

# **Economic and Social Survey of Asia and the Pacific 2025**

Understanding the macroeconomic implications of climate change

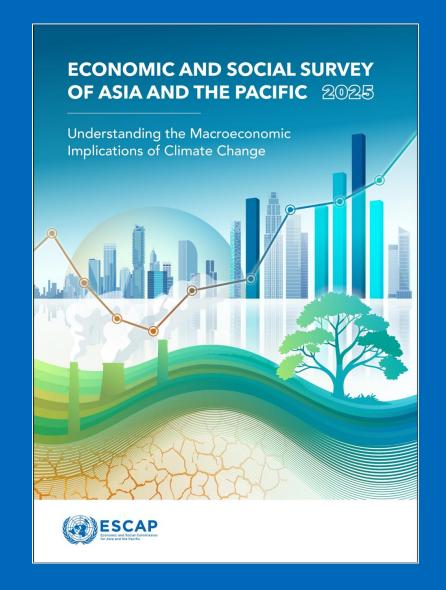
Hamza Ali Malik

Director, Macroeconomic Policy and Financing for Development Division,

United Nations Economic and Social Commission for Asia and the Pacific (ESCAP)

Bangkok, Thailand

Philippine Institute for Development Studies
Manila, Philippines
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## Highlights



- Despite relatively steady economic outlook, rising global trade tensions and economic uncertainty pose major headwinds for Asia-Pacific economies.
- The region needs to revive productivity growth for sustained economic development, while proactive government support may be needed for sectoral economic upgrading.
- A deeper understanding of the complex macroeconomic-climate nexus is needed by the fiscal and monetary authorities to manage climate-induced economic risks and foster climate action.
- Many Asia-Pacific countries are less ready to cope with the macroeconomic implications
  of climate change and low-carbon transition.
- Embedding climate aspects into macroeconomic policies is essential and requires fundamental shifts in policy thinking and frameworks.

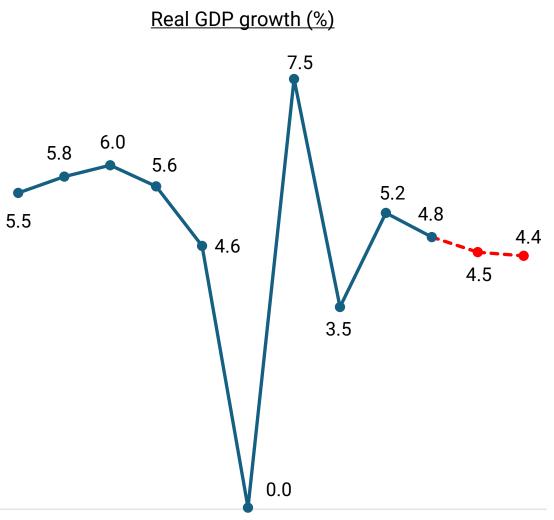


## **Near-term economic prospects:**

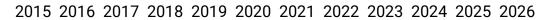
largely steady but highly uncertain

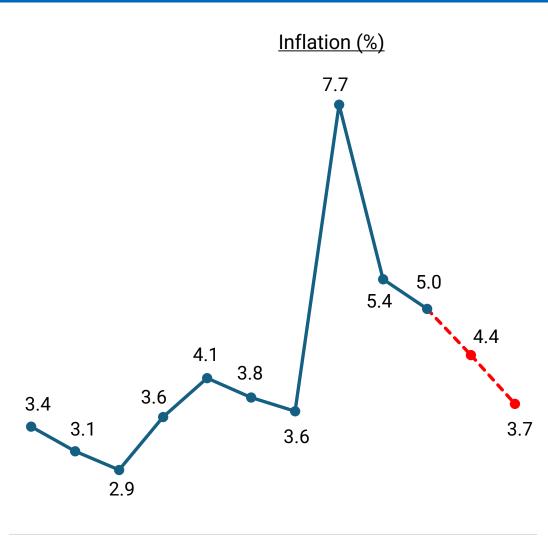
## Largely resilient economic performance is expected in Asia-Pacific, despite rising uncertainties





