

Finance to SMEs in Japan and Asia

The views expressed in this presentation are those of the author and do not necessarily represent those of the IMF or IMF policy.

Jongsoon Shin
Economist
Regional Office for Asia and the Pacific
January 27, 2014

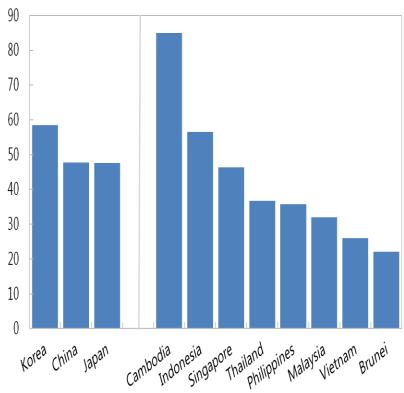
Outline

- Contribution of SMEs to an economy
- Challenges to SME financing
- Credit Information Issues
- Design of Risk Sharing
 - Debt Financing: Public Credit Guarantees and Collateral
 - Equity Financing: Risk Capital

SMEs' contribution to an economy in Asia: GDP and employment

Contribution to GDP of SMEs

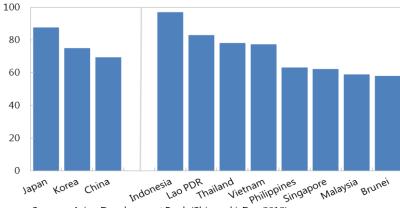
(In percent; and in year of latest available data)



Sources: Asian Development Bank (Shinozaki, 2012)

Number of Employees of SMEs

(In percent of total employees; year of latest available data)



Sources: Asian Development Bank (Shinozaki, Dec 2012)

Job creation shares by firm size and country income (In percent of total job creation; out of 85 countries)

70 ■ 5-19 employees 60 ■ 20-99 employees ■ 100+ employees 50 40 30 20 10 0 Median values Low income Middle income High income countries countries 1/ countries

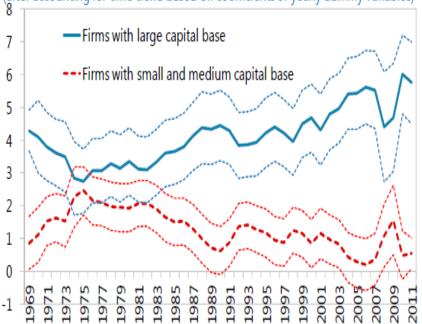
Sources: World Bank (2011, Ayyagari et al.)

1/ average of lower-middle income and upper-middle income countries

Challenges to SMEs: low profitability

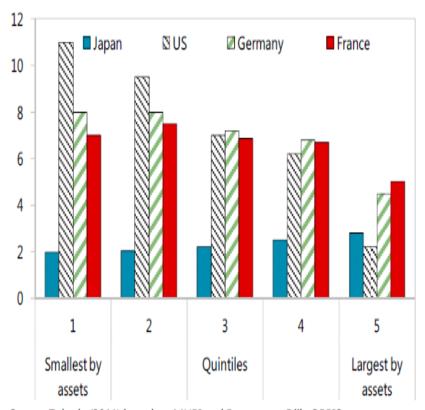
Estimated Coefficients of Impact on Adjusted Net Profit by Firm Size

(after accounting for time trend based on coefficients of yearly dummy variables)



Sources: Authors' estimates based on MOF data.

1/ Firms with large capital base refer to firms with capital of ¥1 billion or more, while firms with medium capital base have between ¥100 to ¥1000 million yen and between ¥10 to ¥100 million for firms with small capital base. See Ministry of Finance for definition.
2/ Dotted lines refer to standard errors of the estimated coefficients. Cross-country Comparison of Return on Assets, by Firms' Assets Size (in percent)



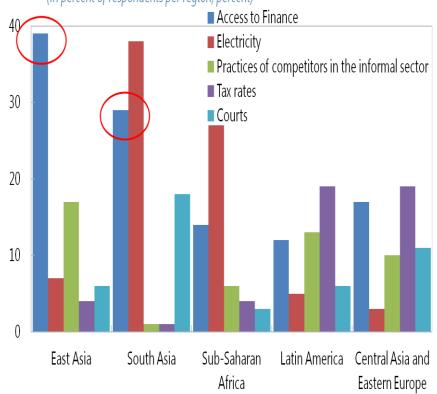
Source: Tokuda (2011) based on MHRI and Bureau van Dijk, ORBIS.

