SUSTAINING LONG-RUN GROWTH AND MACROECONOMIC STABILITY IN LICS: THE ROLE OF STRUCTURAL TRANSFORMATION AND DIVERSIFICATION



Sarwat Jahan

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The team also comprises Chris Papageorgiou (lead), Giang Ho, Ke Wang, Lisa Kolovich, Camelia Minoiu, Alun Thomas, Alex Pitt (all IMF), Nikola Spatafora (World bank) and Christian Henn (WTO), under the overall guidance of Seán Nolan and Catherine Pattillo (IMF).

Motivation

- LICs have historically been heavily dependent on a narrow range of traditional primary products and on few export markets.
- There is limited analysis of what aspects of diversification are important.
- Key questions:
 - What is the state of diversification in LICs?
 - What is the impact on growth and volatility?
 - What are the drivers of diversification in LICs and its implication on policy?

Presentation Outline

Stylized Facts on Diversification Link with growth and volatility

Policy Implications Accessing the Toolkit

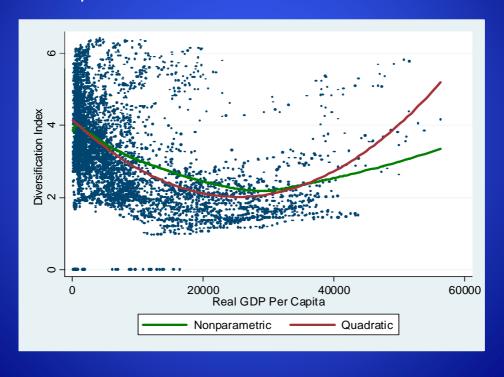
Stylized Facts: **Export Diversification**

Snapshot of Export Diversification

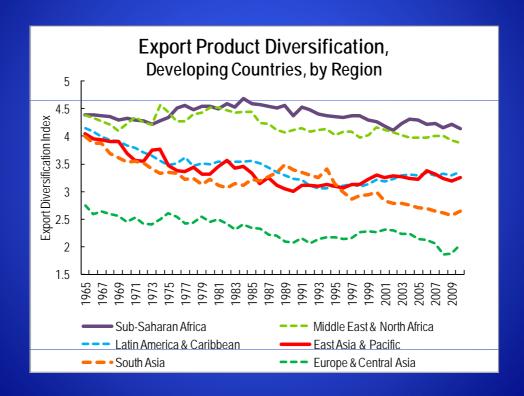


Export Diversification vs. GDP

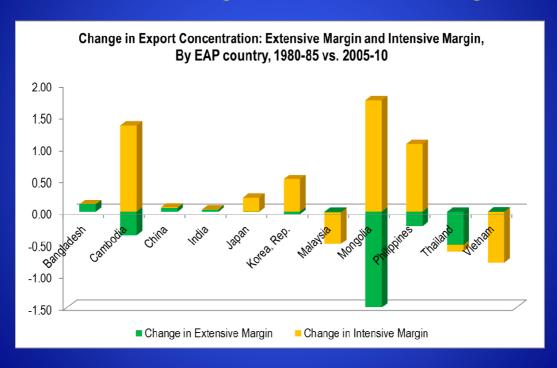
Export Diversification and Concentration, 1962-2010



