

Introductory Lectures for ' Engagement

2030 Development Agenda and Sustainable Development Goals (Foundational Level)









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SDG 1-2-3 Series Host





Frank Van Rompaey is Head of the UNIDO Liaison Office in Geneva. In this capacity he engages in policy advocacy for Inclusive and Sustainable Industrialization - in the context of trade, investment and employment discussions in Geneva - and develops partnerships with Geneva-based institutions in support of countries' Industrialization efforts.

He has been with UNIDO for close to 30 years- working in various capacities including in research and policy advisory functions. His main area of interest and expertise lies in industrial policy and in the strategies and policies for environmentally sustainable economic transformation. He has published on the topic of environment and industry in developing countries.

As a UNIDO representative in several African countries, Frank has worked on technical cooperation programmes promoting sustainable industrial development. Prior to joining UNIDO, he worked in the private sector. Frank holds a Master's degree in



UNIDO: A Specialized Agency

UNIDO is an autonomous organization, linked to the United Nations through a relationship agreement. UNIDO has its -

- Own Member States (170)
- Own policy-making organs (General Conference, Industrial Development Board, Programme and Budget Committee)
- Own executive head (Director General)
- Own regular budget from assessed contributions and voluntary contributions for implementation
- Own mandate and strategic framework







UNIDO

was established in 1966 and became a specialized agency of the United Nations in 1985





Gerd Müller

(Germany) was appointed as the Director General of UNIDO at the nineteenth session of the Ceneral Conference (December 2021)





682



The value of technical cooperation delivery in set barrows sset EVS/ BENJAMORY OF

\$179.4 million



staff members

As well an s, figs consultants on ISA contracts from sys countries (as at 32 December 2023)





net voluntary contributions in 2022 for project implementation, with a total portfolio of projects in hand of \$625.3 million

€85.3 million

regular and operational budget

(expenditure of UNIOO in 2021)





Projects implemented in 121 countries

in 2021

Source: Annual Report 2021, UNIDO.















UNIDO and the 2030 Agenda (3)



Contribution of the UNIDO portfolio to the SDGs (2021):

Source: UNIDO Annual Report 2021, pp. 77.





2030 Development Agenda and Sustainable Development Goals (SDGs 1-2-3)

Infrastructure, Industry & Innovation

Frank Van Rompaey
United Nations Industrial Development
Organization











Lecture Overview



- Brief Description of SDG 9: Summary of targets & indicators and links to other SDGs
- Current State of implementation, progresses, and an example of good practice where youth are active
- Key issues & challenges related to the achievement of this Goal
- Suggested action areas for the youth to engage and contribute









Question 1a:

What is SDG 9 and why it matters?











Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

Why?

- Infrastructure provides the basic physical systems and structures essential to the operation of a society or enterprise.
- Industrialization (i.e. the development of manufacturing industries on a wide scale) drives economic growth, creates job opportunities and thereby reduces income poverty.
- Innovation advances the technological capabilities of industrial sectors and prompts the development of new skills.

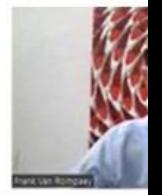








Why Industrialization - is it not something of the past?



- not a single country in the world has reached a high stage of economic and social development without having developed an advanced industrial sector. Manufacturing matters especially for the growth of developing countries;
- however, at all levels of development, manufacturing industry can be an important driver in fighting poverty, ensuring food security and preventing social polarization;
- one consequence of the past and current patterns of industrialization is their considerable environmental footprint. Manufacturing is a main source (30%) of global carbon emissions; urgent need for decoupling of economic growth from environmental degradation.









Linkages to other SDGs

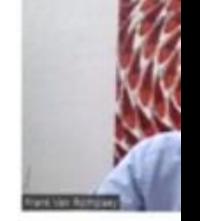
SDG-9 is closely linked to other SDGs - with many other Goals and Targets - including industry-related targets associated with job creation (SDG 8), ending poverty and sustainable livelihoods (SDG 1, 15), improved health (SDG 3), technology and skills development (SDG 4), gender equality (SDG 5), food security (SDG 2), green technologies and climate change (SDG 13).

Some examples of linkages between SDG 9 and other SDGs are elaborated below.

- Linkages with SDG-13 (green technologies and climate change): improving the environmental performance, resource productivity and safety of existing industries, as well as to supporting the creation of new industries providing environmental goods and services.
- Linkages with SDG-2 (food security), 5 (gender equality), 8 (sustained, inclusive and sustainable economic growth and decent work):
 improving their international competitiveness, particularly through a focus on SME value chain, development, acquiring the necessary technologies and quality infrastructure, enhancing productivity and export potential, and developing entrepreneurial human resources, particularly among women and young people







Question 1b:

What does it entail in terms of targets & Indicators?



Targets & Indicators

TARGET

INCREASE ACCESS TO FINANCIAL SERVICES AND MARKETS

9-3

9.B



DEVELOP SUSTAINABLE, RESILIENT AND INCLUSIVE INFRASTRUCTURES





9-A











12-16 / 20-20

FACILITATE SUSTAINABLE INFRASTRUCTURE DEVELOPMENT FOR

COUNTRIES



Industry-related indicators



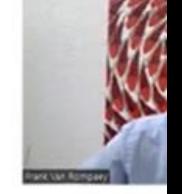
SDG-9 industry-related indicators cover all three dimensions of sustainable development:

- Advancing economic competitiveness
 - SDG Indicator 9.2.1: Manufacturing value added as a proportion of GDP and per capita →
 - SDG Indicator 9.b.1: Proportion of medium and high-tech industry value added in total value added
- Creating shared prosperity
 - SDG Indicator 9.2.2: Manufacturing employment as a proportion of total employment
 - SDG Indicator 9.3.1: Proportion of small-scale industries in total industry value added
 - SDG Indicator 9.3.2: Proportion of small-scale industries with a loan or line of credit
- Safeguarding the environment
 - SDG Indicator 9.4.2: CO2 emissions per unit of value added









Question 2:

How much progress regarding SDG 9 have we made since the launching of the 2030 Agenda for Sustainable Development in 2016?







