



Why diversification matters?

Workshop on Promoting Economic Diversification in the CAREC Region



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Introduction to UNIDO



UNIDO is the specialized agency of the United Nations that promotes **inclusive and sustainable industrial development (ISID)** in developing countries and countries with economies in transition.



SUSTAINABLE DEVELOPMENT GOAL 9 Build resilient infrastructure, **promote inclusive and sustainable industrialization** and foster innovation

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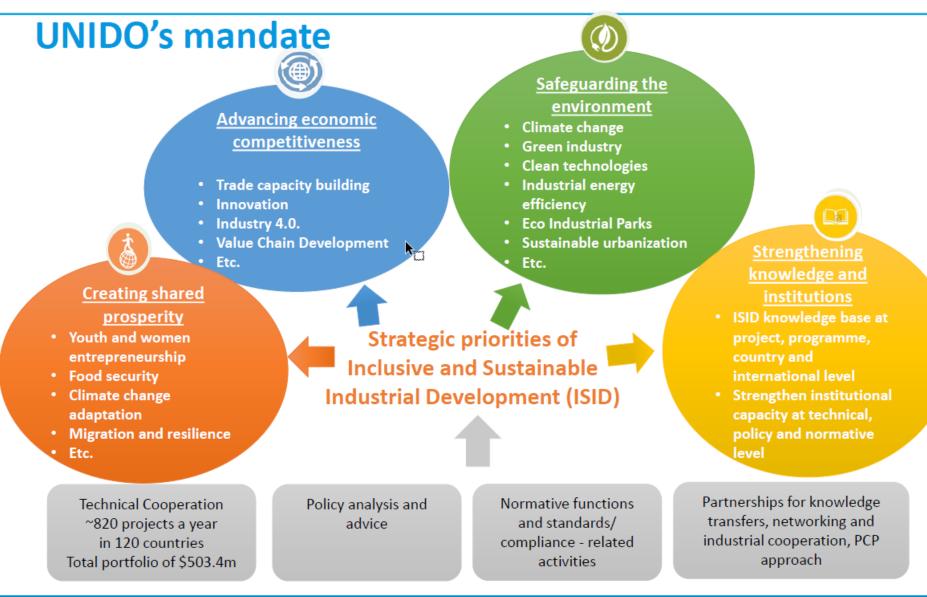
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The UNIDO Department of **Policy, Research and Statistics**







Mission and Structure

Mission

- Provide strategic policy advice based on sectoral analyses of industrial development and processes of structural change;
- Develop UNIDO's research programme, advocates sustainable industrialization;
- Strengthen the capacity of Member States in related areas.

Structure

- Division of Statistics
- Division of Research and Policy Advice (incl. capacity development)







UNIDO Statistics – the core of research

- Collecting and maintaining international industrial statistics based on international standard of economic activities (ISIC)
- Monitoring SDG on industrialization progress (SDG 9)
- Basis for analysis of patterns of structural transformation
 - understanding how the structure of the economy (sectoral composition, employment, value added ...) changes as income grows
 - allows to anticipate such transformations for different categories of countries and prepare to them in the best possible way

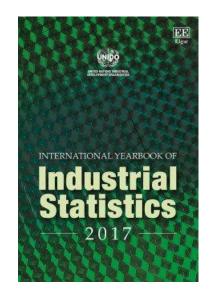






Support provided for statistical capacities

- Capacity building of data production and data analysis
 - Latest international guideline and standard update
 - Introduction of the best practice of industrial statistics
 - Business register maintenance and updates
 - Census and Survey techniques
 - ✓ Database maintenance
 - ✓ Data analysis skills
- Country benchmarking
 - Competitive Industrial Performance Index (and ranking)



