





INDUSTRIAL DEVELOPMENT REPORT 2024











TURNING CHALLENGES INTO SUSTAINABLE SOLUTIONS The New Era of Industrial Policy

Overview

About UNIDO

UNIDO is a specialized agency of the United Nations with a unique mandate to promote, dynamize and accelerate industrial development. Its mandate is reflected specifically in Sustainable Development Goal (SDG) 9: "Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation", but UNIDO's activities contribute to all the SDGs. UNIDO's vision is a world without poverty and hunger, where industry drives low-emission economies, improves living standards, and preserves the livable environment for present and future generations, while leaving no one behind.

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TURNING CHALLENGES INTO SUSTAINABLE SOLUTIONS

The New Era of Industrial Policy



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION
Vienna, November 2023



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FOREWORD

Gerd Müller

Director General
United Nations Industrial Development Organization (UNIDO)



UNIDO is a specialized agency in the UN system with a unique mandate to promote and strengthen sustainable industrial development. In the face of the multiple global crises that we are facing today together, this mandate is more important than ever.

Looking at the world around us, the challenges before us are all too clear. A world with many wars and conflicts - a world where a billion people go to bed hungry every day and struggle with poverty and malnutrition. A world where resources are scarce, where access to clean water is precarious. A world where especially the Global South is suffering the impacts of climate change, and the poorest of the poor are hit the hardest. And where developing countries are still struggling to fully recover from the impacts of the COVID-19 pandemic. Moreover, the gap between rich and developing countries ever widens.

We live in an interdependent world, everything is interconnected. We must recognize that we share one planet and bear responsibility for global developments which ultimately impact us all.

If today 10 per cent of the most affluent people residing mainly in the industrialized countries own 90 per cent of the wealth, and 20 per cent of us are responsible for 80 per cent of the global emissions and environmental pollution, then something is not right with how we are cooperating as one world. Thus, I reiterate that industrialized countries have a special responsibility: a duty to solidarity. They must live up to their many development commitments. Together we should demand much more strongly that the industrialized countries achieve the 0.7% of GDP development spending target.

What we need is a new global ethical code of responsibility and a rethinking of our models of growth, globalization and sustainable development. This in turn necessitates a fair balance of interests between rich and poor, between industrialized countries, developing countries and emerging economies. We have the technologies, the knowledge and the investment resources to provide effective answers to growing global challenges. But knowledge alone is not enough. The countries of the Global South need a development perspective. A precondition for this is access to sustainable energy for all, because energy is the basis of any and all development. Moreover, the growing population in developing countries will need decent jobs –industry can provide these! We need long-term investment in sustainable industrial development, skills training, and above all true global partnership and solidarity to give the hundreds of millions of young people worldwide a promising perspective for the future. The world must act now, and the world must act together for our common benefit and our shared future.





We live in a complex and challenging world, marked by resource scarcity, global warming and widening socio-economic disparities, which disproportionally affect developing countries. Amidst these challenges, our world today is also marked by technological breakthroughs that offer unprecedented opportunities to accelerate inclusive and sustainable development.

The Industrial Development Report 2024 (IDR24) stresses the pivotal role of the industrial sector in delivering sustainable development solutions, given its strong impact on societal and environmental goals. Sustainable industrialization involves fighting climate change, accelerating economic growth, and generating millions of decent jobs, while harnessing cuttingedge technologies. The report highlights that every manufacturing job creates 2.5 jobs, on average, in other sectors of the economy, with the manufacturing industry significantly contributing to green innovation compared to other sectors: 60 per cent of all green patents in the world are held by industrial firms. Accelerating sustainable industrial development is therefore crucial for achieving the Sustainable Development Goals (SDGs).

However, industrialization does not happen on its own. It requires investments, coordinated efforts and carefully designed policies. The industrial policies of the future cannot simply replicate those of the past. This report advocates for a new era of modern industrial policies with four important elements.

First, modern industrial policies should align with the SDGs. Second, they should be future-ready and must consider the mega trends that are reshaping the world right from inception: the energy transition, the fourth industrial revolution, the rebalancing of global production and trade flows as well as demographic trends. Third, modern industrial policies should be collaborative. Governments cannot solve today's challenges on their own. Industry and business must jointly contribute to policy design and ensure effective implementation in the context of private sector development. Finally, such policies should be regionally coordinated to mitigate tensions and unlock the full potential for cooperation amongst neighbours.

The IDR24 introduces a new approach to comprehensively assess progress on sustainable industrialization. This approach takes several indicators into account. In addition to SDG 9 (industry, innovation and infrastructure), it considers SDG 7 (affordable and clean energy) and SDG 8 (decent work and economic growth) as well. The report analyses the latest available data from 2021. To assess the speed

of progress, pre-COVID data from 2009-2019 was used, assuming that most industrial sectors have or will soon revert to pre-COVID trends. The results of the analysis are clear. Global progress towards industry-related SDGs has been far too slow and has been further derailed by the COVID-19 pandemic. Urgent attention, specifically in developing countries, is required in three critical areas: clean energy, decent jobs and innovation.

In 2021, developing countries lagged behind innovation-related-targets for 2030 by 80 percentage points and pre-COVID progress was also disappointingly sluggish. Meeting the targets would have taken more than a century, as only 0.33 percentage points of the gap towards the goal was reduced annually. Thus, even with a return to pre-COVID-19 trends, achieving the targets is beyond reach at this pace. A similar picture emerges for employment and clean energy.

Assessing regional progress highlights that priority areas for investment and intervention differ across regions. This fact needs to be accounted for when designing future industrial policies. For example, 90 per cent of the population in developing countries, on average, had access to energy in 2021, compared to only 60 per cent in Africa. This highlights the urgent need to channel targeted investments on the African continent to energy access. Moreover, the fact that industrial sector performance in countries in Latin America and the Caribbean is decreasing, while the region was already approaching the 2030 targets, is particularly concerning. Now, the region is showing signs of premature deindustrialization, while developing countries were generally making progress in closing the gap on the industry-performance targets.

Effective modern industrial policies alone are insufficient without an entirely new level of international cooperation and solidarity. This necessitates the transfer of expertise and technologies. It also calls for investments with the long-term vision of creating real structural change. The international community needs to commit to increased and sustainable financing, as well as to transforming the global financial system with a focus on fairness and developing countries' needs. Moreover, we need to invest more in our biggest asset, namely providing the world's youth with the skills they need to have a promising future.

This overview document, which was prepared for the twentieth session of UNIDO's General Conference, presents the main findings and key messages of the IDR24.



The Industrial Development Report 2024 (IDR24) was prepared under the overall guidance of Gerd Müller, Director General of the United Nations Industrial Development Organization (UNIDO). It is the result of intense research efforts, fruitful discussions and close collaboration among UNIDO and research partner institutions, global experts and policymakers from all over the world. The in-house team was headed by Cristiano Pasini, Director of the Division of Capacity Development, Industrial Policy Advice and Statistics, and Nobuya Haraguchi, Chief of the Industrial Policy Research Unit. Alejandro Lavopa coordinated the production process and played an instrumental role in the successful completion of the report. The in-house team comprised Fernando Cantu, Carolina Donnelly, Charles Fang Chin Cheng, Muazu Ibrahim, Gina Martí, María de las Mercedes Menéndez, Federico Riccio and Cecilia Seri.

A collection of commissioned regional reports supported the drafting of this edition of the IDR. These were submitted by the following experts: João Carlos Ferraz and Wilson Peres, Institute of Economy of the Federal University of Rio de Janeiro (IE-UFRJ); Ashraf Mishrif, Oman Chamber of Commerce and Industry Chair in Economic Studies at Sultan Qaboos University; Dato' Rajah Rasiah, Asia-Europe Institute (AEI) at University of Malaya; Fiona Tregenna, Rex Asiama, Elvis Avenvo, Alexis Habivaremye and Phumzile Allison Ncube, South African Research Chair in Industrial Development (SARChI) at University of Johannesburg; Zuzana Zavarská, Nikita Egorov, Branimir Jovanović and Olga Pindyuk, Vienna Institute for International Economic Studies (WIIW). Additional background materials were produced by Antonio Andreoni, SOAS University of London; Victor Delbuono and Carlos Freytes, FundAR; Mateus Labrunie, David Leal-Ayala, Carlos López-Gómez, Jennifer Castañeda-Navarrete, Michele Palladino, and Zongshuai Fan, Cambridge Industrial Innovation Policy, IfM Engage, University of Cambridge; Clemente Ruiz Durán, Universidad Nacional Autónoma de México; Marco Sanfilippo, University of Torino; and Roman Stöllinger, Delft University of Technology.

The report greatly benefited from a regional consultation with representatives from UNIDO Member States and prominent regional experts on industrial policy for SDG acceleration, held in Vienna in June 2023. The consultation was made possible thanks to the efforts of an in-house task force led by Ciyong Zou, Deputy to the Director-General and Managing Director of the

Directorate of Technical Cooperation and Sustainable Industrial Development, and comprising of Fakhruddin Azizi, Julius Blaser, Rana Ghoneim, Christoph Klose, Virpi Stucki and Florentina-Roxana Vataselu-Jitariu. The following UNIDO staff also contributed to organizing these consultations: Tsung Ping Chung, Victor Djemba, Solomiya Omelyan, Cecilia Ugaz and Jie Zhao.

