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# Climate change and debt sustainability in Latin America

by

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UNCTAD

The views expressed are those of the author and do not necessarily reflect the views of UNCTAD.

### Climate change and debt sustainability in Latin America

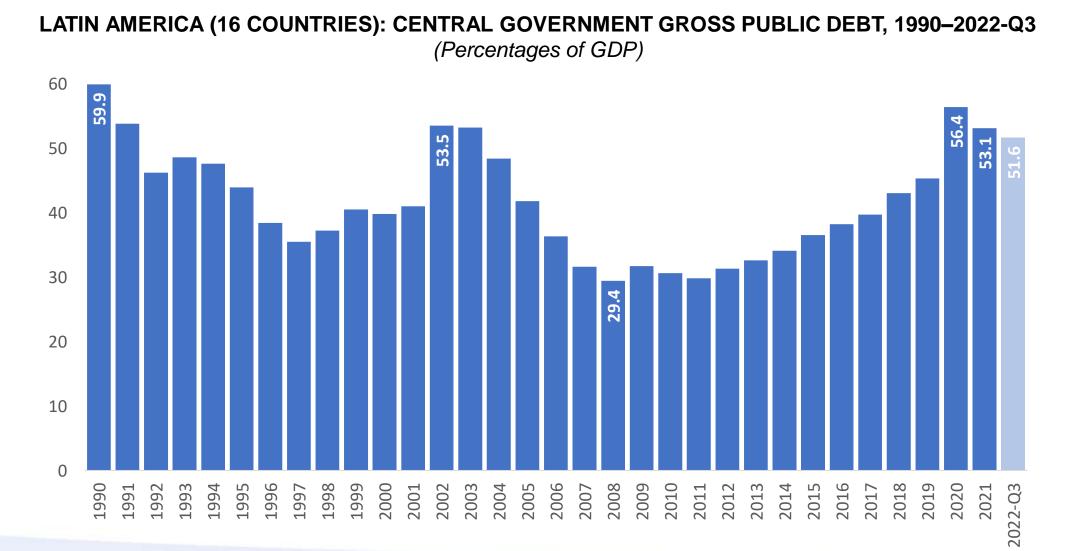
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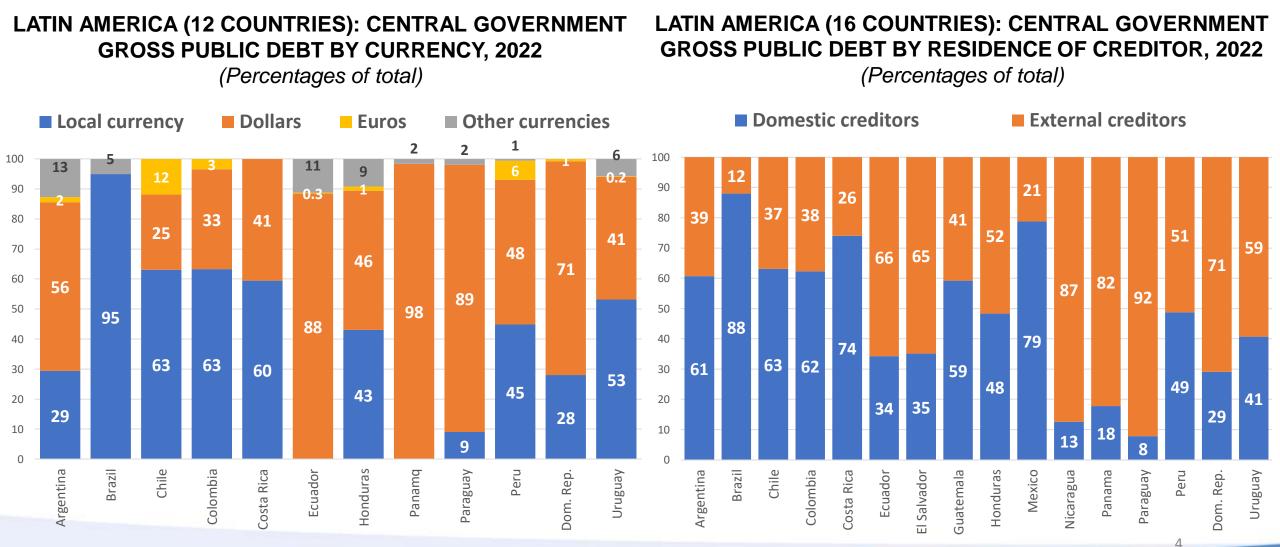
Economic Commission for Latin America and the Caribbean



