ICT and Cities

JCA-ICT & CC – 10th meeting
Geneva, 12 April, 2012

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HoU INFSO H4: ICT for Sustainable Growth
European Commission

Digital Agenda for Europe

Actions for the ICT industry:
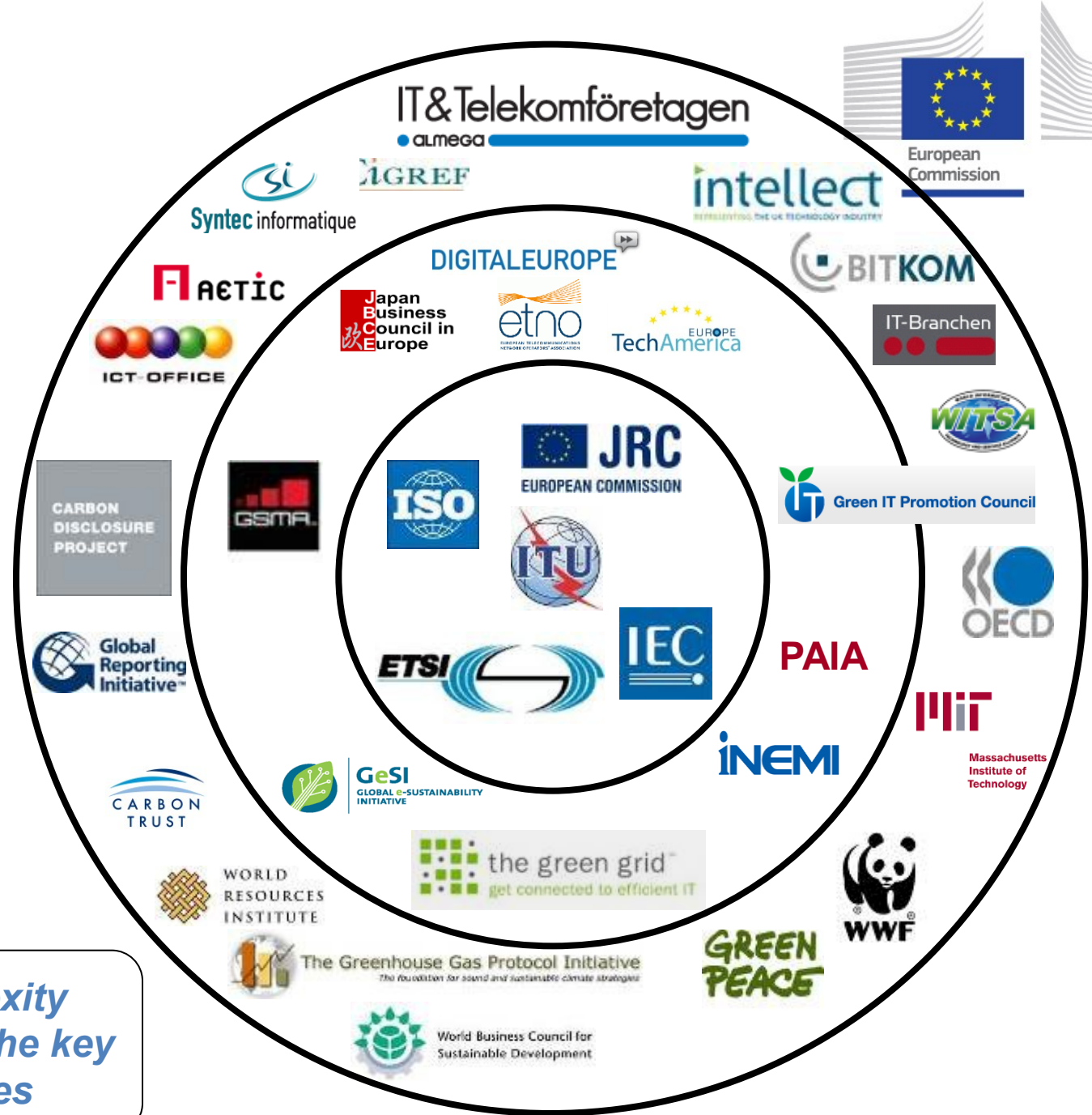- adopt **common** measurement methodologies to capture the sector's energy intensity and greenhouse gas (GHG) emissions

Actions for the Commission:
- assess delivery on methodological framework and its adoption, and propose legal measures if appropriate
  → *pilots, IA*

- support partnerships between the ICT sector and major emitting sectors to improve their energy efficiency and reduce the greenhouse gas emissions
  → *cities*