Many of the concepts introduced and elaborated in the report were presented and discussed at two workshops with international experts in June and September 2023. During these meetings insightful comments were provided by Salim Araj, United Nations Economic and Social Commision for Western Asia (UNESCWA); Mulu Gebreeyesus, Barnard College, Columbia University; Anders Jonsson, United Nations Economic Commission for Europe (UNECE); Andrea Laplane, United Nations Economic Commission for Latin America and the Caribbean (UNECLAC); Adam Elhiraika and Olayinka Lawal Bandele, United Nations Economic Commission for Africa (UNECA); Keun Lee, Seul University; Yusuke Tateno, United Nations Economic and Social Commission for Asia; and the Pacific (UNESCAP), Wang Yong, Peking University; and Murat Yülek, Istanbul Commerce University. The report also greatly benefited from constructive comments provided by UNIDO colleagues in various meetings and presentations: Julius Blaser, Nicola Cantore, Helmut Fleischer, Alla Metelitsa, Fernando Santiago, Stephanie Von Ehrlich and Natascha Weisert.

Special thanks go to Prof. Jeffrey Sachs who provided guidance throughout the production of the report, and to the other prominent experts and regional leaders who gave their valuable statements related to the topics covered in the report: Olga Algayerova, Rebeca Grynspan, Justin Yifu Lin, Andrea Illy, Marianna Mazzucato, Albert Muchanga and José Antonio Ocampo. We thank the UNIDO special representatives for the different regions, Fatou Haidara, Josef-Christoph Karl Pelikan, Cecilia Ugaz and Yuko Yasunaga, for their comments and support along the formulation process. Thanks also go to UNIDO colleagues Akos Koeszegvary and Andrea de Marco for facilitating the communication with private sector representatives.

UNIDO staff members Nevena Nenadić and Iguaraya Saavedra provided extensive administrative support and Niki Rodousakis provided copy-editing assistance. The report was edited by Goranka Crété and designed by Mauricio Mondragón.





Global polycrisis hits the developing world: SDGs progress hampered

GLOBAL POLYCRISIS...

Causes



COVID-19 pandemic



Armed conflicts



Climate-induced catastrophes

The lingering effects of COVID-19, amplified by a rising number of armed conflicts and climate-change catastrophes, brought dramatic consequences around the world.

HITS THE DEVELOPING COUNTRIES ...

Consequences

- Surge in inflation and unemployment
- Disruptions in value chains

122 million

before the global pandemic

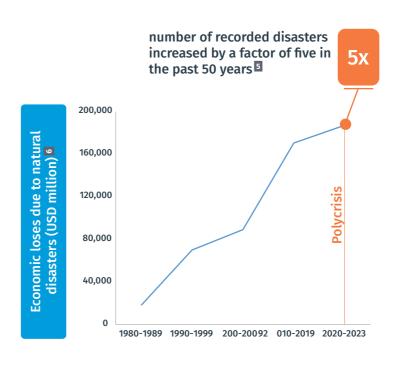
 Unprecedented increase in extreme poverty and hunger

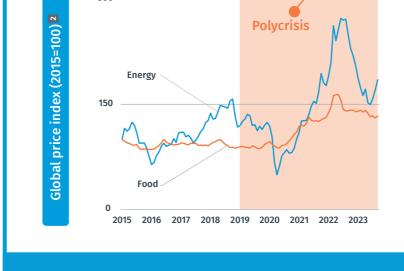
more people faced hunger in 2022 than in 2019,

100 World Polycrisis 80 2015 2016 2017 2018 2019 2020 2021 2022 2023

70 million

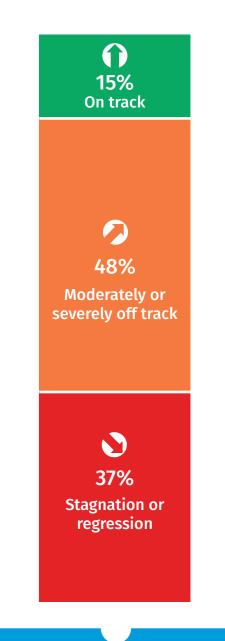
more people are estimated to be in extreme poverty





- Massive lay-offs and sharp increases in prices due to COVID-19 and the Ukraine armed conflict led to an increase in extreme poverty and food deprivation.
 Economic losses have increased sevenfold since 1970 due to climate change-related catastrophes.
- Low-income countries suffered the hardest hit. Unemployment rates and production at the global level have come back to pre-COVID-19 levels, whereas in low-income countries, the recovery has been much slower. At the same time, the surge in food prices has been particularly severe for low-income countries, which are more dependent on food. Low-income countries are also estimated to lose 1 per cent of their GDP per annum due to climate-attributed disasters, compared to 0.2 per cent in high-income countries. 7

SDGs PROGRESS AT RISK: HALTED OR REVERSED



The combined effects of the polycrisis put at risk the achievement of all SDGs. At the midpoint Agenda 2030, it is unlikely that the SDGs will be achieved. A course correction is urgently needed.

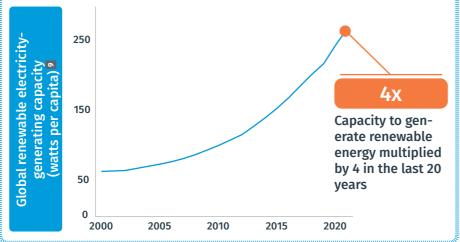
Megatrends reshaping the world: developing countries at risk of being sidelined

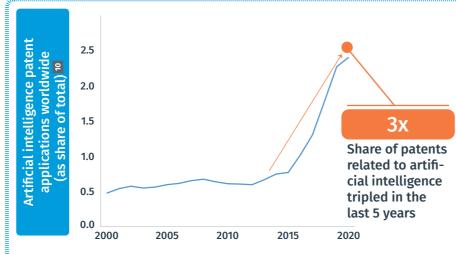


Climate change requires a sharp revision in production modes to reduce emissions and environmental degradation. Renewable energy sources are key elements of this new landscape. More stringent environmental regulations will come with new challenges.

Challenges

- The world is rapidly changing, particularly in the area of fast-paced technology. While these innovations can act as catalysts for sustainable development, countries that do not have access to emerging technology, are at risk of being left behind.
- These transformations pose new challenges for countries seeking to recover from the polycrisis and accelerate progress towards achieving the SDGs.

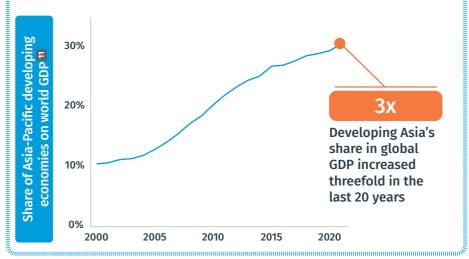


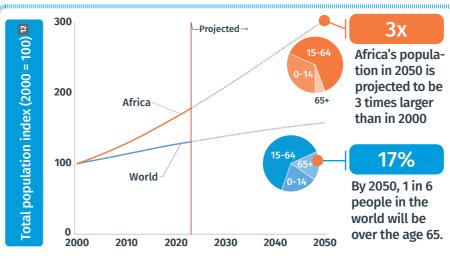




Industry 4.0
technologies such as
artificial intelligence,
advanced robotics, the
Internet of Things, additive
manufacturing, big data
analytics, and cloud
computing, are reshaping
the way we live, consume
and produce.

A substantial shift in economic power is taking place. Developing Asia-Pacific is a new emerging pole in the global economy, primarily through a rapid integration into global value chains (GVCs). Growing geopolitical tensions and trends towards reshoring might revert this trend.





Steady population growth in the developing world and a rapidly aging population in advanced countries pose major challenges for future development. The demand for food, energy and medicines and the need for more jobs will increase dramatically worldwide.

Solutions

- Government actions are needed to ensure a rapid recovery from the polycrisis and accelerate progress towards sustainable development.
- This means massive investments and suitable policies to direct those investments into the most beneficial sectors.