Source: W. R. Lam and J. Shin (2012)

Challenges to SME: SME financing gap

Obstacles to growth of SMEs

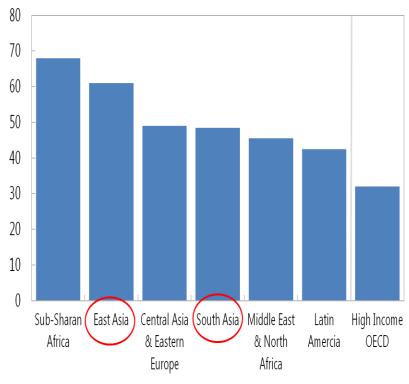
(In percent of respondents per region, percent)



Sources: IFC/Worldbank Enterprise Survey 2006-10; and Mckinsey (2012)

Portion of under-served or unserved SMEs 1/

(In percent of total SMEs)



Sources: IFC/WorldBank MSME database 2011 and Mckinsey (2012) 1/ median value of estimated portion

Challenges to SME financing

Risk:

- Higher credit risks
- Lack of reliable risk measures and records (financial statements)
- Little credit history

Collateral

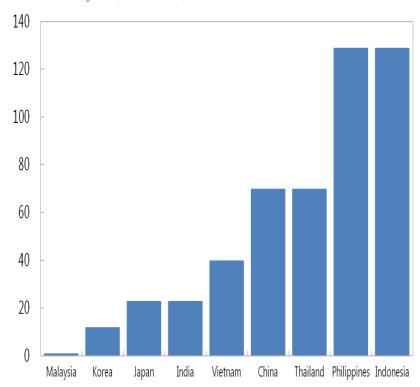
- Lack of or inadequate collateral
- Burden of personal guarantees

Costs

- Lower debt service capability
- Higher monitoring costs
- Higher transaction costs for small loans

Ranks of Easiness of Getting Credit 1/

(In ranking out of 185 countries)



Sources: World Bank's Doing Business 2013

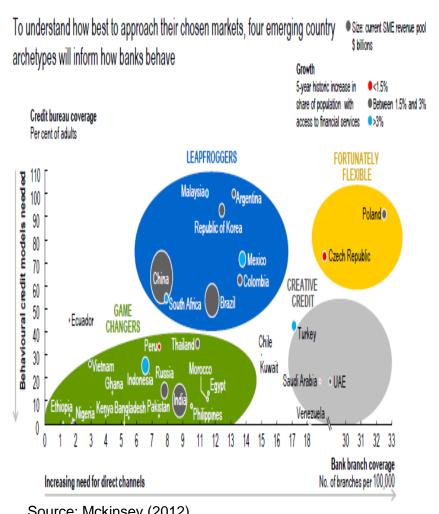
1/The index evaluates strength of legal rights, depth of credit information, and public/private credit bureaus

Source: R. Samujh, et al. (2012)

Credit bureau and credit availability

- Provide information to estimate repayment capacity
- Reduce asymmetric information
- Help set interest rates based on risk

Positive correlation between credit information sharing and credit availability

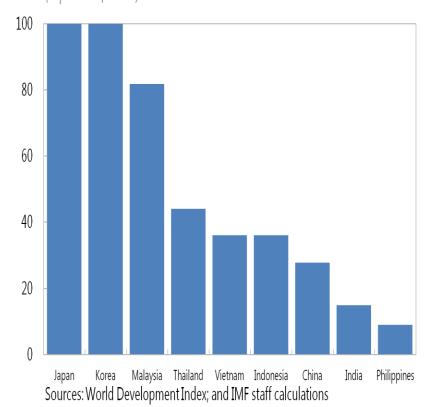


Source: Mckinsey (2012)

Credit bureaus in Asia



(In percent of Adults)



1/ The figures of Vientam and China are those of their public credit bureaus.

- Japan: CRD
- Korea: KCB and NICE
- Malaysia: mandatory participation
- Thailand: two credit agencies.
- Indonesia: The CIB was created by the BI. Plans to create a private one.
- China: The central bank established the PCIC.
- India: Many credit bureaus, but the CIBIL is the most important.