### **Evolution of debt trajectory of Latin America**

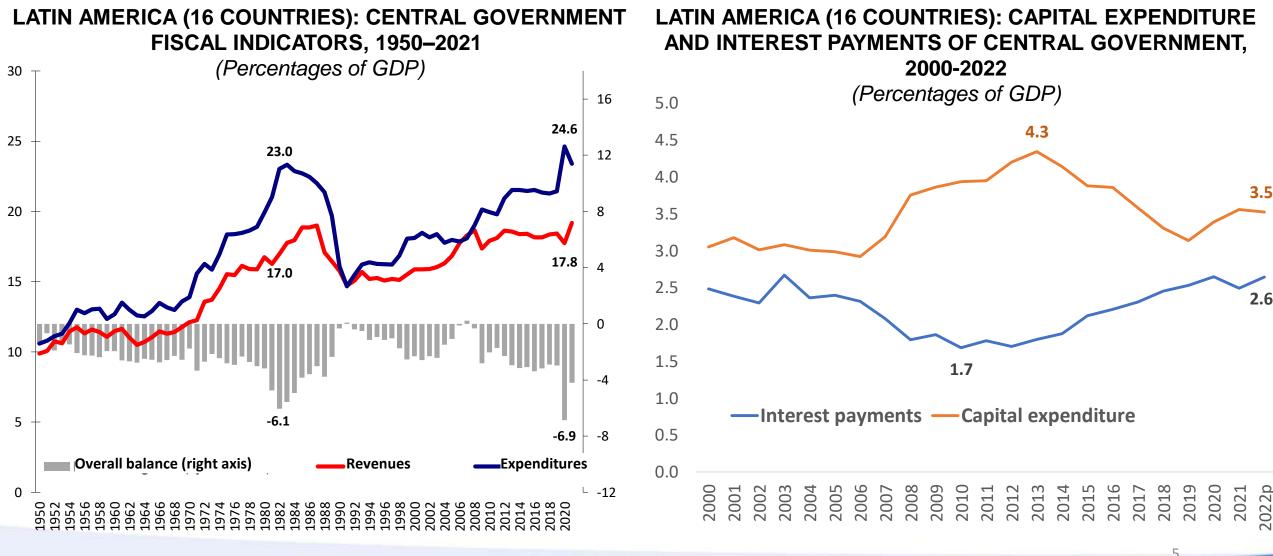


## There have been improvements in debt composition in many countries in the region

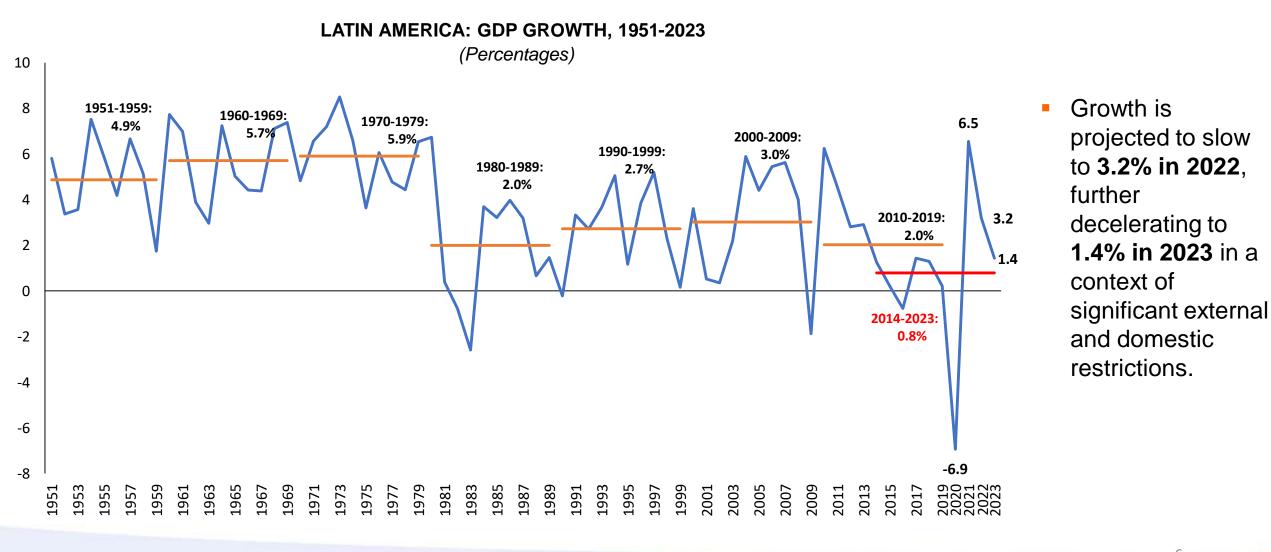


Source: Economic Commission for Latin America and the Caribbean (ECLAC), on the basis of official data.

## Even though fiscal deficits have been declining, interest payments have increased due to higher debt levels, causing tradeoffs with other needed expenditures



## The macroeconomic context has not been favorable for debt sustainability and probably will not change in the years to come



Source: Economic Commission for Latin America and the Caribbean (ECLAC), October 2022 forecast... Note: 2022 and 2023 are forecasts.

## Debt sustainability will require a concerted effort to increase domestic resource mobilization, particularly through increasing the tax take and its progressivity

#### In the short term:

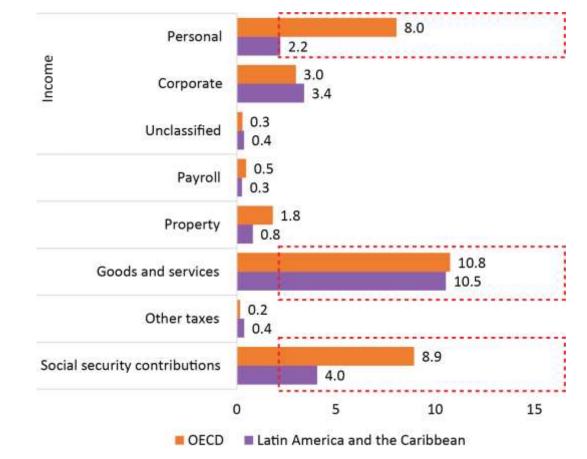
- Curb tax evasion: tax non-compliance in 2018 amounted to US\$ 325 billion, 6.1% of regional GDP.
- Review tax expenditures: average of 3.7% of GDP or 17% of central government budgeted expenditure.
- Adapt tax regulations to new best practices for taxation of the digital economy (Base Erosion and Profit Shifting).
- Global liquidity and multilateral support, particularly MDBs, and reform of the international debt architecture.

#### In the medium term:

- Consolidate personal income tax: 2.2% of GDP in Latin America and the Caribbean, 8.0% of GDP in OECD in 2020.
- Expand the scope of wealth and property taxes.
- Review and update fiscal regimes for exploitation of non-renewable resources, adopt and expand tax instruments based on economic rents (including windfall taxes).
- Consider environmental taxes and taxes linked to public health problems.

#### LATIN AMERICA AND THE CARIBBEAN (27 COUNTRIES) AND ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT (OECD): GENERAL GOVERNMENT TAX STRUCTURE, 2020

(Percentages of GDP)



Source: Economic Commission for Latin America and the Caribbean (ECLAC), on the basis of figures from Organisation for Economic Co-operation and Development (OECD) and others, *Revenue Statistics in Latin America and the Caribbean 2022*, Paris, OECD Publishing.

