NEAEF

The Cause and the Cure of the Current U.S. Financial Crisis

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Prof. Yoshinori Shimizu, Ph.D. Hitotsubashi University Tokyo, Japan Two Largest Economies of the World (Japan & the U.S.) both experienced Bursts of Real Estate Bubbles

International Spread of the Financial Crisis

What's Wrong? What to Change?

The Cause: BIS International Banking Regulation

The Cure:
Use the Free Market Mechanism

1988: The Bank of International Settlement (BIS) introduced a Regulation for international banks to keep their own capital ratio more than 8% of the total assets. (2004: introduced revised version, Basel II) Assets (loans, securities, etc.) are limited to less than 12.5 times of its own capital. Limits the profit size.

Bank Loan, Capital Markets, Real Estate Markets

- · A Single, Unified, & un-separable Market
- · Only Banks are regulated
- Technical Progress in the Financial Markets

Bank's natural reaction Regulatory arbitrage

Securitization, new financial commodities, etc.

BIS Capital Regulation Changed the Global Financial Markets

BIS Regulation = Focuses only on the soundness of banks in a single consolidate financial and capital markets

 Financial Unbundling Securitization

Off balancing Assets
Establish unconsolidated SIVs
Growth of Investment Funds

Benefited banks in countries with large capital markets Created International Competitive Inequality

Bank's risks spread to the whole financial system True Risks have been covered up

Theoretical Expectation

Securitization

Isolating Risks from Banks
Raise the BIS Ratio
Specialize High Return Business

Enhanced Bank Soundness

Reality

Risk Isolation Impossible Un-separable & Complex Relationship between Banking and Capital Markets

- Banks gave large loans to buyers of Securitized loans
- Banks established SIVs that hold Securitized loans
- Vague SIV Consolidation Standard
 Cover up the Deteriorated Own Capital Ratio
- Accurate Valuation of Securitized loans Impossible Un-transferable Risk Information Poor Traceability to Original Assets

Defects of the BIS Regulation:

Regulates only banks
in a consolidated single & larger financial market
No Theoretical Rationale for enhancing bank soundness
No Evidence for enhancing bank soundness
Actual Implementation diverts from the theoretical
concept

Bank Management = To find the best mix of

- · Rate of return
- J · Bad loan ratio
- Own capital ratio Only this index is regulated
 - · Many other management indices

Pro-cyclicality (enlarges business fluctuations) an unchanged & unique risk level of the financial market Aggravates an economy at a time of macro-shock

Reality of the BIS Regulation Tier I (Globally uniform basic items) Tier II (Each country can define arbitrarily up to the amount less than Tier I)

Measures taken to keep the 8% capital ratio:

Definition of Tier II has been kept enlarged

- · 1988: 45% of unrealized profit from held equities,
- · 1990: Subordinate debts
- · 1998: 45% of revaluation of real estate properties
- · 1999: Deferred tax assets (effective tax rate times the future expected taxable income for over 5 years)

1998-1999: Public money Injection

This effort deserves credit.

· Otherwise, Japanese economy must have been

Much Worse!

Same with the successive bailouts in the U.S. now

- BIS Capital ratio
- Impossible for outsiders to know
- Too complex
- Use of own internal model are allowed for large banks
- Does not reflect true bank soundness