Source: Standard Chartered (2013)

Policy implications for credit bureaus

Comprehensive and timely data coverage

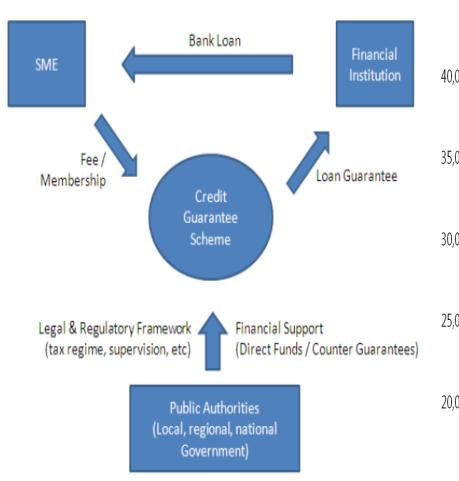
- Non-financial information
- > e.g. utility payments, rental payments, and phone bills

Coordination among authorities and institutions

SME Finance: Risk Sharing

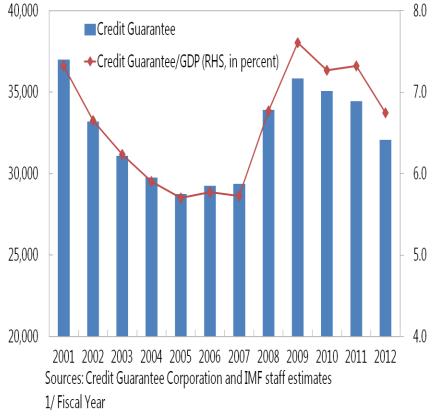
- Debt Financing
 - Public credit guarantees
 - Collateral
- Equity Financing
 - > Risk capital

Credit guarantees



Outstanding Credit Guarantees in Japan

(In billions of yen otherwise noted)

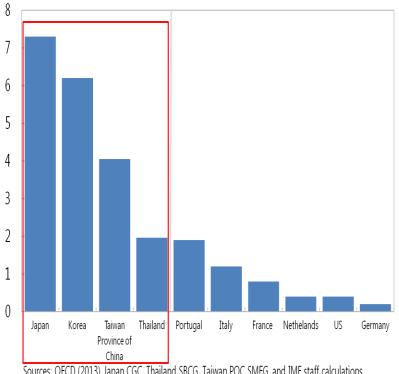


Source: OECD (2013)

Outstanding credit guarantees in Asia

Outstanding Credit Guarantees 1/

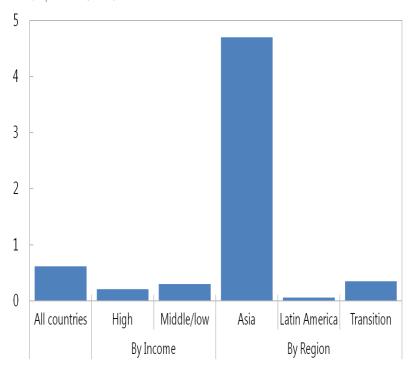
(In percent of GDP)



Sources: OECD (2013), Japan CGC, Thailand SBCG, Taiwan POC SMEG, and IMF staff calculations 1/US (2010), Thailand (Q3 2013), and the other countries (2011)

Credit guarantee outstanding

(In percent of GDP)

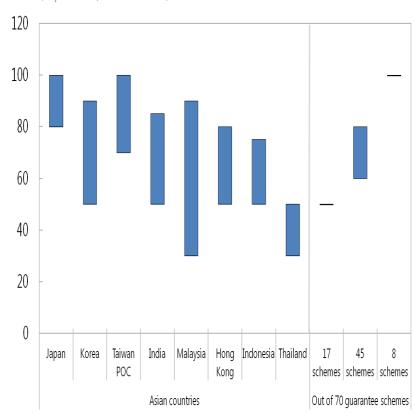


Sources: World Bank (2008, Beck at el.)

Coverage ratio of credit guarantees in Asia

Coverage of Credit Guarantees

(In percent of the loan value)