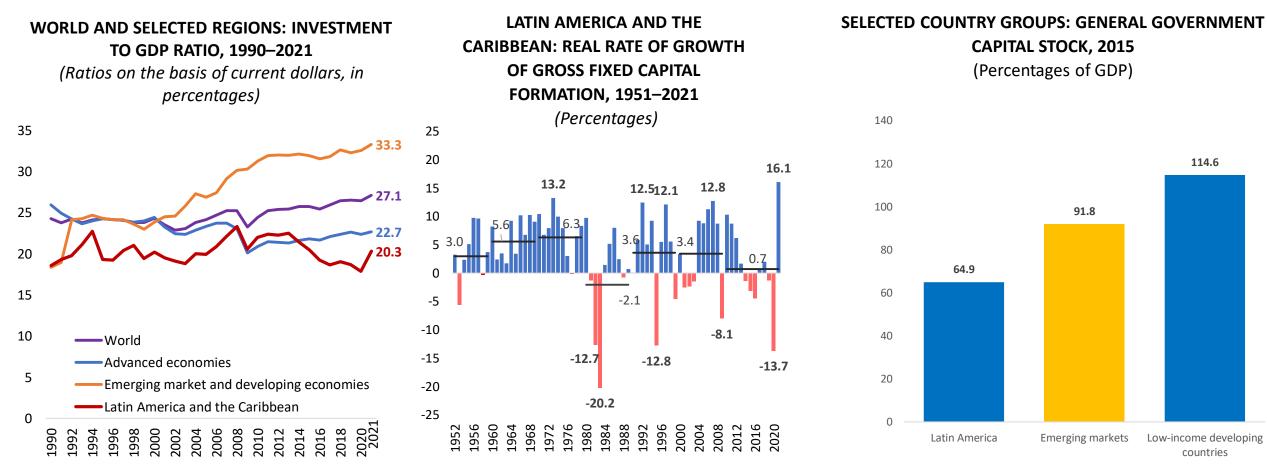
# Climate change puts a lot pressure on debt sustainability, given the large public investment requirements...

- Investment needs to build resilience to climate change are very large.
- Estimates point towards investment – typically fixed capital – requirements of upwards of 2% of GDP per year for adaptation and 10% of GDP per year for mitigation.
  - DSAs need to consider these factors to truly capture debt sustainability that is also viable in economic, social and climate terms.

	Source	Elements included in the estimation	Annual investment needs
Emerging markets and developing countries	IEA (2021)	Investments in renewable energy to achieve net zero greenhouse gas emissions	2.4% of 2021 GDP (1 trillion dollars)
Emerging markets, excluding China	Bhattacharya et al. (2022)	Human capital; sustainable infrastructure; land use, agriculture, environment; adaptation and resilience	6.8% of GDP
Low- and middle-income countries	Rozenberg, et al., (2019)	Electricity, transportation, water sanitation, flood protection, irrigation	7.2% of GDP 4.5% of GDP (capital investment) and 2.7% of GDP (maintenance)
Latin America and the Caribbean	Castellani, et al., (2019)	Infrastructure and reduction of extreme poverty	10.6% of GDP
Latin America and the Caribbean	Rozenberg, et al., (2019)	Electricity, transportation, water sanitation, flood protection, irrigation	2.6% - 8.8% of GDP (depending on scenario)

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## ... which are enhanced due to the region's weak overall investment levels and heightened volatility