Export Diversification by Region

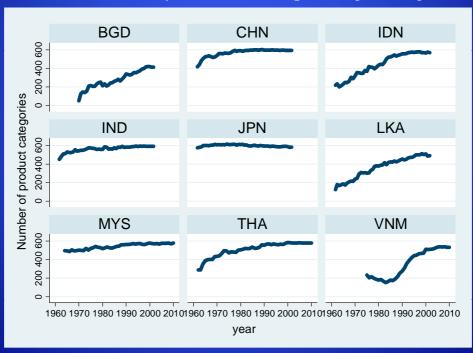


Export Concentration in Asia: Extensive Margin and Intensive Margin



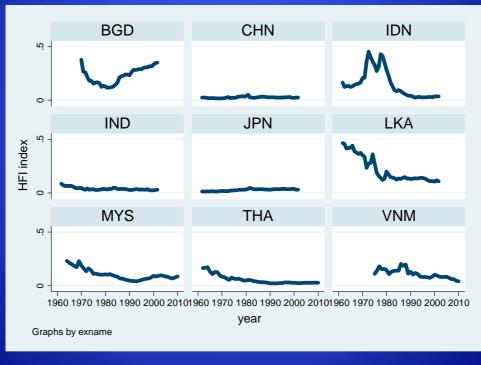
A Closer Look at the Extensive Margin

Number of Export Product Categories, by Country



Another measure of Export Diversification

Herfindahl Index, by Country

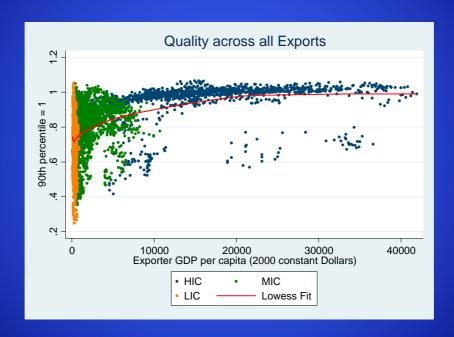


Stylized Facts Quality Upgrading

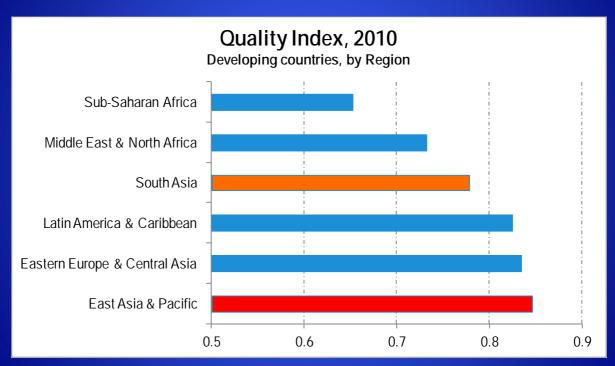
Snapshot of Quality Upgrading



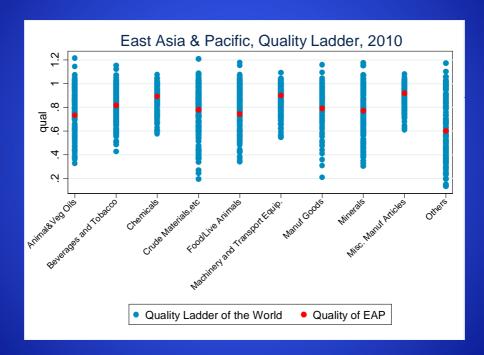
Export Quality and GDP



Quality Upgrading in Asia, 2010



Quality Upgrading in East Asia & Pacific

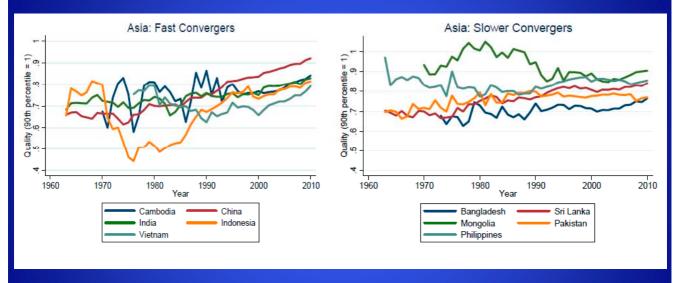


Quality Upgrading in South Asia



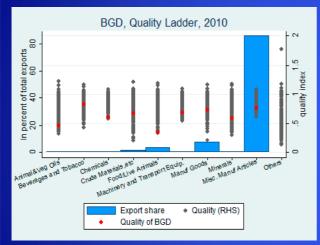
Quality Upgrading in Asia

Considerable cross-country heterogeneity



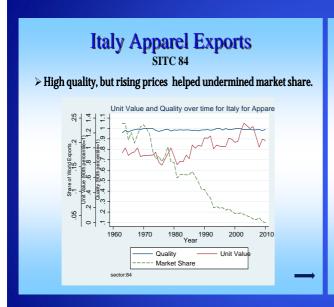
Note: Countries with quality convergence of at least 0.05 between the 1994-96 and 2008-10 periods are assigned to the fast converger group.