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Research

Industrial Development Report

- Flagship publication (biannual) to address most pressing issues of ISID
- Combining UNIDO's own research and inputs from leading experts
- Programme for Country Partnerships (PCP) diagnostics
 - Analytical base for the development of UNIDO's PCPs
 - Assessing constraints and opportunities for ISID
- Research projects and partnership
 - Joint research with universities and research institutes to expand the scope and scale of UNIDO's research and advocacy
- Staff research papers
 - Knowledge contributions to the areas of structural change, sustainability, global value chains, and FDI





Assessment of industrial development performance

- The assessment of the performance of the national/subnational manufacturing sector based
 - ✓ Quantitative evidence on the competitiveness of the manufacturing sector
 - Of key drivers of industrial performance (technology, finance, skills, investment, infrastructure and regulation)
 - ✓ Of the diversification of the manufacturing sector and its risk exposure in terms of markets and output concentration
- Review and assessment of complementary strategies and policies
 - Appreciation of available policy space
 - Integration into broader development strategies







Global Manufacturing and Industrial Summit (GMIS)

- UNIDO and UAE
- Global forum on the 4th Industrial Revolution (4IR)
- How to make 4IR work for the 2030 Agenda; For example
- Opportunities and challenges
- Winners and losers
- Different actors of society
- Annual Summit (2017, 2019, 2020, ...)
- Roadshow building up to the Summit







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Support to design of industrialization policies

- Linking policy to strategic objectives and targets
- Assessment of industrial policies/laws/regulations/programmes on the basis of the following categorization:
 - Policies aimed at correcting market failures in product, labor, capital, land and technology markets (horizontal)
 - Policies aimed at promoting certain industrial activities (vertical)
 - Policies aimed at addressing governance and coordination issues
- Tasks
 - Identification of individual policies and policy packages
 - Assessment of their effectiveness and costs
 - Identification of policy gaps and accordingly modify existing policies and/or introduce new ones
- Policy learning



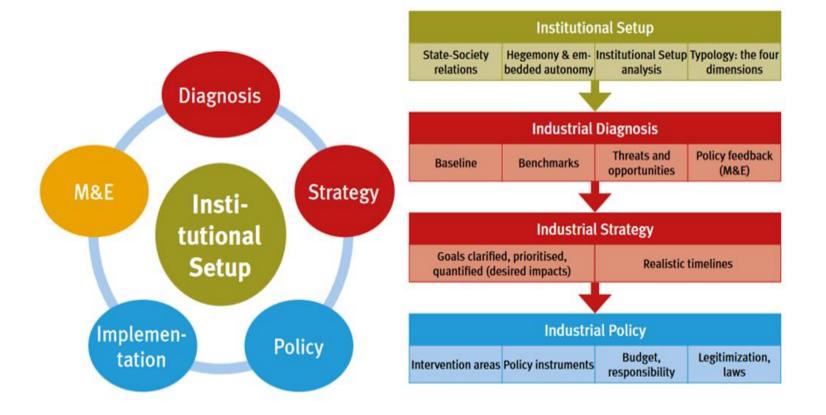


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The Industrial Policy Cycle



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Capacity-development activities

Deliver training courses on the following topics:

- Industrial statistics analysis and diagnostics
- Industrial policy strategy formulation
- Industrial policy instruments
- Green Industry
- Climate change
- Sustainable Energy Solutions
- Science, Technology and innovation (STI)
- Industry 4.0
- Standards and National Quality Infrastructure
- Industrial Parks
- Global and national value chains
- Foreign Direct Investment (FDI) and Trade
- Economic diversification
- ...

