

NiCE GDC Framework

“**GDC Framework** will help GDC signatory cities to move from the **objectives and declarations of intent** contained in the charter towards **concrete measures and actions** by establishing a transferable framework (city to city) for **action and reporting.** “

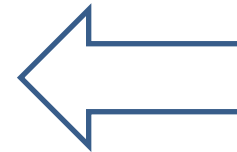
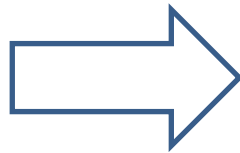
(NiCE Task 2.1)

How to develop GDC Framework?

Green Digital Charter commitments



Conceptual view of the 'city'



Existing initiatives on green digital / digital city



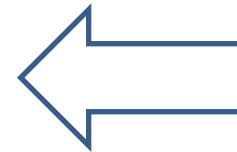
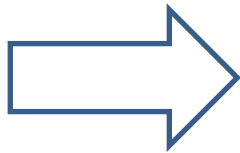
City needs and requirements for implementation

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Green Digital Charter

We, Mayors and Leaders of EUROCITIES

acknowledge that:

• Information and communication technologies are critical enablers for sustainable growth and must be integrated into the work of European cities to mitigate climate change;

• European good practices for low emissions ICT must be based on the practical experience of public authorities who can set an example for others;

• Cities can lead Europe in maximising the potential for ICT to reduce emissions, by delivering innovative technical solutions and encouraging behavioural change.

We, therefore, declare our commitment to:

• **Develop cities as platforms for innovation** through digital planning and new digital infrastructures and services, which will enable low carbon activities and achieve systemic carbon efficiencies;

• **Demonstrate that cities can lead by practical example** by ensuring that a city's own ICT infrastructure and digital services have the smallest possible carbon footprint, and by promoting these practices towards the private sector and wider community;

• **Create new partnerships** by connecting leaders and stakeholders together in each city to secure practical commitments for implementing a new green digital agenda;

• **Promote integrated approaches and large-scale solutions** through a series of digital applications for improving the measurement, transparency and visibility of energy use, and by involving citizens, service providers, public sector organisations and businesses in test bed implementation projects;

• **Support open innovation** by encouraging and promoting low carbon activities in all sectors, through R&D activities and deployment projects in user-driven, open innovation environments.

We agree to:

• implement a strategy to promote green connected cities, making the most effective use of ICT as a platform for the economic, social and environmental wellbeing of all citizens;

- Deploy ICT to change the way our communities link to each other, and more critically, in the way they link to the environment;
- Promote inclusive sustainability by recognising that action on climate change is required by all members of the community, including households and SMEs;
- Ensure that ICT-enabled climate change initiatives will go hand in hand with work to promote social cohesion, given the large concentrations of socially excluded people in many cities;
- Promote ICT innovation for climate change mitigation which maximises the benefits for local communities and businesses.

We aim to achieve this by ensuring:

- That ICTs are more energy efficient by:
 - Encouraging the use of low emission ICT equipment, including intelligent "thin client" facilities, smarter uses of laptops and more energy efficient servers;
 - Using renewable energy resources both to power ICT and to utilise energy emissions from ICT, to heat buildings for example;
 - Ensuring that city use of hosting and data centres is as green as possible, by maximising renewable energy use, sharing services with other users and using planning rules, compliance arrangements and service level agreements to control ICT emissions and encourage green ICT;
 - Implementing a strategic commitment to improve the sustainability of the production, use and disposal of ICT equipment;
- The measurability, transparency and visibility of emissions and energy data by:
 - Developing common standards to collect, collate and analyse emission and energy data across city administrations and cities as a whole;
 - Ensuring the compatibility of data on ICT impacts with the measurement of data on emissions, including working in partnership with initiatives such as the Covenant of Mayors;
 - Being innovative with the use of new tools to make data and their analyses as transparent and visible as possible, for example through "ocomaps", the use of Geographical Info Systems (GIS) and the Urban Atlas initiative.

