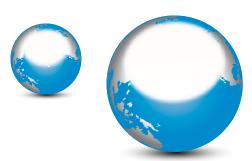
Global and Regional Spillovers to Pacific Island









Patrizia Tumbarello

Unit Chief, Pacific Islands Unit Apia, March 23, 2012

At the 2011 Annual Meetings: The Agenda

Deliverables

- Pacific Islands Conference early this year in the region ✓
- Research Agenda:
- Spillovers from global & regional economies to the PICs (Sheridan, Tumbarello, Wu, 2012) ✓
- 2. Managing mineral revenues (Feridhanusetyawan, 2011) ✓
- Commodity Prices and Exchange Rate Pass-through (Peiris, 2012) ✓
- 4. Sources of Growth (Yang, 2012) ✓

Plan of the presentation

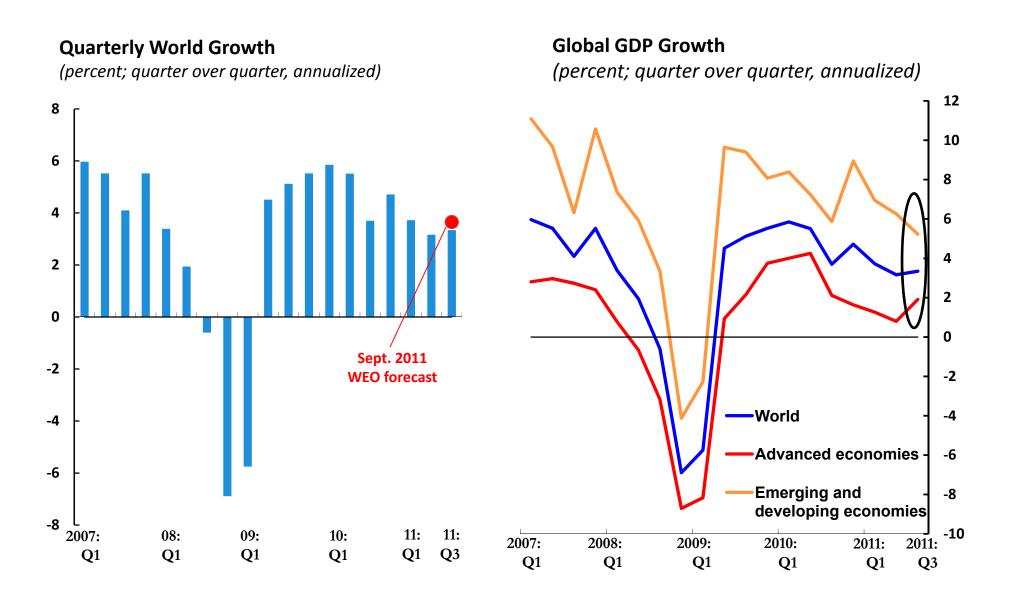
Global and Regional Outlook

Pacific Islands: Growth Spillovers

What Implications for Policies

Global and Regional Outlook

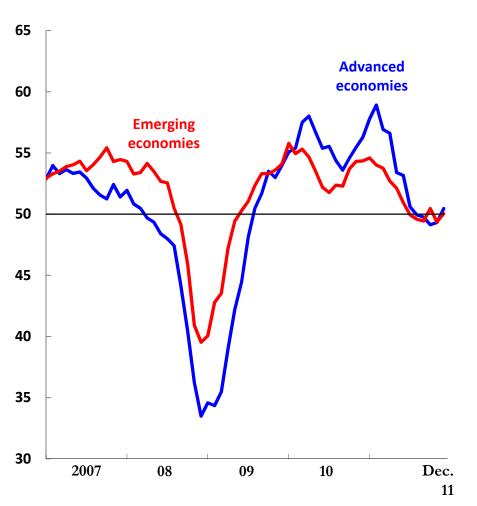
Global activity was robust in the third quarter of 2011...



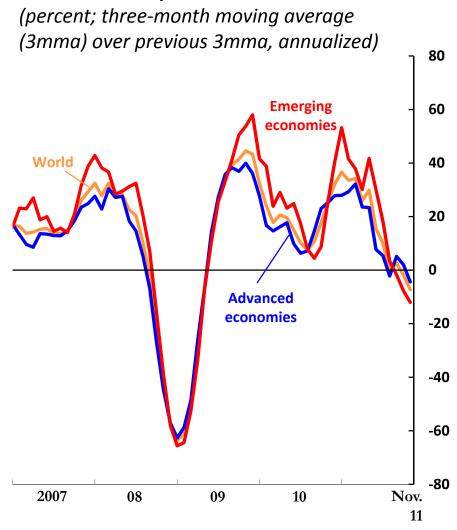
... but things took a turn for the worse in the fourth quarter ...