Assessment made by UNSDSN (2021)







BUILD RESILIENT INFRASTRUCTURE, PROMOTE INCLUSIVE AND SUSTAINABLE INDUSTRIALIZATION AND FOSTER INNOVATION

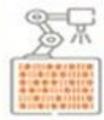
GLOBAL MANUFACTURING PRODUCTION PLUMMETED



AS A RESULT OF THE COVID-19 CRISIS







MANUFACTURE OF MEDIUM- AND HIGH-TECH PRODUCT FUELLED ECONOMIC RECOVERY

IN EROWTH COMPARED TO SAME PERIOD IN 2018 14TM GUARTEN 2020)

IN LATE 2020

ENHANCING URAL ROAD CONNECTIVITY HELPS REDUCE POVERTY



HER 520 MILLION RURAL DWELLERS LACK GOOD ACCESS TO ROADS # 25 COUNTRIES | | | |

INCREASED INVESTMENT IN R&D IS ESSENTIAL TO FINDING SOLUTIONS FOR CRISES SUCH AS COVID-19

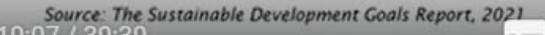
 \$2.2 TRILLION GLOBAL INVESTMENTS IN SECTION





PER MILLION

THE SUSTAINABLE DEVELOPMENT BOALS REPORT 2021-UNSTATS ON DRD/SDGS/REPORT/2021/









Are we on track to meet the SDG-9 industry-related targets by 2030?

 Industrialized countries continue to dominate global manufacturing industry, but their relative share has gradually declined over the past decade

- Progress among LDCs remains very diverse; growth pace of manufacturing in LDCs (as a group) is too slow to achieve the target by 2030.
- The rate of CO2 emissions is decreasing globally, including in China and other developing countries.



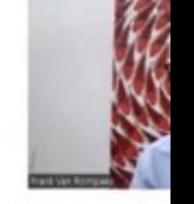


Question 3:

What are the key challenges in implementing this particular SDG?

Key challenges

Repercussions of the Covid-19 pandemic.



- Changes in established trade arrangements, bilateral tariffs and tensions between leading economies adversely affected global manufacturing production, causing a steady decline in growth after 2017.
- Small-scale industrial enterprises, crucial for driving industrial development in developing countries, need better access to financial services for everyday business activities.
- Environmental impact and sustainability.
- > SDG 9. one of the most underfunded global goals





Question 4:

Is there a good practice example in implementing this SDG goal? Can you give an example where young people have been active in contributing to this SDG Goal?



A good practice example in implementing this SDG goal

The Programme for Country Partnershi (PCP) model



Government ownership

- High-level political commitment; inter-ministerial national coordination body
- Leadership in partner and resource mobilization; involvement of the Ministry of Finance
- National resource allocations to PCP programming and implementation

Multi-stakeholder partnership

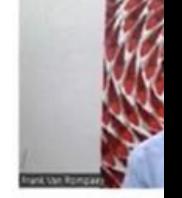
- Involvement of different partners from the onset of programming; creation of synergies
- Linking ISID efforts of national government, UN entities development partners, financial institutions, business sector, academia, civil society, etc.

Facilitation of public and private investment

- Coordination of development assistance, public finance, and business sector investment
- Technical interventions are designed to support the government in mobilizing funding, with a focus on prioritized large-scale industrial projects.



Youth Employment and Entrepreneurship



Job Seekers? Job Creators!

Young people can have a significant impact on developing economies by launching their own activities. By attending technical trainings, students can develop an entrepreneurial mindset to start and run their successful businesses; they can grasp innovation, introduce new competition in the labor market and therefore contribute to economic productivity of the local community.

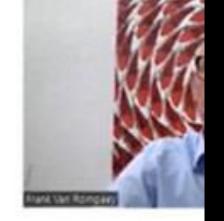
Learning and knowledge development facility (LKDF)

Entrepreneurship and enterprise development programmes









Question 5:

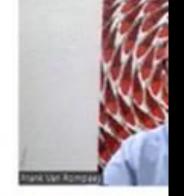
Which area(s) do you suggest for young people to engage or participate in order to achieve this SDG Goal?

Recommendations

- Youth activism: to raise awareness, incite a and stimulate change for a green economic transition that leaves no one behind.
- Deploy ICT technology for public interest by generating data as basis for 1) monitoring & review SDG progress, 2) for future entrepreneurial initiatives, and 3) for collective action, such as reducing carbon footprints.
- Actively develop STEAM-related competencies for participating in the future work/jobs and generating science & nature based solutions to current challenges.



Recommendations



Target 9.5: Enhance research and upgrade industrial technologies

SDG INDICATOR 9.5.1 Research and Development (R&D) spending

SDG INDICATOR 9.5.2 Researchers per million inhabitants

Goal: Enhance scientific research, upgrade the technological capabilities of industrial sectors in all countries, in particular developing countries, including, by 2030, substantially increasing the number of research and development workers per 1 million



people.