Hard for regulators to assess the correct value

Fig. 1
Ratio of Tier I and Tier II: Major Banks Average

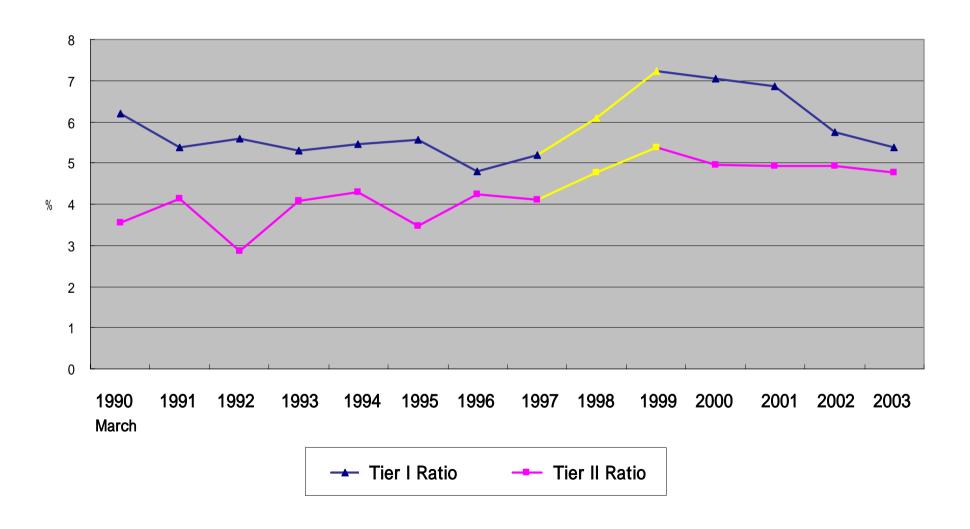
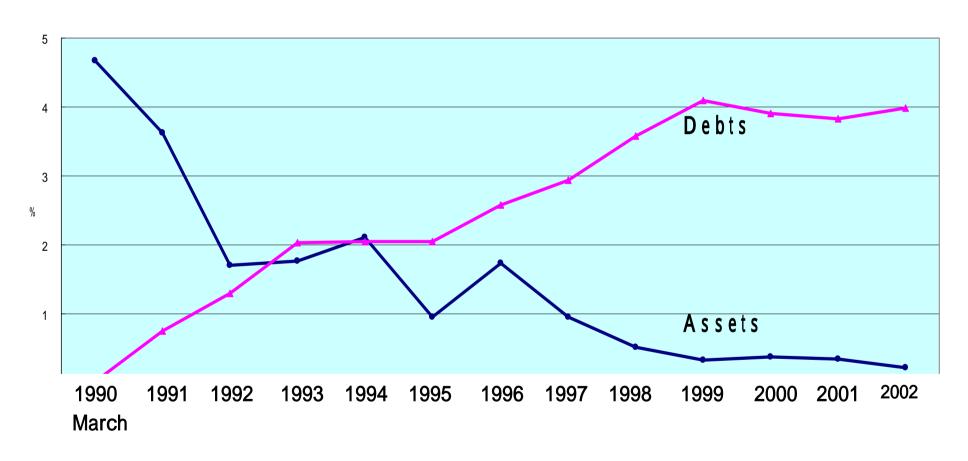


Fig. 2

Major Components of Tier II:

Ratios from Hidden Assets and from Debts

Major Banks Average



What is a Better Measure?

- · A Market-Valued Own Capital Ratio
- = (Total market value of the bank/Total asset)

A better & more transparent measure
Reflects true bank soundness
Markets see through true bank soundness
A bank fails when it drops to 2%
Negatively correlated with bad loan ratio