- That ICT solutions facilitate energy-efficient, "smart" processes by:
 - Improving the energy efficiency of buildings by applying common standards for new buildings and for retro-fitting existing buildings;
 - Applying innovation in ICT systems and services for transport and urban mobility, including smart public transport networks, greater use of tele-conferencing and more sustainable ways of working;
 - Developing "smart" energy grids to support greater use of renewable energy, micro-generation and more energy efficient lighting systems;
 - Collaborating with industry to support greener production and logistics and using green procurement.
- Transformational approaches to ICT, which drive new values and behaviours, by:
 - Supporting the creation of low carbon next generation digital infrastructure and broadband networks based on high-capacity optical fibre and advanced wireless and mobile applications;
 - Developing or supporting innovative new services based on the highest speeds and capacities of these networks to transform the way that we run our cities and in the way that we work, live and play;
 - Enabling the "restructuring" of the way we organise economic processes so that the use of materials and energy can be reduced while enhancing both the quality and quantity of jobs;
 - Developing opportunities for innovation in eGovernment to transform public services, for example through mobile channels, enhanced strategic planning, virtual policy modeling, scenario planning, simulations and visualisations;
 - Transforming citizen engagement through eParticipation greater co-production by citizens of content and services and, consequently better opportunities for improved skills, employment, inclusion, well-being and quality of life.
 - Providing a commitment to open innovation platforms and methodologies through the further development of the Living Labs network across Europe, including creating new city-based Living Labs and developing new open innovation initiatives for low carbon solutions.

We, Mayors and Leaders of EUROCITIES, aim to:

- Create an intently partnership on ICT & Energy Efficiency to work through to the end of 2015;
- Deploy five large-scale ICT pilots per city addressing the above areas before 2015;
- Decrease ICT direct carbon footprint per city by 30% by 2020.

We will work on the above by:

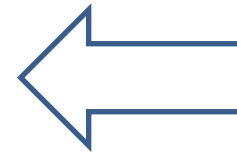
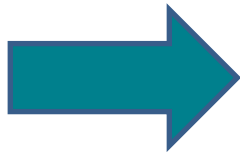
Making use of the vast expertise within the EUROCITIES network and in particular the Working Group ICT & Energy Efficiency to coordinate our efforts, develop an implementation roadmap on the commitments above, exchange experiences and build benchmarks of good practice, as well as seeking external sources of funding to support our ambitions.

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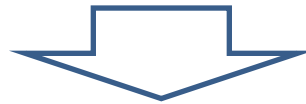
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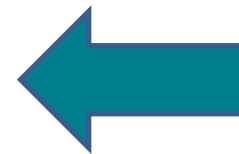
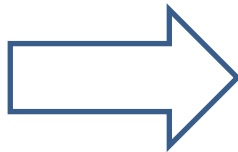
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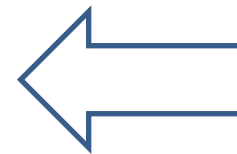
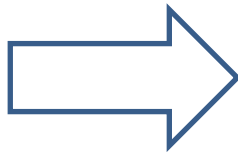
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“GDC Framework will be created in close cooperation with the reference group providing input on the basis of their own experiences of the GDC”

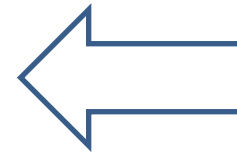
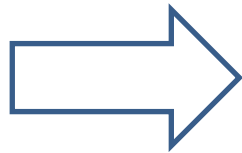
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Assessing Green Digital Charter Commitment

