL HOME LOAN MORTGAGE COR	53	19
BEAR STEARNS COMPANIES INC	2	20

Solution II: Clearinghouses

- Bank participation in exchange—traded FX and IR products already signals a departure from pure Glass—Steagall approach (Solution I)
 - Step forward: E.g., OTC swaps hedged by ED futures
- Three questions:
 - Is the current regulatory structure with co-existing OTC and exchange products sustainable, or even desirable?
 - How to best deal with the transition to more developed markets? Is there institutional capacity for transition?

OTC VS. CENTRALIZED MARKETS

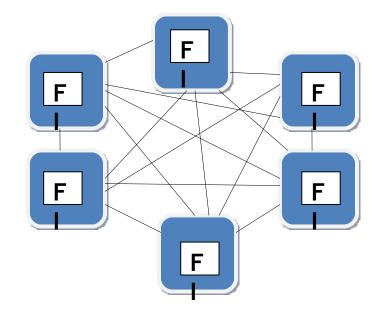
TOXIC ASSETS PURCHASED OTC

- The vast quantities of assets that are now considered "toxic", were all purchased over the counter or OTC (or created to be held).
- We still do not know the volume of many of these.
- We still do not know the guarantees that have been written on assets (by A.I.G., for example) that will soon be binding.
- RBS (ABN AMRO) and State Street disclosed conduit-linked losses of \$40 and \$10 billion,
 respectively, as late as January 20/21 20091

Major Issues with OTC Trading in Derivatives

- Counterparty risk externality
 - If A sells insurance to B, turns around and sells 100 such additional insurances without additional capital, then A has diluted B's insurance claim on A
 - Hence, B needs to know "what else is being done"
- Transparency
 - -prices, volumes, and open interest
 - -risk exposure
- Hedging vs speculation (Indian context)

OTC Trading



But any other structure may also arise

And in OTC, no one knows which structure is at

work

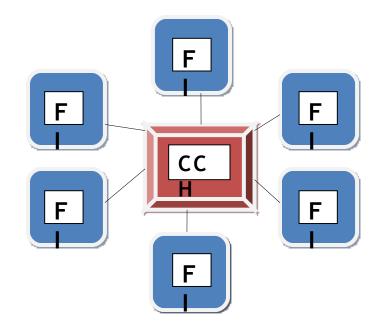
A TRANSPARENCY PROPOSAL FOR OTC MARKET

- Every trade and the associated contract should be posted in a standard form on the Internet within some time frame (example: TRACE for corporate bonds)
- Counterparties could verify the accuracy
- Third party vendors could aggregate this data and help investors assess counterparty risk
- Regulators could today publish this on many popular contracts. Data can be made available to regulators and put on the web for participants.
- Check out DTCC's disclosure for Credit Derivatives.

CENTRALIZED COUNTERPARTY

- Even better solution to counterparty risk is to have a centralized counterparty (CC).
- After a bilateral contract is agreed to, the parties each specify the centralized counterparty as their counterparty.
- The centralized counterparty sets margins and collects payments in advance to insure its positions.
- Failure to post margins leads to contract term ination without loss to CC (if margins are

CENTRALIZED COUNTERPARTY



CCH knows exactly, at least locally for that markets,

WHAT ELSE IS BEING DONE!

EXCHANGE

- On an exchange there is a centralized counterparty that does all the financial clearing and payments.
- For long horizon contracts, margins are posted.
- Position limits are generally imposed.
- In addition, on an exchange, you do not know the counterparty and the process of price discovery leads to potentially better pricing.

WHY NOT MOVE ALL OTC TO CC or EXCHANGES?