Let's take a look of the data

Fig. 3 BIS Ratio of City Banks

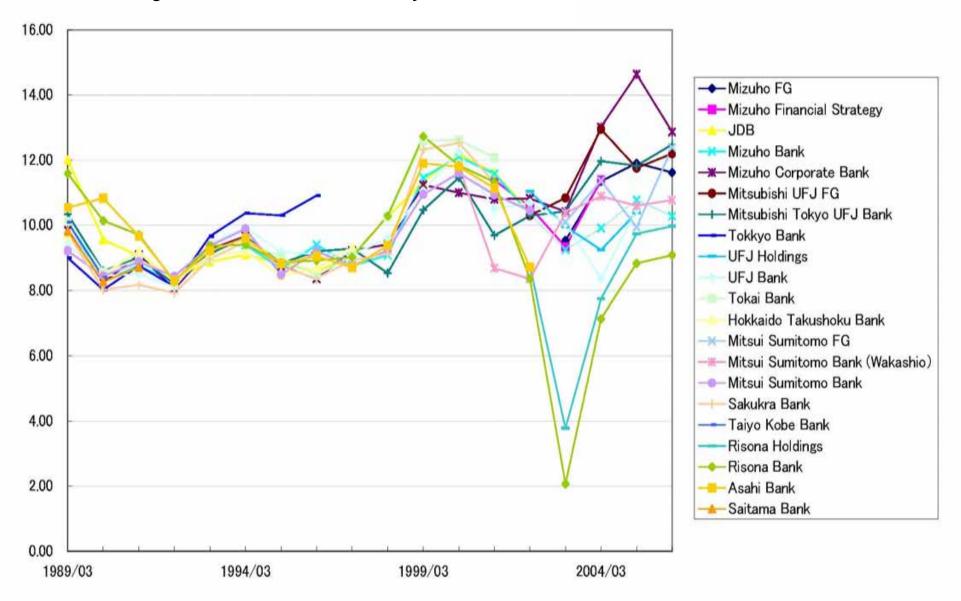


Fig. 4
Market Valuation of Capital Ratio: City Banks

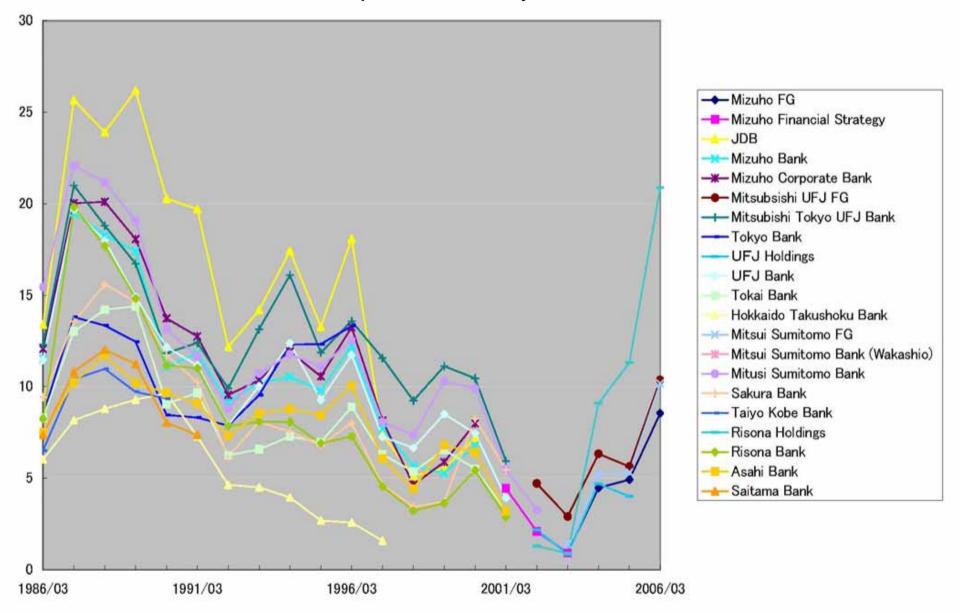


Fig. 5 BIS Ratio and Market Valuation of Capital Ratio: All City Banks Average

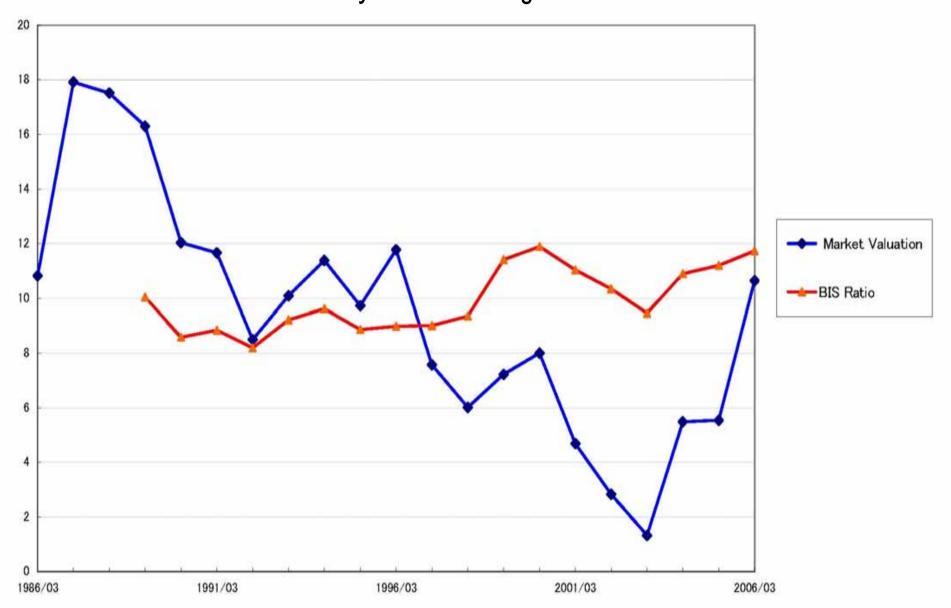


