

# **Brief overview of ITU-T Study Group 5 activities**

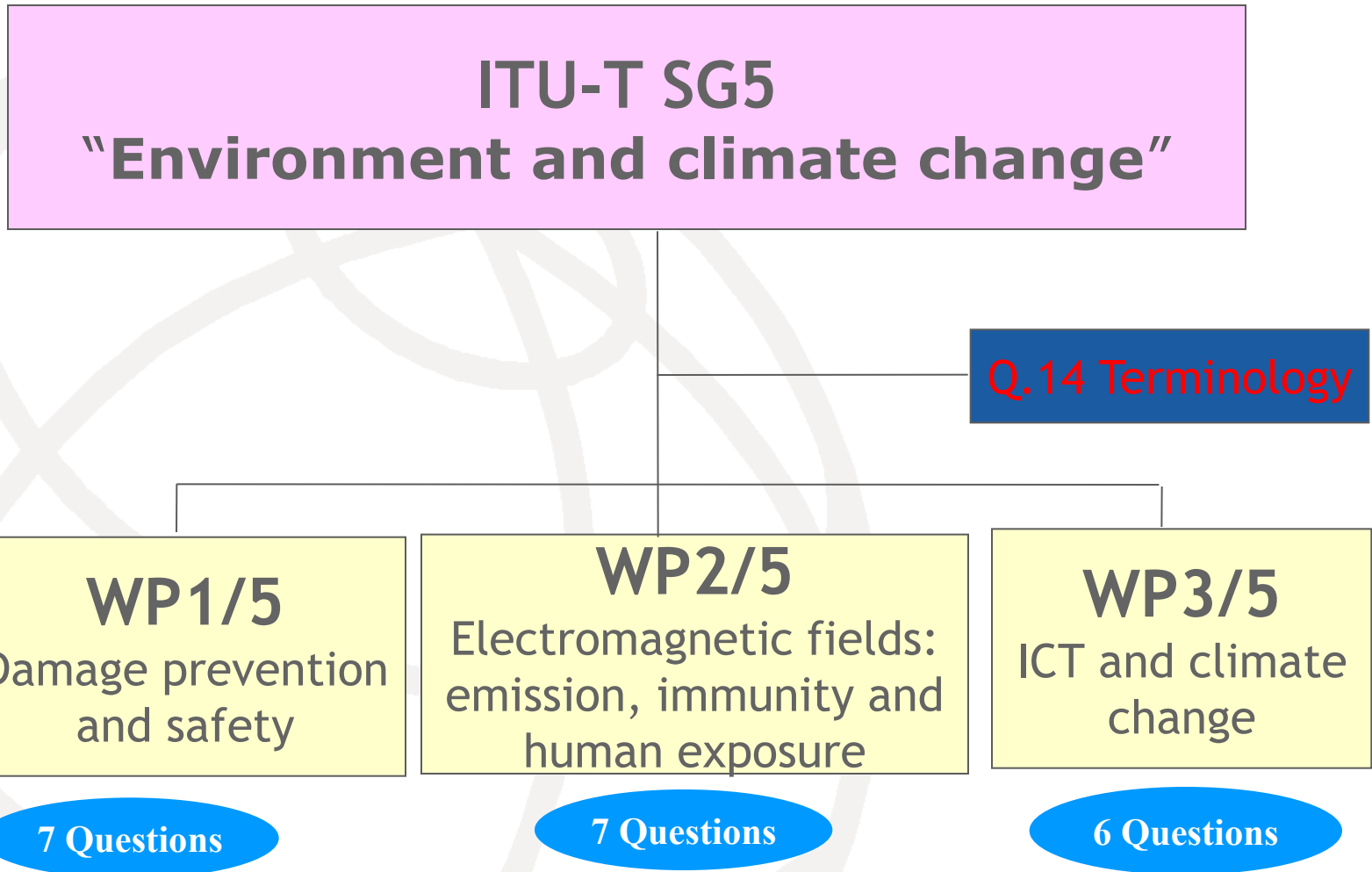
**Ahmed ZEDDAM**  
*France Telecom Orange*  
*ITU-T SG5 Chairman*