Targeting different audiences:

• Global Executive Programme (high-level policymakers)

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- Professional Programme (mid-level policymakers & professionals)
- Future Leaders Programme (younger stakeholders from the public and private sector, civil society and academia)





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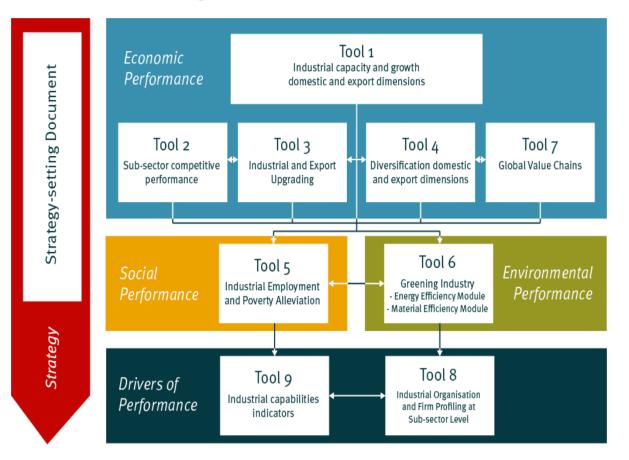


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Different audiences / different formats

- Global Executive Programme (high-level policymakers)
- Professional Programme (mid-level policymakers & professionals)
- Future Leaders Programme (younger stakeholders from the public and private sector, civil society and academia)
- E-learning









Why diversification matters?







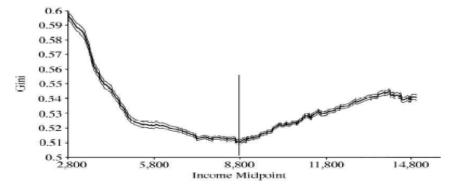


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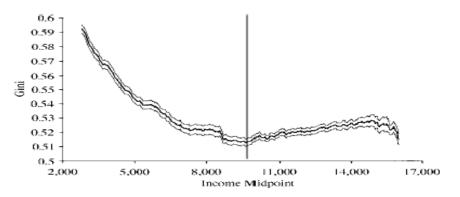
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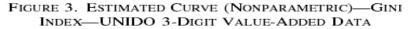
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Diversification matters, but not equally for all







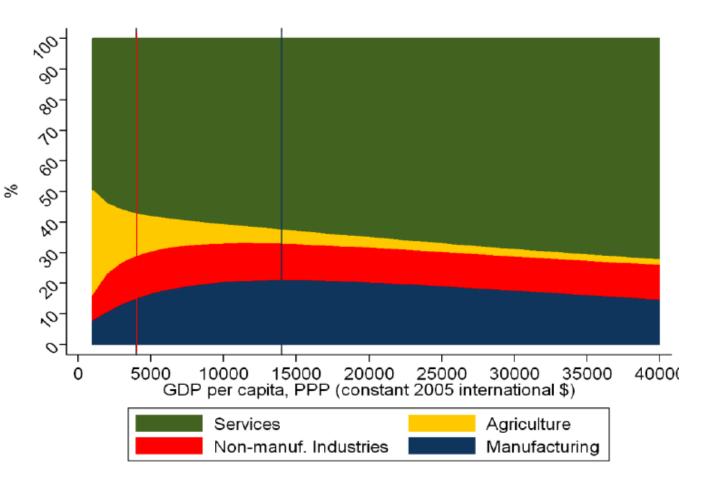






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The structural change process



Follow the pattern of other countries to anticipate changes and be prepared to structural transformation

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Economic diversification versus specialization

- Economy of low-income countries typically specialized in a narrow range of products
- As GDP per capita rises, the structure of the production of goods diversifies new products and diversification within existing products
- At higher levels of GDP per capita, this diversification trend slows down and eventually veers towards re-specialization.
- Different strategies at different stages of the economic growth process.
 - Low-income countries: growth through acquisition of skills and knowledge necessary to diversify rather than by focusing on "what they do best",
 - ➤ High-income countries seem to better benefit from specialization.
- Avoid being specialized in the wrong sector.
- Engage where returns to scale are increasing (e.g. in manufacturing)

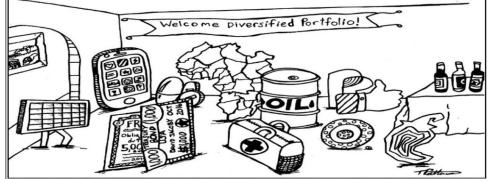






Diversification, what does it mean?