Fig. 6 Mizuho

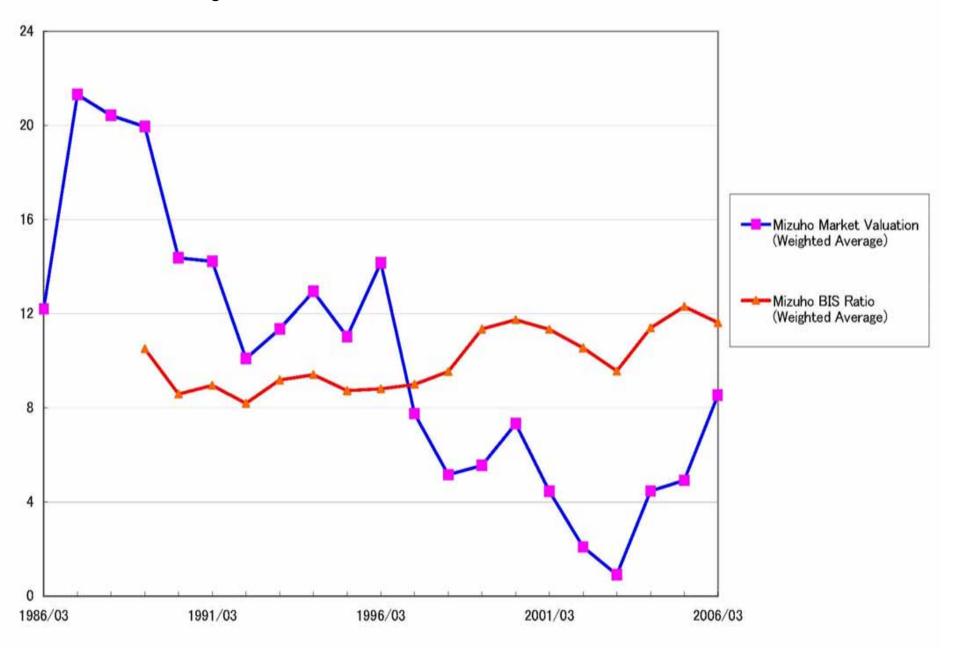


Fig. 7 Mitsubishi UFJ

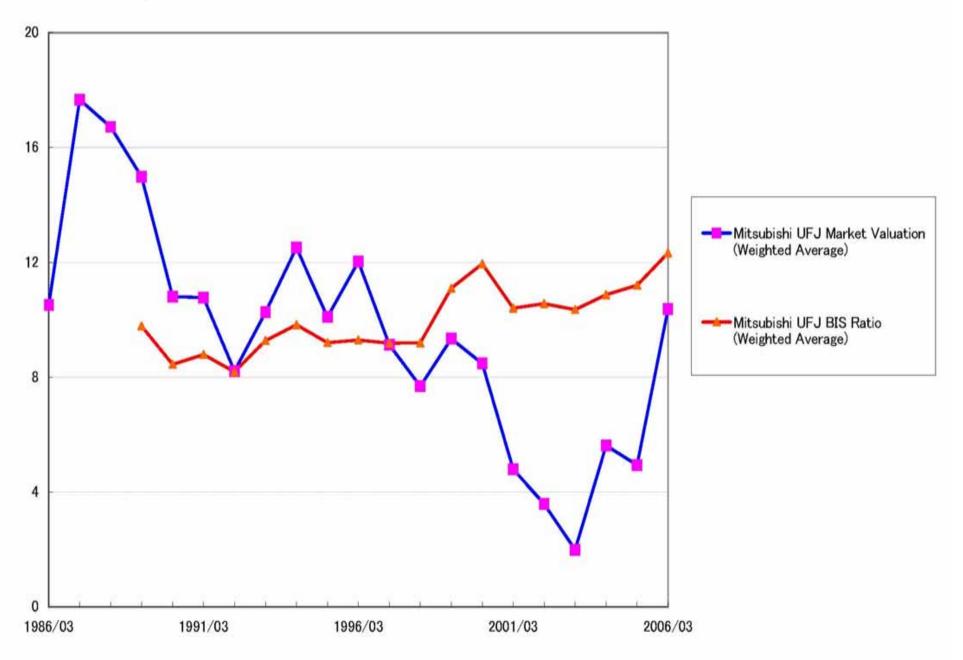


Fig. 8 Mitsui Sumitomo

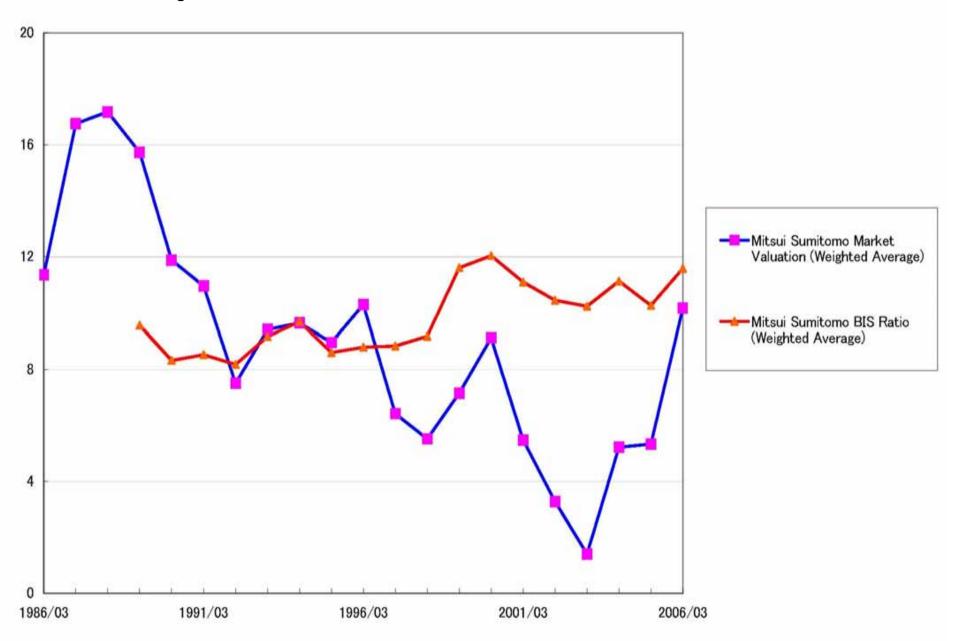


Fig. 9 Risona

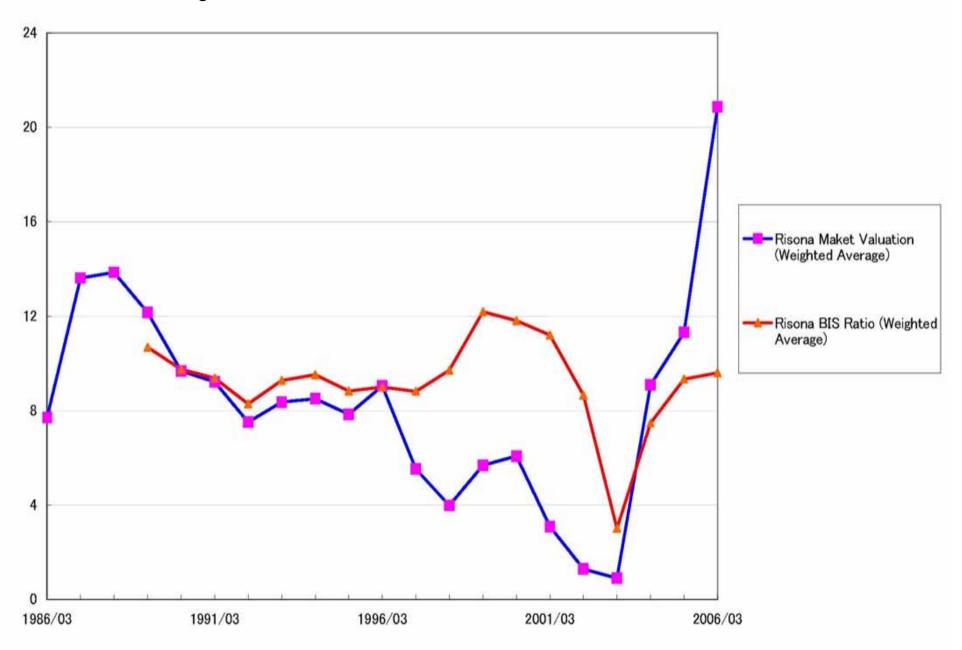


Fig. 10 Hokkaido Takushoku Bank