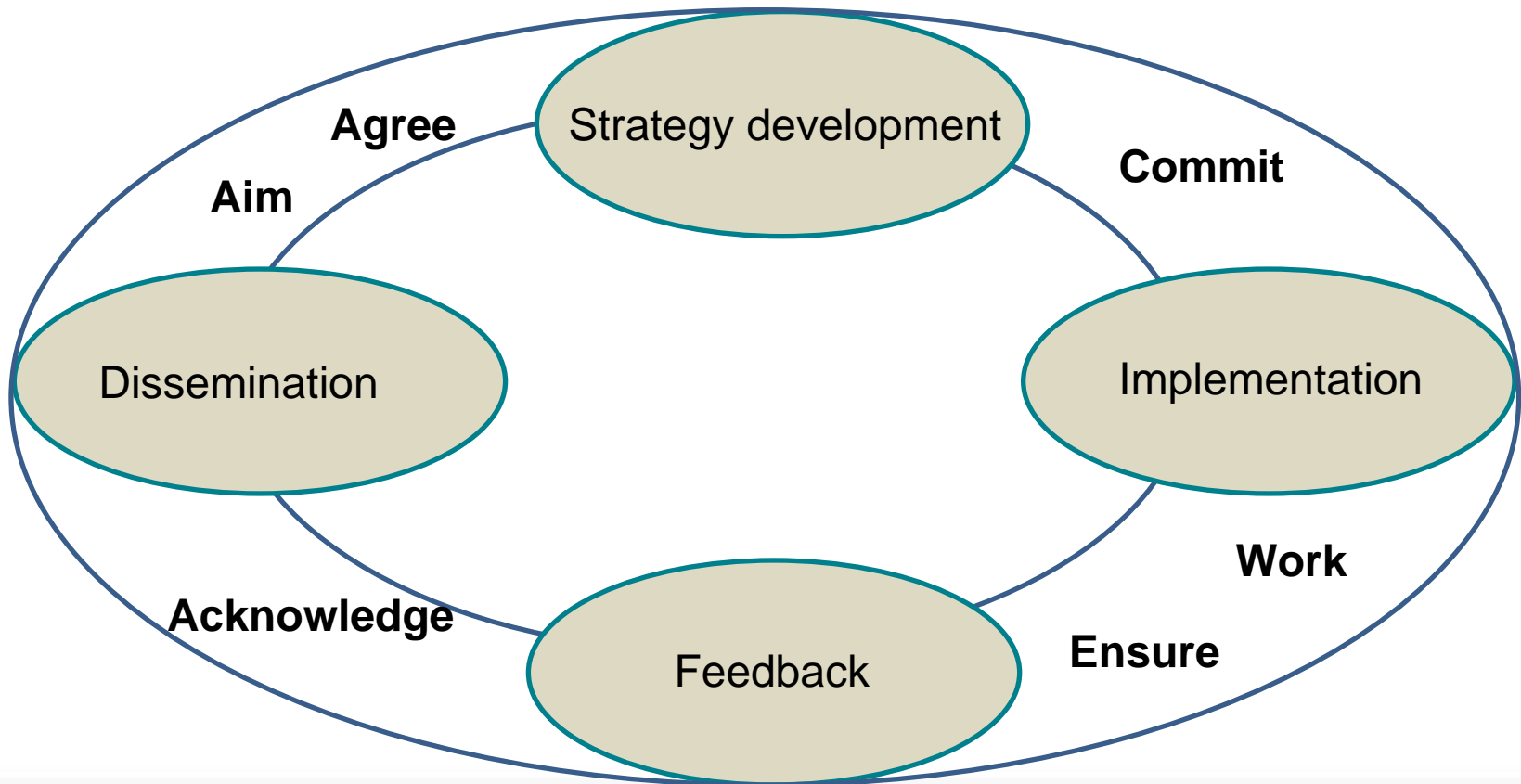
1. **Acknowledge** potential for digital media to mitigate climate change
2. **Commit** to innovative and integrated development of digital media to address climate change
3. **Agree** to implement digital media strategy that incorporates economic, social and environmental wellbeing for citizens