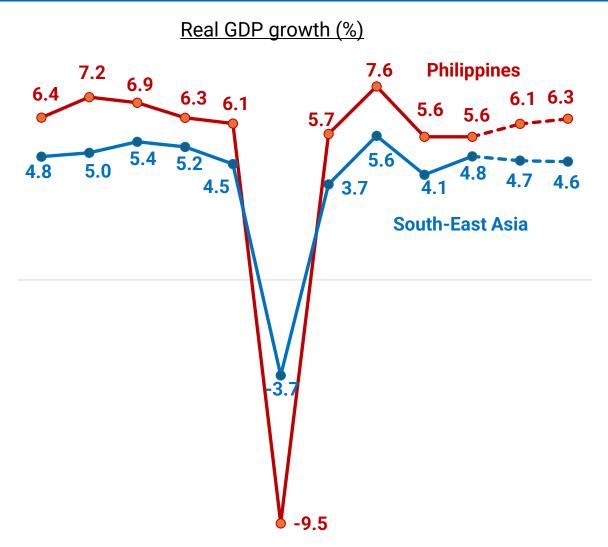


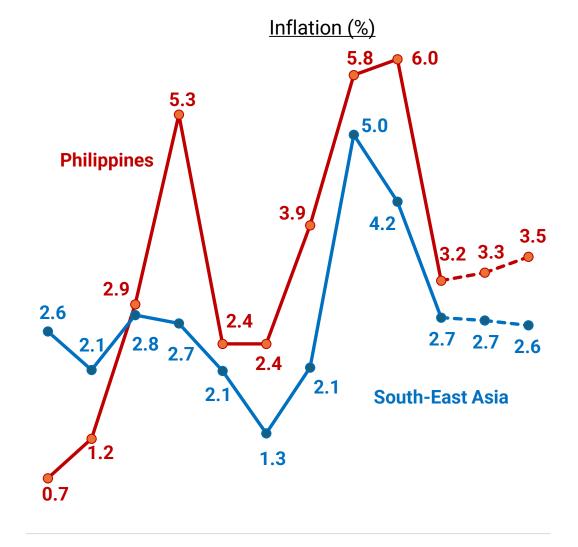




# Public spending, infrastructure investment and remittances sustained economic growth in the Philippines







2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026

Source: ESCAP.

2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026

## Salient tailwinds for the near-term economic outlook





Robust capital investments in high-tech, digital and green sectors



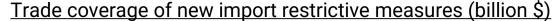
Strong stimulus measures by China to support its economy, with likely positive spillovers for regional peers

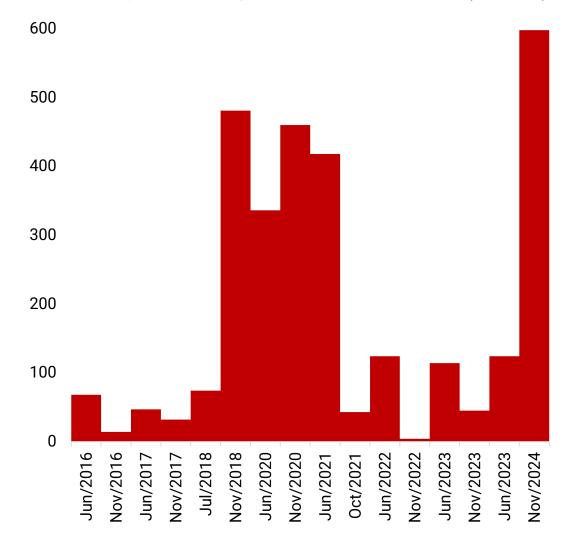


Intraregional foreign direct investment inflows may increase in response to global trade and geopolitical tensions