- Only highly standardized contracts can be moved to CC or Exchanges.
- Only high volume contracts are suitable.
- We will surely have many OTC contracts.
 - Newer, customized products
 - Smaller markets
 - Institutional markets
 - Up to a size, OTC ok and does not pose system ic risk
 - Large size OTC markets -> Move them to CCP/Exchange

SUMMARY: FOUR MODELS

- O T C
- REGISTRY Data warehouse with some transparency
- CLEARING HOUSE Centralized counterparty for all trades
- EXCHANGE

Four possible solutions to and their relative merits

Market Characteristi c	ОТС	Registry (Solution I)	Clearing House (Solution II)	Exchange (Solution III)
trading style	bilateral negotiation	bilateral negotiation	bilateral negotiation	continuous auction
market participants	large well- capitalized firms	large well- capitalized firms	well- capitalized counterpartie s only	retail trade possible; largest trades in upstairs market
flexibility/ standardizati on of contracts	maximum flexibility	maximum flexibility	flexible terms; standardized credit enhancement	largely standardized contracts

Market Characteristic	ОТС	Registry (Solution I)	Clearing House (Solution II)	Exchange (Solution III)
counterparty credit risk	substantial	substantial	little to none	little to none
collateral/ margin requirements	bilateral negotiation and management	consistent mark to market valuation of positions and collateral; required amounts set bilaterally by counterparties	consistent mark to market valuation of positions and collateral; required amounts standardized and set by Clearing House	consistent mark to market valuation of positions and collateral; required amounts standardized and set by Clearing House

Market Characteristic	отс	Registry (Solution I)	Clearing House (Solution II)	Exchange (Solution III)
price information	largely opaque; daily quotes available	largely opaque; daily quotes available	more transparent; daily settlement prices publicly available	transparent to all
volume and open interest information	opaque	largely opaque	more transparent	transparent to all
information on large trader positions	opaque	available only to regulators	available only to regulators	available only to regulators
netting of cash flows	bilateral only	yes	yes	yes
netting of offsetting positions	bilateral only	bilateral only	yes	yes
secondary market	only by mutual agreement between counterparties	only by mutual agreement between counterparties	yes	yes

THE INDIAN CONTEXT - OTC VS EXCHANGES

OTC in the Indian context

- Repo and other inter-bank markets through CCIL
 - Excellent idea to clear centrally, one that most missed!
- One leg of other OTC contracts always a regulated bank, another typically a "hedge" by a corporation
 - Contract specs tightly regulated (e.g., no commodities)
 - Requirement of (effectively) real-time disclosure of positions, and monitoring that banks are in turn monitoring corporations to ensure contract is a hedge
 - How can one be sure the firm is hedging? Especially, when firms could be doing trades on exchanges?
 - How do counterparties know what else is being done?
 - Answers get murkier with newer products

Hedging or Speculation?

Merton H. Miller in a conversation with the treasurer of a medium—sized oil company in Chicago who bemoaned his company's losses when the Gulf war's end brought down the price of oil:

"It serves you right for speculating and gambling,"
Miller told him. "Oh, no, we didn't speculate. We didn't use the futures market at all," insisted the treasurer. "That's exactly the point," Miller replied. "When you hold inventory, non-hedging is gambling. You gambled that the price of oil would not drop and you lost."

Co-existence of OTC and exchanges

- OTC markets best for new, customized products
- Often, OTC products are "close" versions (clones!) of exchange -traded products; any real benefits?
- Free markets should ensure no arbitrage between similar products but OTC may have private benefits to some players (information, opacity...)
- But with participation restrictions (as in India), it is useful to ask who will play the arbitrageur?

OTC and exchange issues

- Corporate treasuries, NBFC's, FII's act as arbitrageurs
 - If a corporation has an exchange traded exposure and wants to hedge with OTC, is that allowed?
 - Even if there is a true underlying exposure, the corporate treasury can "misestimate" its hedge ratio and speculate!
 - Metallgeselschaft, AG (using a mix of OTC and exchange products)
 - Also, isn't the counterparty bank effectively sharing its risks with exchange participants, but through a corporation?
 - Then, why not let banks be the direct arbitrageurs?
 Risk?

Things have worked well so far...

