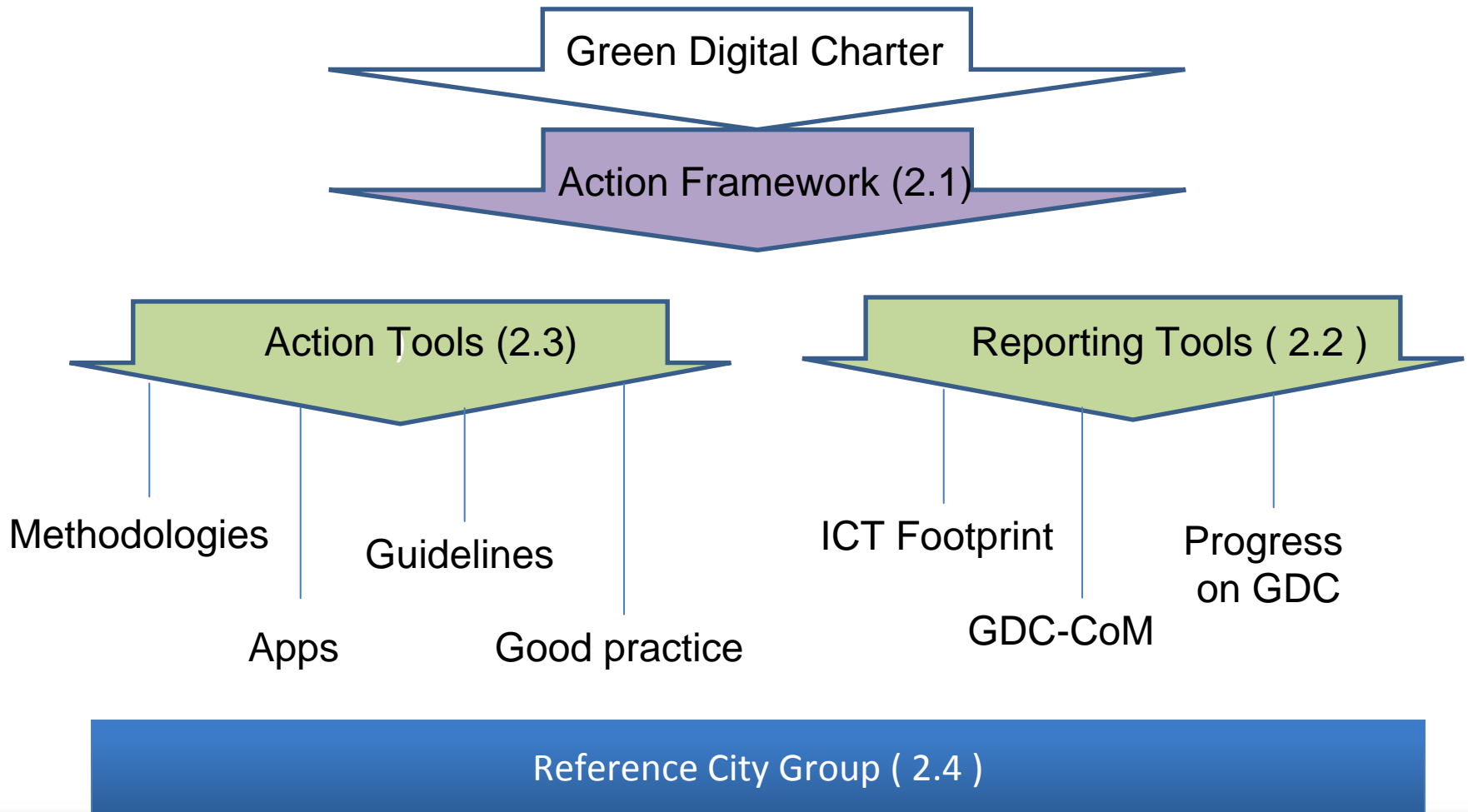


# NiCE

## ICT Footprint Training

Vin Sumner  
Clicks and Links Ltd ,UK  
19 June 2012



# ICT Impact on Carbon Footprint

- Green ICT
- ICT for Green
  - Measurement
  - Efficiency
  - Transformation
- Rebound Effects
  - 2<sup>nd</sup> Order ( eg displacement )
  - 3<sup>rd</sup> Order ( eg over consumption )