Quality Upgrading in Selected Countries





Quality Upgrading in Selected Countries

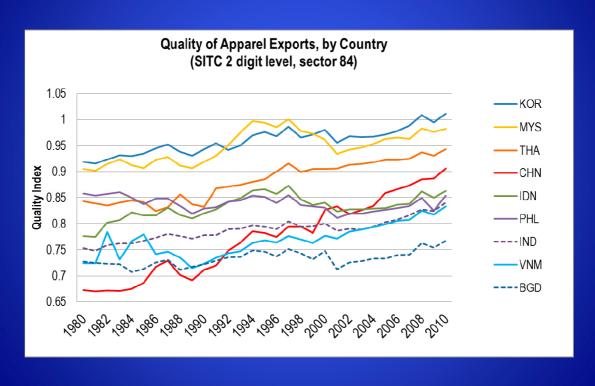


Korea Apparel Exports SITC 84

Quality has concluded convergence to world frontier, as economy diversified away from apparel.

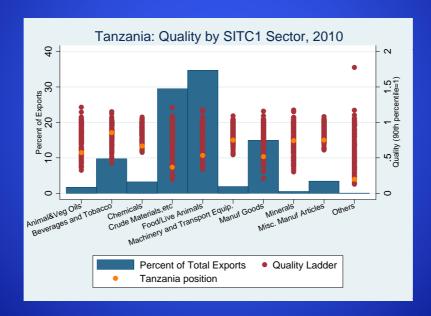


Quality of Apparel Exports in Asia



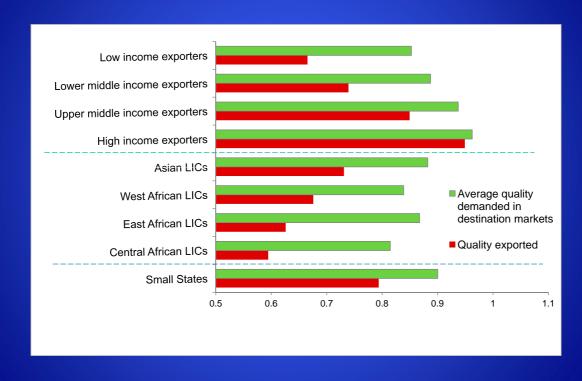
Potential Quality and Horizontal Diversification

Tanzania



Potential for quality upgrading

Destination markets are no constraint for LICs



Summary: Patterns and Facts

Export diversification

- Higher per capita income is associated with greater export diversification.
- Significant heterogeneity in diversification even after controlling for income.
- Since mid-1990s, LICs have progressed in diversifying export products and partners.

Quality Upgrading

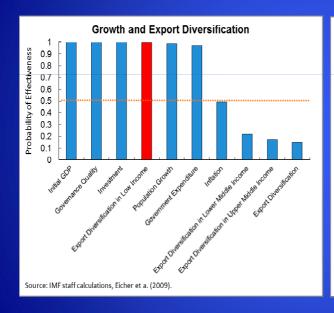
- LICs are lower on sectoral quality ladders implying strong potential for quality upgrading.
- Quality upgrading opportunities exist in manufacturing <u>but also</u> in agriculture.

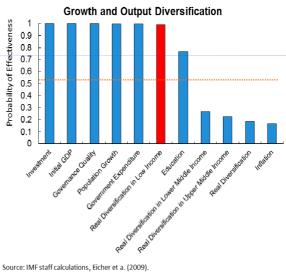
Evidence from individual countries

There is no universal trajectory for structural transformation and diversification.

