

# ITU-T Activities on Environment, Climate Change & Circular Economy

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11 July 2017

# ITU-T programme on Environment, Climate Change & Circular Economy



- **Develop international standards** to protect the environment
- **Assist countries** to develop policies and implement ITU-T standards on climate change adaptation and mitigation
- **Help companies** becoming more sustainable and socially responsible
- **Research and development** on areas which include e-waste, energy efficiency and smart sustainable cities
- Raise **awareness** on role of ICT in tackling environmental challenges



# ITU-T Study Group 5: Environment, climate change and circular economy



**SG5 is responsible for:**

Studying ICT environmental aspects of electromagnetic phenomena and climate change.

Studies on how to use ICTs to help countries and the ICT sector to adapt to the effects of environmental challenges, including climate change, in line with the SDGs.

**Lead Study Group for**

electromagnetic compatibility, lightning protection and electromagnetic effects

ICTs related to the environment, climate change, energy efficiency and clean energy

circular economy, including e-waste



WP1/5 - EMC, lightning protection, EMF

WP2/5 - Environment, Energy Efficiency and the Circular Economy

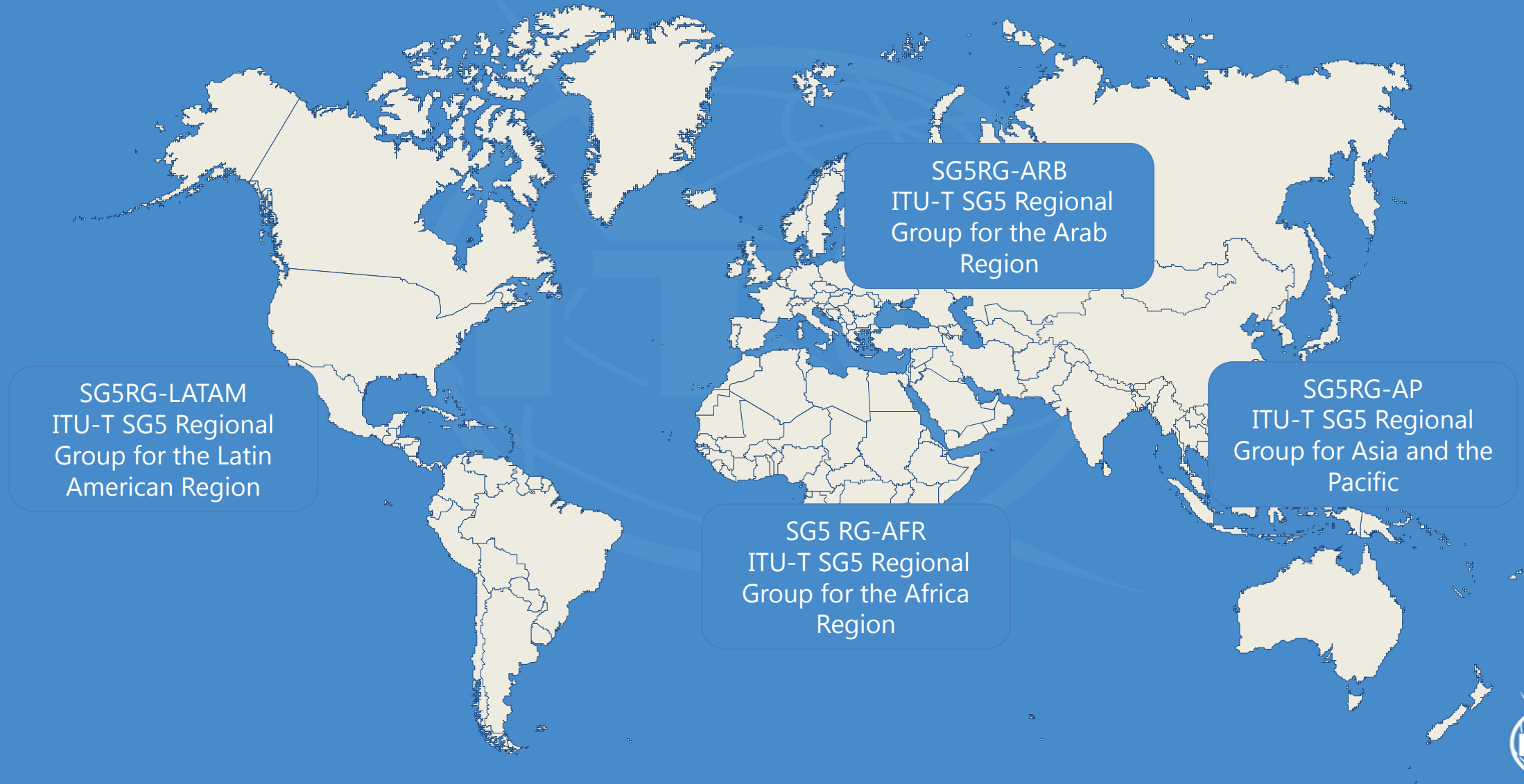


# ITU-T SG5 Overview

ACRONYM	TITLE
<b>PLEN</b>	
<a href="#">Q8/5</a>	Guides and terminology on environment and climate change
<b>WP1/5</b>	<b>EMC, lightning protection, EMF</b>