- Does that mean the infrastructure is sufficient?
 - E.g., OTC trades are self-reported unlike at exchanges
- Evidence that as markets and players get more sophisticated, any available regulatory arbitrage gets finessed and regulatory burden in OTC rises
 - Catching "criminals" rather than avoiding "crimes"
- Two guiding principles:
 - Ensure arbitrageurs are sophisticated players
 - Harmonize regulation; move large standardized

My overall assessment

- 1. Regulatory desire to curb leverage and ring-fence the government guarantees has prudential basis
 - -Restricting scope of banks is one way of approaching risk regulation, but not without its share of limitations
 - But importantly, well-regulated markets are gradually evolving in most part of securities space
- 2. How tenable are the participation restrictions?
- 3. <u>How to best deal with transition from OTC to</u> centralized markets?
- 4. Can we have some "big-bang" changes?

RECOMMENDATIONS: SOME "BIG BANG" CHANGES

Five recommendations

 Rapidly privatize, or as a second-best at least professionalize, most of the banking sector

2. Build greater capacity in banks, DFIs, and corporations for derivatives usage

3. Employ efficient risk control mechanisms: CCPs, Portfolio & risk-sensitive margins, Position limits, OTC to CCP/exchange

Five recommendations (cont'd)

4. Conduct/sanction research on risk analysis of OTC/exchange trading, exposures, margining

5. Some new products/indices; removal of bans

1. Privatize banking sector

- An unstated concern with allowing banks to participate in exchange—traded derivatives is the lack of capacity, and thereby, potential risk, at public sector banks
 - E.g., would we want them writing deep OTM options whose risks are difficult to manage?
- In fact, market participants suggest poor technology for derivatives trading and hedging at Indian banks, public as well as private

Privatize banking sector (cont'd)

- Option I: Privatize most of the banking sector (e.g., Brazil in 90's, now just one public bank)
 - NOTE: Many foreign banks are in "temporary government ownership", not nationalized forever!
 - Greater competition, efficiency, deeper markets
 - Better incentivized and motivated workforce
 - Remove barriers to entry for private sector banks

2. Build institutional depth

- Concentrated institutional space: insurance, provident funds, mutual funds, etc.
- DFI's small players even in lightly regulated equity markets (cash or derivatives)
- Need a richer set of institutional participants
 - Domestic FI's: Hedge funds, Proprietary traders, Algorithmic trading ("noise" trading)
 - On level-playing terms with FII's
- Usual concern: Can they create havoc? Will they speculate too much?

Building institutional depth (cont'd)

- The key is to have efficient risk controls at product/trading level rather than by institution (see earlier discussion and point 3. to follow)
 - Important to ensure FI's are not "shadow banks" doing regulatory arbitrage with high leverage
- Example: Commodity derivatives participation
 - Concern that speculation could affect spot
 markets

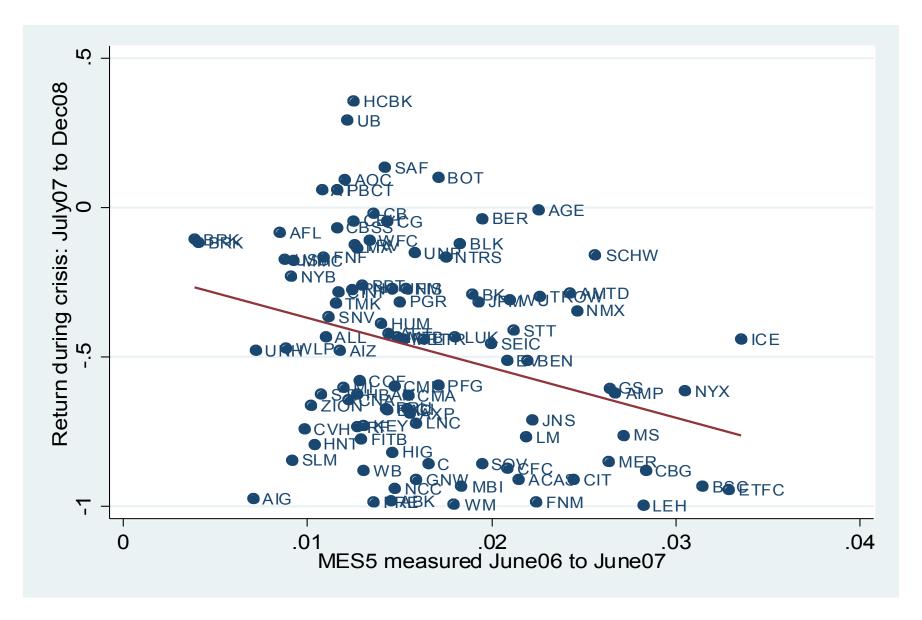
Building institutional depth (cont'd)