Manufacturing Purchasing Managers' Index (PMI)

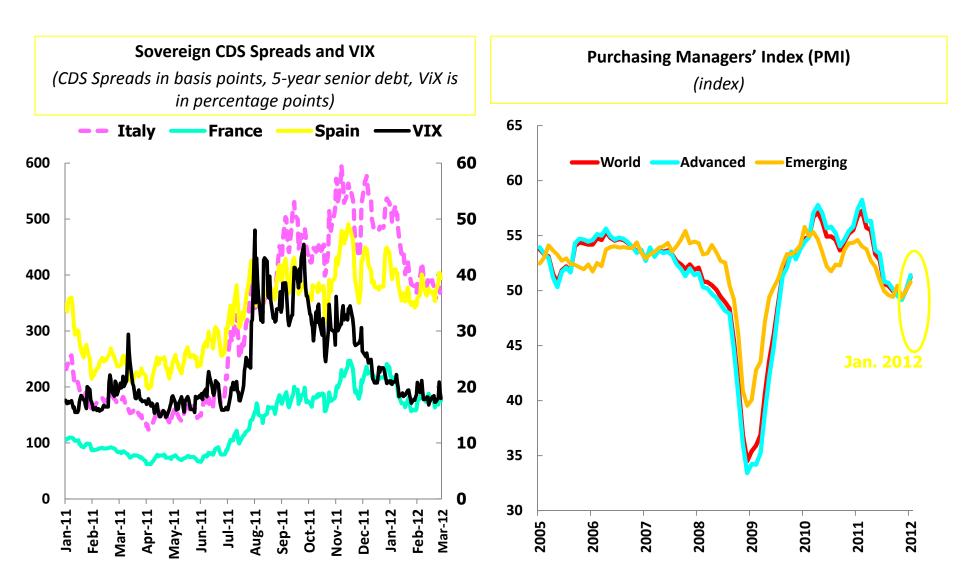
(index; figures above 50 denote expansion)



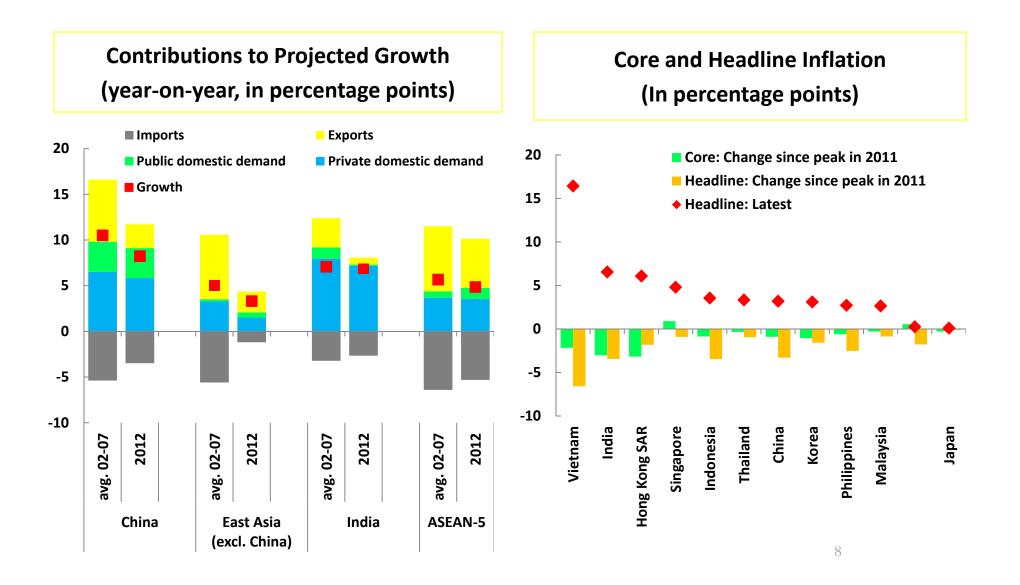
Merchandise Exports



Global financial conditions have improved recently Better signals from economic data, especially in the U.S.

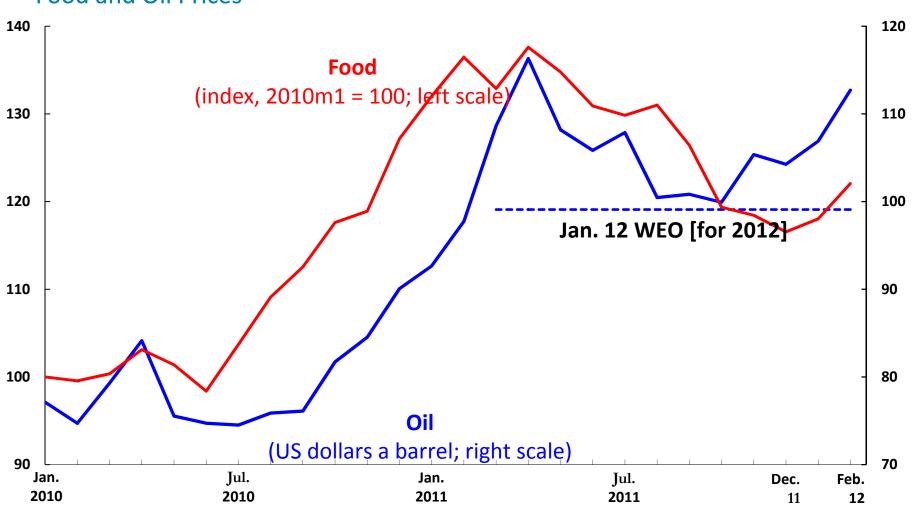


In Asia, only a modest slowdown is expected thanks to resilient domestic demand, and core inflation remains sticky