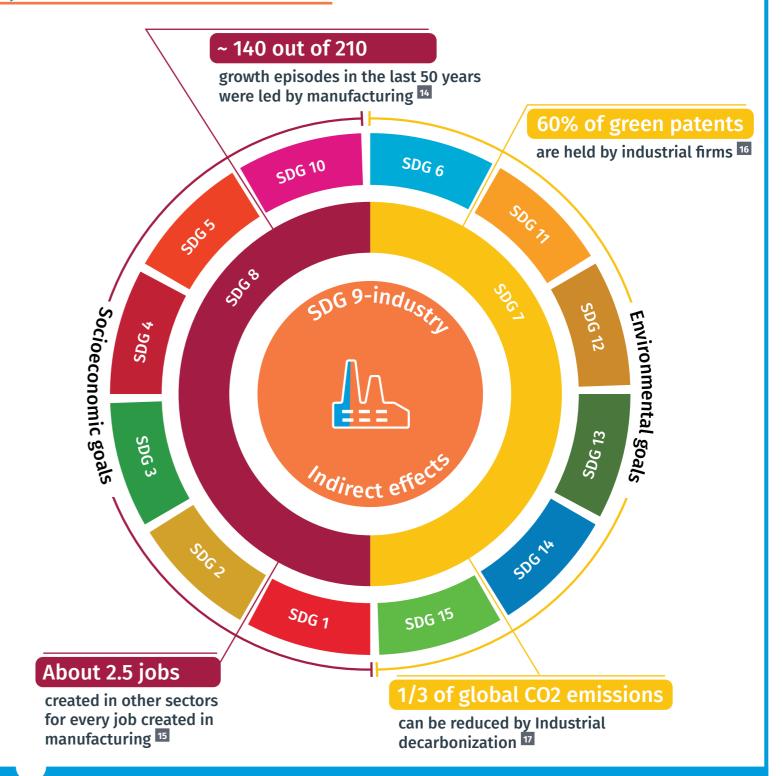


Accelerating the SDGs through industry

INDUSTRY CAN BECOME A MAJOR ENGINE TO RESCUE THE SDGs

Industry is key to accelerating growth, innovation, creating jobs, reducing poverty and hunger, making more equal societies, and fighting climate change.





- When resources are scarce, they should go to activities with the strongest multipliers. Industry is particularly well suited to accelerate progress as it directly and indirectly affects all SDGs. 13
- Direct effects include: the provision of essential goods (SDGs 2, 3 and 12); the development of industrial skills (SDG 4) and new technologies to accelerate growth (SDG 8) and reduce emissions (SDG 7); the creation of decent jobs (SDGs 5 and 8); the development of a middle class (SDG 10); and the creation of industrial clusters (SDG 11).
- Indirect effects materialize mostly through SDG 7 and SDG 8. Economic growth acceleration and the creation of decent jobs are the two primary drivers of achieving the socio-economic goals, such as poverty alleviation. The industrial innovations for the energy transition are fundamental for achieving environmental goals, such as climate action.
- Industrial development can potentially accelerate all SDGs, if it is set into motion by the next generation of industrial policy.

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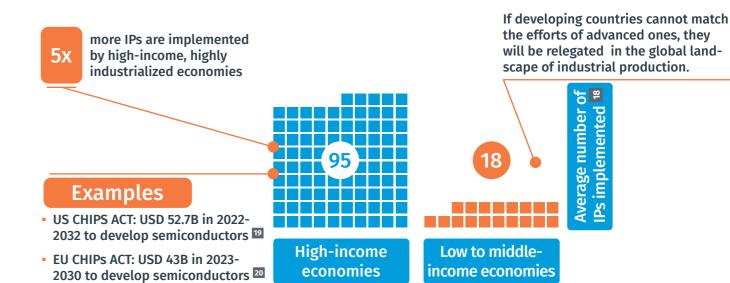
New industrial policies are urgently needed

THE RENASCENCE OF INDUSTRIAL POLICY (IP)

Industrial policy is on the rise.

oportion of industrial over total policies (% IP duplicated in the last 10 2011 2012 2013 2014 2015 2016

But it is primarily driven by high-income economies.



- The industrial sector will not automatically modernize, become competitive and sustain progress over time. It requires industrial policy.
- Recent years have witnessed a renascence of industrial policy, which is at the top of the political agenda.
- This renascence is not about igniting infant industries in less developed countries. It has been primarily motorized by the most industrialized countries of the world.
- Low-income countries are already at a disadvantage compared to advanced economies because their manufacturing sector is less productive and competitive.
- A revival of industrial policy in advanced countries could exacerbate these differences and widen the global divides, causing more challenges for developing countries to accelerate their industrialization.

Industrial policy (IP) refers to interventions that seek to change the structure of the domestic economy towards sectors, technologies, or tasks that are expected to offer better prospects for economic growth or societal welfare.



What is





policies today more than ever, but these policies must be more inclusive and harmonized internationally.

Developing countries need new industrial



A new mindset - putting the SDGs at the front

Collaborative

to ensure success amongst all stakeholders, as governments alone cannot solve the challenges of today's world.

Future-ready

to avoid surprises and make the most of the opportunities.



SDG-oriented

to give a clear direction of change.

Regionally coordinated

to avoid tensions and unlock the full potential among neighbours.

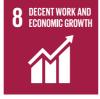
- An SDG-oriented industrial policy 21 should start with a clear assessment of where countries and regions are in terms of their progress towards achieving the SDGs.
- When it comes to industrial policy, the most immediate SDGs for action are SDGs 7, SDG 8 and SDG 9.
- The Industrial Development Report 2024 (IDR24) proposes a new approach for assessing the progress of focus SDGs.
- IDR24 also discusses the main priority areas, challenges and industrial policy instruments that governments around the world can use to accelerate progress in these crucial dimensions.













How do we assess progress towards SDGs 7, 8 and 9?

Each of the three assessed SDGs combines multiple indicators associated with different targets. To operationalize the assessment, these indicators are clustered along three analytical dimensions for each SDG. 22 Using official UN data 23, a composite indicator is calculated based on the distance to achieving the target, for each dimension, and in each region. Whenever possible, the target is defined using the ideal target implicit in the 2030 Agenda. This is the case, for instance, in indicator 7.1.1, "Proportion of population with access to electricity", where the target was set to 100%. In all other cases, the target was defined based on the best performance in all countries with available data between 2000 and 2021 (after excluding outliers). The indicators were then normalized between zero and one, with the latter representing the optimal target achievement, and aggregated by dimension at the country level using arithmetic means. Finally, country-level indicators by dimensions were aggregated at the regional and sub-regional levels using population-weighted averages.

Mariana Mazzucato

"One of the reasons why we have not been able to achieve the SDGs is that they are not embedded in our industrial strategies and innovation policies. A mission-oriented approach to an industrial strategy that uses the SDGs as challenges can start changing this. By placing the SDGs at the center of our industrial, technological and innovation policies, we can direct our economies towards more inclusive and sustainable models. We need industrial strategies that are ambitious and introduce conditionalities to ensure that government support is directed to achieving the SDGs."

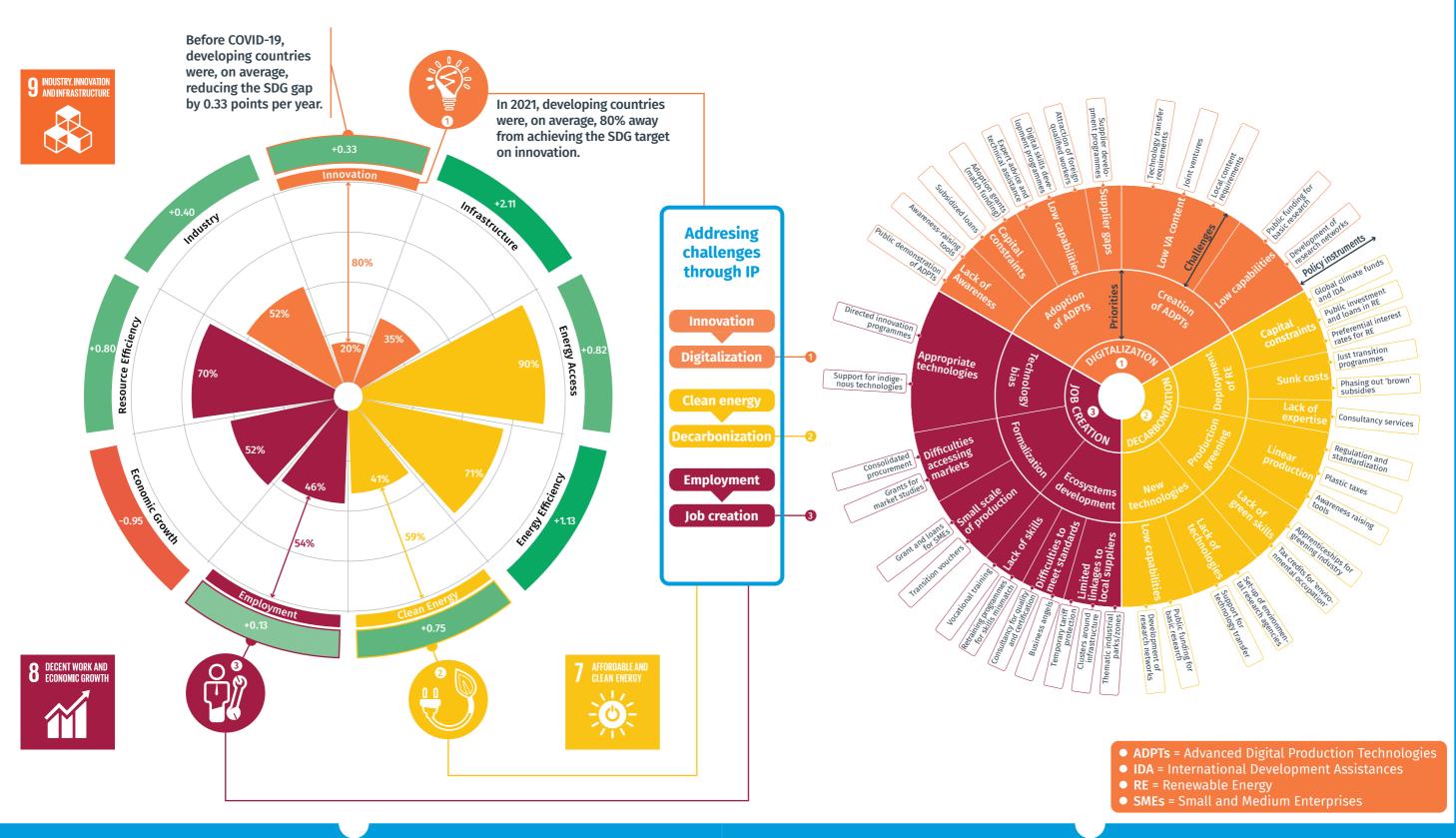


Professor at University College London and Author of Mission Economy

FROM SDGs CHALLENGES TO INDUSTIAL POLICY SOLUTION

Distance to SDGs targets: the developing world in 2021

Industrial policy solutions to accelerate progress



• The assessment of SDG progress for the developing world shows three areas that need special attention: innovation, clean energy and employment.

