

ITU-ETSI Symposium on ICT Sustainability

*Standards Driving
Environmental Innovation*

**11-12 December 2024
Geneva, Switzerland**

itu.int/go/ITU-ETSI_Symposium



Dominique Würges

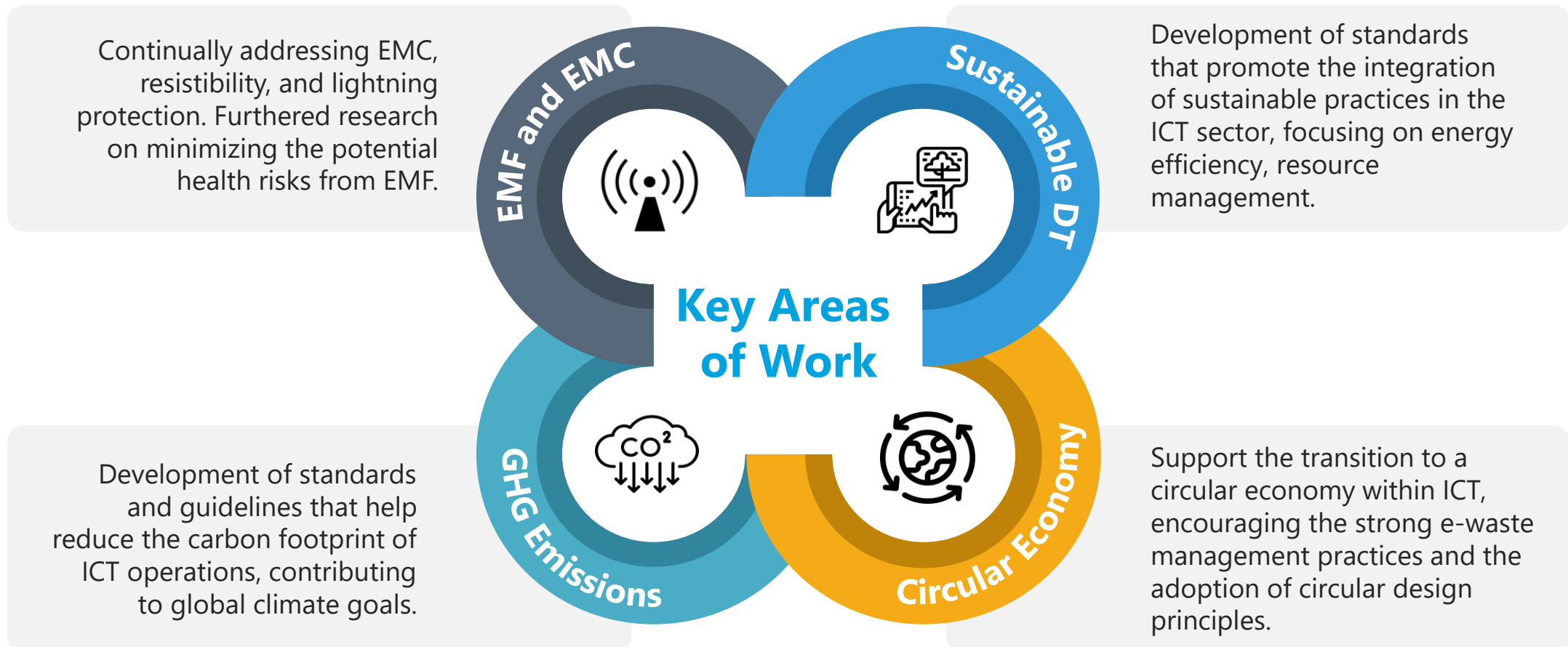
Chair, ITU-T Study Group 5:

Environment, EMF, Climate Action and Circular Economy

11 December 2024



ITU-T SG 5: Key Areas of Work



ITU-T SG5: Key ITU-T Recommendations



**Sustainable management of
batteries**

ITU-T L.1035



Digital Product Passport

ITU-T L.1070 & L.1071



**Assessment method for
circularity performance scoring**

ITU-T L.1023



**Energy saving technologies and
best practices for 5G radio
access network (RAN)
equipment**

ITU-T L.1390



**Carbon data intensity for network
energy performance monitoring**

ITU-T L.1333



**Implementation of a
virtual micro power station
at base station sites**

ITU-T L.1384



**Assess the enablement
effect of ICTs in other
sectors**

ITU-T L.1480

Main Achievements

ITU-T SG5: Main Achievements

01

Digital Product Passport

02

Regional Workshops on Key Topics

03

Guidance on Scope 3 Emissions for Operators

04

AI and the Environment

05

Argentina Case Study



Hosted by:



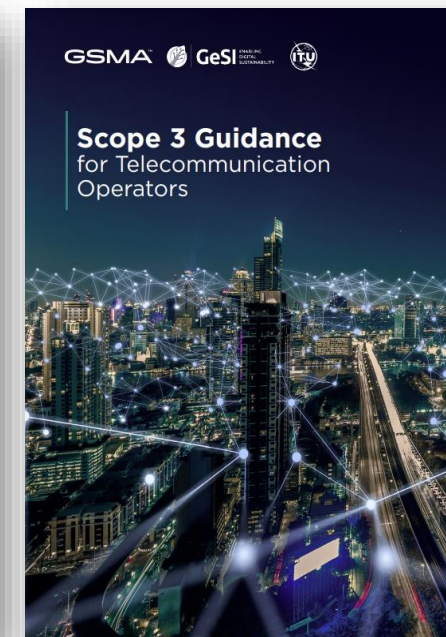
Co-organized by:

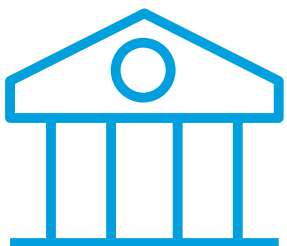


Hosted by:



Organised by:





SG5 Ongoing and New Collaborations

Electromagnetic Fields and Human Health Exposure



Technically Aligned Standards



Green Standards: Green Digital Action Initiative

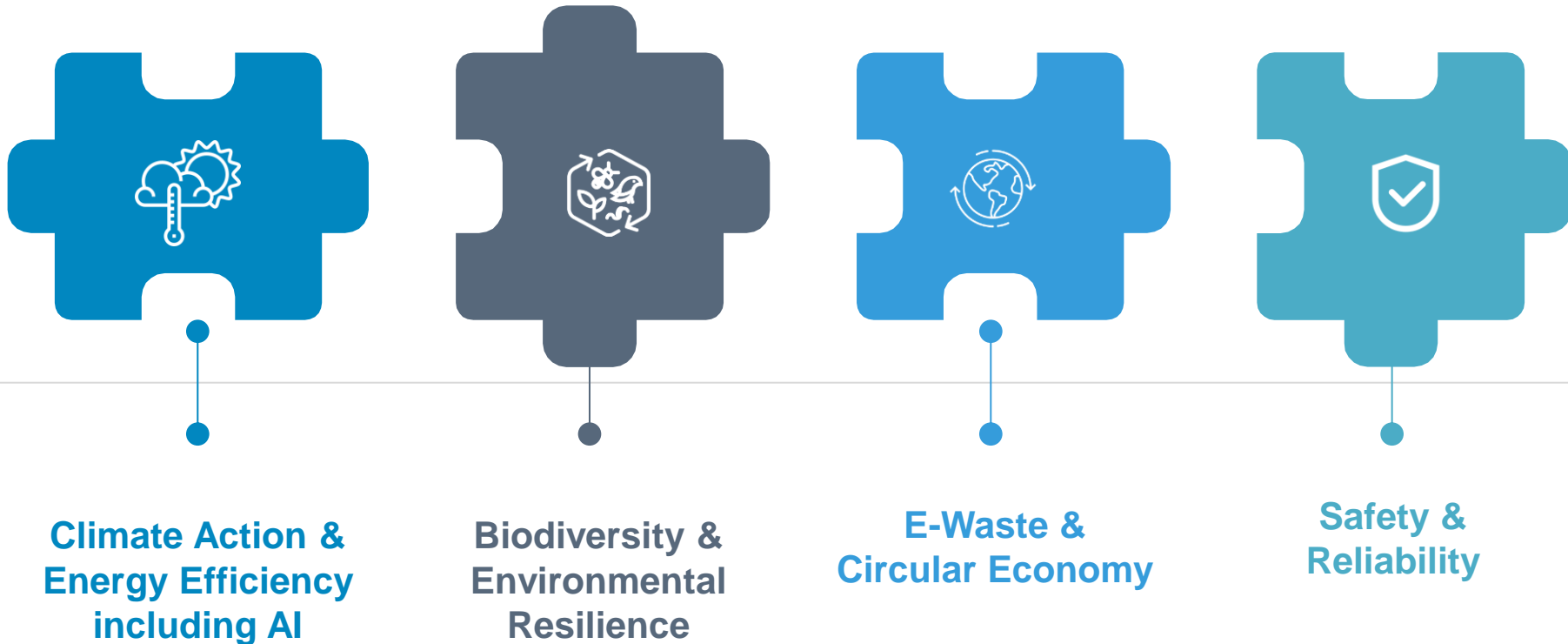


Climate Action



ITU-T SG5: as follow up of WTSA-24 , our most important Topics in 2025-2028

ITU-T SG5's work does not stop here



Resolution 73 Rev. New Delhi, 2024

ICT, environment, climate change and circular economy



What are the main changes and key highlights?

- **ITU will create a database with environmental data on the ICT sector**
 - Promote the collection of standardized environmental data for the telecommunications/ICT sector and ensure their harmonization across domestic data systems for easier analysis
- More emphasis has been included to work towards **minimizing the ICT environmental impact, improving e-waste management, circularity, green data centres and biodiversity**
- Use of telecommunication/ICTs (including new and emerging) to facilitate adaptation to climate change as well as combating it
- to work towards a reduction of the negative environmental impact of materials used in ICT products,
- to work towards promoting industrial approaches in telecommunications/ICTs
- to improve the methodological anchoring of studies devoted to measuring the ICT environmental impact

Resolution 79 Rev. New Delhi, 2024

The role of ICT in handling
and controlling e-waste from
ICT equipment and methods
of treating it



What are the main changes and key highlights?

- to study and develop Recommendations and reports on methodologies related to the estimation of the life span of telecommunication/ICTs equipment and collection systems for e-waste in all geographic areas
- to develop Recommendations and promote best practices related to recycling and reuse of e-waste and promote the use of secondary/recycled materials
- to continue developing standards and guidance on handling and controlling e-waste resulting from telecommunications/ICT and methods of treating and recycling it

Member states, are invited to:

- include the prevention of exposure to the environmental hazards of e-waste and its treatment in their relevant policies/strategies
- promote the circular utility of e-waste through reusing and recycling efforts
- collaborate with the relevant stakeholders in the development of sustainable and comprehensive e-waste management frameworks by adopting relevant ITU-T Recommendations and other international standards
- encourage manufacturers to design durable devices with increased lifespan and further encourage consumers to participate in circular economy by reusing and maintaining user devices

ITU-T SG5: Conclusion



“

I'm proud of our role in setting the standards that guide environmental and climate action in the ICT sector. With climate change affecting us all, the relevance of our work has never been more critical.

The ICT sector must be part of the solution, and SG5 is leading the charge in driving sustainable digital transformation. Through our collaborative efforts, we're ensuring that technology becomes a powerful tool in the fight against climate change.

- Dominique Würges, SG5 Chair

”

Thank you