# Methodologies/Reporting

- WRI ( Cities all )
- ITU (ICT)
  - Goods, Networks and Services
  - Organisations
  - Projects
  - Cities
  - Countries
- Local
  - Bristol
  - Gartner

# Training

- Carbon Footprints; Mike Berners-Lee
- ITU Methodologies; Jean-Manuel Canet
- Reporting Tool; Vin Sumner

## ICT Footprint in GDC

The key GDC objective is to reduce a city's ICT's direct carbon footprint by 30% over a 10 year period.

- Green ICT
- Administration
- Scopes 1,2
- Negative Impact

# ICT Footprint Tool

- Version 1 ; Feb 2012
  - Introduction
  - Example from Bristol
- Version 2 ; June 2012
  - Adopt ITU Approach
  - Advice on use of L.1420 (organisations )
  - Website information/checklist
- Version 3 ; June 2013
  - Online Method/Calculator based on L.1450 ( cities )

## Version 1 - GreenAddict - Bristol

- Developed a methodology for any city or region to calculate its non-domestic ICT emissions
- The Green Addict website ([www.greenaddict.eu](http://www.greenaddict.eu)) provides a Green ICT database as an aid for ICT professionals, and other interested parties, to help them consider different methods of reducing the carbon footprint of their ICT use.



## Version 2 – Follow ITU

- NiCE was invited to contribute to 'Methodology to evaluate the GHG Impact of ICT in Cities' being developed by ITU-T (Q18 , Study Group 5).
- The ITU work on city footprints will provide a firm basis in terms of a common methodology for and as a result we can develop practical reporting tools based on the emerging methodology.
- L.1420 on organisations should be used by the public administration; wider than GDC requirement.

## Version 2 – Method

- 1) Identify Organisational Boundaries
- 2) Identify ICT Goods , Networks and Services to be assessed.
- 3) Agree Operational Boundary
- 4) Estimate the Energy Consumption of ICT GNS
- 5) Convert to Carbon and Aggregate
- 6) Report
- 7) Recalculate Annually

# Organisational Boundaries

Which parts of the public administration are to be included ?

- City Hall
- Services
- Transport
- Schools
- Hospitals
- Waste

Checklist is required

## ICT Goods , Networks and Service

- Desktops;
- Laptops;
- Cathode Ray Tube (CRT) screens;
- Flat screens;
- Individual printers;
- Cables;
- Network printers and copiers;
- Servers, switches and routers;
- Fax machines;
- Scanners;
- Fixed phones;
- Mobilephones;
- Personal Digital Assistants (PDA) and tablets;
- Projectors;
- Videoconference installations;
- Televisions;
- Cooling systems for ICT goods;
- Other small ICT goods;
- Outsourced ICT goods, in particular outsourced datacenters;
- Power supply back-up generators.

# Operational Boundaries - Energy Consumption

- Energy consumption of ICT goods used by the organisation:
- Energy consumption of support equipment for ICT goods used by the organisation (e.g., cooling and power supply equipment):
- Energy consumption for staff responsible for purchase, operation and maintenance of ICT goods, networks and services:

## Convert and Aggregate

- Identify conversion factors for parts of the organisation
- Convert from KWHs to Tonnes
- Aggregate to an annual figure

## Version 3

- Based on L.1450
- Range of checklists and calculators
- Delivery June 2013

## Next Steps

- Test approach with small number of RCG Cities , other GDC signatories welcome to try and feedback
- Review scope of the reporting tool