

Non-Bank Financial Institutions and Financial Stability in a Regional Context

Guyana – January 15-16, 2014

INSURANCE FINANCIAL SOUNDNESS INDICATORS:

Sources, uses, and limitations

Samer Saab – Senior Partner - the hard number LLC

OUTLINE

o Definition

- o Sources and Uses
- **o** Insurance FSIs Core Sets
- **o** Interpreting FSIs
- Data gaps and challenges



WHAT ARE FSIS?

- Financial Soundness Indicators (FSIs) were developed by the IMF, together with the international community, with the aim of supporting macroprudential analysis and assessing strengths and vulnerabilities of financial systems.
- FSIs are constructed by aggregating <u>micro-</u> <u>prudential indicators</u> supervisors use to assess soundness of an institution.
- FSIs can detect risks to the financial system as a whole that might be missed by micro-prudential indicators.



USERS OF INSURANCE FSIS

- Central banks: monitor risk to monetary policy from financial stability
- Supervisors: assess risks to individual institutions to financial (in)stability
- Private sector: assess risks to investments from financial (in)stability
- IMF and other multilaterals: member surveillance (e.g. Art IV and FSAP) and global surveillance



SOURCES AND USES OF FSIS

Sources

- Institutions' balance sheets and income statements
- Supervisory reporting requirements

Uses

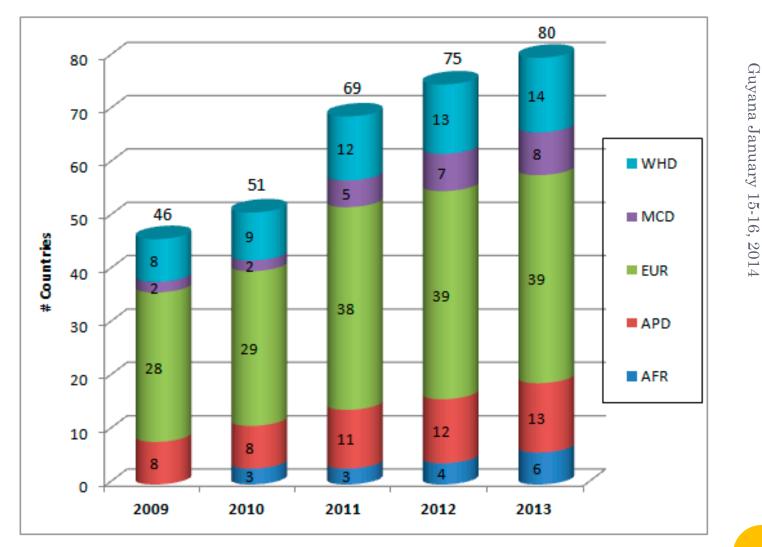
• To show state of institution, current and historical evolution

• To identify vulnerabilities

- Tracked over time developing vulnerabilities for specific institutions or groups e.g. foreign vs. domestic, life vs. non-life
- Comparisons across countries, but one needs to exercise care as regards to comparability
- Benchmark for stress testing, target assessments



Figure 1. FSIs Reporting Countries



Source : IMF's Statistics Department

• • * the hard number LLC consulting group

www.thehardnumber.com

6

FINANCIAL STABILITY IN A REGIONAL CONTEXT

NON-BANK FINANCIAL INSTITUTIONS AND

INSURANCE FSIS – CORE SET

| Category | Indicator | Guya |
|-------------------------------------|--|---|
| Capital adequacy | Net premium/capital Capital/total assets Capital/technical reserves | FINANCIAL STABILITY IN A REGIONAL CONTEXT Guyana January 15-16, 2014 |
| Asset quality | (Real estate + unquoted equities + debtors)/total assets Debtors/(Gross premium + reinsurance recoveries) Equities/total assets Nonperforming loans to total gross loans | |
| Reinsurance and actuarial issues | Risk retention ratio (net premium/gross premium) Net technical reserves/average of net claims paid in last three years Net technical reserves/average of net premium received in last three years | _ |