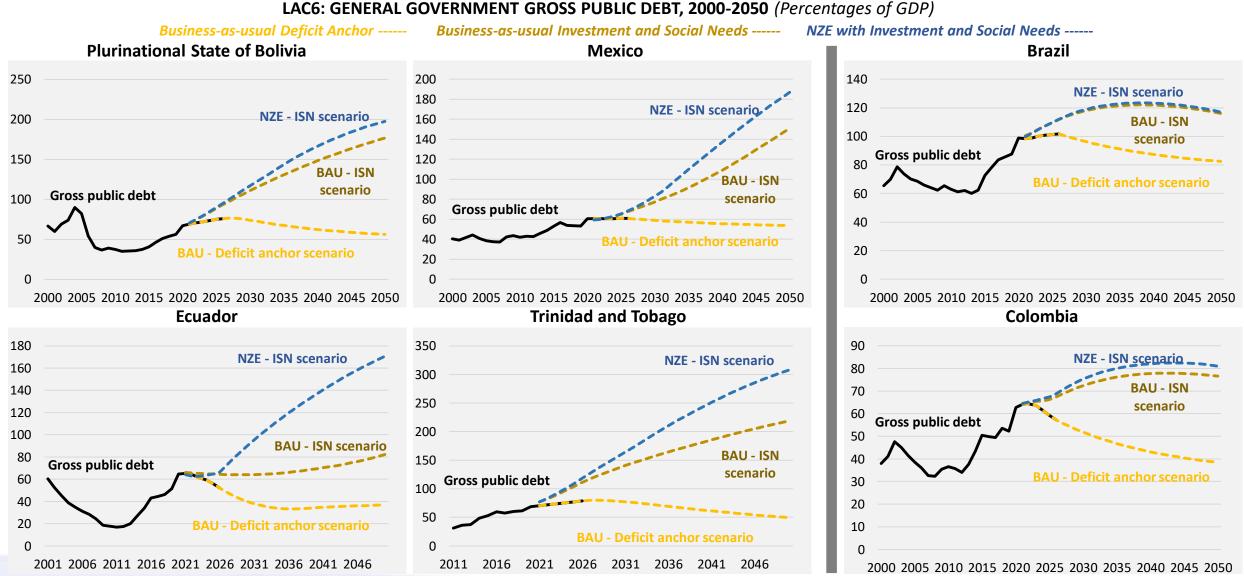


Source: Economic Commission for Latin America and the Caribbean (ECLAC), on the basis of IMF World Economic Outlook, October 2022, and official figures.

**Source:** Economic Commission for Latin America and the Caribbean (ECLAC), on the basis of International Monetary Fund (IMF), "Investment and Capital Stock Dataset". <sup>a</sup> Weighted averages are calculated on the basis of purchasing power parity GDP in international dollars at current prices.

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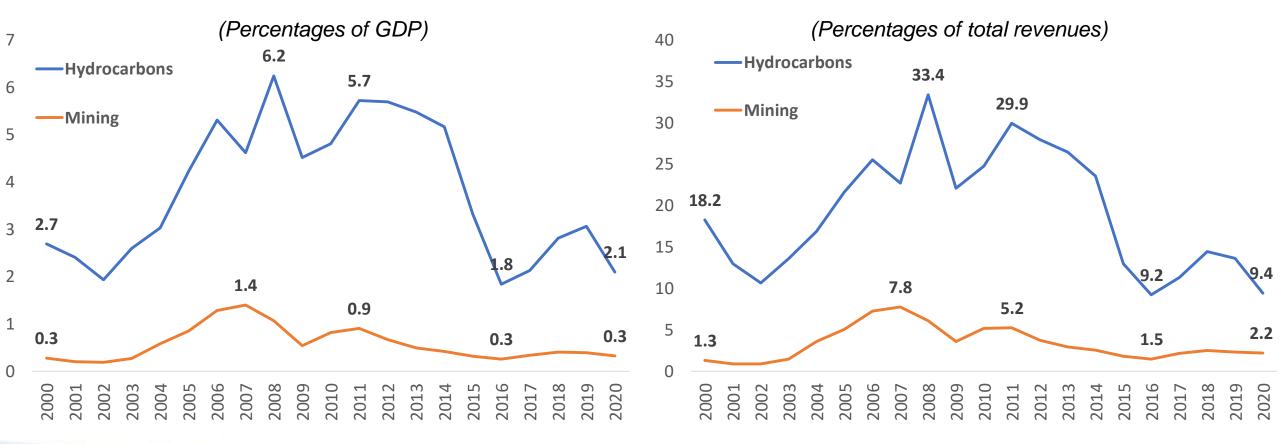
# Climate change, NZE will create unsustainable debt trajectories for LAC hydrocarbon producers



Source: Titelman et al. (2022), "Fiscal Impact Estimates of a Net-Zero Emissions Transition for Major Hydrocarbon Producers in Latin America and the Caribbean: Plurinational State of Bolivia, Brazil, Colombia, Ecuador, Mexico and Trinidad and Tobago" [online] https://www.bu.edu/gdp/files/2022/04/TF-WP-004-FIN.pdf

### **Revenues from extractive industries play a significant in total fiscal revenues**

#### LATIN AMERICA (9 COUNTRIES): GENERAL GOVERNMENT FISCAL REVENUES FROM NON-RENEWABLE NATURAL RESOURCES, 2000-2020



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Source: Economic Commission for Latin America and the Caribbean (ECLAC), on the basis of official data.

### Summing up

- Debt structure in LAC has improved with larger shares of local currency and domestic creditors composition.
- Interest payments have been increasing, creating trade-offs with other needed expenditures.
- A key element for debt sustainability will be the need to public revenues through reforms to the tax structures to improve tax collection and progressivity.
- Addressing climate change will put a lot of pressure on debt sustainability given the expected losses in extractive industries, which in many countries in the region represent an important part of fiscal revenues. Also, investment efforts required to address climate change will put a lot of pressure on public expenditures and debt.