- Greater training in derivatives usage, risk assessment and risk management
 - Individuals
 - C orporate treasuries
 - NBFC's
- Information systems for enterprise -wide risk assessment and management
- Should the corporations be required to fully, and in detail, disclose their derivatives positions (hedges) with MTM profits /losses?
 - Impose a disciplining device on speculative excess

3. Control risks: Employ CCHs

- Historically, no CCH has failed
 - Capitalization provided by members, hence also an efficient privatization of counterparty risks
 - CLS bank in FX spot, an OTC market that worked seam lessly during the crisis
- Evidence that exchanges and CCH's are vulnerable during severe crises
 - Hence, ensure CCHs are extremely well-capitalized
 - Would regulators want to bail out a bank or a CCH?
- Employ position limits
 - Especially in thin markets where margining based on mark-to-market is difficult and liquidity risk is substantial
 - Tied to underlying volatility and capitalization of the player

Systemic risk ("tail beta")



Risk control mechanisms (cont'd)

- Better margining /collateral requirements
 - Portfolio approach
 - Risk-sensitive approach
 - Higher margins for weaker balance—sheets
 - Higher for OTC products
 - Liquidity risk
 - Quality of collateral
 - 100% cover for the largest exposure at each point (an implicit position limit)
 - Cross-platform standardization and exposure aggregation

Risk control mechanisms (cont'd)

- "One market principle"
 - A void duplication of products across platforms
 - A void multiple regulators in similar products with non-uniform restrictions
 - If OTC product is important and large enough to be on an exchange, simply migrate the OTC market completely to the exchange
 - OTC markets tend to have higher spreads, are opaque, confer artificial advantages to dealers (banks) and create barriers to entry
 - Classic example: Trading in corporate bonds since TRACE

4. Research

- Document and study effects of derivatives
 - Single stock and index futures, single stock and index options, FX futures, IR futures
 - Effects on cash market levels, price discovery and liquidity
 - W as exchange -based margining sufficient given realized volatility levels?
- Document and study type and extent of OTC product usage by corporations
 - Magnitude of hedging benefits, size of bank exposures
 - Quality of bilateral margining by banks

5. Innovations and deregulation

- Volatility indices a la VIX (see VLAB of NYU Stern for "demo")
- Liquidity indices for different markets
 - Market liquidity in equity, commodity, FX and IR products
- Infrastructure for secondary trading in loan sales
 - Significant bank balance—sheet risks still remain in loans rather than in securities
- Corporate bond market
 - Elicit retail participation through de-mat accounts
 - Create a common platform as gilts or equities for trading of foreign-currency bonds of Indian corporations
 - Should lead naturally to setting up of CDS markets
- Credit default swaps: Loan CDS as well as Bond CDS
 - Credit-risk management tool for banks
 - Price-discovery on corporation credit risk, especially given
 the foreign currency borrowings

Innovations and deregulation (cont'd)

- Allow short-selling
 - Create infrastructure and margining for securities borrowing and lending, in equities and bonds
 - Short-selling reveals negative information and prevents sudden downward price jumps
 - Perhaps ok to maintain the ban on naked short sales

• In absence of short—selling, derivatives do not just help customize existing risks but in fact enable taking a view on risks intended to be banned!

Conclusion

• If we can improve trading and market infrastructure and regulation at a <u>RAPID</u>
<u>PACE</u>

The pace of innovation will then follow

Markets will be well-regulated

 And systemic risk and financial stability preserved