



Towards  
a low carbon  
future

# **Smart Cities Technology Roadmap**

**- Report from the  
Discussion -**



**A smart city ?**

# Energy Efficiency - a new initiative

- Requested by the Council and the European Parliament
- New Initiative - Less mature than the others
- A lot of blocks (e.g. Covenant of Mayors) to build upon
- A strong financing component – but technology uptake & development dependent
- Integration & transition strategies

**I**nnovative, **D**oable, **E**xciting, **A**mbitious

# Smart Cities

- ***Objective:*** 40% reduction of GHG by 2020
- ***How:***
  - Buildings
  - Energy Networks ( Electricity, Heating & Cooling)
  - Low Carbon Transport
- ***Cost:*** 11bn€

# Which are the Smart Cities ?

- *Ambitious - many*
  - technical assistance to facilitate access to loans and risk sharing
- *Pioneer - 25-30*
  - taking much greater risks, receiving funding in the form of grants
- Selection- open call for proposals, possibly in steps, **criteria** (commitment, technical, managerial and financial), with open door to cities in the Covenant of Mayors

# Buildings

- New – zero energy requirements
  - Refurbishment
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- Net zero energy buildings?
  - Citizens are key
  - Residential & Non-Residential
  - Coherence with E2B PPP roadmap

# Energy networks

- Heating and Cooling
  - Electricity
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- Highest priority
  - Maximising integration benefits

# Transport

- Sustainable mobility
- Alternative vehicles and fuels
  - We need both
  - Preference on electrification?

# Other Comments

- Do not bet on sustained subsidies – technology has to progress
- Monitoring & Review, smart KPIs – best practices dissemination
- Coherence with ongoing actions & other Initiatives
- Urban projects last long!
- Large & small cities, towns?

Thank you  
for your attention

# Financing schemes

grants, loans, equity, technical support

- FP7
- CIP –IEE
- EIB - ELENA initiative for technical support
- Commercial banks

# Technology Roadmap 2010-2020

