

# **ITU-T JCA on ICT & CC**

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## EC Policy on ICT for Energy Efficiency and the ICT4EE Forum

**Pierre Chastanet** 

ICT for Sustainable Growth European Commission Information Society and Media Directorate-General





#### Energy Reductions enabled by ICT

#### Energy Consumption of ICT solutions

~8% of total electricity consumption ~15% by 2020



# Can we measure the contribution of ICT?

We don't have a common understanding today of how to quantify energy efficiency / carbon emissions gains, in particular at the level of whole systems

# In the ICT sector today, carbon and energy accounting are based on different measurement methodologies, estimates and assumptions

Consequences are:

- lack of reliable data
- targets set by individual organisations by cannot be compared
- best practices are not transferrable across the industry
- 'green' claims by the industry are spurious

#### Until we have reliable data, we are all flying blind!

>>> Need a common framework to measure (like accounting standards) and evaluate gains (energy cost-benefit analysis)

## Green ICT in EU Policy: "mobilising ICT to facilitate the transition to an energy-efficient, low-carbon economy"





#### **EC** Recommendation

adopted on October 9 2009



# Industry Response to the EC Recommendation: <u>The ICT4EE Forum</u>

### Focus Areas of the ICT4EE Forum:

- Measuring the Energy Efficiency of ICT Processes (WG1)
  - Methodologies, targets, reporting, auditing and verification
  - Deliver a common energy performance measurement framework
  - Adoption and implementation of the framework by individual companies of the ICT sector
    - Companies should contribute from the beginning if they don't want others to define the measurement framework for them!
- Enabling Energy Efficiency in other Sectors (WG2)
  - Transport & logistics, buildings & construction, energy supply





Japan Business Council in Keurope



# Complexity

- Multiplicity of parallel initiatives on measuring energy/carbon impact of ICT:
  - Standardization: ITU, IEC, ISO, ETSI...
  - Independent: EC code of conducts, Green Grid...
  - International: Green IT Promotion Council, EPEAT...
  - Reporting: CDP, GRI, GHG Protocol Scope 3...

#### The ICT4EE Forum is NOT '*just another initiative*' on the topic

# **Key EC Expectations from ICT4EE Forum WG1**

- Do not reinvent the wheel, <u>leverage international</u> <u>standardization effort</u>
- WG1 should be an overarching initiative to:
  - Reconcile the various standardisation efforts and other initiatives to ensure <u>compatibility</u> and <u>consistency</u> of methodologies
- 1. Representation of the <u>entire</u> ICT sector from the beginning:
  - Very good participation from the telecom sub-sector
  - Large global players from the software & services business, IT equipment manufacturers, component manufacturers are getting on-board to contribute with relevant expertise
- 2. Definition of the <u>scope</u> of methodologies for measuring energy/carbon of ICT
  - Perimeter of the methodologies
  - LCA / Global Supply Chains / "Scope 3" emissions

# Key EC Expectations from ITU-T SG5 WP3/5

- Deliver the Methodology on Environmental Impact of ICT Goods and Services (including full LCA) by summer 2011
- Deliver the Methodology on Environmental Impact of ICT in Organizations <u>by end 2011 / early 2012</u>
- Develop the Methodology on Environmental Impact of ICT Projects by 2012 in collaboration with ICT4EEF WG2
- Have cooperation established <u>at technical/operational</u> <u>level</u> with other standardisation organizations, in particular IEC, ISO and ETSI
- Keep reporting on progress and drive coordination in the ICT4EE Forum WG1
- Attract non-telecom actors in the development of the ITU methodologies to increase chances of future adoption
- Ensure <u>compatibility and coherence</u> of the ITU methodologies with other methodologies necessary to do a complete mapping of the ICT sector's activities