 Accelerating progress in these areas through industrial policy means supporting industrial digitalization, industrial decarbonization and industrial job creation. Each dimension requires specific policy instruments to address specific challenges.²⁵

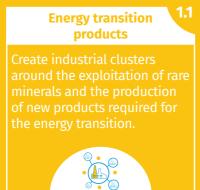
Looking into the future

ONGOING GLOBAL TRANSFORMATIONS OFFER OPPORTUNITIES TO ACCELERATE PROGRESS THROUGH WELL-CRAFTED INDUSTRIAL POLICIES



More stringent environmental standards for existing products will come together with new market opportunities in renewable-based goods and their inputs.

The four main megatrends shaping the world present significant challenges for developing countries, but, at the same time, they open up new opportunities.





Global rebalancing such as reshoring, back-shoring and friend-shoring create problems on one side of the shore, but opportunities on the other side.



Relocating FDI attraction

Expand domestic industry by attracting FDI that is relocating due to major shifts in the global structure of production.



Greater integration

Upscale industrial production by tapping into regional markets through greater integration and policy coordination.



Each opportunity primarily affects SDG 9 - industry, but also impacts other SDG dimensions:

SDG 7 - Clean energy

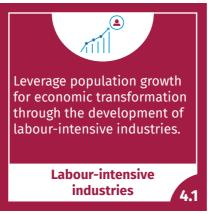
SDG 9 - Innovation

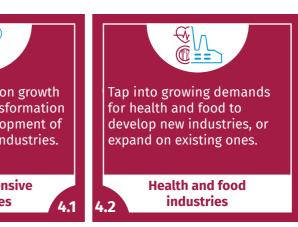
SDG 8 - Decent work and economic growth

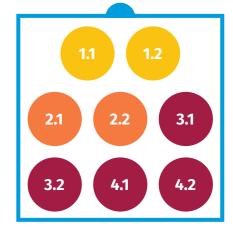
IDR24 identifies eight areas of opportunity to accelerate SDG progress through the next generation of industrial policy.













Advanced digitalization can spur industrial competitiveness, open new market opportunities and drive future innovations

Population is growing exponentially in some parts of the world and aging rapidly in others. Demand for food and medicine will continue to grow worldwide.



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Working in collaboration Modern industrial policies must stand at the frontier of knowledge to be future-oriented and harness the transformative potential of ongoing trends shaping the world. This ensures that they are not only reactive, but are also rather proactive and anticipate the needs of tomorrow. The market falls short in knowledge-sharing.

- A forward-thinking approach requires a continuous knowledge exchange between stakeholders, as neither the private sector nor
- Identifying solutions, deciding on technological investments, and setting overarching economic growth directions must be a collaborative effort between governments and businesses.

the government can achieve this alone.

- Public-private sector collaboration is a foundational pillar for modern industrial policies. These partnerships must involve sharing risks and rewards, and having a collective vision for the future. Both parties must be equally invested, with the public sector showing leadership through bold visions, and the private sector bringing innovation and adaptability to the table.²⁶
- In the context of the megatrends, the significance of these partnerships becomes even more pronounced. 27

OVERVIEW

IDR24

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Public-private partnerships are crucial in addressing infrastructure barriers for industrial decarbonization and championing sustainable innovations. These partnerships can increase resource efficiency, enhance energy efficiency, enable fuel switching, advance carbon capture and storage, and gather better data for informed decision-making.

Open collaborations in global and regional supply chain development can help anticipate and respond to disruptions, support business continuity planning, strengthen international coordination, and encourage the use of resilienceenhancing technology.

Collaborative efforts are essential to accelerate technology adoption, especially with smaller firms. These efforts can range from pooling diverse expertise, providing demonstration facilities to establishing research linkages, and investing in enabling infrastructure.

Public-private sector collaboration is essential to develop new skills and ensure the employability of future generations. This collaboration should build stronger ties between employers and training providers, promote on-the-job training, and diversify the workforce.



Andrea Illy

"The world might lose half of suitable land for coffee production in the next three decades as a result of climate change. This would put at risk the virtuous circle that exists between the well-being that coffee brings to consuming countries and its contribution to the development of the countries which produce it. This virtuous circle must be nurtured in order to improve the sustainability of the sector. The most urgent action needed to achieve this goal is to foster public-private partnerships aimed at boosting investments in climate change adaptation and mitigation, particularly related to smallholders' coffee plantations in low-income countries."



Chairman of illycaffè

Coordinating with neighbours

- The most pressing challenges confronting the world are global in nature, but the policy solutions to address them are designed and implemented by individual countries.
- At a national scale, industrial policies implemented by large and influential countries have major global implications.
- Policy coordination at the global and regional levels is paramount to ensure that common benefits are maximized, and the unintended negative impacts and harmful competition of policies are avoided.
- Supra-national policies and programmes can set a general framework for national-level industrial policies. Such frameworks provide guidance, coordination, and flexibility for each country to integrate industrial policies into existing national priorities and strategies, and to leverage their comparative advantages.
- International and regional cooperation can leverage the endeavors of national policies and existing networks, such as those led by development organizations. These networks have a strong potential to build and grow learning platforms for industrial policy best practices.



Jeffrey Sachs

"Solutions to the great sustainable development challenges must be pursued not only at the national level but also at the regional and global levels. No country can efficiently decarbonize by itself. An efficient net-zero energy system should also be pursued through regional-scale infrastructure and long-term strategic planning at the regional level. Regional strategies and cooperation also play a vital role in achieving economies of scale in research and development. My advice to all countries is to get along with your neighbours! Regional-scale cooperation and global cooperation across regions is our real path to success."





Director of the Center for Sustainable Development at Columbia University



Ingredients for success

The review of policy cases done in IDR24 demonstrates three important ingredients for success in a modern industrial policy:

- Strong government capabilities: a modern industrial policy has more ambitious targets than in the past while facing new challenges. The pre-condition for success is capacity building and strengthening of the government.
- Proper financing: even if capabilities are developed, a modern industrial policy can only reach the scale needed to make change happen if it has sufficient financial resources.
- Wide societal consensus: capacity and finance must go hand in hand with a wide societal consensus to ensure the continuity of industrial policy beyond political cycles.

A modern industrial policy combining all these ingredients provides the opportunity to ignite the industry's full potential and accelerate the SDGs.

The international community can play a key role in supporting countries to make this happen.

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The need for solidarity

Domestic efforts alone will not be sufficient. The international community must come together in solidarity to support the most vulnerable countries by:

- Ensuring expanded and sustainable financing. with a commitment to transform the global financial system and prioritize the needs of developing countries.
- Supporting the development of government **capabilities** to design and implement a modern industrial policy.
- Supporting the transfer of new technologies and the domestic efforts to adapt them to the local conditions.
- Supporting the development of new skills to reduce unemployment and underemployment, increase productivity, and improve living standards.
- Opening the policy space.