**Information and Training Session on ITU Methodologies for  
Assessing the Environmental Impact of ICT**

***Geneva, Switzerland, 12 April 2012***



# Structure of ITU-T SG5



# ITU-T Study Group 5

## “Environment & Climate Change”



### Working Party 3 “ICT and Climate Change”

- Continuing and expanding the work of ITU-T Focus Group on ICT and CC
- All ITU-T study groups to examine impact of standards on climate change

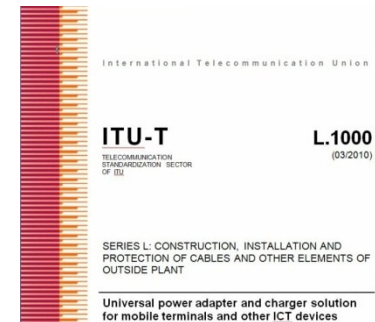
### ITU-T SG5/WP3’s six work areas:

- [Q 17/5](#) - Energy efficiency for ICT equipment and Climate Change standards harmonization
- [Q 18/5](#) - Methodology of environmental impact assessment of ICT
- [Q 19/5](#) - Power feeding systems
- [Q 21/5](#) - Environmental protection and recycling of ICT equipment/facilities
- [Q 22/5](#) - Setting up a low cost sustainable telecommunication infrastructure for rural communications in developing countries
- [Q 23/5](#) - Using ICTs to enable countries to adapt to climate change



# Highlights on Deliverables of WP3/5

- **Important green ICT standards that have been approved by SG5 WP3 in last few months. These are namely:**
  - Recommendation ITU-T L.1000: Universal power adapter and charger solution for mobile terminals and other hand-held ICT devices
  - Recommendation ITU-T L.1100: A method to provide recycling information of rare metals in ICT products
  - Recommendation ITU-T L.1300: Best practices for green data centers
  - L.1410 *"Methodology for environmental impacts of Information and Communication Technologies (ICT) goods, networks and services"*
  - L.1420 *"Methodology for environmental impacts of Information and Communication Technologies (ICT) in Organizations"*
  - All these Recommendations have been now approved.



# ICTs play a double role in climate change

- **ICTs are part of the problem...**

## **The Bad News:**

ICT Accounts for  
Approximately

**3%**

of Global CO2 Emissions

- **But ICTs are also part of the solution...**

## **The Good news:**

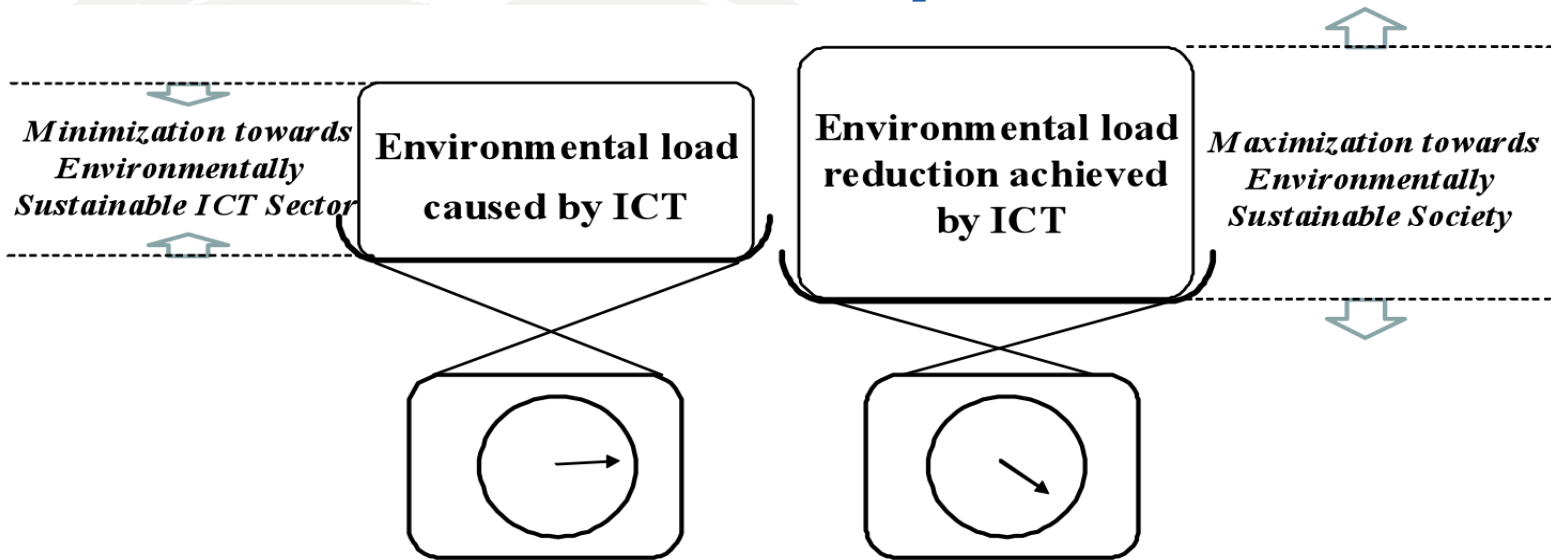
ICT has the potential to reduce  
emissions in other sectors by