- Starting point: economic activities are concentrated in a few sectors.
- Making a country's domestic productive (industrial) structure more diverse and broad-based and less dependent on only a few activities
- Diversification within existing sectors or by introducing new sectors
 - Domestic) product diversification versus (export) market diversification:
- Diversification into more products or more sophisticated (higher value) products





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Advantages of diversification

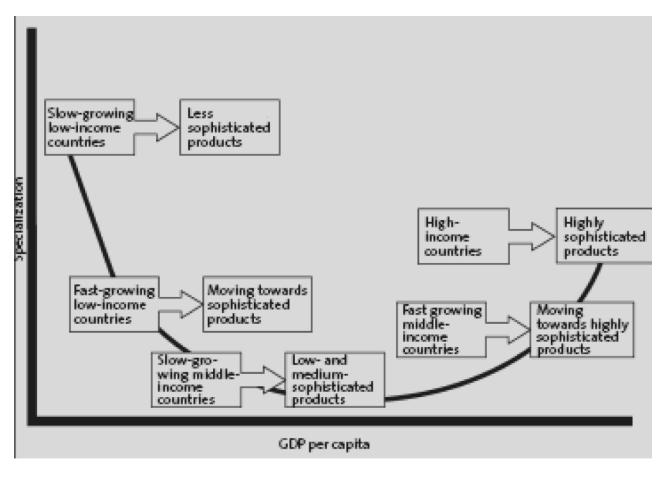
- Spreads risks across a larger variety of activities and assets.
- Helps to reduce vulnerability to shocks, including natural disasters and external shocks (e.g. volatility in world market prices).
- Reduces dependency on certain income-generating activities
 - E.g., heavy dependence on exports of primary commodities is problematic
- Stabilizes export earnings / overall economic output is less volatile
- Diversified economy offers more potential for skills learning and innovation
- Better alignment to domestic consumption patterns that typically change as income grows







Specialization and sophistication



UNIDO, 2009







Economic policies of diversification

- Diversification is not a universally applicable strategy desirable for all countries at all times.
- Focus on comparative advantages and competitiveness is not enough
- Diversify an economy through industrial policy till a level of GDP per capita where market forces increases and inefficient sectors shrink?
- Significant technological upgrading and deepening are required to continue growth after a certain level of diversification.
- Measures reach from sectoral protection to incentives for knowledge acquisition and investment
- Justification of public engagement:
 - Market failure
 - Coordination failure
 - Investment failure









Diversification Profile of Guyana		
Sectors	Share of Economy (%)	Diversification Indicator
Agriculture	20	0.04
Mining	10.9	0.01
Manufacturing	7	-
Services	63	0.42
Index		0.47
Source: Prepared by writer from Bank of Guyana Report		

- Three (four) sector theory = sector shares
- Gini coefficient: Describes deviations from uniform distributions

How to measure diversification

- 1 = one sector or product line accounts for the total value of production or exports, whereas all other sectors (or product lines) have zero values
- Deviation from the global average distribution = relative diversification measures
 - Market diversification index (MDI)

= extent to which a country depends on particular markets for its manufactured exports relative to how important those markets are in world manufactured imports

Manufactured product diversification index (MPDI)

= shows extent to which a country depends on a particular basket of products relative to world exports (i.e. it compares a country's export structure with the world's export structure)

- Share of top-3 sub-sectors in total Manufacturing Value Added (MVA)
- Hirschman-Herfindahl Index (HHI)
- Data : Exports (COMTRADE) and MVA (UNIDO INDSTAT)

you can easily download some diversification indices data <u>https://wits.worldbank.org/</u>









Thank you !

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INCLUSIVE AND SUSTAINABLE INDUSTRIAL DEVELOPMENT