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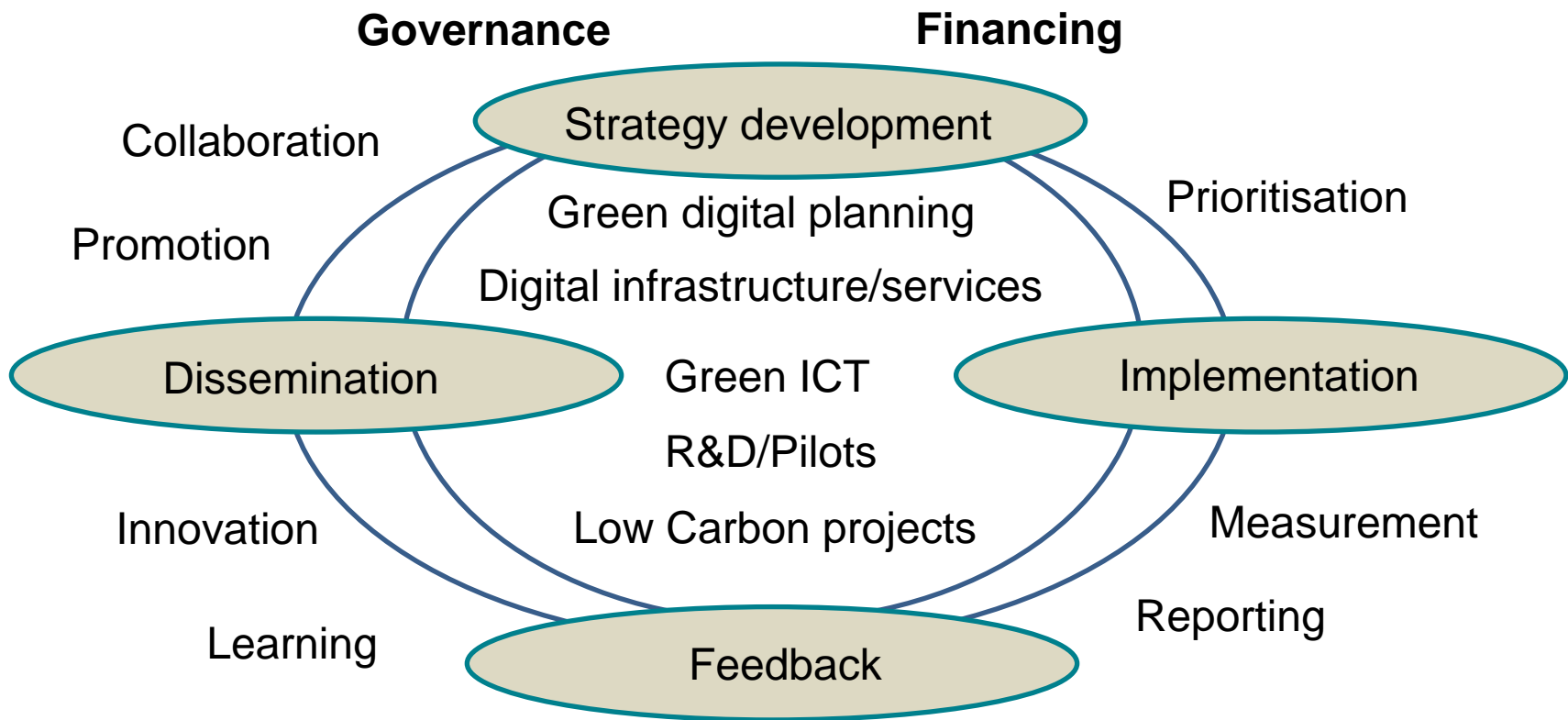
Assessing Green Digital Charter Commitment

4. **Ensure** appropriate implementation to measure, transform and encourage energy efficiency
5. **Aim** to create partnerships, projects and measurable carbon reduction
6. **Work** by drawing on existing networks, planning implementation, exchanging best practice and seeking funding.

Moving from Commitments...

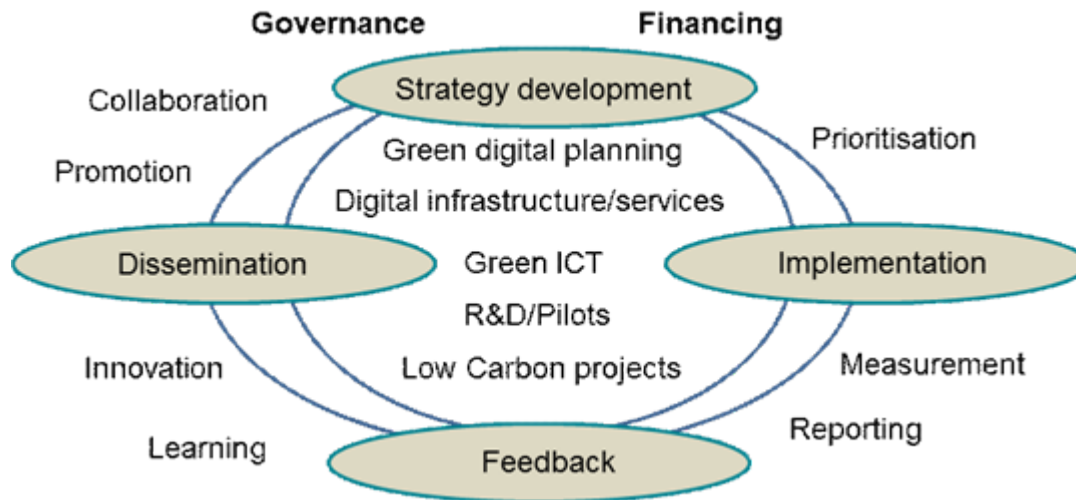


To “Concrete Measures and Actions”