## Major headwind: rising global trade protectionism

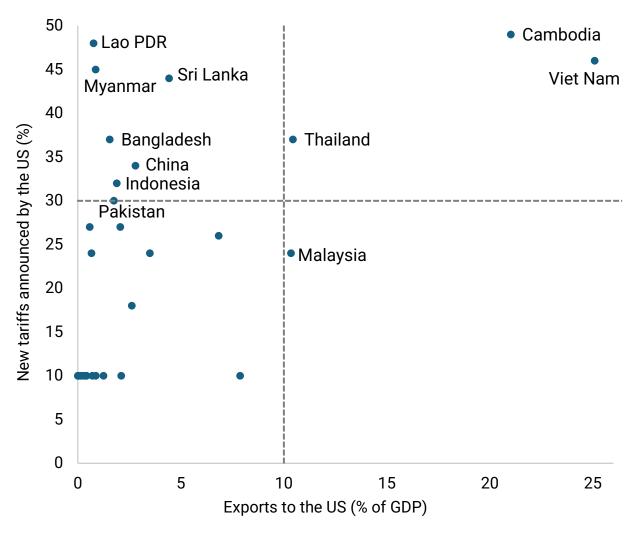






Source: ESCAP, based on WTO Trade Monitoring Database.

Newly announced US tariffs (%) versus exports to the US (% of GDP)

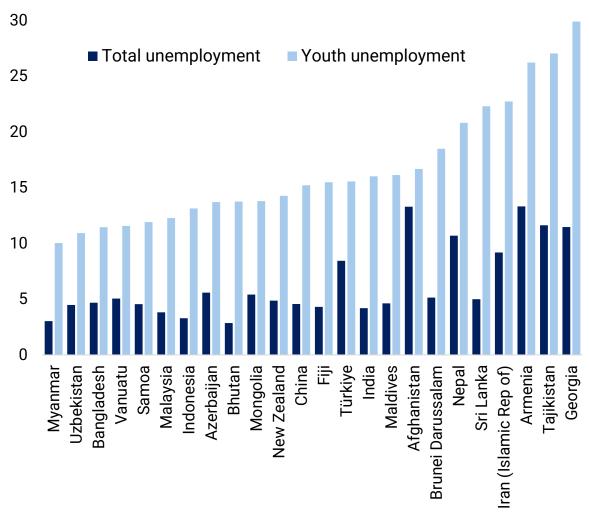


Source: ESCAP, based on CEIC, and White House's Executive Order on Regulating Imports with a Reciprocal Tariff (2 April 2025).

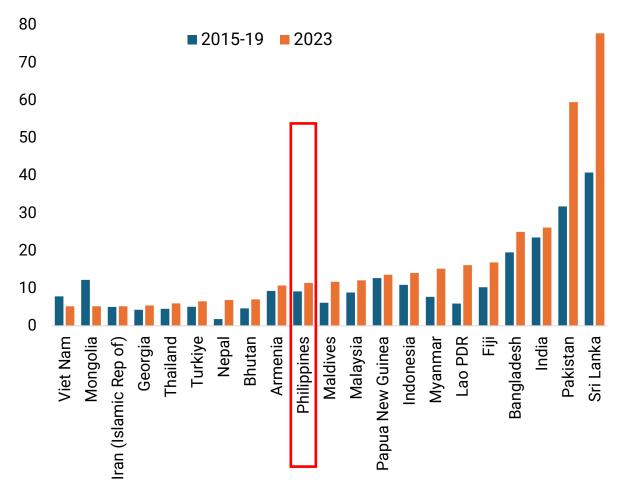
# Main challenges: high youth unemployment and increasingly limited fiscal space







Interest payments on public debt (% in public revenue)



Source: ESCAP, based on UNCTAD Debt Dashboard, IMF Public Finances in Modern History database, and IMF Fiscal Monitor October 2024.

Source: ESCAP, based on ILOSTAT.

