SDG 9 Profile

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### SDG 9: Industry, Innovation and Infrastructure

#### CURRENT STATUS

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<th>2015</th>
<th>2022</th>
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<td>9.c.1 Population covered by a mobile network</td>
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Globally, Asia and the Pacific has the highest share of MVA in GDP, 22.8% in 2021.

Among the main manufacturing producers were East and North-East Asia, with 26.3 per cent in 2021, followed by South-East Asia with 21.2 per cent in 2021.

Despite this fast expansion of the manufacturing sector, regional disparities remain. MVA per capita reached 1,647 USD (in constant 2015 prices) in 2021 in Asia and the Pacific, driven mostly by East and North-East Asia with 3,572 USD.

Source: UNIDO National Accounts Database
The Asia and the Pacific region is responsible for about **three-quarters of global CO₂ emissions** from fuel combustion produced by manufacturing industries.

Since 2010, the region has made significant progress by **sustaining absolute decoupling** between growth and emissions in the manufacturing sector, primarily driven by **decarbonization efforts in East and North-East Asia**.

Despite significant achievements, the region remains heavily dependent on coal as an energy source. For the transport sector, oil is also still the predominant energy source.

Source: UNIDO National Accounts Database, IEA Greenhouse Gas Emissions from Energy
• Before the pandemic, **global R&D spending was increasing significantly faster than GDP.** However, almost 90% of global research expenditure is concentrated in only three regions: **East and North-East Asia, Northern America and the European Union** (representing 31.4% of the global population in 2022).

• Most economies in Asia-Pacific economies devote **less than 1.0% of GDP to research.**

• Three countries, which invested more than the global estimate of 1.7 per cent in 2021, are the exception: **the Republic of Korea (4.4%), Japan (3.3%) and China (2.4%)** in 2020.

Source: UNESCO Institute of Statistics (UIS)
PROGRESS

• Access to internet connectivity has grown rapidly in all countries; **many already have over 90% of the population covered** by a 4G mobile network.

• In East and North-East Asia, 98.2% of the population was covered by at least a 4G mobile network in 2019, while **the Pacific and North and Central Asia still face significant challenges** with mobile coverage.

• **Digital divide in connectivity needs further targeting** to ensure no one is left behind.

Source: International Telecommunication Union (ITU)
Integrating sustainable and resilient transport measures is especially critical as passenger and freight transport demand has been projected to increase.

Relative to total employment, Asia and the Pacific has had the largest share of jobs linked to global supply chains impacted by the pandemic.

Small businesses operating in manufacturing and manufacturing-related services faced significant challenges due to ongoing demand and supply chain disruptions.

Manufacturing industries with higher technological content performed better during the COVID-19 crisis and recovered faster.

AREAS REQUIRING ATTENTION AND KEY CHALLENGES

1. PASSENGER AND FREIGHT VOLUME
   Target 9.1

2. MANUFACTURING EMPLOYMENT
   Target 9.2

3. SMALL-SCALE INDUSTRIES WITH A LOAN OR LINE OF CREDIT
   Target 9.3

4. MEDIUM AND HIGH-TECH INDUSTRY VALUE ADDED
   Target 9.b
AREAS REQUIRING ATTENTION AND KEY CHALLENGES

INCLUSIVE & GENDER RESPONSIVE INFRASTRUCTURE

WOMEN IN TECHNOLOGY

INTERCONNECTED DIMENSIONS OF CLIMATE CHANGE, ENVIRONMENTAL SUSTAINABILITY AND GENDER IN THE GARMENT INDUSTRY

Percentage of population using Internet in Asia and the Pacific

- Women: 68%
- Men: 61%

Women in STEM occupations with caring responsibilities without flexible work arrangements during the COVID-19 pandemic

- 44%

38 million are employed in the garment and textile industry in Asia and the Pacific
PROMISING INNOVATIONS AND PRACTICES

Transport connectivity and resilience:
COVID-19 Recovery Guidelines for Resilient and Sustainable International Road Freight Transport Connectivity in ASEAN

Climate and disaster-resilient infrastructure:
Coalition for Disaster Resilient Infrastructure (CDRI)

Innovations in communication infrastructure:
Cambodia’s Early Warning System

Community networks or community-owned or managed initiatives: Common Room Networks Foundation
PRIORITIES FOR ACTION

SUSTAINABLE, RESILIENT AND INCLUSIVE INFRASTRUCTURE
• Double existing infrastructure by 2050
• Embed Sustainability, Resilience, and Inclusivity
• Bridging the finance gap
• Implementation of low-carbon technologies
• Youth, gender and firm development

TECHNOLOGICAL INNOVATION AND DIGITAL TRANSFORMATION
• Innovation-based industrial production
• Preparing the workforce with the right skills and training opportunities
• Building inclusive digital society

INCLUSIVE AND SUSTAINABLE INDUSTRIAL POLICY
• Promoting diversification and accelerating progress towards structural transformation
• Aligning policies with a green, inclusive and resilient recovery

STATISTICAL CAPACITY BUILDING
• Strengthening national statistical systems to produce disaggregated data
Thank you!

Read the full SDG-9 Profile