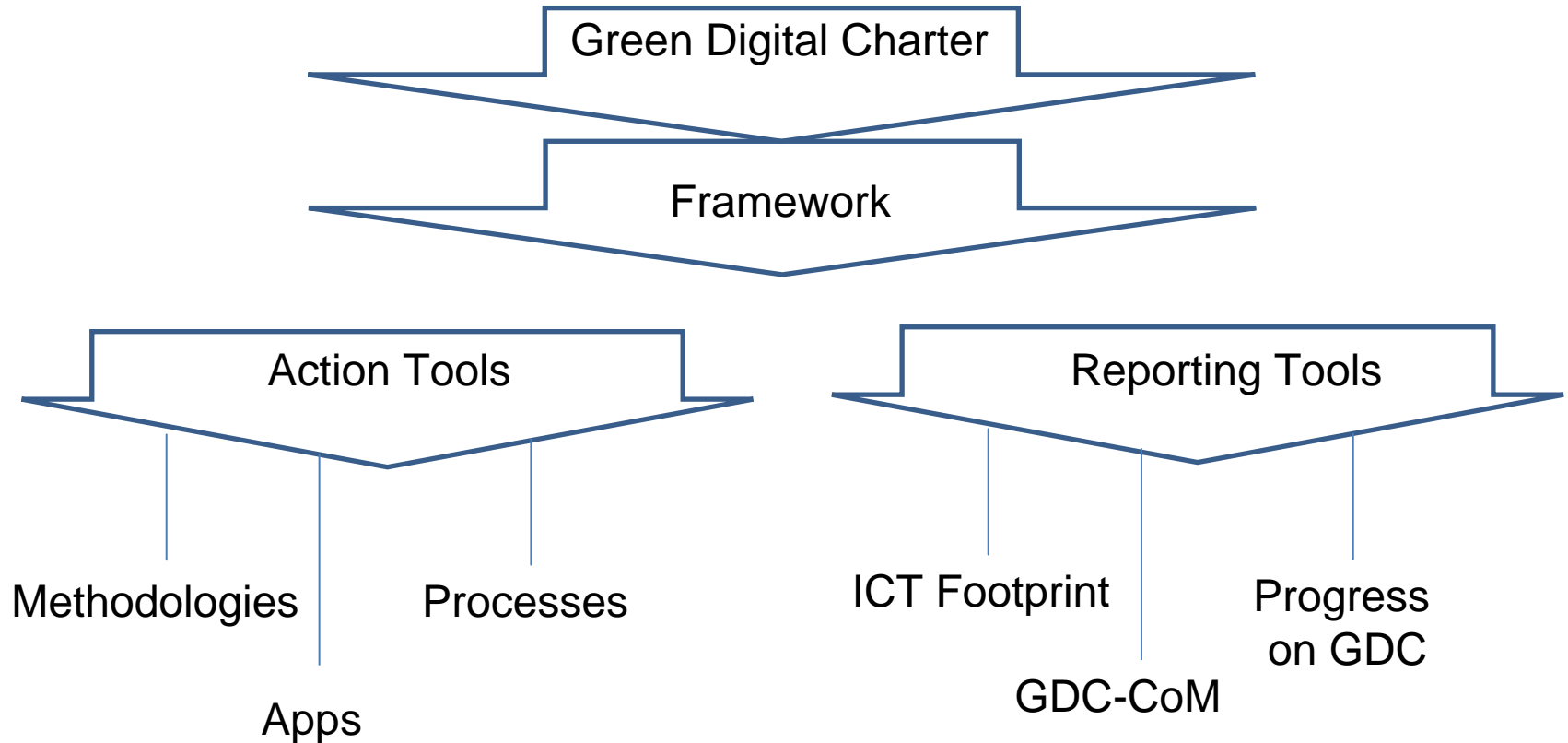
What next for the GDC Framework?

Turning this:



Into a Toolkit for Action and Reporting...

What will the Framework deliver?



Define 'city' in this context

- Civic 'representatives' (political / administrative)
- Administrative boundaries (legislative / geographic)
- Socio-technical system (STS): cities in functional relation (e.g. electricity, water)
- City-to-City: interface between multiple cities

City Input: Questions for next session

Implementing the Green Digital Charter ?

1. How do you see the scope ?
2. Who is responsible ?
3. How are you measuring progress ?
4. What would help ?
5. What can you contribute ?

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