

15TH ITU ACADEMIC CONFERENCE

ITUKALEIDOSCOPE

NEW DELHI 2024

*Innovation and digital transformation
for a sustainable world*

21-23 October 2024
New Delhi, India

**Conference
Awareness Workshop**

19 April 2024



ITU Kaleidoscope 2024 Conference Awareness Workshop

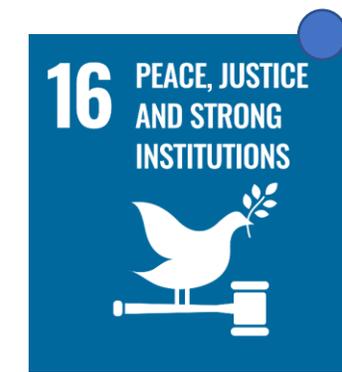
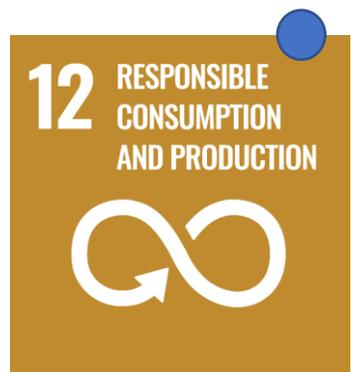
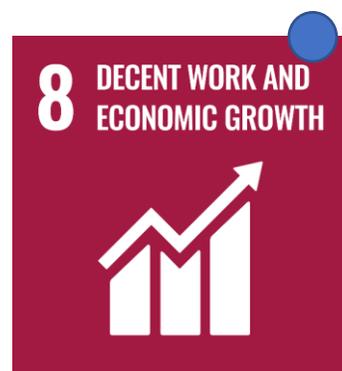
Role of SDGs in Innovation

< By >

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IDRBT

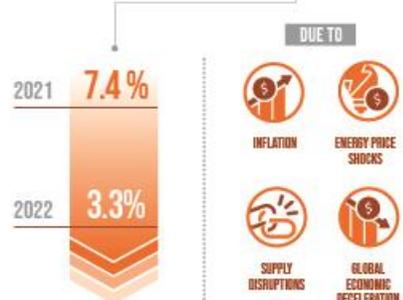
Academic Disclaimer: Views are personal and take some contrarian positions to emphasize the trends / possibilities.
Organizations/names/news-feeds used only as examples and should not be treated as recommendations.