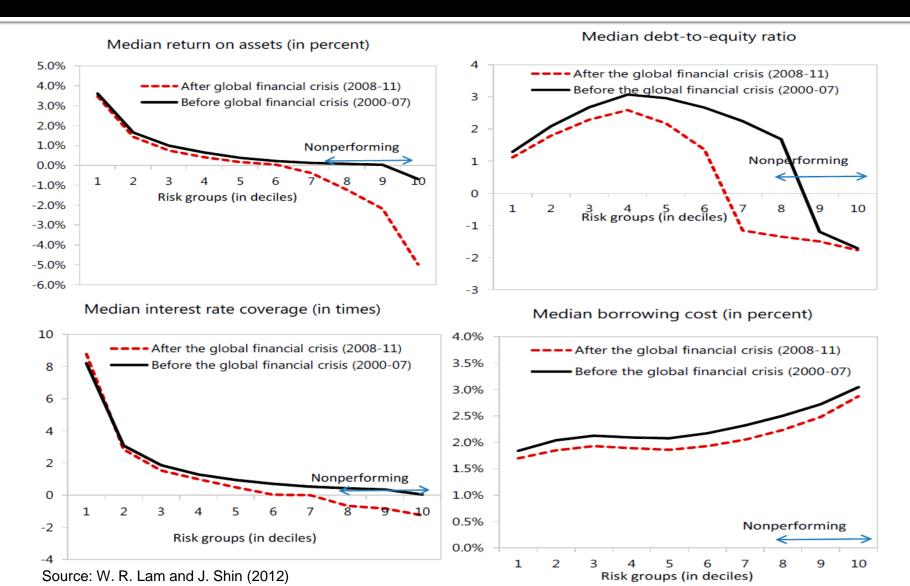


Sources: OECD (2013), BIS (2006), KPMG (2011), Japan METI, India CGTMSE, and IMF staff estimates

- According to a study into 70 guarantee schemes,
- 17 guarantee schemes cover 50% of credit risk
- 8 schemes cover 100% of credit risk
- The remaining 45 schemes cover between 60-80% of credit risk

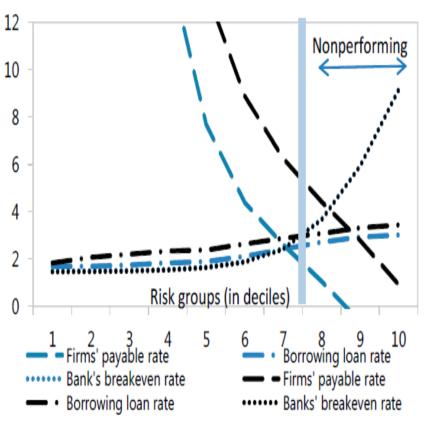
Source: KPMG (2011)

Impact of generous supportive measures: performance of Japanese SMEs



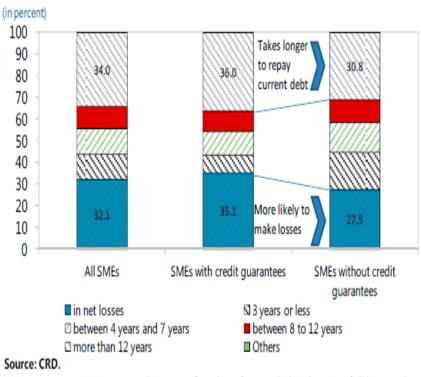
Impact of generous supportive measures: favorable borrowing rates

Demand and Supply of loanable funds (in percent)



3/ Blue color lines indicate FY2009-10, while black color lines indicate FY2000.

Operating Performance and Debt Repayment Capacity among SMEs with and without Credit Guarantees



1/ Repayment capacity is measured in terms of number of years, which is the ratio of all long- and short-term debts divided by the sum of net income and depreciation expenses. SMEs in operating losses or longer years have weaker repayment capacity on debts.

Source: W. R. Lam and J. Shin (2012)

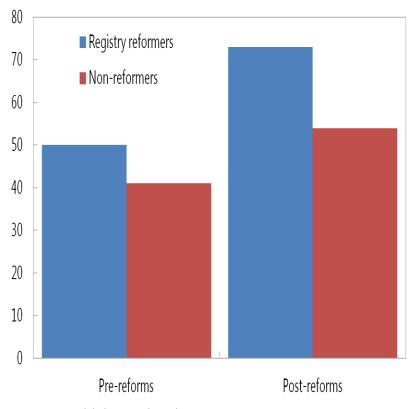
Public credit support measures may entail economic costs

- Weaken credit risk assessment of lenders
- Understate credit risk
- Crowd out non-guaranteed loans and limit incentives to restructure SMEs
- Guarantees could lead to misallocation of resources and undermine the healthy dynamics of SMEs.

A broader range of collateral and registry reforms

- Challenges in collateral
 - > Intangible Assets
 - > A fair value of collateral
 - Personal guarantees
- Registry reforms
 - Establish property registers
 - Enhance bankruptcy procedures and court systems for recovery

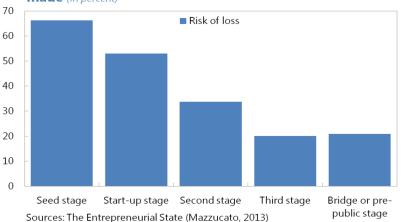
Effect of Collateral Registry Reforms on Access to Finance (Firms with access to finance, in percent)