## **Key policy considerations**





## Adopt prudent monetary and fiscal policies

- Remain vigilant regarding renewed increase in inflation
- Boost fiscal space for countercyclical measures, including through productive use of borrowed funds



## Safeguard regional value chains

- Support industries affected by trade protectionism in a timely and flexible manner
- Strengthen inclusive regional economic cooperation, for both efficiency and resilience

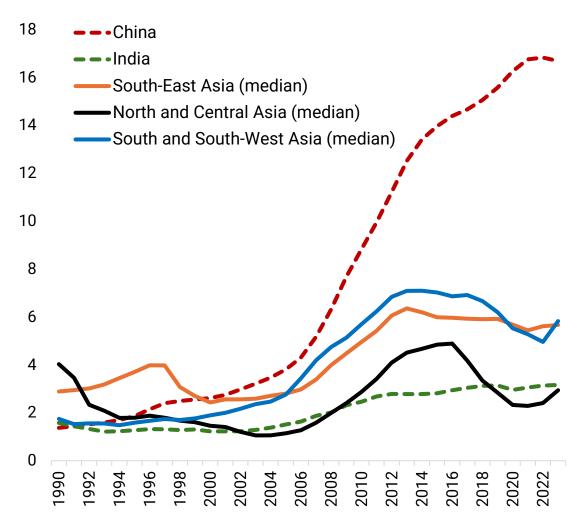


# Going beyond near-term economic growth: escaping the middle-income trap

## Slower income convergence and labour productivity growth

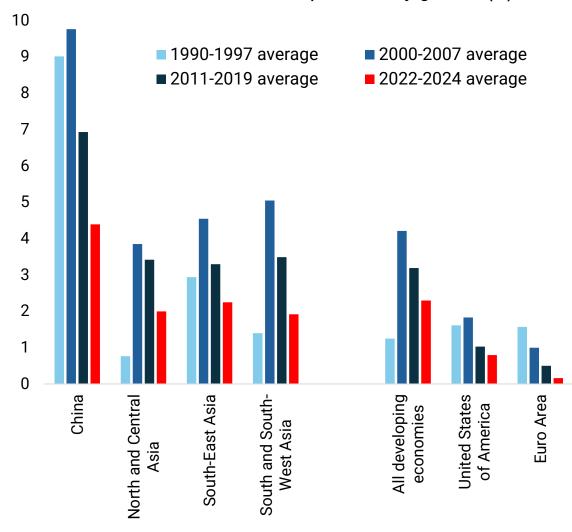


#### Gross national income (GNI) per capita (% of GNI in the US)



Source: ESCAP, based on World Development Indicators database.

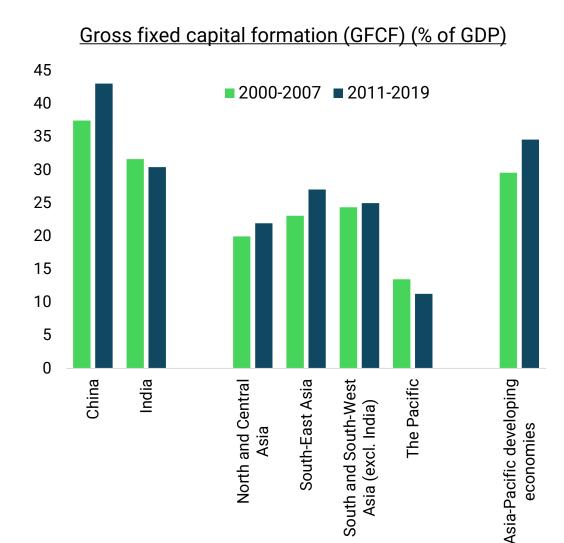
#### Annual labour productivity growth (%)