Link with Growth and Volatility

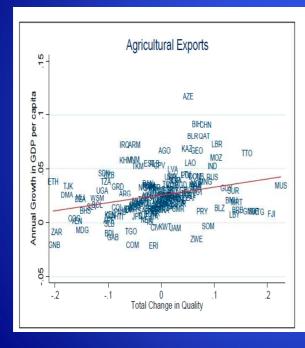
Probability of Effectiveness for Drivers of Growth

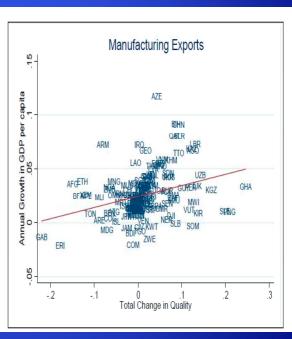




Quality Upgrading and Growth

Quality Upgrading and GDP per Capita Growth, 1995-2010





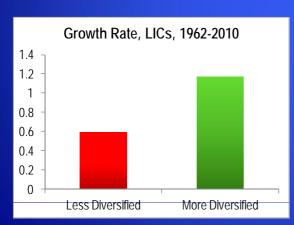
Diversification, Growth and Stability

Growth

 Robust relationship between
 Diversification is also diversification and growth in LICs.

Volatility

associated with a reduction in output volatility.





Note: "Less Diversified" indicates countries with diversification level below the 30th percentile of all LICs; "More Diversified" indicates the countries with diversification level above the 70th percentile of all LICs.

Drivers

Economic **Fundamentals**

Education

Institutional and regulatory environment

Financial deepening

Investment in Infrastructure

Proximity to markets

Macroeconomic **Policies**

Trade liberalization

Agricultural reforms

Banking sector reforms

Competitiveness through reduction in distortions

Policy Views

- Development strategies in LICs should involve diversification as it is conducive to faster growth and lower output volatility.
- Development policies in LICs should include rather than abandon agriculture. Within agriculture there is significant scope for entry into new products and quality upgrading.
- While recognizing that there is no one size fits all approach, successful diversification is typically underpinned by reforms that are general in scope.

Diversification Toolkit

- The toolkit contains two main databases:
 - □Export Diversification Database
 - □Export Quality Database
 - The data covers 187 countries and at four digits of disaggregation 625 sectors.
 - Time coverage: 1962-2010.

The main diversification toolkit work team comprises Ke Wang, Chris Papageorgiou, Qin Liu, Bindu Napa, and Christopher Coakley (IMF).

Diversification Toolkit: IMF Data Mapper

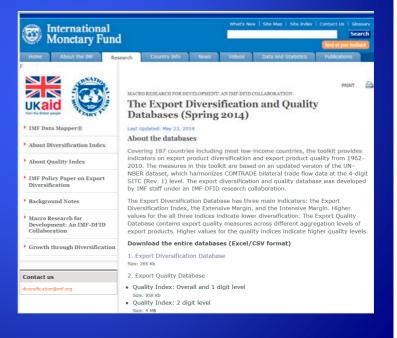
- http://www.imf.org/external/datamapper/index.php?db=SPRLU
- For main diversification and quality indicators
- Interactive tool for heat map and charts



Diversification Toolkit: IMF Toolkit Website

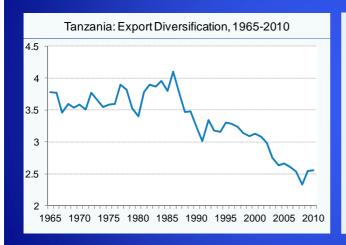
https://www.imf.org/ex ternal/np/res/dfidimf /diversification.htm

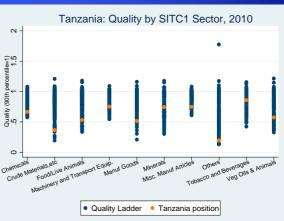
- To download the entire databases
- Relevant Links



Diversification Toolkit

Example of the toolkit data: Tanzania





Thank you

Example: Japan



Japanese car exports SITC 7321

> Rising quality reached world frontier in the early 1970s. Rising prices put pressure on market share in 1990s.



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