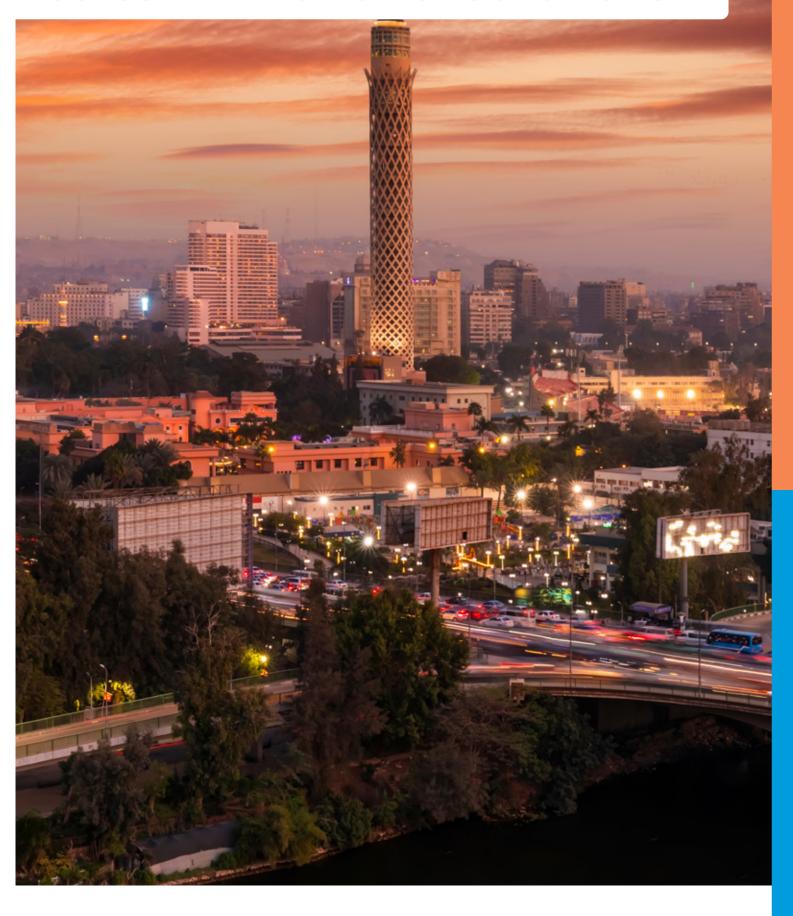
José Antonio Ocampo

"Deep reforms are needed in the international financial system to support sustainable development and expand the provision of global and regional public goods, primarily in the struggle against pandemics and climate change. To this end, there is a need to continue to reform the Bretton Woods Institutions, broadening the voice and participation of developing countries in decision-making processes. It is also necessary to move towards a more representative body at the helm of the international economic cooperation system and build a denser, multi-level architecture, especially strong regional and sub-regional institutions, which are growing in importance as they support intraregional trade, investment flows and other economic integration goals."

Professor at Columbia University and former UN Under-Secretary-General for Economic and Social Affairs, Executive **Secretary of ECLAC and Finance Minister of Colombia**



SECTION 5. AFRICA: FROM SDGs ASSESSMENT TO POLICY SOLUTIONS



- Despite positive progress in recent years, industry in Africa is lagging, compared to other developing regions. Urgent actions are needed to accelerate industrialization in Africa while promoting other SDGs.
- Clean Energy offers a unique opportunity for Africa to accelerate progress on the SDGs. With its vast renewable resources, there is huge potential for Africa to leapfrog into green technologies.
- To improve employment targets, more robust policies that address youth unemployment, promote workforce gender equality, and support workers' transition from the informal to the formal economy are required.
- Infrastructure development is crucial for Africa's industrial growth. Investments in roads and digital infrastructure can pave the way for interconnecting, integrating, and transforming the African continent.
- Innovation stands out as the most pressing challenge. Without significant efforts in research and development, Africa is at risk of being left behind in the global technological race.



Albert Muchanga

"As part of promoting regional and continental value chain development, African countries are working together by leveraging the platform of the African Continental Free Trade Area. The aim is to harmonize their industrial policies and build specialized production hubs in specific and complementary sectors. Consequently, this will enable them to reap the benefits of a dynamic, inclusive and sustainable industrialization process across the continent. In this way, industrial policy can contribute towards the achievement of the United Nations SDGs in Africa and the African Union Agenda 2063."

Afr Ecc To

African Union Commissioner for Economic Development, Trade, Tourism, Industry and Minerals

Policy in action 2.1 Kenya's Industry and Entrepreneurship Project 250+ (KIEP) is set up to increase productivity and innovation of SMEs. 2.2 Rwanda's ICT Hub Implementation Framework seeks to improve innovative capabilities in ICT and develop technological capabilities to provide solutions in niche areas. **Policy in action** 3.2 The African Continental Free Trade Area (AfCFTA) is expected to spur intra-African trade, creating a common market to overcome many industrialization barriers faced by African countries. 4.1 Ethiopia's Industrial Parks Development Programme (IPDP) aims at establishing and developing industrial parks to attract FDI and promote job creation. 4.2 Egypt's National Industrial Develop-

ment Strategy (NIDS) and the New Investment Law aim at leveraging the country's strengths to transform it into a leading hub in pharma. IDR24

SDGs Assessment Africa's low performance in innovation indicates a critical area for improvement as this can hamper technology adoption and economic growth. Tapping into 4.0 technologies can accelerate innovation, industrial competitiveness [2.1] and economic diversification [2.2]. **Opportunuity Areas** 2.1 4IR Competitiveness **2.2** Digital solutions 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE Resource Efficiency

8 DECENT WORK AND ECONOMIC GROWTH

Opportunuity Areas

3.2 Greater integration 4.1 Labour-intensive industries

4.2 Health and food industries

SDGs Assessment

- Economic growth can be accelerated through deeper regional integration [3.2] and diversification towards sectors with high expected demand [4.2].
- •Attracting FDI that is relocating to support labour-intensive industries' development [4.1] can help to create jobs.

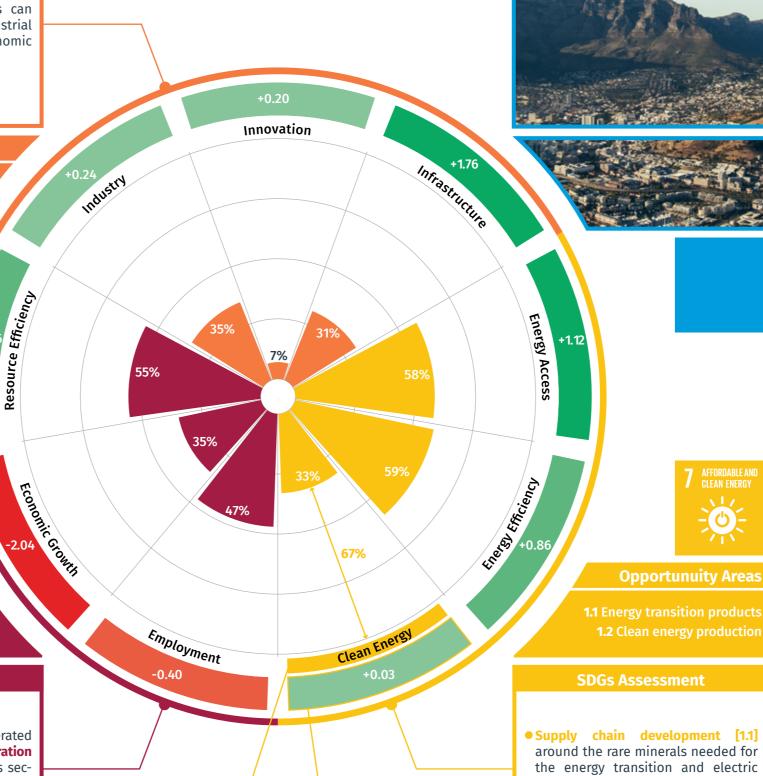
In 2021, African

countries were, on

average, 67% away

from achieving the SDG

target on clean energy.



How to read

this graph?

Before COVID-19,

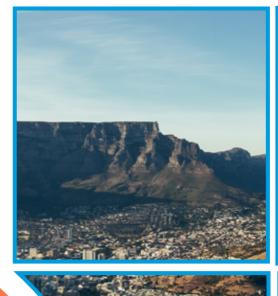
African countries were,

on average, reducing

the clean energy gap

by 0.03 points per year.

Distance to SDGs targets: Africa in 2021







Policy in action

- 1.1 & 1.2 Uganda's National Development Plan (NDP) focuses on diversifying energy sources and improving energy access, including the production of solar energy-powered electric vehicles (EVs).
- 1.1 Nigeria's National Automotive Industry Development Plan (NAIDP) focuses on bolstering the local production of vehicles, including EVs, to increase clean fuel consumption and reduce emissions.

SDGs Assessment

AFFORDABLE AND CLEAN ENERGY

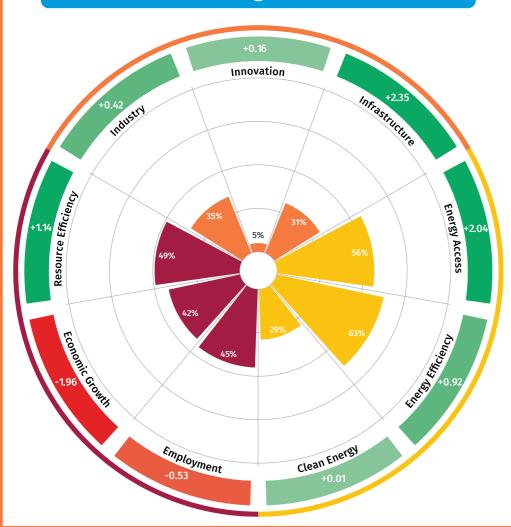
Opportunuity Areas

- Supply chain development [1.1] around the rare minerals needed for the energy transition and electric mobility opens important opportunities for Africa's industrialization.
- Energy access can be enhanced by promoting industrialization around clean energy production [1.2].