Oil prices remain—and are expected to remain—at relatively high levels

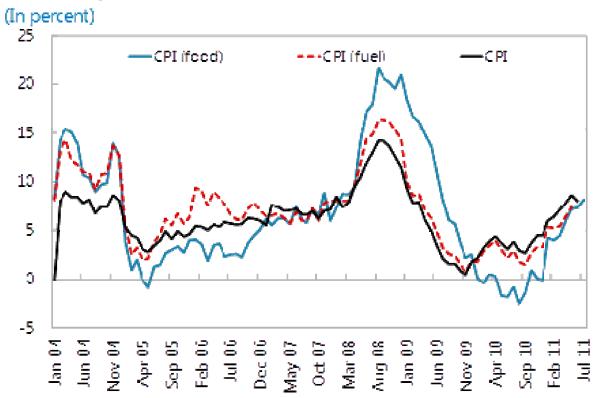
Food and Oil Prices



Pacific Islands

Inflation has been following global commodity prices

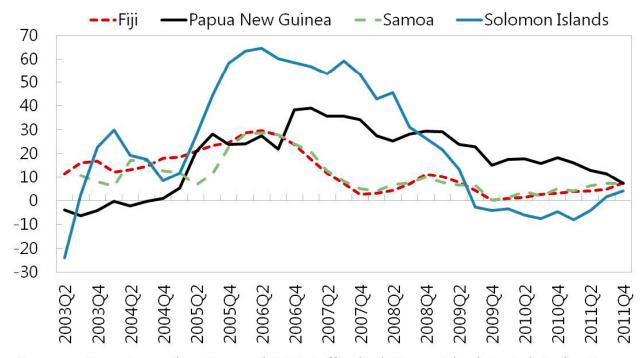
PICs: Fuel, Food and Headline Inflation



Credit is started to picking up, slowly...

PICs: Credit to Private Sector

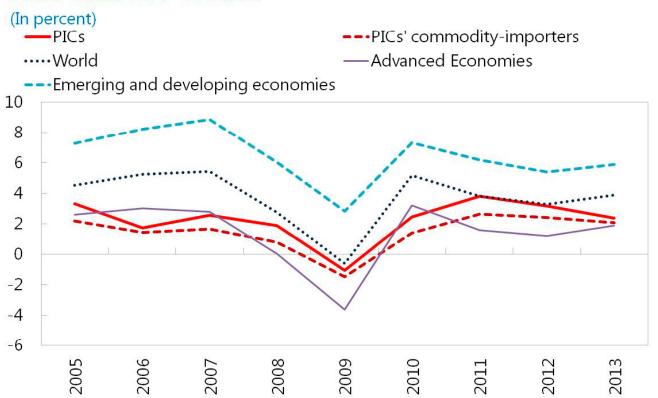
(Year-over-year percent change)



Sources: Country authorities and IMF staff calculations. The latest data for Samoa is as of October 2011.

The recovery is still underway but growth remains relative low...

PICs: Real GDP Growth

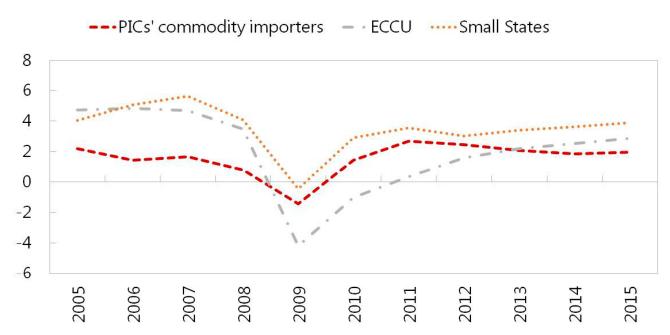


Sources: Country authorities; IMF, WEO database; and staff calculations.

... especially in commodity importers

PICs: Real GDP Growth

(In percent)



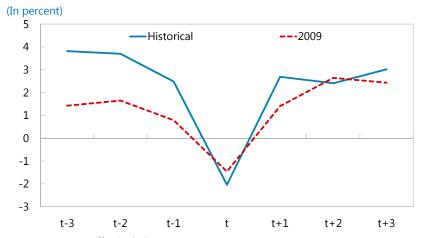
Sources: Country authorities and IMF staff calculations.

Note: ECCU include Antigua and Barbuda ,Dominica, Grenada, St. Kitts and Nevis, St. Lucia, and St. Vincent.

The recovery: commodity importers are struggling

 Milder recession in 2009, yet slower recovery for commodity importers

PICs Commodity Importers: Real GDP Growth around Downturns¹



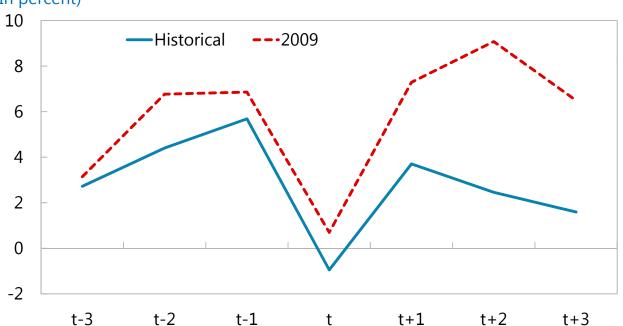
Source: IMF staff calculations.

¹ Historical is average of four downturns.

