



# Industry Innovation and Infrastructure



# **9** INDUSTRY, INNOVATION AND INFRASTRUCTURE

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

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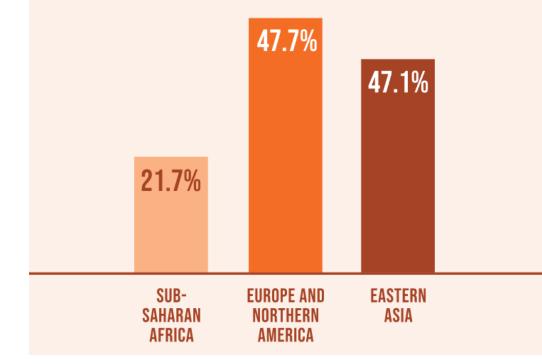
### MEDIUM-HIGH AND HIGH-TECHNOLOGY

INDUSTRIES EXPERIENCED ====

## STRONG GROWTH IN 2022

#### **BUT WITH REGIONAL VARIATION**

#### **..... SHARE IN TOTAL MANUFACTURING .....**

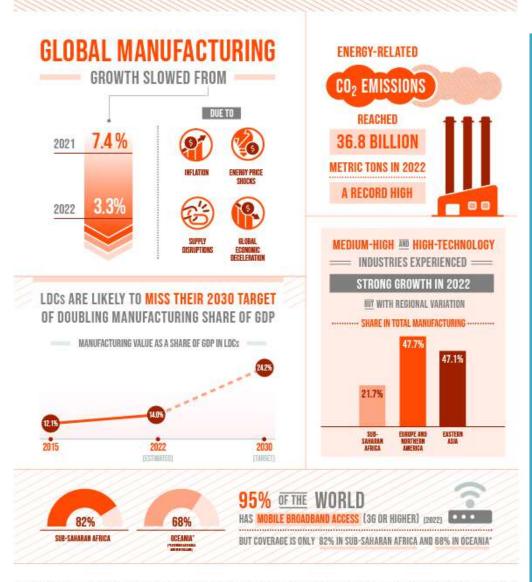




The UN explains: Investments in infrastructure – transport, irrigation, energy and information and communication technology – are crucial to achieving sustainable development and empowering communities in many countries. It has long been recognized that growth in productivity and incomes, and improvements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



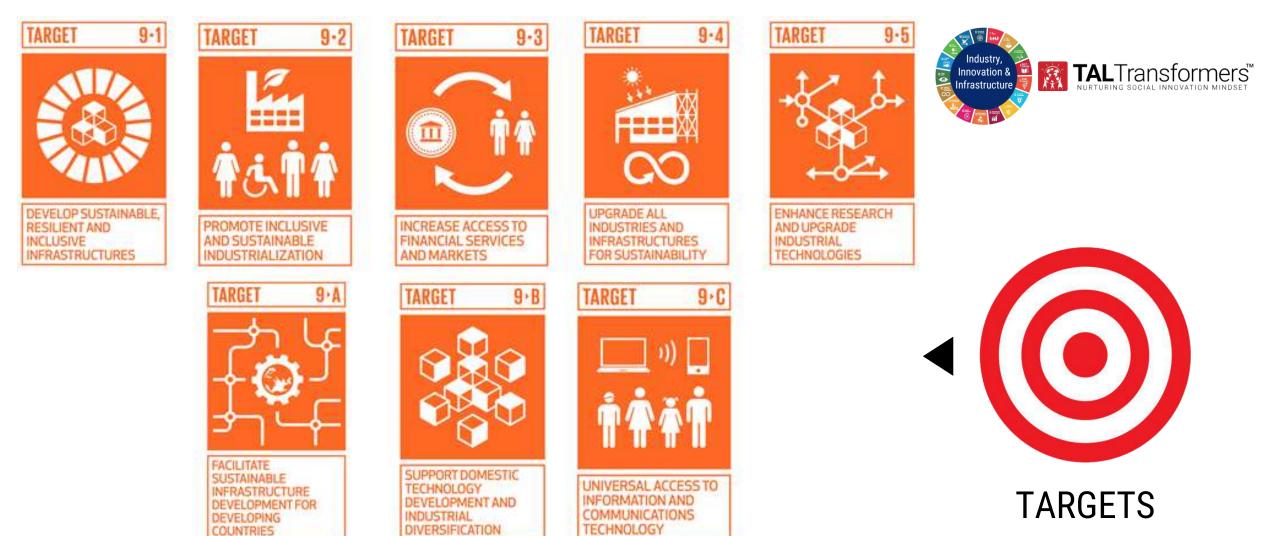


# Facts and Figures



- Global manufacturing growth slowed down to 3.3% in 2022, from 7.4 per cent in 2021. The rate of progress in least developed countries (LDCs) is way behind the necessary rate to reach the target of doubling the manufacturing share in gross domestic product (GDP) by 2030.
- As of 2022, 95% of the world's population are covered by 3G or higher mobile broadband network, increasing from 78% in 2015. Extending coverage to the remaining 5% of the population is challenging. There are Between 2015 and 2022, 4G network coverage doubled, reaching 88% of the world's population.
- As of 2021, 19% of the world's population is covered by 5G network.
- Global carbon dioxide (CO2) emissions from energy combustion and industrial processes grew by 0.9%, reaching an all-time high of 36.8 billion metric tons, well below global GDP growth. This figure has reverted to a decade-long trend of decoupling emissions and economic growth.
- There is a growth in the use of clean and renewable energy which is helping control additional emissions.
- Transitioning to medium- and high-tech industries contributes to green growth as these activities are generally less energy- and emission-intensive. Despite a slowdown in global manufacturing, medium- and high-technology industries are showing strong signs of recovery.

THE SUSTAINABLE DEVELOPMENT GOALS REPORT 2023: SPECIAL EDITION- UNSTATS.UN.ORG/SDGS/REPORT/2023/



**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

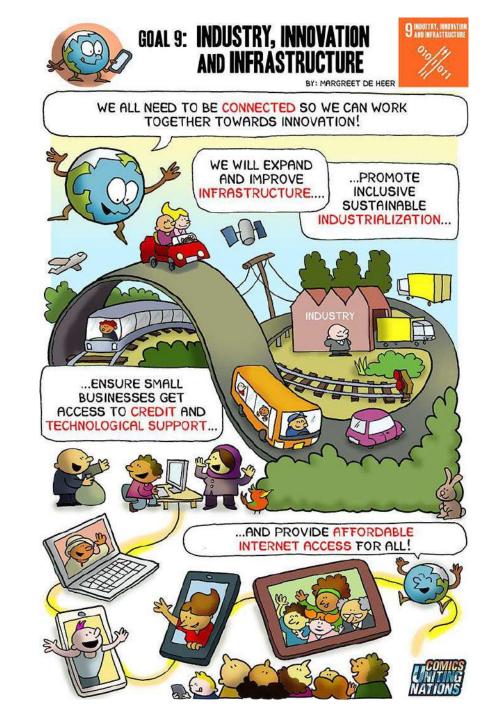
**9.4** By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities

**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







How do we achieve the **#GlobalGoals** by 2030?



Mobilize everyone, everywhere





SUSTAINABLE G ALS