<https://sdgs.un.org/topics/industry>

GLOBAL MANUFACTURING

GROWTH SLOWED FROM



ENERGY-RELATED

CO₂ EMISSIONS

REACHED

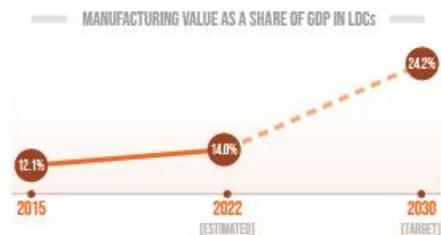
36.8 BILLION

METRIC TONS IN 2022

A RECORD HIGH



LDCs ARE LIKELY TO MISS THEIR 2030 TARGET OF DOUBLING MANUFACTURING SHARE OF GDP



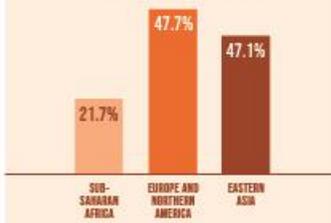
MEDIUM-HIGH AND HIGH-TECHNOLOGY

INDUSTRIES EXPERIENCED

STRONG GROWTH IN 2022

BUT WITH REGIONAL VARIATION

SHARE IN TOTAL MANUFACTURING



95% OF THE WORLD

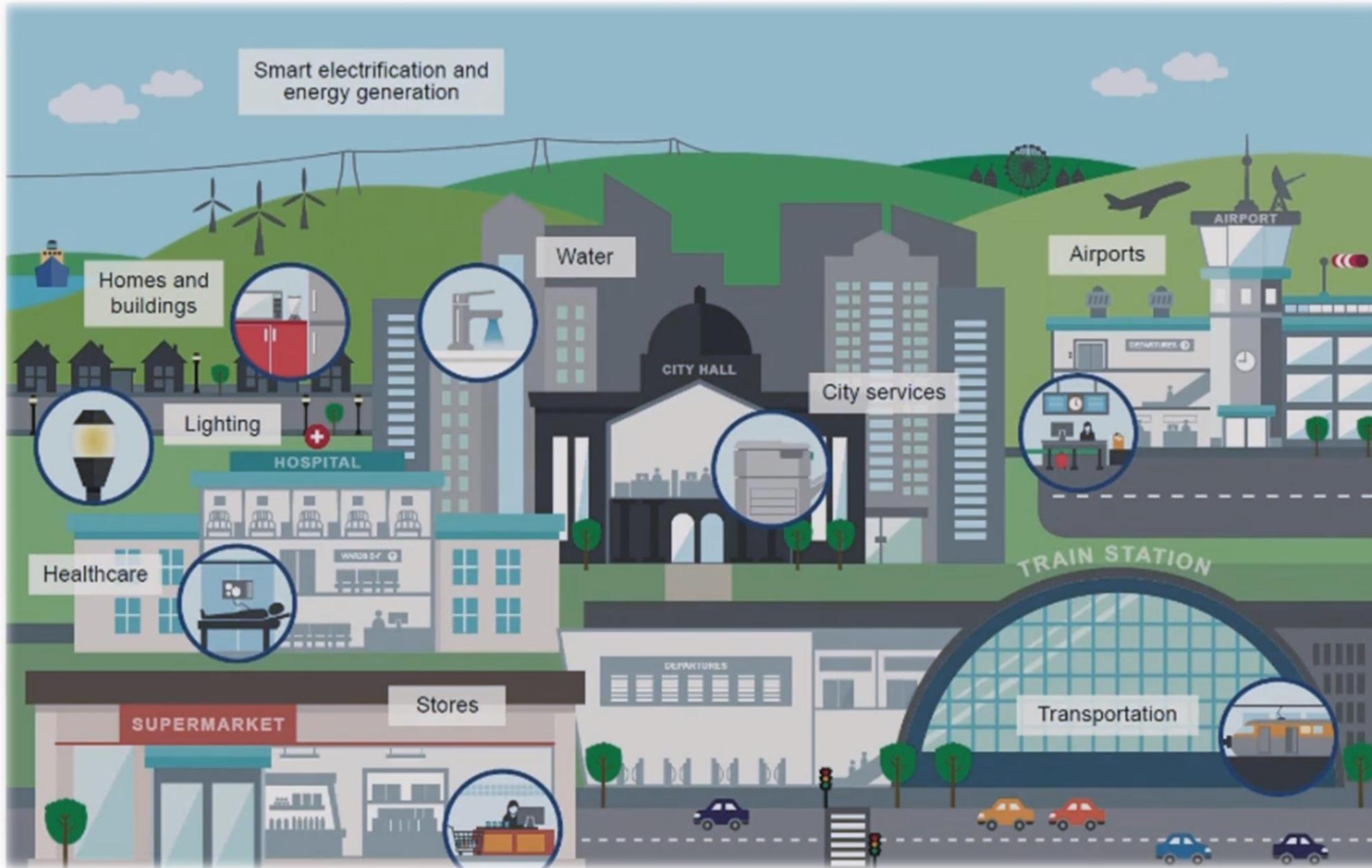
HAS MOBILE BROADBAND ACCESS (3G OR HIGHER) [2022]

BUT COVERAGE IS ONLY 82% IN SUB-SAHARAN AFRICA AND 68% IN OCEANIA*



Inclusive and sustainable industrial development has been incorporated, together with resilient infrastructure and innovation, as Sustainable Development Goal 9 in the 2030 Agenda for Sustainable Development.

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



<https://sdgs.un.org/events/session-4-sustainability-action-role-facility-management-and-electrotechnologies-impact-sdgs>

Sustainable Development Goals & ICT



Almost all activities are becoming digital first – Digital Public Infrastructure

Information and Communications Technology's contribution to sustainable solutions across sectors?

Sustainability of ICT –

- CapEx/OpEx
- Cyber resilience
- Environmental Impact
- Platform evolution / obsolescence / disruption
- Human factors (skills – inclusion – adoption)

Sustainable Innovations: External Factors



PESTLE based analysis

- Political
- **Economic**
- **Sociological**
- **Technological**
- Legal
- **Environmental**

Innovation: Examples from DPI



Digital Identity – Aadhaar (India) vs. e-ID (Estonia)

Digital Documents and Signatures

Digital Payments – UPI (India) vs. Pix (Brazil)

Digital Consent – Sahmati / Account Aggregator

Transdisciplinary examples : Innovation + SDGs



Know-your-customer

- Financial vs. Telecom vs. Education vs. Healthcare
- Protect-your-customer

Supply-chain

- Traceability, Audit, Risks . . .

Generalization / Re-use

- Video-conferencing as a service to class-room/patient-monitoring as a service
- Drone/tractor as a service to paddy-transplant as a service

Cyber-security + Privacy

Opportunities : Innovation + SDGs

Phygital workflows and mind-set change

- Business correspondents / Bank-Sakhi

AI, DLT and other emergent opportunities

Designing with “impact measurement” and “sustainability”

Transdisciplinary usage / impacts



Few of the prior themes in Kaleidoscope



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Extended reality – How to boost quality of experience and interoperability

7-9 December
Accra, Ghana

Proceedings

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Thank You

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