



TALScoutsTM
GUIDING YOUTH TO SERVE

M A S T E R C L A S S

9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



Industry

Innovation and infrastructure





9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



INDUSTRIALIZATION — IN LDCs — **IS TOO SLOW**

TO MEET THE 2030 AGENDA TARGET

MANUFACTURING VALUE
ADDED PER CAPITA



\$114
LDCs



\$4,938
EUROPE AND
NORTHERN
AMERICA



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



The **UN** explains: *Investments in infrastructure – transport, irrigation, energy and information and communication technology – are crucial to achieving sustainable development and empowering communities in many countries. It has long been recognized that growth in productivity and incomes, and improvements in health and education outcomes require investment in infrastructure.*

Inclusive and sustainable industrialization, together with **innovation and infrastructure**, can unleash dynamic and competitive economic forces that generate employment and income. They play a key role in introducing and promoting new technologies, facilitating international trade and enabling the efficient use of resources.





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

BEFORE COVID-19

MANUFACTURING GROWTH WAS DECLINING



COVID-19 IMPLICATIONS

THE AVIATION INDUSTRY HAS SUFFERED THE **STEEPEST DECLINE** IN HISTORY



AIR PASSENGER NUMBERS **FELL BY 51%**
FROM JANUARY TO MAY 2020
(COMPARED TO THE SAME PERIOD IN 2019)

FINANCING FOR SMALL-SCALE INDUSTRIES IS NEEDED FOR THEIR SURVIVAL THROUGH THE CRISIS



INVESTMENT IN R&D IS GROWING BUT NEEDS TO ACCELERATE



\$1.4 TRILLION
(2010)
\$2.2 TRILLION
(2017)

FEWER THAN 1 IN 5 PEOPLE
USE THE INTERNET IN LDCs (2019)



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

GLOBAL MANUFACTURING PRODUCTION PLUMMETED

AS A RESULT OF THE COVID-19 CRISIS



2020 WAS CATASTROPHIC FOR AIR TRAVEL DEMAND



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

\$2.2 TRILLION
GLOBAL INVESTMENTS
IN R&D (2018)



1,235 RESEARCHERS
PER MILLION
INHABITANTS (2018)

MANUFACTURE OF MEDIUM- AND HIGH-TECH PRODUCTS FUELLED ECONOMIC RECOVERY IN LATE 2020

4% GROWTH COMPARED TO SAME PERIOD IN 2019
(4TH QUARTER 2020)

ENHANCING RURAL ROAD CONNECTIVITY HELPS REDUCE POVERTY



ALMOST 300 MILLION
OUT OF 520 MILLION RURAL DWELLERS
LACK GOOD ACCESS TO ROADS
IN **25 COUNTRIES** (2010-2019)



FACTS AND FIGURES :



- In 2018, **96 percent of the world's population** lived within reach of a mobile-cellular signal, and 90 percent of people could access the Internet through a third generation (3G) or higher-quality network.
- **16 percent of the global population** does not have access to mobile broadband networks.
- The global share of manufacturing value added in GDP **increased from 15.2per cent in 2005 to 16.3percent in 2017**, driven by the fast growth of manufacturing in Asia.
- **Least developed countries** have immense potential for industrialization in food and beverages (agro-industry), and textiles and garments, with good prospects for sustained employment generation and higher productivity
- In 2019, the amount of new renewable power capacity added (excluding large hydro) **was the highest ever**, at 184 gigawatts, 20GW more than in 2018. This included 118GW of new solar systems, and 61GW of wind turbines.
- Capacity investment in solar slipped 3 percent to \$131.1 billion in 2019, while that in wind climbed 6percent to \$138.2 billion – **the first time that wind has outweighed solar** in terms of dollars committed since 2010.
- Developing countries **continued to outpace developed economies in renewables investment**. In 2019, they committed \$152.2 billion, compared to \$130 billion for developed countries.