**15%**

Smart buildings, Smart  
metering, Smart Motor  
systems, Smart Logistics plus  
**Dematerialisation of  
Transport**



# Environmental aspects of ICT



## Negative Aspects on Environment

- ★ Consumption of energy
- ★ Consumption of natural resources
- ★ Generation of waste

## Positive Aspects on Environment

- ★ Dematerialization (digitization of information)
- ★ Reduction of movement and transportation
- ★ Making industry and lifestyles more efficient etc.

Should quantify both environmental aspects.



and climate change

## Q18/5 deliverables:

# ITU-T Methodologies

- **Common set of methodologies** for the assessment of ICT carbon footprint
  - Without, it will be impossible to provide meaningful comparisons
  - Helps to establish the business case to go green
- **Scope includes:** goods, networks, services, organizations, projects, cities and countries
  - [L.1400](#) Overview and general principles of methodologies for assessing the environmental impact of information and communication technologies **(Approved)**
  - [L.1410](#) Methodology for environmental impact assessment of information and communication technologies goods, networks and services **(Approved)**
  - [L.1420](#) Methodology for energy consumption and greenhouse gas emissions impact assessment of Information and Communication Technologies in organizations **(Approved)**
- Developed in cooperation with UNFCCC Secretariat, EC, and over 40 organizations etc..
- ☞ **Contributions are needed to develop Methodologies on ICT in projects , cities and countries**

# Objectives of the training session

1. Build awareness of the two recently agreed ITU methodologies on ICT with workshop participants
2. Show how this work fits into overall ITU work on ICT methodologies
3. Give participants an overview of both methodologies covering
  - the principles and processes involved in carrying out a life cycle
  - assessment (LCA) of ICT goods networks and services and ICT in organizations
4. Discuss the benefits and Limitations of LCA approaches



# Agenda

- |   |                       |
|---|-----------------------|
| <b>1. Opening remarks:</b>  | 14.00 to 14.10        |
| ▪ <b>Reinhard Scholl</b> , Deputy Director, Telecommunication Standardization Bureau, ITU |                       |
| <b>2. Brief overview of SG5:</b>  | 14.10 to 14.30        |
| ▪ <b>Ahmed Zeddami</b> , Chairman ITU-T Study Group 5                                     |                       |
| <b>3. Recommendation L.1400:</b>  | 14.30 to 16.00        |
| <b>Recommendation L.1410:</b>   |                       |
| ▪ <b>Jean Manuel Canet</b> , Rapporteur Q18/5<br>Q/A                                      |                       |
| <b>Coffee break</b>   | <b>16.00 to 16.15</b> |
| <b>4. Recommendation L.1420:</b>  | 16.15 to 17.00        |
| ▪ <b>Gilbert Buty</b> , Editor, Q18/5<br>Q/A  |                       |
| <b>5. Closing remarks:</b>  |                       |
| ▪ <b>Ahmed Zeddami</b> , Chairman ITU-T Study Group 5                                     | 17.00 to 17.10        |

# Thank you!



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change