<a href="#">Q1/5</a>	Protection of information and communication technology (ICT) infrastructure from electromagnetic surges
<a href="#">Q2/5</a>	Equipment resistibility and protective components
<a href="#">Q3/5</a>	Human exposure to electromagnetic fields (EMFs) from information and communication technologies (ICTs)
<a href="#">Q4/5</a>	Electromagnetic compatibility (EMC) issues arising in the telecommunication environment
<a href="#">Q5/5</a>	Security and reliability of information and communication technology (ICT) systems from electromagnetic and particle radiations
<b>WP2/5</b>	<b>Environment, Energy Efficiency and the Circular Economy</b>
<a href="#">Q6/5</a>	Achieving energy efficiency and smart energy
<a href="#">Q7/5</a>	Circular economy including e-waste
<a href="#">Q9/5</a>	Climate change and assessment of information and communication technology (ICT) in the framework of the Sustainable Development Goals (SDGs)



# ITU-T SG5 Regional Groups



SG5RG-LATAM  
ITU-T SG5 Regional  
Group for the Latin  
American Region

SG5RG-ARB  
ITU-T SG5 Regional  
Group for the Arab  
Region

SG5 RG-AFR  
ITU-T SG5 Regional  
Group for the Africa  
Region

SG5RG-AP  
ITU-T SG5 Regional  
Group for Asia and the  
Pacific

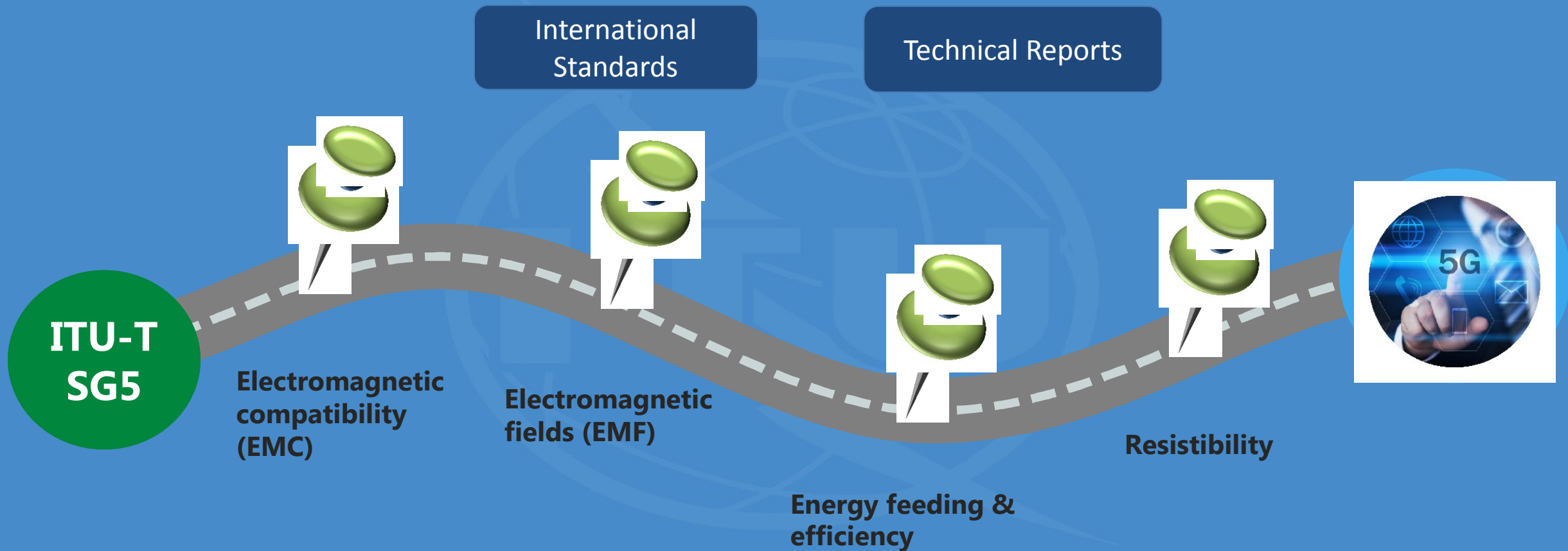




# ITU-T SG5 Vision



# Setting Environmental Requirements for 5G



1<sup>st</sup> Technical Report published in June 2017

ITU-T LSTR.5GEE - Technical Report on Methods and metrics to evaluate energy efficiency for future 5G systems



**Thank you!**

**ITU-T, Environment  
Climate Change and  
Circular Economy**

**<http://itu.int/go/tsg05>**

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