A different story for commodity exporters

PICs Commodity Exporters: Real GDP Growth around Downturns¹

(In percent)



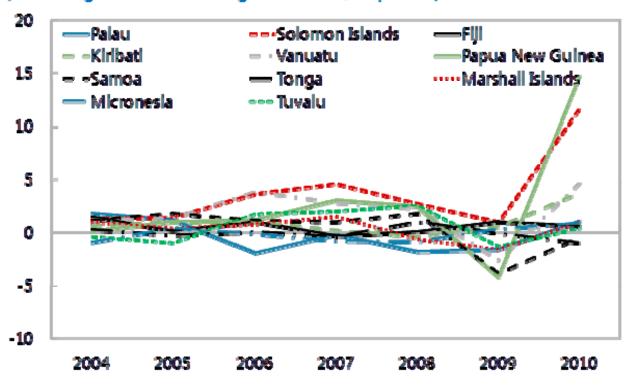
Source: IMF staff calculations.

¹ Historical is average of four downturns.

Relative Growth Performance among PICs have changed

PICs: Relative Growth Performance

(Real GDP growth relative to regional median, in percent)



Sources: IMF staff calculations.

Analysis: Growth (and Channels of) Spillovers

Stylized facts

Econometric models (VAR and VECM)

What role of policies?

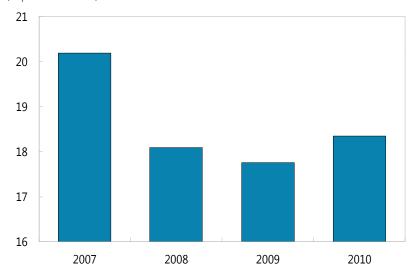
Stylized facts: Channels of Spillovers

- Remittances (Samoa, Tonga, Tuvalu, Fiji)
- Tourism (Palau, Samoa, Vanuatu, Fiji)
- Trade flows
- Terms of trade via commodities
- Financial: mainly through trust funds

During the crisis: remittances and tourist arrivals dropped

Remittances

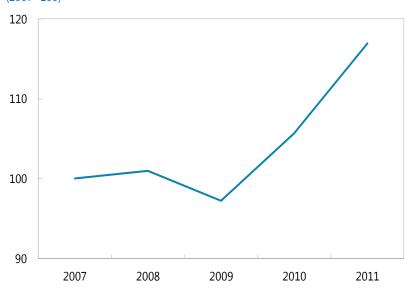
(In percent of GDP)



Sources: Country authorities; and Fund staff calculations.

Tourists arrivals

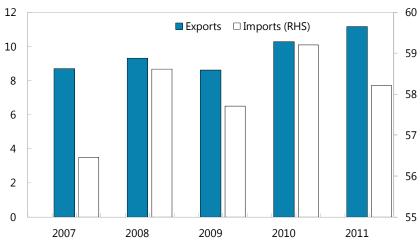
(2007=100)



Trade dropped as well as the value of the trust funds

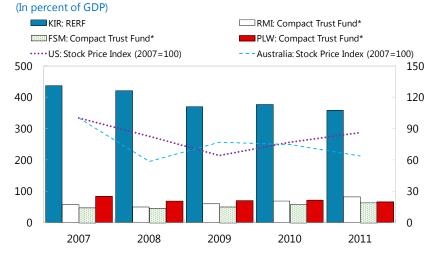
Exports and Imports

(In percent of GDP)



Sources: Country authorities; and Fund staff calculations.

PICs: Sovereign Investment Fund Balances

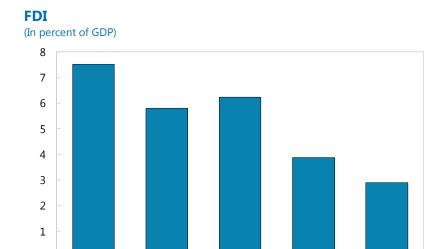


Sources: Country authorities; and Fund staff calculations.

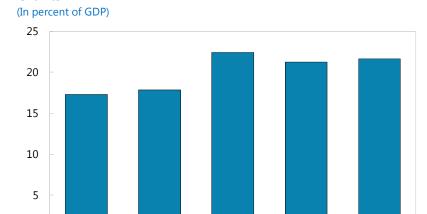
^{*} Fiscal year.

Aid provided countercyclical support

Grants



Sources: Country authorities; and Fund staff calculations.



Sources: Country authorities; and Fund staff calculations.

Links with Australia are strong including through remittances...

PICs: Remittances by Country of Origin

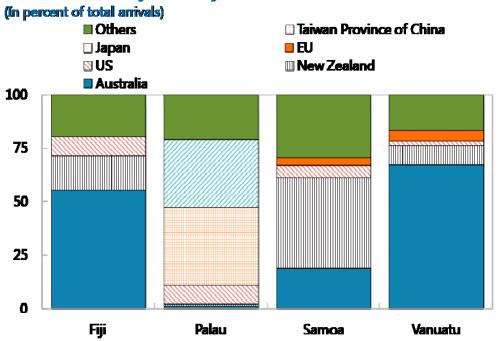
(In percent of total remittances)



Sources: Country authorities; and IMF staff calculations.

... and tourism...