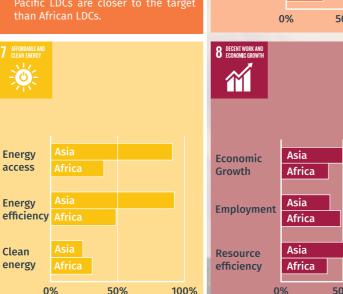


Focus on least developed countries (LDCs)

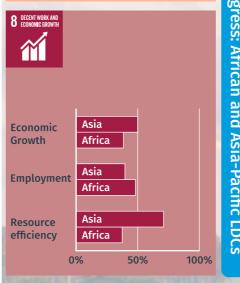
Distance to SDGs targets: the LDCs in 2021



- In all the dimensions assessed, the LDCs are further away from the SDGs
- SDGs is particularly slower in the areas of energy access, resource all these dimensions, the LDCs are at
- how much better results than thei counterparts from Africa. In six of the nine assessed dimensions Asia Pacific LDCs are closer to the targe



Industry Africa Infrastructure 100%



LDCs are low-income countries confronting severe structural impediments to sustainable development. They are highly vulnerable to economic and environmental shocks and have low levels of human assets. There are currently 46 countries on the list of LDCs including 33 in Africa, 12 in Asia-Pacific and Haiti. 28 The list is reviewed every three years by the Committee for Development Policy (CDP), and is based on the following criteria: low income per capita; low levels of human assets; and high levels of economic and environmental vulnerability.

> What are the LDCs?



Drivers of divergence: the role of industry

- In 2000, the industrialization levels of Asia-Pacific and African LDCs were remarkably similar. Since then, the LDCs' share of manufacturing industries in GDP has doubled in Asia-Pacific compared to Africa.
- The difference in the level and speed of industrialization explains the SDGs progress gap between Asian and African LDCs.
- Some East and South Asian LDCs have made progress in developing vibrant manufacturing bases, especially in labour-intensive activities benefitting from globalization.
- Many African LDCs have yet to leverage their industrial potential. Low levels of human and physical capital, integration into low value-added segments of GVCs, historic weaknesses in infrastructures and high reliance on natural resources all act as major constraints to manufacturing growth in the region.
- Accelerating progress on the SDGs in African LDCs requires specific industrial policies to address market failures and coordinate the structural change pattern while stimulating international integration.
- The AfCFTA can grant African LDCs access to a larger market, which is crucial for stimulating demand in the manufacturing sector, bringing investments, and attracting more Foreign



SECTION 6. ASIA-PACIFIC: FROM SDGs ASSESSMENT TO POLICY SOLUTIONS



- The performance of the Asia-Pacific ²⁹ in achieving **industry** targets stands out compared to other developing regions, showcasing its rise as a powerhouse in global industrial production.
- The robust performance of Asia-Pacific in energy access and efficiency indicates a promising energy landscape for the region. Still, more efforts are needed to improve the adoption of clean energy.
- Over the past decade, the region has made substantial efforts in infrastructure enhancement, making it a focal point for potential investments and industrial growth.
- Despite the overall good performance in economic growth, Asian countries' growth rates have decelerated over the past decade, which suggests the need for strategic interventions to reignite growth.
- Asia-Pacific faces challenges in employment and innovation, but improvement over the past decade demonstrates the region's commitment to address these areas.



Justin Yifu Lin

"Economic development is a continuous process of technological innovation, industrial upgrading and the improvement of infrastructure and institution. Technological innovation and industrial upgrading in the Asia-Pacific region are constrained by numerous infrastructure and institutional bottlenecks. In a context of limited resources, it is essential that the governments of the region prioritize their interventions and focus on providing adequate infrastructure and institutions to those industries that already have latent comparative advantages. The final objective should be to transform these latent advantages into actual advantages. If the region can allow industrial policy to be implemented according to the above principle, it will be better positioned to achieve inclusive, sustainable and dynamic growth, making the realization of SDGs a reality."



Dean of Institute of New Structural Economics at Peking University and former World Bank Chief Economist and Senior Vice President

SDGs Assessment

- Innovation is comparatively better than in other regions, but still behind its strong industrial scores.
- The adoption and development of Industry 4.0 technologies can spur competitiveness [2.1] and diversification [2.2] and help to restore rapid economic growth.

Policy in action

- 2.1 India's Smart Advanced Manufacturing and Rapid Transformation Hub (SAMARTH) Udyog Bharat 4.0 aims to drive industrial digital transformation to improve competitiveness and innovation.
- 2.2 Jordan's National Digital Transformation Strategy emphasizes the need to integrate digital technologies into local production and develop the digital skills of young workers.

Opportunuity Areas

2.1 4IR Competitiveness **2.2** Digital solutions





Policy in action

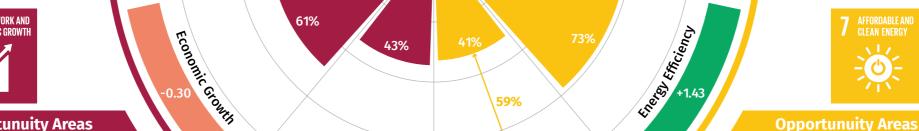
3.1 Bahrain's International Investment Park (BIIP) focuses on attracting FDIs to promote export-oriented indigenous companies.

4.1 Pakistan's Textiles and Apparel Policy (2020-2025) aims to provide employment opportunities to millions, especially the youth.

8 DECENT WORK AND ECONOMIC GROWTH

Opportunuity Areas

3.1 Relocating FDI attraction **4.1** Labour-intensive industries



Distance to SDGs targets: Asia-Pacific in 2021

+0.47

Innovation

Infrastructure

Energy Access

- Attracting FDI that is relocating [3.1] and making targeted interventions for labour-intensive industries [4.1] can support job creation for an

SDGs Assessment

Resource Efficiency

74%

- Employment in the Asia-Pacific region remains a significant area for enhancement.
- increasing population.

Employment +0.33 +1.05

Before COVID-19, Asia-In 2021, Asia-Pacific countries were, on Pacific countries were, average, 59% away on average, reducing from achieving the SDG the clean energy gap target on clean energy. **How to read** by 1.05 points per year. this graph?

1.2 Clean energy production

SDGs Assessment

- Strong existing capabilities position the region particularly well to develop new industrial clusters around electric mobility [1.1].
- Clean energy production [1.2] has shown rapid growth over the past decade and has a strong potential to expand further, especially in Western Asia.

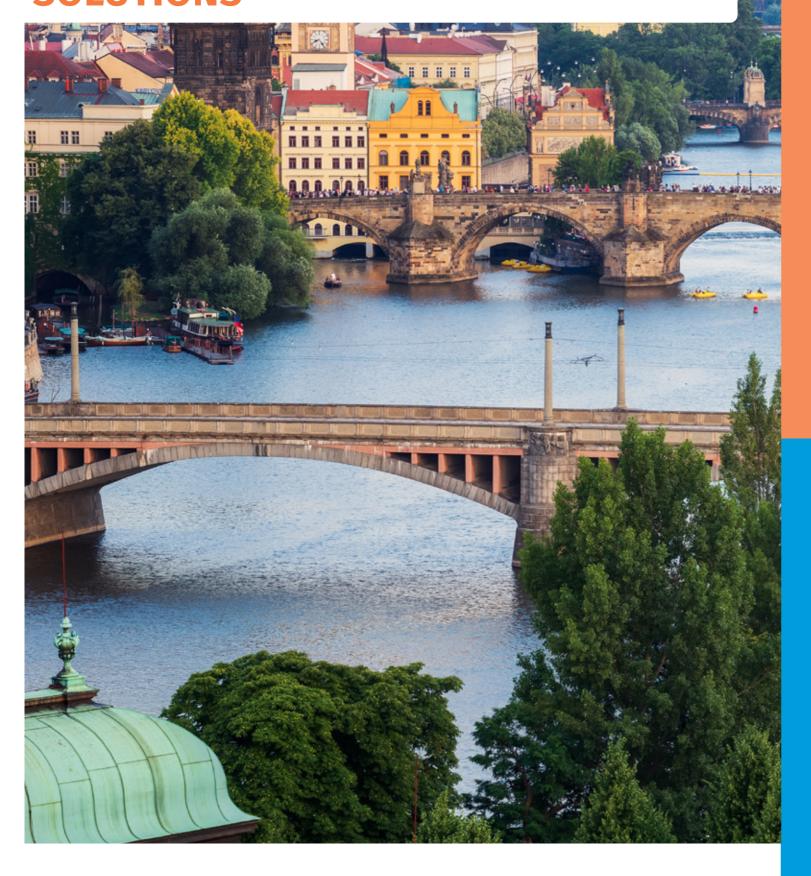
Policy in action

- 1.1 **China**'s New Energy Vehicle (NEV) Industrial Development Plan is supporting the establishment of a green, robust, and internationally competitive auto industry in China.
- 1.2 Saudi Arabia's NEOM Green Hydrogen Project (NGHC) aims to turn the country into a leading center for green hydrogen production.