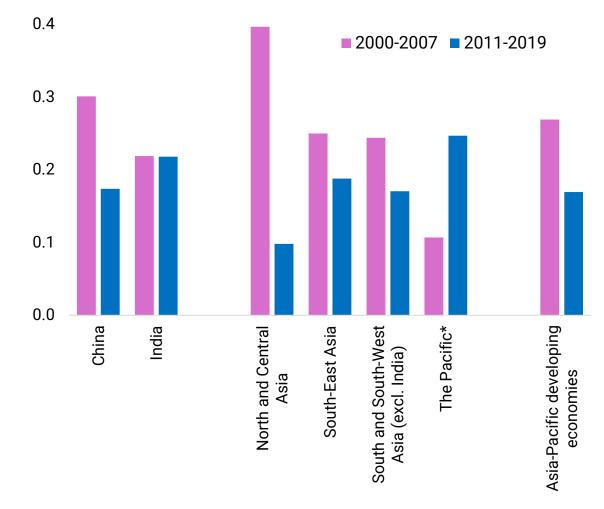
Source: ESCAP, based on The Conference Board Total Economy Database.

## Declining contribution of capital investment to economic growth





#### Economic growth sustained by GFCF equivalent to 1% of GDP (%)



Source: ESCAP, based on World Development Indicators database.

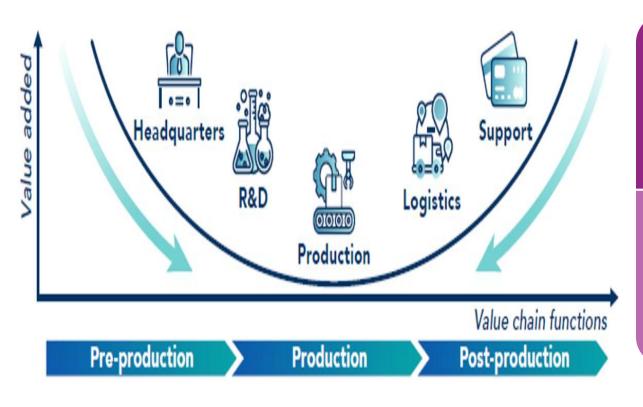
Source: ESCAP, based on World Development Indicators database.

# Policy action 1: sectoral economic upgrading through "developmental state" approach



#### An illustration of the 'smile curve'

Five elements of successful "developmental state"



Thorough initial industrial and market scoping

Feasibility analysis together with domestic private sector

Performance targets, evaluation and exit plans

Targeted support to private sector for implementation

Enabling institutional environment for sector development

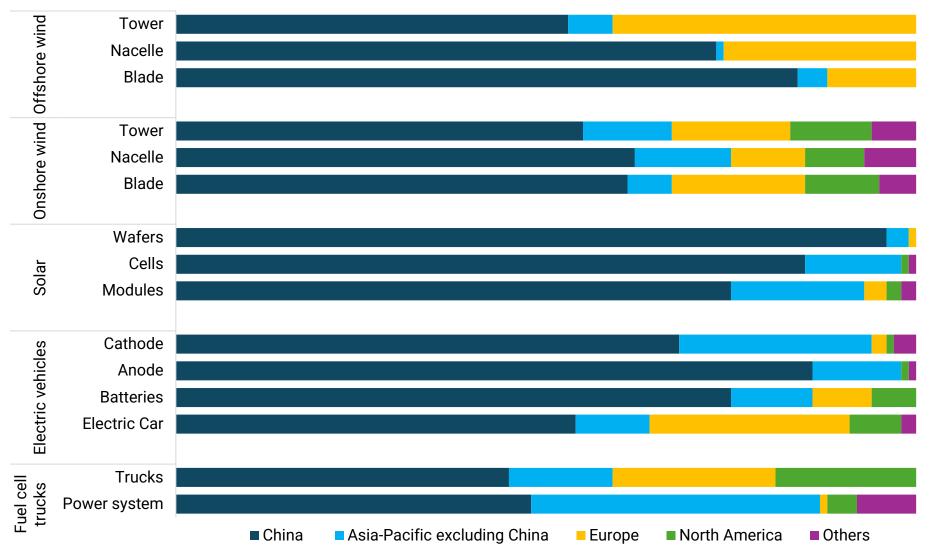
Source: ESCAP.

Source: ESCAP, based on Mudambi (2008).