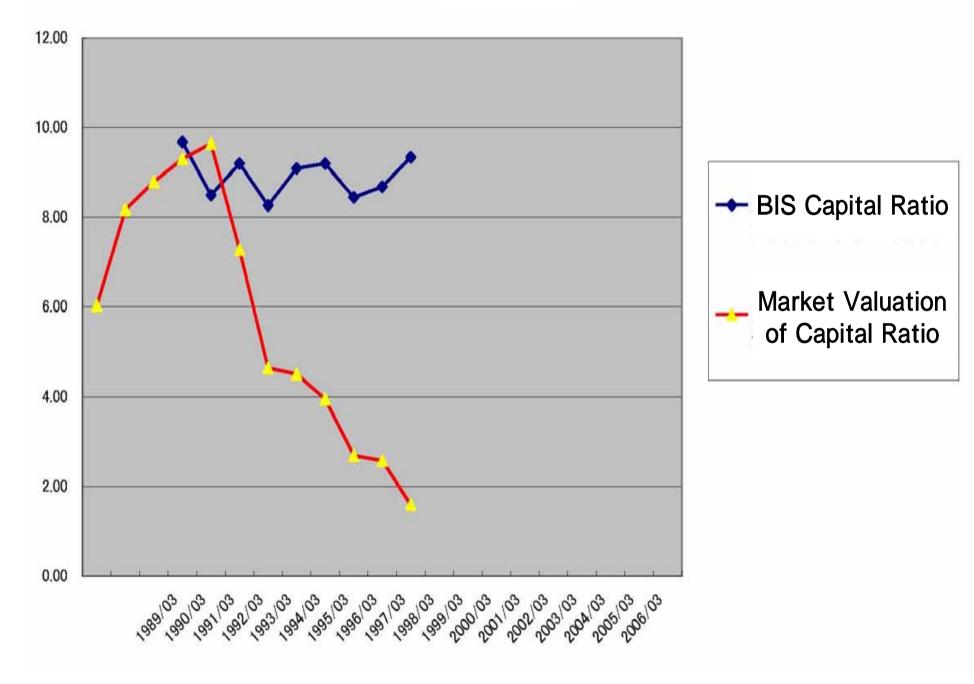


Fig. 11 Japan Long-term Credit Bank

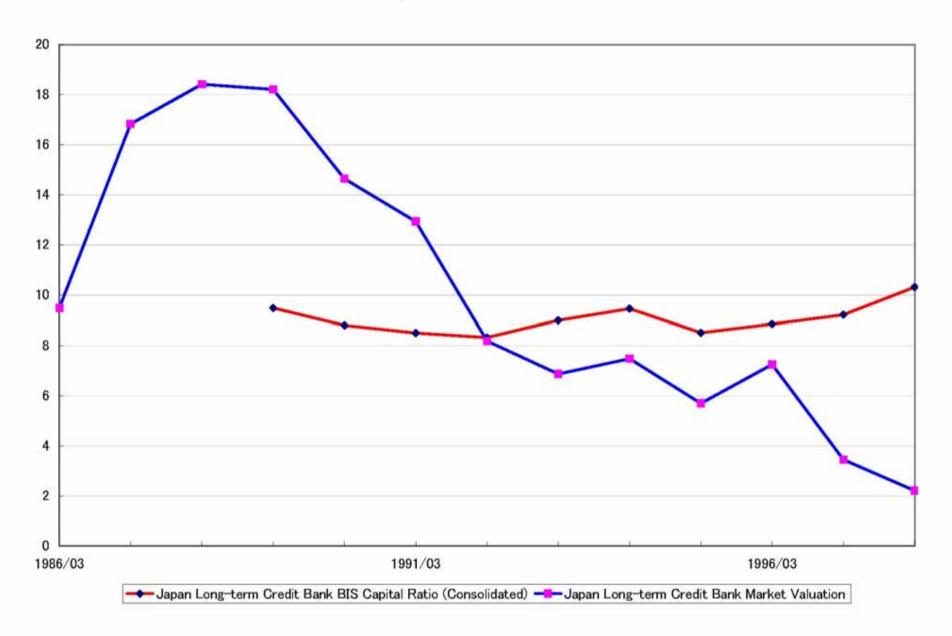


Fig. 12 Japan Credit Bank

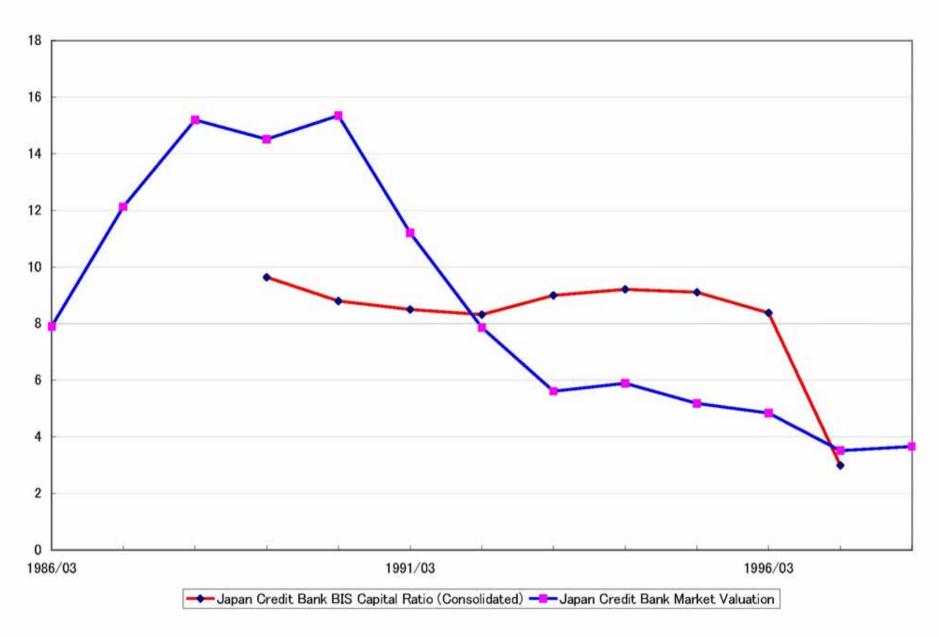


Fig. 13 Ashikaga Bank

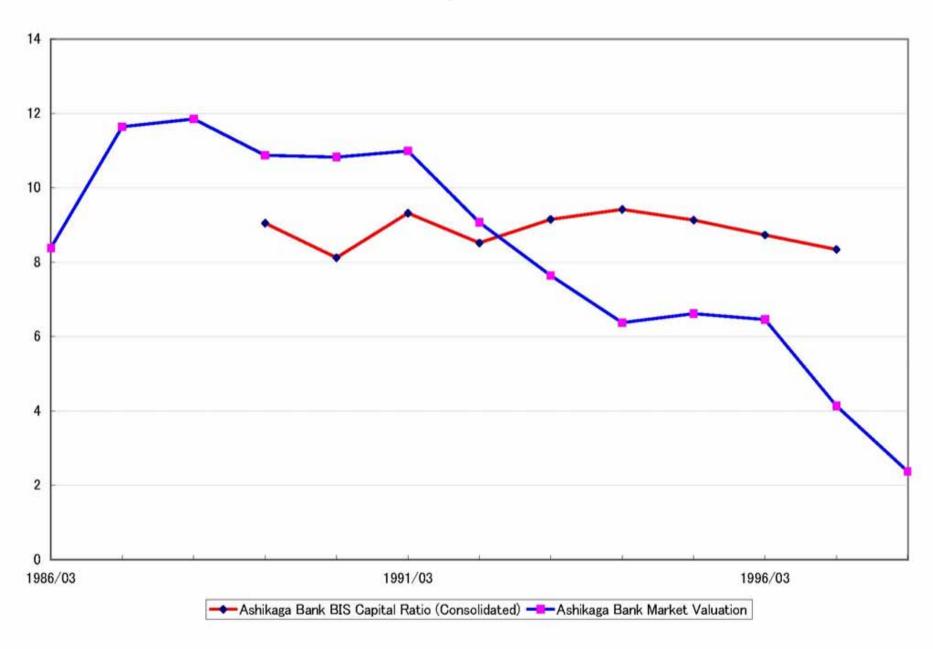


Fig. 14 Bad Loan Ratio: City Banks

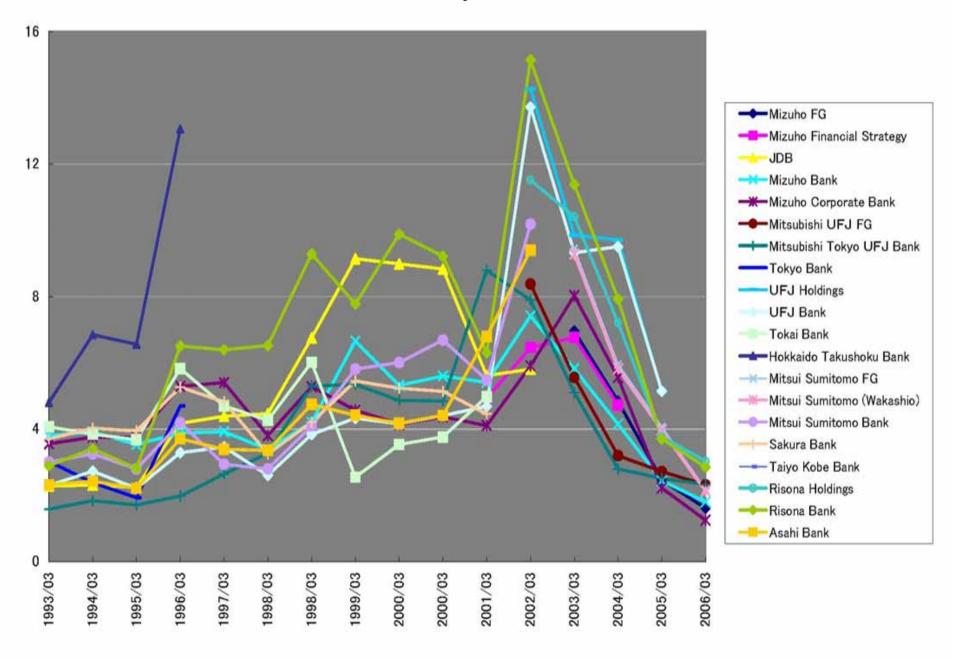