Stakeholder Mapping

- European ICT Trade Associations
- International SDOs
- Green IT industrial initiatives
- National ICT Trade Associations
- Other international organizations
- Environmental reporting schemes
- NGOs

►*Enormous Complexity*
►*Need to focus on the key contributing initiatives*

Work done / in progress

Assure a robust measurement framework:

- applicable to the entire ICT industry (very diverse)
- cover whole supply chain (lifecycle assessment)
- through international agreement
- ICT has its own specificities – so methodologies must be adapted

EC Approach:

- Work with international standardisation bodies (ITU, ETSI, IEC…)
- Work with industry stakeholders

Key Methodologies

For Products and Services:

- ITU-T L1410 Methodology for environmental impacts assessment of ICT goods, networks and services;
- ETSI TS 103 199 Life Cycle Assessment (LCA) of ICT equipment, networks and services: General methodology and common requirements;
- GHG Protocol Product Life Cycle Accounting and Reporting Standard - ICT Sector Guidance;
- IEC TC 111 - IEC/TR 62725, "Quantification methodology of greenhouse gas emissions (CO_2e) for electrical and electronic products and systems";

For Organizations:

- ITU-T L1420 Methodology for environmental impacts assessment of ICT in organizations;
- GHG Protocol Corporate Accounting and Reporting Standard - including the Corporate Value Chain (Scope 3) Standard.

Pilots

December 2011 – September 2012; mid-term report due April 25

29 companies / organisations

Aims:
Provide assurance to *industry* on
- **compatibility** across methodologies
- **workability** of methodologies

Provide **feedback** to *SDOs*

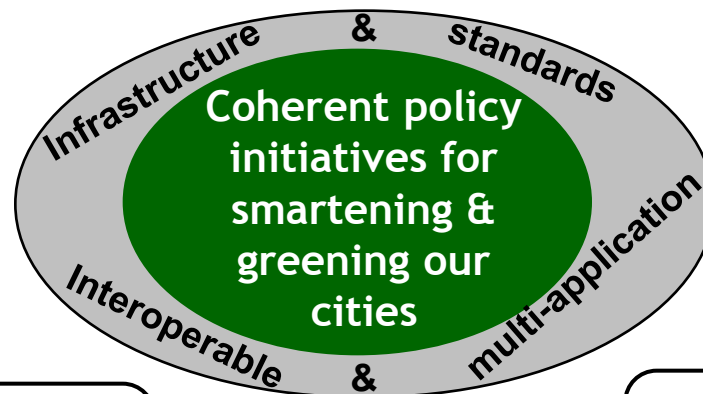http://www.ict-footprint.com

Cities:
the right space for strategic deployment of ICT infrastructure and services to achieve sustainability policy objectives

The European Commission will focus its efforts on smart cities across portfolios to optimise outputs and ensure public policy coherence
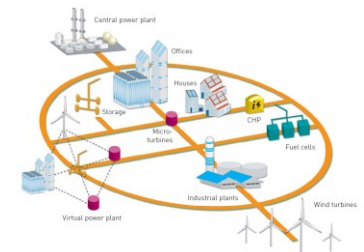
Energy-Efficient Buildings

Energy / Smart Grids

Infrastructure & standards

Coherent policy initiatives for smartening & greening our cities

Interoperable & multi-application

Sustainable Mobility and Transport

Water and waste management

Smart Cities and Communities Initiative – current thinking

- **Objective:**
  accelerate development and deployment of **integrated** energy, transport and ICT solutions at local level **to serve EU climate/energy targets**

- **How:**
  - provide funding for selected large-scale demonstration projects

  - prepare for scale-up through focused horizontal activities - including *harmonised approaches to measurement* (energy intensity and GHG emissions)

- **Timing**
  from 2014; to be announced in a *Communication* in July 2012

Smart Cities and Communities Initiative – what's new

- seeks to **break down "silos"** between theenergy, transport and ICT sectors, and consolidate Commission's initiatives under "one roof"

- focus on **innovation** through integration of technologies/ business models rather than research into new technologies

- **joint** leadership by Commissioners responsible for energy, transport and ICT

- though overall goal is to serve EU climate/energy targets, expect **progress elsewhere**, eg, interoperability of service infrastructures, open data, harmonized metrics, etc

A methodological framework for ICT in cities

Key Challenges

- avoid fragmentation of efforts !

- ensure coherence with existing methodologies/ongoing efforts !

  GHG, ADEME, JRC, …

- bring in work from 'ICT projects' methodologies

- think of the end-users !

Further Information

web
http://ec.europa.eu/information_society/activities/sustainable_growth/index_en.htm

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