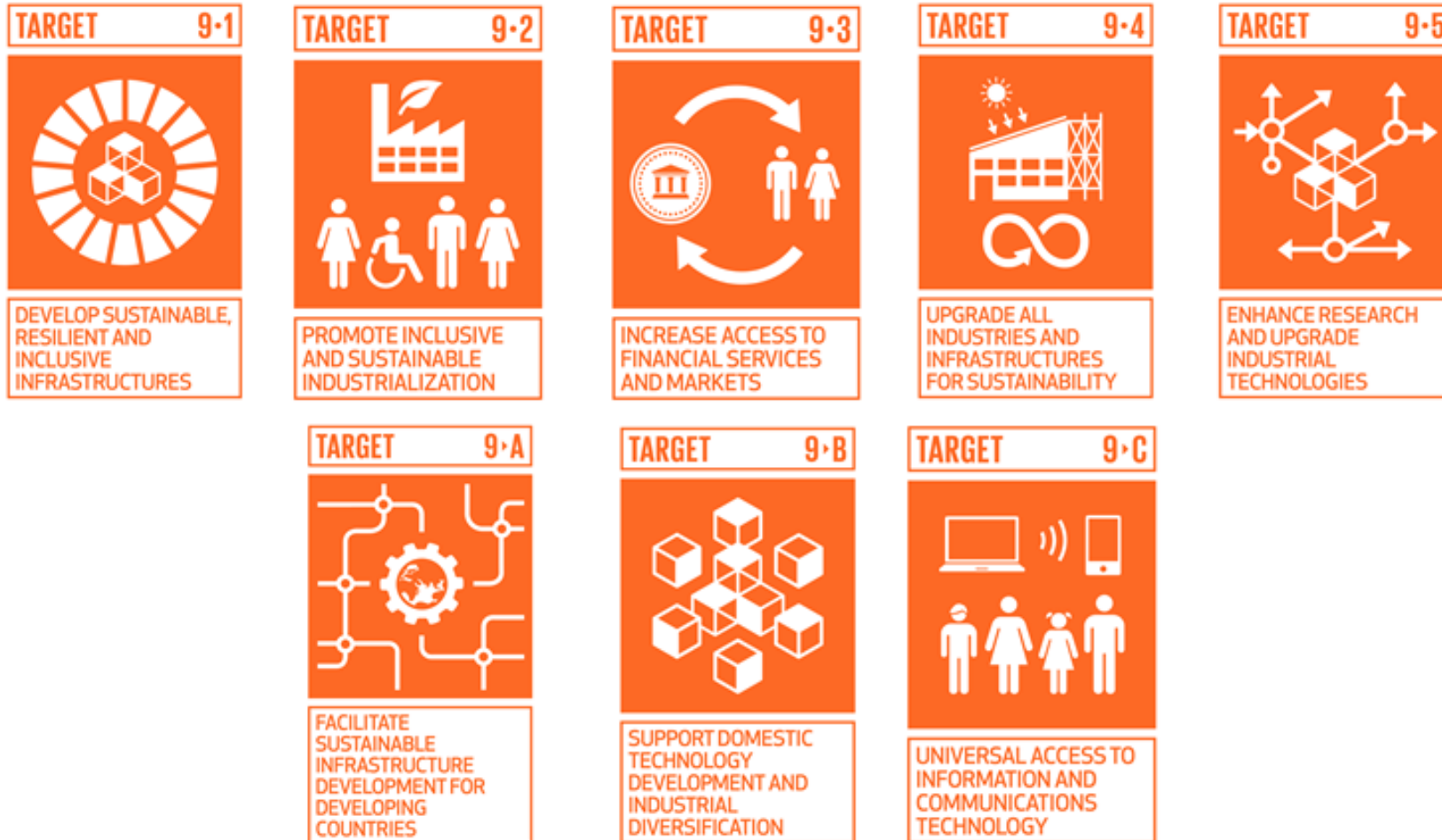


Figure 9.2. Key targets for SDG 9



9.1 Develop quality, reliable, sustainable and resilient infrastructure, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all

9.2 Promote inclusive and sustainable industrialization and, by 2030, significantly raise industry's share of employment and gross domestic product, in line with national circumstances, and double its share in least developed countries

9.3 Increase the access of small-scale industrial and other enterprises, in particular in developing countries, to financial services, including affordable credit, and their integration into value chains and markets

9.4 By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities



9.5 Enhance scientific research, upgrade the technological capabilities of industrial sectors in all countries, in particular developing countries, including, by 2030, encouraging innovation and substantially increasing the number of research and development workers per 1 million people and public and private research and development spending