PICs: Tourists by Country of Residence

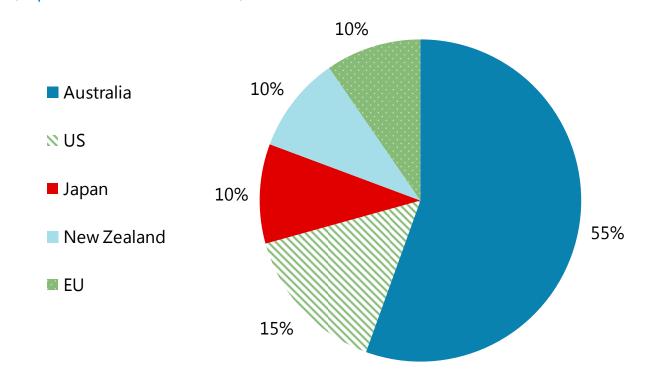


Sources: Country authorities; and IMF staff calculations.

... aid...

PICs: Official Development Aid by OECD Donors

(In percent of total aid, 2010)

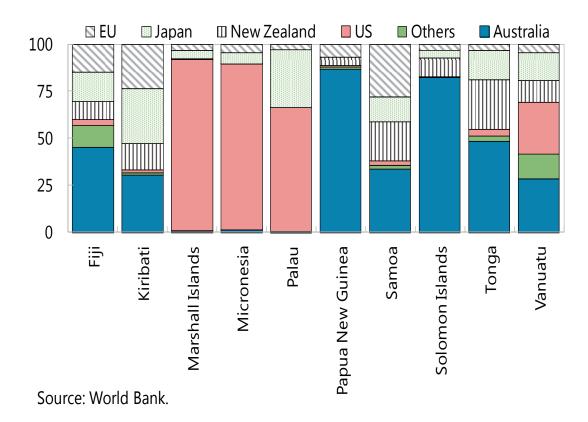


Source: OECD.

The United States provides aid to PIC compact countries

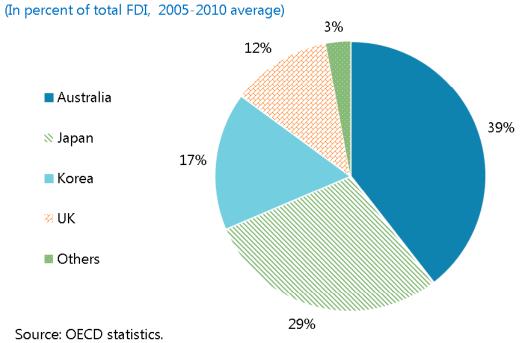
PICs: Official Development Assistance by Donors

(In percent of total aid, 2010)



Australia is the largest provider of FDI among OECD countries



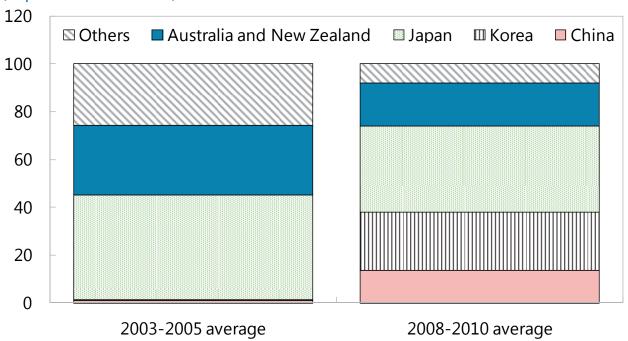


¹ Excludes Norway and Denmark.

Emerging Asia in playing an increasing role through FDI...

PICs: FDI by Country of Origin ¹

(In percent of total FDI)



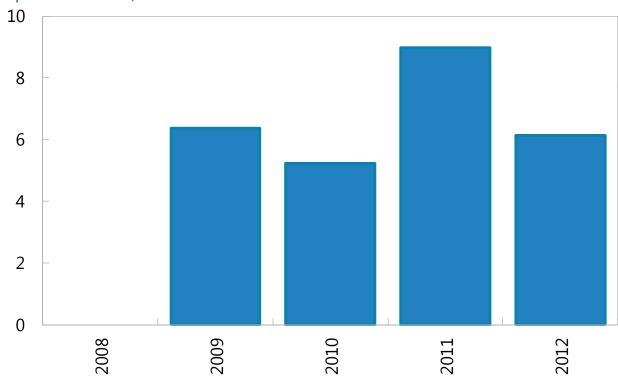
Sources: OECD and UNCTAD.

¹ Includes Australia, China, Korea, Japan, France, Germany, Italy, Luxemburg, Netherlands, New Zealand, Sweden, United Kingdom, and United States.

... external financing...

Tonga: Loan Disbursements from China

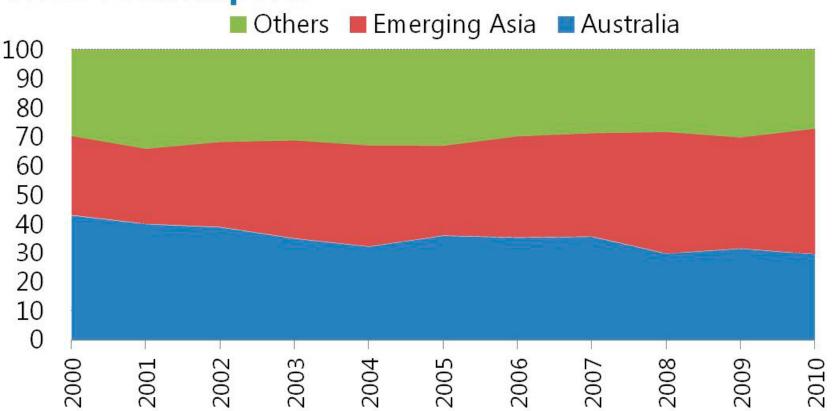
(In percent of GDP)



Source: Country authorities.