# Policy action 2: embrace regional green value chains as a new engine of growth ...







## ... by leveraging

- Unparalleled regional manufacturing value chains
- Domestic technological innovations
- Endowments of critical minerals

Source: ESCAP, based on Oğuz (2023) and IEA (2023).



# The macroeconomic-climate change nexus: complex and evolving

## Macroeconomic-climate change interplay

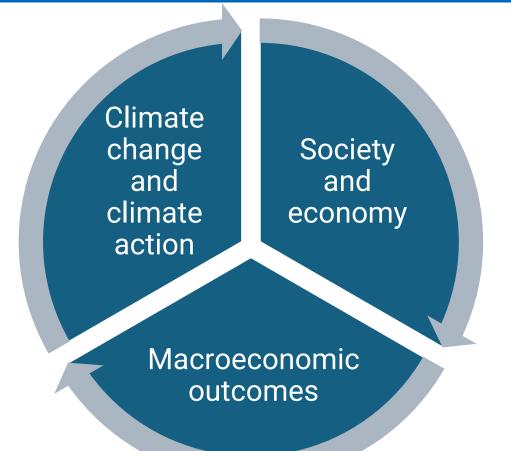


## Climate change – physical impacts

- Sudden weather shocks
- Slow onset events

## **Climate action** – green transition impacts

- Green investment
- Carbon pricing
- Green regulations



### **Society**

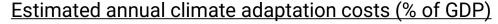
- Health conditions
- Education
- Migration
- Conflict

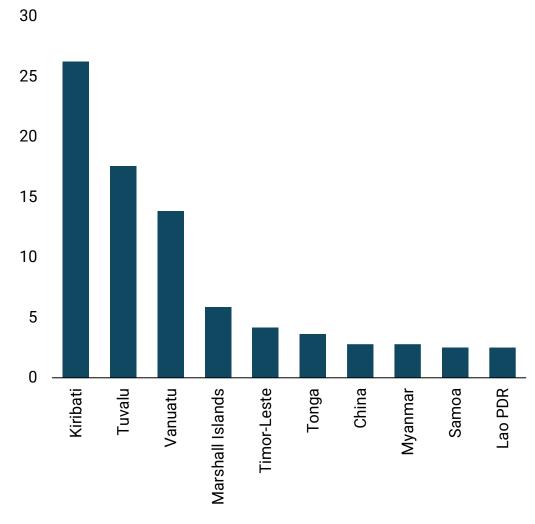
### **Economy**

- Agriculture
- Energy
- Infrastructure
- Tourism
- Coastal economy
- Economic growth
- Employment
- Inflation
- Public debt
- Financial stability

## Significant macroeconomic implications as Asia-Pacific faces more climate shocks and boosts climate action

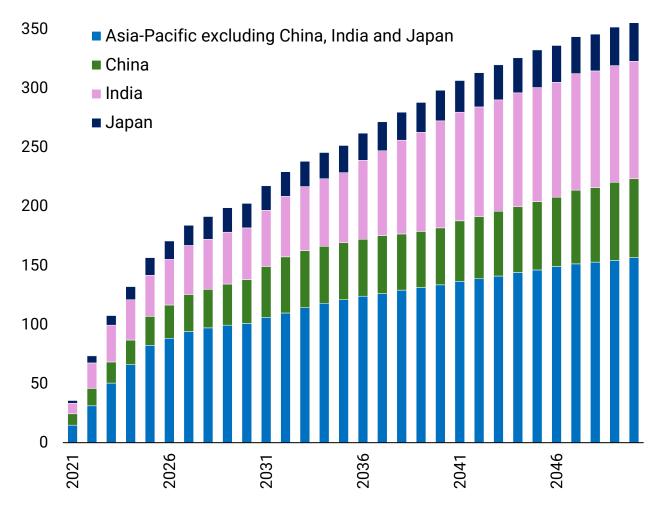






Source: Dabla-Norris and others (2021).

Estimated stranded asset value (\$ billion), 2021-2050



Source: Piontek and others (2021).