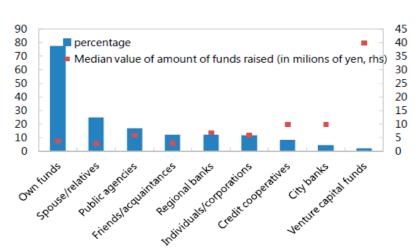
Sources: Global Financial Development Report 2014

Equity Finance: Risk Capital



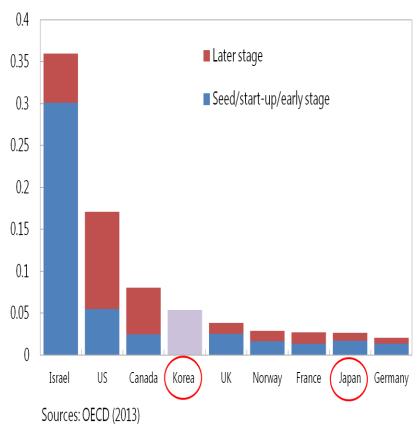


Sources of startup funds (In percent except as noted)



Venture Capital Investment in 2012





Sources: Japan Small Business Research Institute

Policy Implications

- Develop credit information and market infrastructure.
- Limit excessive interventions in credit guarantees to avoid distortions.
- Broaden the range of collateral
 - > Enhance property rights and contract enforceability.
- Promote risk capital

References

- CGAP and International Finance Corporation, 2012, "Financial Access 2012: Getting to a More Comprehensive Picture"
- Credit Guarantee Corporation, 2013, "Credit Guarantee System in Japan 2013"
- Credit Guarantee Corporation of Tokyo, 2013, "Credit Guarantee Corporation of Tokyo Annual Report 2013"
- I. Shim, 2006, "Corporate credit guarantees in Asia" BIS Quarterly Review, December 2006, Pages 85-98
- KPMG, 2011, "Credit access guarantees: a public asset between State and Market."
- N. Yoshino, 2012, "Finance, Credit Guarantee for SMEs and Hometown Investment Trust Funds for SMEs in Asia Region."
- Mariana Mazzucato, 2013, "The Entrepreneurial State", Anthem Press.
- M. Ayyagari, A Demigru-kunt, and V. Maksimovic, 2011, "Small vs. Young Firms across the World" The World Bank Policy Research Working Paper 5631
- M. Chironga, J. Dahl, T. Goland, G. Pinshaw, and M. Sonnekus, 2012, "Micro-, small and medium-sized enterprises in emerging markets"
 Mckinsey & Company
- Organization for Economic Co-operation and Development, 2006, "The SME Financing Gap: Theory and Evidence"
- Organization for Economic Co-operation and Development, 2010, "Ministerial report on the OECD Innovation Strategy."
- Organization for Economic Co-operation and Development, 2013, "Financing SMEs and Entrepreneurs 2013"
- Organization for Economic Co-operation and Development, 2013, "SME and Entrepreneurship Financing: The Role of Credit Guarantee Schemes and Mutual Guarantee Societies in supporting finance for small and medium-sized enterprises"
- R. Devinaga and T. M. Tan, 2012, "Review of Credit Guarantee Corporation Malaysia (CGCM) Initiatives to Enhance Small and Medium Enterprises Performance"
- R. Samujh, L. Twiname, and J. Reutemann, 2012, "Credit Guarantee Schemes Supporting Small Enterprise Development: A Review" Asian Journal of Business and Accounting 5(2), Pages 21-40.
- Small and Medium Enterprise Credit Guarantee Fund of Taiwan, 2012, "Taiwan SMEG 2011 Annual Report"
- S. Shinozaki, 2012, "A New Regime of SME Finance in Emerging Asia: Empowering Growth-oriented SMEs to Build Resilient National Economies."
- Standard Chartered, 2013, "Asia leverage uncovered."
- T. Beck, L.F. Klapper, and J.C. Mendoza, 2008, "The Typology of Partial Credit Guarantee Funds around the World" The World Bank Policy Research Working Paper 4771
- The International Finance Corporation, 2010, "Scaling-up SME Access to Financial Services in the Developing World"
- The International Finance Corporation and The World Bank Group, Enterprises Surveys
- The World Bank and the International Financial Corporation, 2013, "Doing Business 2014"
- The World Bank, 2013, "Global Financial Development Report 2014"
- W. R. Lam and J. Shin, 2012, "What role can financial policies play in revitalizing SMEs in Japan?" IMF Working Paper No. 12/291.



Thank you!

Jongsoon Shin
Economist
Regional Office for Asia and the Pacific
January 27, 2014