... and trade especially on the import side in some PICs...

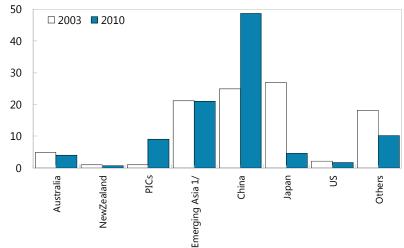
PICs: Total Imports



...in Solomon Islands...

Solomon Islands: Exports by Destination

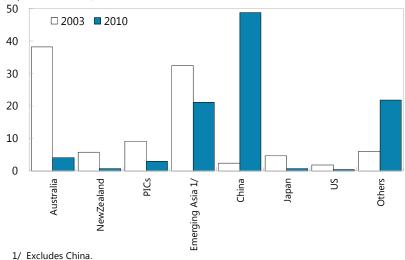
(In percent of total)



1/ Excludes China.

Solomon Islands: Imports by Country of Origin

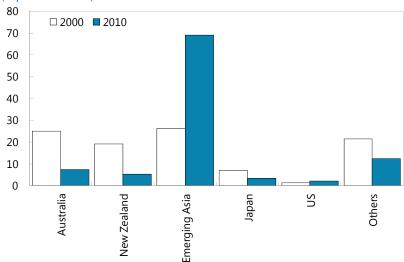
(In percent of total)



...Vanuatu and Fiji

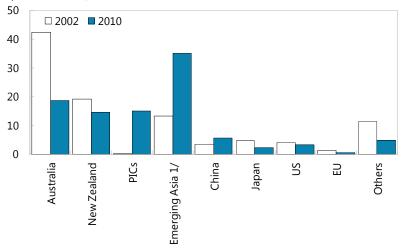
Vanuatu: Imports by Country of Origin

(In percent of total)



Fiji: Imports by Country of Origin

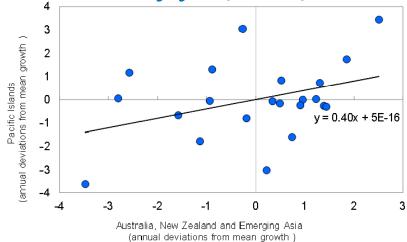
(In percent of total)



1/ Excludes China.

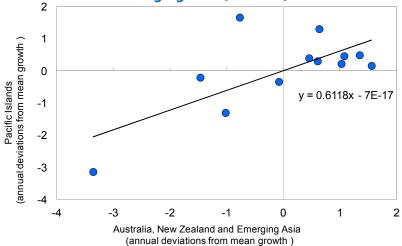
Regional integration has increased over last ten years

PICs: Correlation of Real GDP Growth with Australia, New Zealand and Emerging Asia (1990-2011)



Sources: Country authorities; and IMF staff calculations

PICs: Correlation of Real GDP Growth with Australia, New Zealand and Emerging Asia (2000-11)



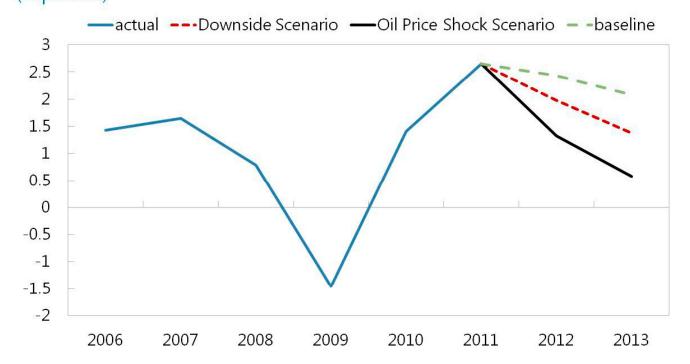
Sources: Country authorities; and IMF staff calculations.

Econometric Analysis on Spillovers

- Vector Error Correction Model (based on Sheridan, Tumbarello, Wu)
 - Baseline: Global and Regional Growth spillovers (short run and long run)
 - * Downside: 1) Global Slowdown2) Supply-Side Commodity price Shock
- OLS model using VECM results as input to simulate the impact of a downside scenario on the banking sector

Spillovers: Impact on Growth: commodity importers

PICs: Real GDP Growth for commodity importers (in percent)

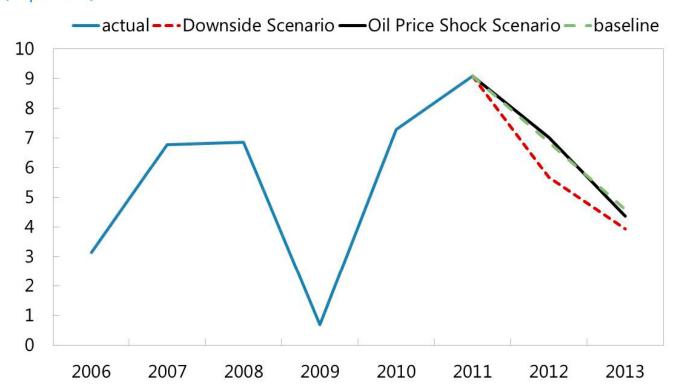


Source: IMF staff estimates.