## Yet, many macroeconomic impacts of climate change and climate action remain unclear



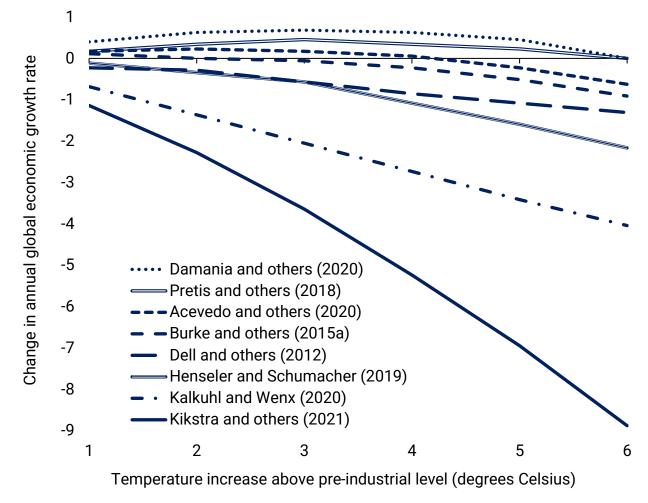
### Risks and uncertainties

Future trajectories of climate change

Selection, timeframe and intensity of green policies

Intended versus actual impacts of policy action

#### Highly uncertain impacts of global warming on GDP



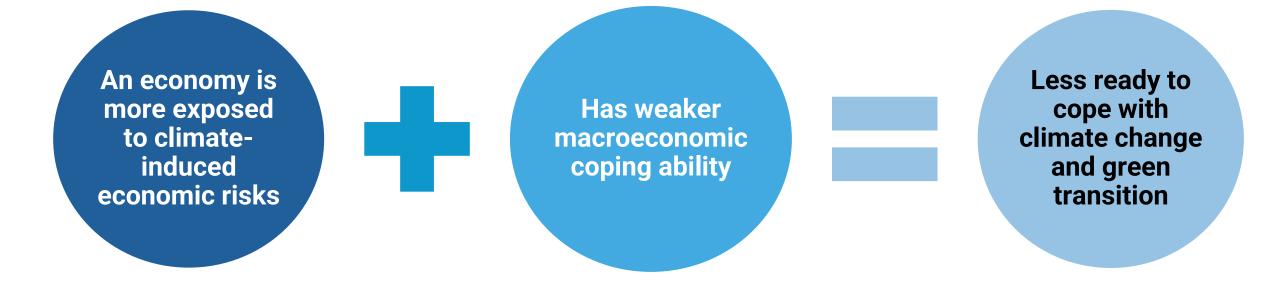
Source: ESCAP, based on Tol (2024).



# Are Asia-Pacific economies ready to cope with the macroeconomic implications of climate change and transition?

## A new macroeconomic-climate readiness assessment for Asia-Pacific





## 11 countries in Asia-Pacific are considered more exposed



Below 65 <sup>th</sup> percentile  Between 65 <sup>th</sup> and 85 <sup>th</sup> percentile  Above 85 <sup>th</sup> percentile	Average annual loss as percentage of GDP	Agricultural value added at risk as percentage of GDP	Carbon intensity	Inflationary impact due to climate change
Afghanistan				
Cambodia				
Islamic Republic of Iran				
Kazakhstan				
Lao People's Democratic Republic				
Mongolia				
Myanmar				
Nepal				
Tajikistan				
Uzbekistan				
Viet Nam				

## Assessing coping ability from the macroeconomic perspective





Fiscal resources

Tax revenue-to-average annual losses (AAL) ratio

Climate finance mobilization-to-AAL ratio

Sovereign debt ratings



Monetary and financial preparedness

Strength of banking sector

Use of green financial policymaking

Ability to meet inflation targets

Financial development level



**Institutional strength** 

Government effectiveness

Public finance transparency

Policy-based fiscal strategies

## Most more-exposed countries also have lower coping ability



## **Higher coping ability**

exposed ess

**More** exposed,

**lower** coping ability

**Less** exposed, **lower** coping ability

Azerbaijan Bangladesh Bhutan Fiji Kyrgyzstan Pakistan Papua New Guinea Sri Lanka Turkmenistan