9.A Facilitate sustainable and resilient infrastructure development in developing countries through enhanced financial, technological and technical support to African countries, least developed countries, landlocked developing countries and small island developing States 18

9.B Support domestic technology development, research and innovation in developing countries, including by ensuring a conducive policy environment for, inter alia, industrial diversification and value addition to commodities

9.C Significantly increase access to information and communications technology and strive to provide universal and affordable access to the Internet in least developed countries by 2020



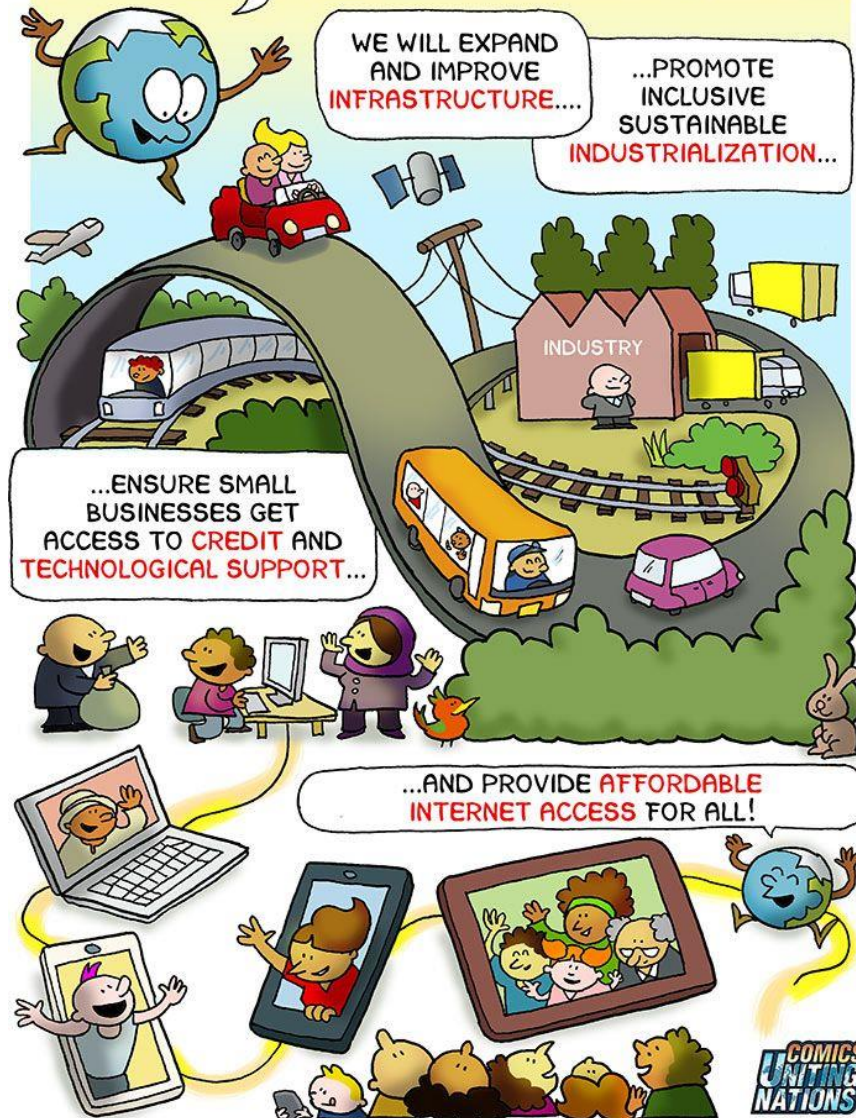


GOAL 9: INDUSTRY, INNOVATION AND INFRASTRUCTURE

BY: MARGREET DE HEER



WE ALL NEED TO BE **CONNECTED** SO WE CAN WORK TOGETHER TOWARDS INNOVATION!





How do we achieve the
#GlobalGoals by 2030?

-  Mobilize everyone, everywhere
-  Demand urgency and ambition
-  Design new innovations and solutions



SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD





Youth Philanthropy and Social Entrepreneurship Program

Empowering Young Leaders to Make Social Impact



Volunteering

+



Philanthropy

+



Entrepreneurship

=



Social Impact

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