Spillovers: Impact on Growth commodity exporters

PICs: Real GDP Growth for Commodity Exporters

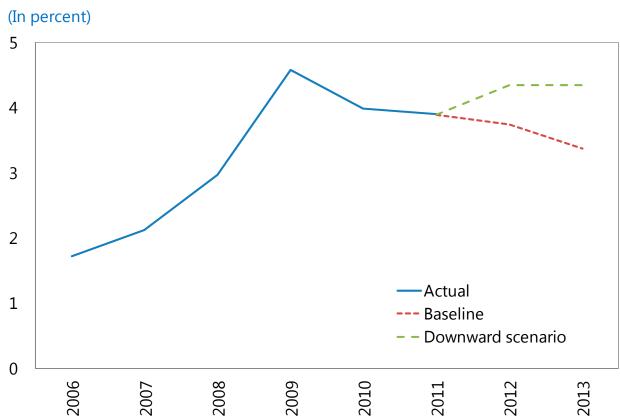
(In percent)



Source: IMF staff estimates.

Spillovers to the Financial Sector

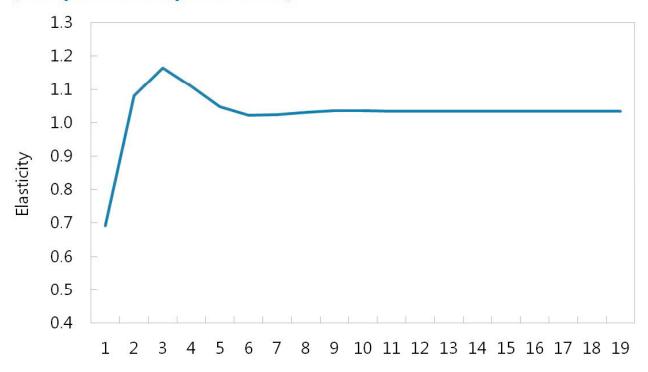
PICs: Ratio of Provisions to Loans



Elasticity of PIC GDP to Regional GDP

Response of PIC GDP to Changes of Australia GDP

(In response to one percent shock)



Source: IMF staff calculations.

Years after the shock

Main results from VECM

- Regional integration has increased
- Spillovers from Europe limited
- Australia is by far the main source of direct and indirect spillovers (in the long and short run)
- Emerging Asia matters in the short run
- Downside: commodity price shocks more relevant
- Spillovers to the financial sector → more provisioning
- Policies can play a role in enhancing resilience

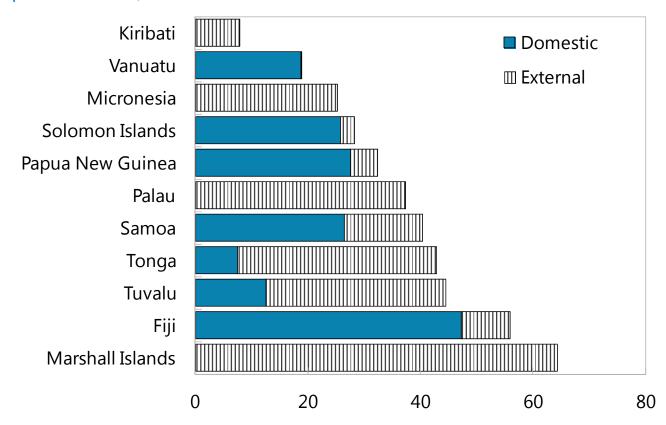
WHAT ROLE FOR POLICIES

Rebuilding buffers to increase resilience

Fiscal space is limited in PICs with high public debt narrowing the scope for countercyclical policies

Public Debt, 2010

(In percent of GDP)

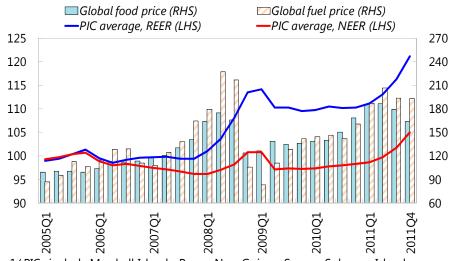


Monetary and Exchange Rate Policies

- In some PICs monetary transmission mechanism is weak: excessive liquidity
- Some PICs are dollarized
- Exchange rate has lately appreciated

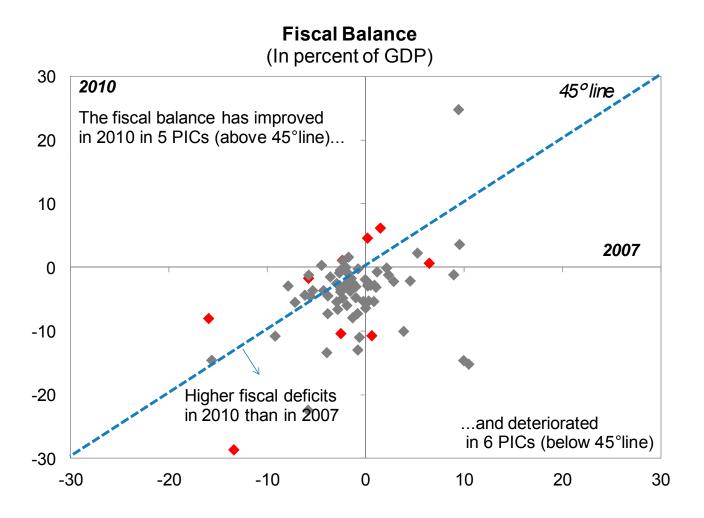
PICs: Effective Exchange Rates 1/

(Index, 2005=100)