Afghanistan Cambodia

Islamic Rep. of Iran

Lao PDR

Myanmar

Nepal Tajikistan Uzbekistan

Armenia

Kazakhstan Mongolia Viet Nam

More exposed, **higher** coping ability

China Georgia India Indonesia Malaysia Philippines Republic of Korea Thailand Türkiye

**Less** exposed, **higher** coping ability

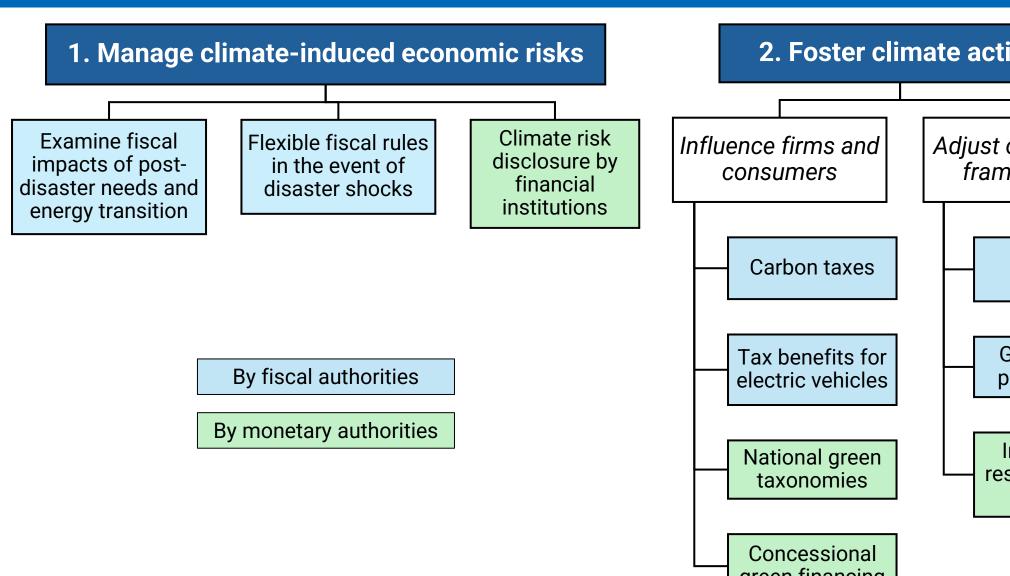


## **Going forward:**

macroeconomic policymaking amid climate change

## Some climate-aligned macroeconomic policies and practices are already in place in Asia-Pacific





2. Foster climate action Adjust own policy frameworks Climate budgeting Green public procurement Invest official reserves in green bonds green financing

# While further embedding climate aspects into macroeconomic policies, policymakers should also ...





Balance environmental sustainability with socio-economic development

- Mitigate unintended social impacts of carbon pricing schemes
- Public investment allocation, e.g.
   balancing more cost-competitive fossilfuel based energy with less costcompetitive renewable energy in some
  countries



Navigate macroeconomic-climate uncertainties

- Identify risks and uncertainties of climate change and climate action
- Adopt innovative decision-making strategies, e.g. strategic foresight for more impactful and robust policy action

## **Key takeaways**



- Rising global trade tensions and economic uncertainty can raise inflation, keep borrowing
  costs higher for longer and disrupt economic development, with varying impacts across
  Asia-Pacific countries.
- Governments need to proactively upgrade economic sectors and capitalize on green value chains to escape the "middle-income trap".
- Many Asia-Pacific economies lack the coping ability to address the macroeconomic implications of climate change
- More climate-aligned fiscal, monetary and financial policies will help the region better cope
  with climate change and green transition. This requires major shifts in policy tools and
  frameworks.
- **Inclusive regional economic cooperation** is indispensable for the region's economic resilience and helps balance the interests of developed and developing countries.



## Thank you

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