



The role of ITU in shaping Smart Sustainable Cities

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ITU

unique public/private partnership



- UN agency for ICTs
- Members:
 - 193 Member States (Governments and regulatory bodies)
 - 700 Private Sector (Sector Members and Associates)
 - 63 Academia

Mr. Ban Ki-moon, Secretary-General of the United Nations and **Dr. H. Touré**, Secretary-General of ITU



Why Do People Move to Cities?

“Man is by nature a social animal.”

Aristotle

Inclusive?

Smart?



Which Cities?

Creative?

Innovative?

Sustainable?

Digital?

**“Work for the good of the society
of young people and the elderly”**

22 July 2013, Pope Francis



ITU-T's mandate



WTSA Resolution 72 - Measurement concerns related to human exposure to electromagnetic fields

WTSA Resolution 73 - Information and communication technologies, environment and climate change

WTSA Resolution 79 - The role of telecommunications/information and communication technology in handling and controlling e-waste from telecommunication and information technology equipment and methods of treating it



What ITU Does to Shape Smart Sustainable Cities



ITU-T Study Group 5 Environment and Climate Change



Focus Group on Smart Sustainable Cities



Focus Group on Smart Water Management



Research and Development

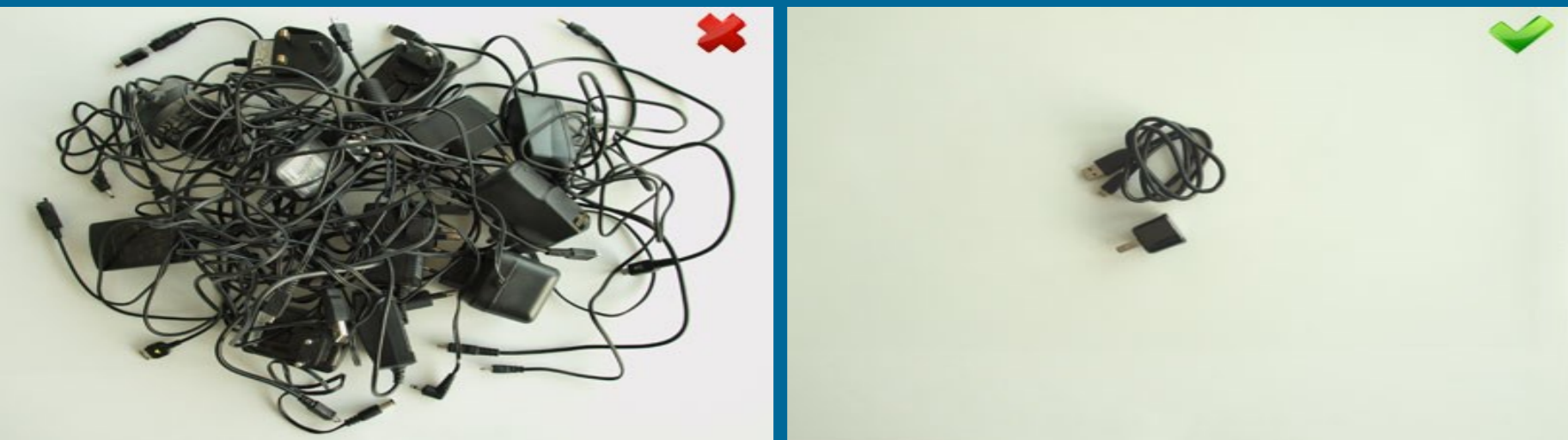
ITU-T Study Group 5 Environment and Climate Change



Lead study group on ICTs and climate change

Tackling E-Waste

Q13/5 - Environmental impact reduction including e-waste



Standards are vital to shape Smart Sustainable Cities

Methodology on Cities

Q18/5 - Methodologies for the assessment of environmental impact of ICT



Q17/5 - Energy efficiency for the ICT sector and harmonization of environmental standards



Green Data Centers

Focus Groups

Smart Water Management

- Established by the ITU-T TSAG meeting in Geneva (June 2013);
- Works in close collaboration with the FG-SSC;
- Next meeting: 27 June 2014 (Kampala, Uganda).



Smart Sustainable Cities

- Established at SG5 meeting in Geneva (February 2013);
- As an open platform for smart-city stakeholders;
- Next meeting: 19-20 June 2014 (Genoa, Italy).



Contributions are needed!

Global Portal on ICTs, Environment and Climate Change



Launched in February 2014

ITU-T GREEN ICT STANDARDS



ITU develops Green ICT Standards to create, enable and ensure regulation for Green ICTs; continuing its aim on closing the standardization gap.

CLIMATE CHANGE



Promoting the use of ICTs in both climate change adaptation and mitigation, for the prevention of environmental degradation and the reduction of GHG emissions.

SMART WATER MANAGEMENT



Promoting ICT use towards a smarter more sustainable way to manage water resources.

SMART SUSTAINABLE CITIES



Maximizing contributions of ICTs to smart grids and smart meters, smart buildings and urban planning as well as smart mobility and electric vehicles towards the development of smart sustainable cities.

E-WASTE



Empowering institutional and governmental capabilities on the reduction of E-Waste and municipal waste.

GREEN ICT PROCUREMENT



Strengthening capacities within institutions to procure the appropriate Smart Logistics and Green ICTs.

CLOUD COMPUTING AND DATA CENTERS



Realizing the potential of cloud computing and data centres on environmental sustainability and climate change mitigation and adaptation.

GREENING ICT SUPPLY CHAINS



Advocating the Greening of ICT supply chains for sustainability as well as the use of ICT tools to help measure, certify and lower the impact of the supply chain of other products

**Official launch on 11 March 2014
in Montevideo**

**Partnering for
solutions:
ICT in Smart Water
Management**



United Nations
Educational, Scientific and
Cultural Organization

Regional Bureau for Sciences
in Latin America and the Caribbean

Cluster Office for MERCOSUR

Communication
and Information Sector

UNESCO Montevideo Office





Moving forward on Smart Sustainable Cities...

- **Forum on Smart Sustainable Cities
(Genoa, 18 Jun 2014)**
back to back with 5th FG SSC meeting (Genoa, 19-20 Jun 2014)
- **Forum on Smart Sustainable Cities
(London, 17 Sept 2014)**
back to back with 6th FG SSC meeting (London, 17-18 Sept 2014)
- **4th ITU Green Standards Week
(Beijing, 22-26 Sept 2014)**
including a Forum on Smart Sustainable Cities (24 Sept 2014)

ITU Green Standards Week

- **Annual event**
- **Global platform** for discussion and knowledge-sharing to raise awareness of the importance and opportunities of using ICT standards to build a green economy and ensure a sustainable future
- To bring together **leading specialists** in the field, from top policy-makers to engineers, designers, planners, government officials, regulators, standards experts and others.



SEE YOU in Beijing on 22-26 Sept 2014!

Envisioning a Sustainable Future...



- The role of international standards and policies is key;
- Smart sustainable city should be seen as a “System of Systems”;
- City leaders to partner effectively with other levels of governments, ICT industry, NGOs, Universities, etc.

Thank YOU

- ITU-T, Environment and Climate Change
itu.int/ITU-T/climatechange
- ITU-T Study Group 5
itu.int/en/ITU-T/studygroups/2013-2016/05/
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