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SECTION 7. EASTERN EUROPE: FROM SDGs ASSESSMENT TO POLICY SOLUTIONS



• Eastern Europe 30 shows good performance in industry targets compared to other regions. • Full **energy access** and significant progress ••• ••••• in **infrastructure** development set a solid •• •••••• foundation for future development. • The decline in **economic growth** over the past ••••••• decade is concerning and requires attention. ••••••• • The high performance in the **employment** dimension underscores the region's potential to capitalize on its human resources for further development. Eastern Europe's progress in **innovation** is slow. This represents an opportunity for •••••••• improvement, given its critical position in the region and the 00000 possibility of being a key driver of industrial development and economic growth.

Olga Algayerova

"Each country in Eastern Europe has its unique economic trajectory and challenges, so a wide variety of industrial policy measures is used across the region. It is suffering from global challenges, such as food, energy, climate or debt crises, exacerbated by the economic consequences of the armed conflict in Ukraine. The mid-term review of Agenda 2030 is clear: we are off track with SDGs. Sustainable economic development requires ongoing reforms, investments in human capital and focus on innovation and entrepreneurship. By focusing on sustainable industrialization, innovation, and inclusive economic growth, Eastern European countries will make substantial progress towards all 17 SDGs."





Advisor to the Ministry of Foreign and European Affairs of the Slovak Republic and Former Executive Secretary of the UN Economic **Commission for Europe**

Policy in action

SDGs Assessment

- Innovation scores are comparatively better than in other regions, but progress has almost been absent in the last decade.
- Targeted support to strengthen industrial innovation ecosystems around industry 4.0 technologies can prompt competitiveness [2.1] and diversification [2.2].

Resource Efficiency

Economic Growth

76%





- 2.1 Czechia's South Moravian S3 Strategy focuses on 4.0 technologies and innovation to ensure the workforce is equipped for future challenges.
- 2.2 Romania's ICT strategy aims at making the country a hub for digital services in Europe, capitalizing on digital solutions for advanced manufacturing.

Opportunuity Areas

2.1 4IR Competitiveness **2.2** Digital solutions





3.2 Slovakia's Research and Innovation Authority (VAIA) matching grants for EU funds aim at increasing participation in EU initiatives to spur sustainable

3.1 Serbia's technoparks on attracting innovative, high-tech foreign investments while stimulating domestic innovation and strengthening infrastructure.

Policy in action

innovation and industrialization.

- 8 DECENT WORK AND ECONOMIC GROWTH
- **Opportunuity Areas**

3.1 Relocating FDI attraction 3.2 Greater integration

SDGs Assessment

- Economic growth performance is comparatively better than in other regions but has significantly decelerated in the last decade.
- Attracting FDI that is relocating [3.1] and strengthening regional integration [3.2] can help to revert this trend.

the gy Efficiency 82% Employment +1.16

Distance to SDGs targets:

Eastern Europe in 2021

Innovation

28%

Infrastructure

Energy Access

In 2021, Eastern Europe countries were, on average, 57% away from achieving the SDG

Before COVID-19, Eastern Europe countries were, one average, reducing the clean energy gap by target on clean energy. **How to read** 0.12 points per year this graph?

Policy in action

- 1.2 Ukraine's 2017 Energy Strategy and Feed in Tariff (FITs) programme has significantly increased the share of renewables in the electricity generation mix.
- 1.2 Montenegro's strategy on renewable energy aims at making the country a regional exporter of clean energy.

SDGs Assessment

AFFORDABLE AND CLEAN ENERGY

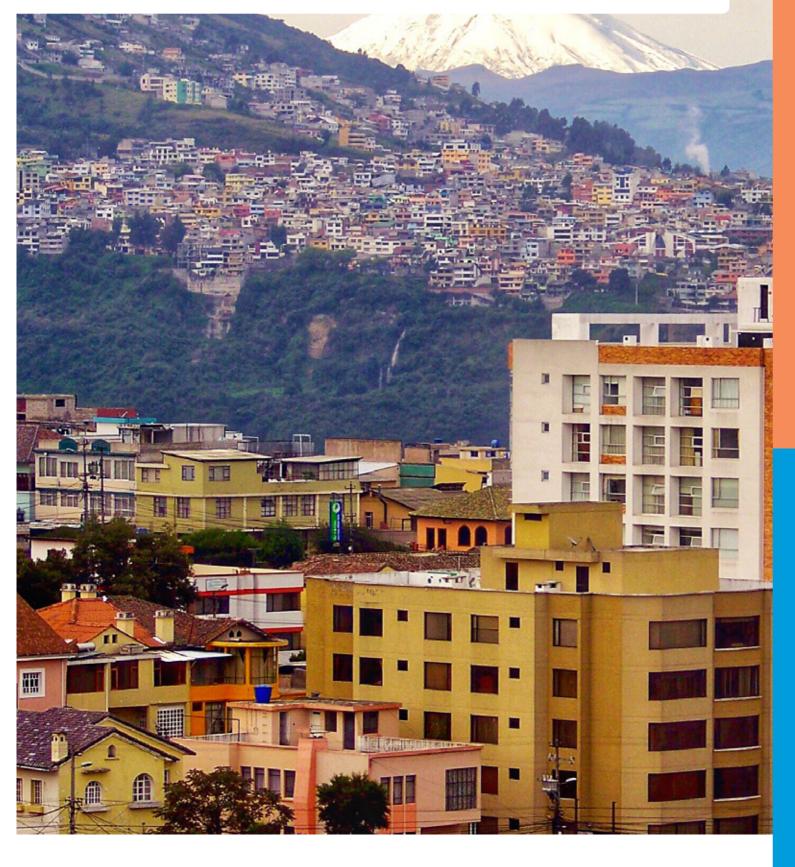
Opportunuity Areas

1.2 Clean energy production

- Eastern Europe is less than hallway towards target achievement in clean energy. It has been slowly moving towards its target in the past decade.
- Investments in renewable energy generation [1.2] can spur the region's industrial development.



SECTION 8. LATIN AMERICA AND THE CARIBBEAN: FROM SDGs ASSESSMENT TO POLICY SOLUTIONS



- The negative performance of Latin

 America and the Caribbean concerning industry targets calls for urgent actions to revert a process of premature deindustrialization while promoting the other SDGs.
- Important strides in clean energy deployment demonstrate a strong commitment to sustainable practices. The region's near-universal energy access is also commendable and efforts should continue to maintain this achievement.
- The stagnant progress in terms of employment over the past decade suggests the need for policies that promote job creation and address potential structural bottlenecks.
- The sharp decline in **economic growth** underscores the need for transformative policies and strategies to revitalize the region's economy.
- The improvement in infrastructure highlights successful policy interventions and investments, indicating a focus on foundational growth drivers.



Rebeca Grynspan

"There is no development without a diversified economy and without industry – in the ample sense of the word. In this new era of globalization, with industrial policy and open regionalisms on the rise, Latin America and the Caribbean has a great opportunity to diversify its economic structure and achieve the SDGs. However, there is great uncertainty in this new era, as rapid changes are putting in danger the rules-based international trade frameworks on which small and medium-sized countries depend. Deepening the intra-regional integration of Latin America and the Caribbean is undoubtedly an important pillar required to navigate this uncertainty, and a long overdue project in the region."

66

Secretary-General of United Nations Conference on Trade and Development (UNCTAD)

SDGs Assessment

- LAC's low performance in innovation indicates a critical area for improvement as this can hamper technology adoption and economic growth.
- Tapping into 4.0 technologies can accelerate innovation and help industrial development through increased competitiveness [2.1].



Policy in action

- 2.1 Dominican Republic's INFOTEP initiative emphasizes vocational training for the green and digital economy.
- 2.1 Peru's Digital Route Strategy aims at enhancing digital competencies of SMEs, promoting Industry 4.0 adoption and skill development.

Opportunuity Areas

2.1 4IR Competitiveness





Energy Access

Distance to SDGs targets: Latin America

and the Caribbean (LAC) in 2021

+0.13



Resource Efficiency

77%

Employment

In 2021, LAC countries

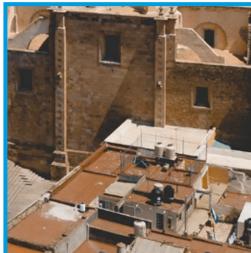
were, on average, 47%

away from achieving

the SDG target on

clean energy.





- 3.1 Mexico's Inter-Oceanic Corridor of the Isthmus of Tehuantepec project aims at cementing its position in global trade and drawing significant FDI.
- 4.2 Brazil's Araucária Foundation research support in alternative proteins seeks to position the Paraná State as a leading player in cultivated meat products for the food industry of the future.

Policy in action

- - **Opportunuity Areas**

3.1 Relocating FDI attraction **4.2** Health and food industries

8 DECENT WORK AND ECONOMIC GROWTH

SDGs Assessment

- Economic growth performance has been very weak in LAC, underscoring the urgent need for targeted actions.
- Attracting FDI that is relocating [3.1] and promoting the development of industries with high expected demand [4.2], notably food processing, can help reigniting economic growth in the region.

inergy Efficiency Economic Growth **Opportunuity Areas**

Before COVID-19, LAC

average, reducing the

gap in clean energy by

0.45 points per year.

countries were, on

How to read

this graph?