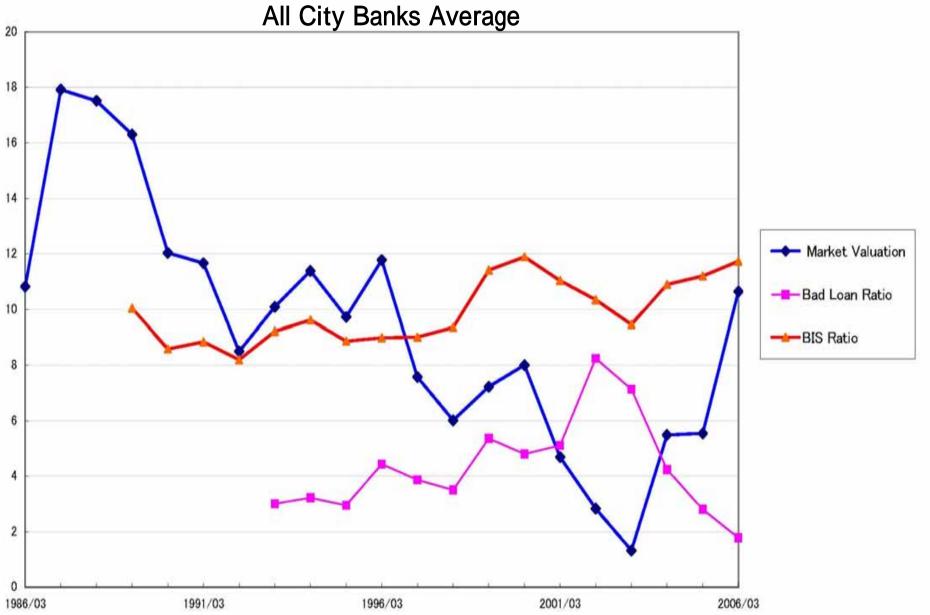


Fig. 15
BIS Ratio, Market Valuation of Capital Ratio, and Bad Loan Ratio:

All City Banks Average



Conclusion

The BIS capital regulation

has been obsolete through technical progress in the last 20 years has facilitated number of financial innovations that led to international consolidation of financial markets (Bank loan markets, Capital markets, Real estate markets, etc.....) has introduced a greater volatility to the global economy due to its pro-cyclicality.

has facilitated international spread of financial risks has obscured the real risks

The Market-valued own capital ratio

is a more accurate & more transparent measure of bank soundness

Let banks free to choose their own capital ratio
Once regulates, governments are captured
Let markets free to evaluate & control bank's behavior
Moral Hazard is ubiquitous!

Need to create global financial system free from moral hazard