INSURANCE FSIS – CORE SET

and the second second

| Management soundness | Gross premium/number of employees Assets per employee (total assets/number of employees) | Guyana - |
|-------------------------------|--|---------------------|
| Earnings and profitability | Loss ratio (net claims/net premium) Expense ratio (expenses/net premium) Combined ratio = loss ratio + expense ratio Revisions to technical reserves/technical reserves Investment income/net premium Investment income/investment assets Return on equity (ROE) | January 19-10, 2014 |
| Liquidity | Liquid assets/current liabilities | |
| Sensitivity to market risk | Net open foreign exchange position/capital Duration of assets and liabilities | |



www.thehardnumber.com

8

NON-BANK FINANCIAL INSTITUTIONS AND

New Thinking on FSIs

- changes in regulatory concepts arising from the introduction of the Basel III Accord and Solvency II;
- maintain continuity of the existing set of core FSIs;
- develop new FSIs for NBFIs to recognize the heterogeneity of this sector and its increasing importance in the financial system;
- improve the usefulness of FSIs in identifying and monitoring systemic risks by producing and disseminating concentration and distribution measures



RECENT ADDITIONS TO INSURANCE FSI LIST

- Shareholder equity to invested assets [Capital]
- Total premium income minus premium ceded by primary insurers to total premium income [Risk retention ratio]
- Return on assets [Earnings and profitability]



INTERPRETING FSIS

- Analyze by peer groups; size, line of business, foreign/domestic.
- The three questions;

•What is the trend?

• Growth rates – net premiums written

•What is the level?

• Meet regulatory norms/targets

• Change in portfolios

• How does is compare to peer?

• Does it deviate materially from other institutions?

11



CAPITAL ADEQUACY

- It's an institutions life line to bear losses (buffer)
- Core capital (Tier 1, own funds) provides most conservative capacity
- No internationally recognized standard (yet!) RBC, Solvency I, Solvency II are geographically restricted initiatives
- Until now, fixed-ratio or risk-based indicators

Important qualitative issues to bear in mind

- Lines of business matters for non-life: for example worker's compensation vs. homeowner's insurance
- Low quality management means risk profile is higher
- What is the strategic plan going forward? i.e. a growth strategy (more risk taking) may need injection of more capital



www.thehardnumber.com

ASSET QUALITY

- Focus on potentially impaired assets (especially investments) and underwriting standards (credit control)
- Exposure to equities market vs. fixed income
- Valuation issues: book value or marked to market?
- Risk management tools: active hedging through derivatives?
- Bank activities? Loans quality



13

Juyana Januar

NON-BANK

INSTITUTIONS AND

A REGIONAL CONTEXT

ACTUARIAL ISSUES

- Risk retention ratio=risk bearing capacity: main underwriting strategy indicator. Also reflects portion of risk passed on to reinsurers.
- Determining the soundness of insurance liabilities is extremely difficult without detailed company-specific actuarial information.
- Adequacy of technical reserves is key for capital adequacy



NON-BANK

Juyana

January

, STABILITY

REGIONAL CONTEXT

14

TITUTIONS AND

EARNINGS AND PROFITABILITY

- Good stable earnings highlight efficiency of the institution's use of assets. Main source of long term capital
- What are sources of earnings? underwriting activities, investments or trading activities. Exposure to market risk (equity risk, interest rate movements etc)
- Does the institution have the ability to add capital through retained earnings? Mostly needed during growth periods or if risk is increasing
- Loss ratio (non-life) is an indicator of proper pricing policy while expense ratio relates to
 operational policy

LIQUIDITY

- Illiquidity is a major source of systemic risk (sounds familiar?)
- Timings of claims and benefits for insurance is always uncertain, and institutions are often exposed to maturity mismatches on balance sheet

16



SENSITIVITY TO MARKET RISK

- This includes both interest rate and equity price risk
- Does institution have a robust policy on investments?
- Investments at book values?



KEY CHALLENGES IN USING INSURANCE FSIS

- INFORMATION GAPS!!!! Small country samples, cross-border information sharing
- Assessing the level of risk associated an FSI value (benchmarking)
- Detecting vulnerabilities at an early stage
- Inadequate supervision/regulation capacity

18



GOING FORWARD: FILLING INFORMATION GAPS

- More empirical research on insurance failures
- Harmonized regulatory and supervisory regimes, in particular capital standards like Solvency II
- SIFIs, spillovers, and the Banks/Insurance Nexus
- Information collection and dissemination



19