47%

Policy in action

- 1.1 Argentina's UniLiB project harnesses the nation's vast lithium reserves for battery production.
- 1.2 **Chile**'s National Green Hydrogen Strategy aims at boosting renewablesbased hydrogen production.

SDGs Assessment

1.2 Clean energy production

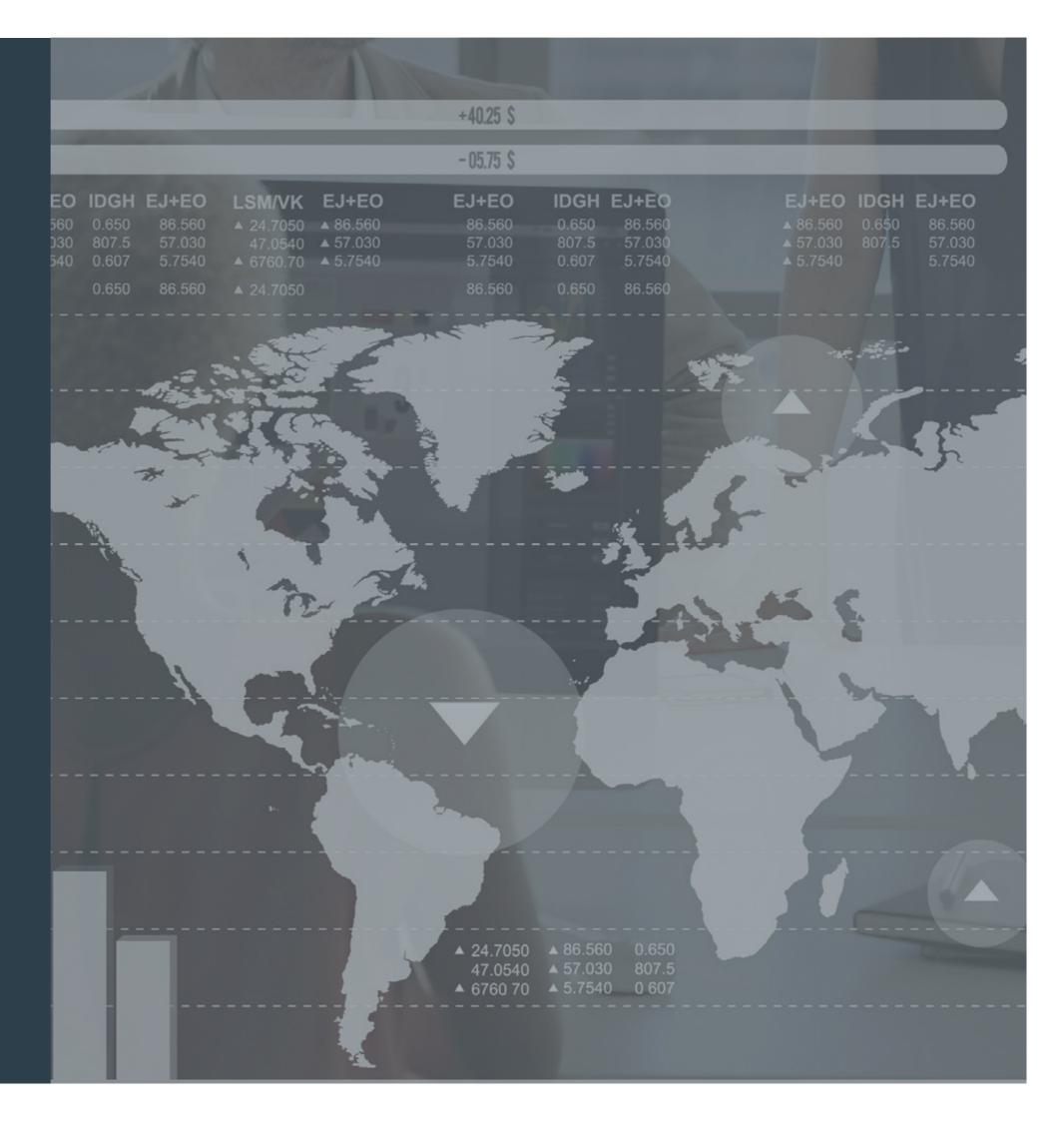
- LAC has made significant progress in adopting clean energy sources, but there is still a large scope for advancement.
- Supply chain development [1.1] around the rare minerals needed for the energy transition and the production of clean energy [1.2] open important opportunities for LAC's industrialization.



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²³ As reported in the <u>SDG Global Database</u>, United Nations Statistics Division (UNSD). Accessed 15 October 2023.

²⁴ The analysis of this section focuses on the "developing world", defined as all economies not classified by UNIDO as high-income industrial economies. The latest classification is available in UNIDO, 2022. International Yearbook of Industrial Statistics, Vienna: UNIDO.

⁵ The priority areas, challenges and policy instruments presented in the figure are based on the background notes produced by Antonio Andreoni, Mateus Labrunie, David Leal-Ayala, Carlos López-Gómez, Jennifer Castañeda-Navarrete, Michele Palladino, Zongshuai Fan and Roman Stollinger.

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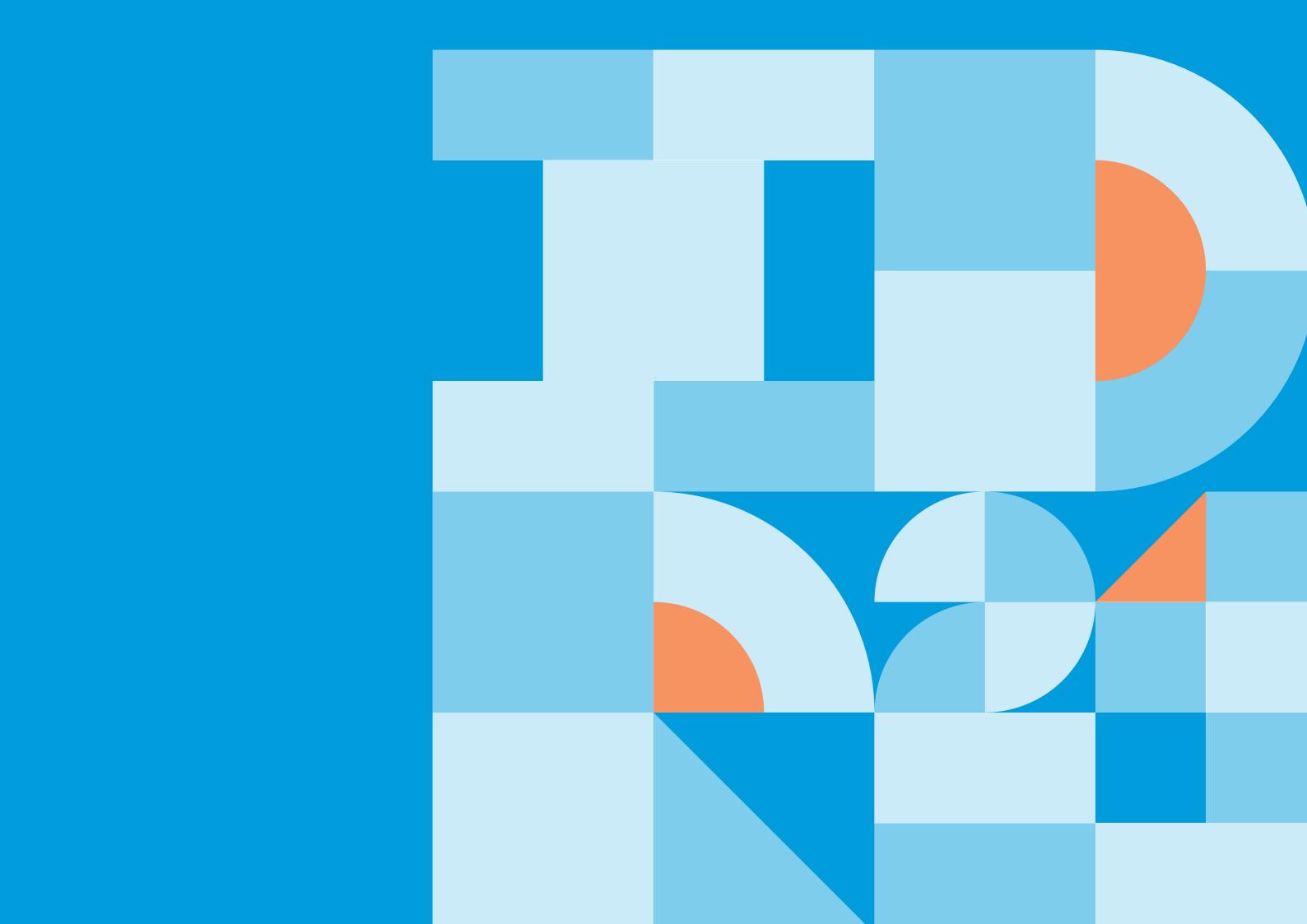
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The analysis of this section focuses on all Latin American and Caribbean States listed in the corresponding UN regional group of the UN General Assembly.





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