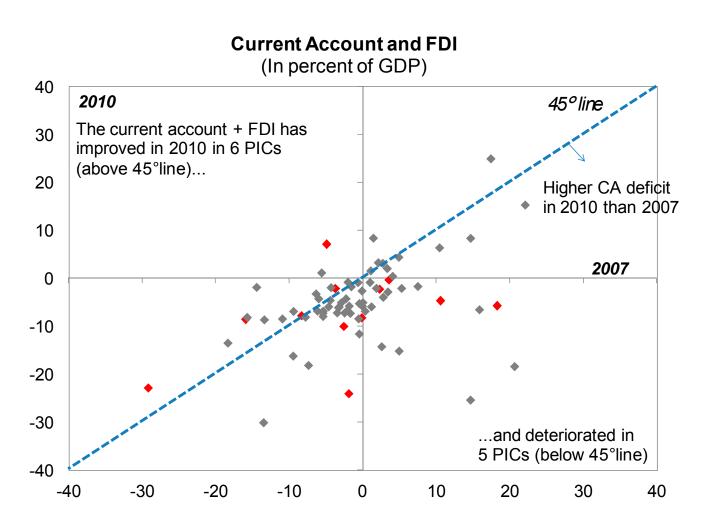


1/ PICs include Marshall Islands, Papua New Guinea, Samoa, Solomon Islands, Tonga, and Vanuatu.

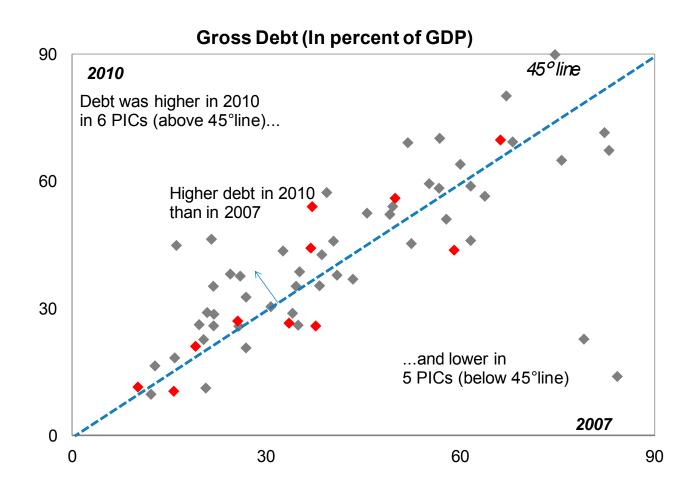
Some PICs are in a weaker position than the precrisis years, especially with regard to fiscal...



...and current account balances

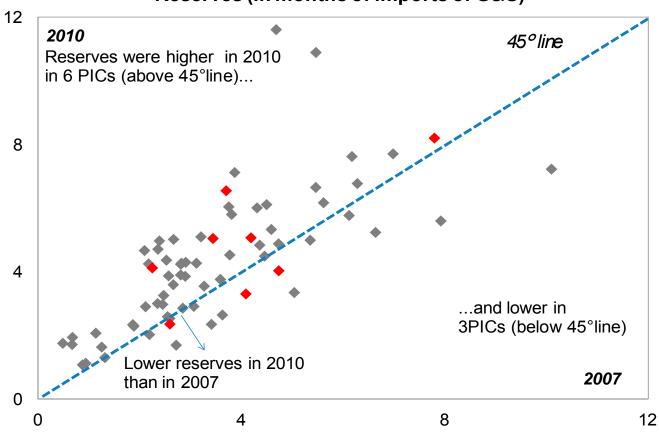


But debt has declined especially in the commodity exporters



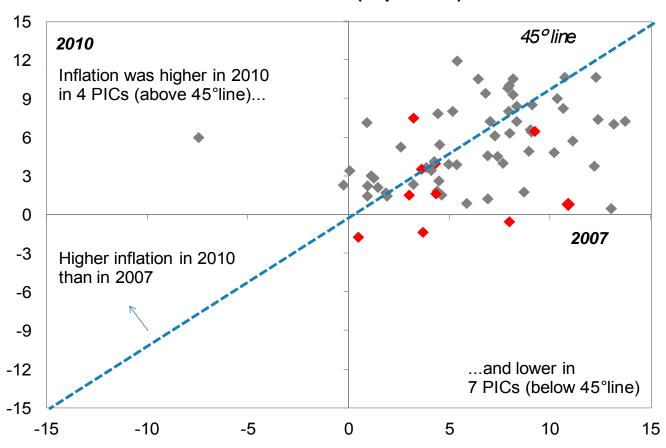
...reserve buffers have been rebuilt in several PICs...

Reserves (In months of imports of G&S)



...and inflation has remained moderate in some PICs compared to pre-crisis years

Inflation (In percent)



Some conclusions

- Rising regional linkages offer greater insurance against risks generated by non-regional advanced-economies
- Policies can play a role in enhancing resilience to shocks and stabilize the business cycle
- PICs should continue to rebuild policy buffers and implement growth-oriented structural reforms to ensure inclusive growth