

● *Smart Cities Initiative*



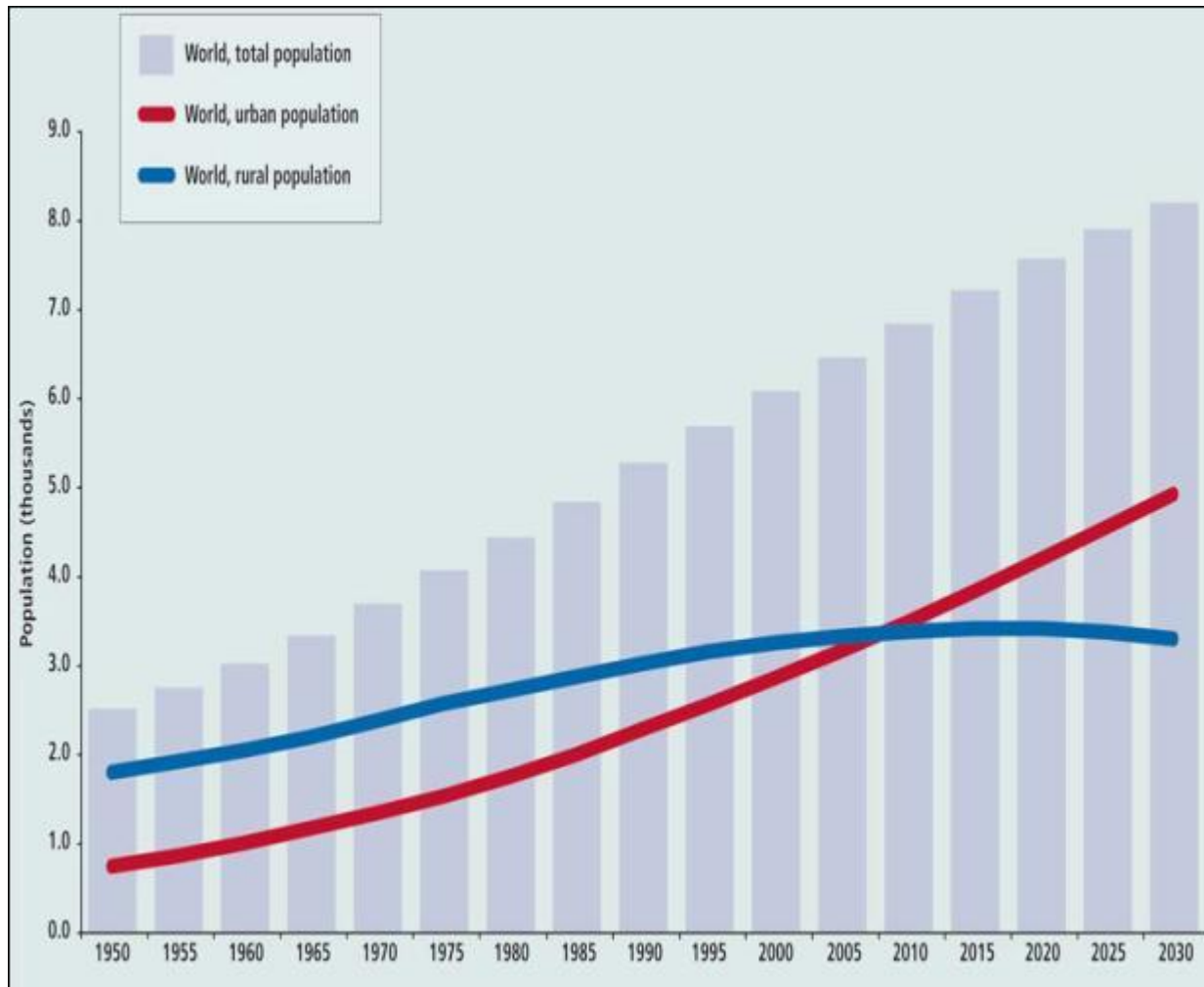
Brussels, 13 April 2011
Christof Schoser, DG Energy

● Cities are Europe's power centres

- $\frac{3}{4}$ of EU energy consumption in cities
- $\frac{3}{4}$ of CO₂ emissions



Trend towards urbanisation continues



**Worldwide
as well as
in Europe**

● All cities are unique...



● ...but there are common challenges



● **Smart Cities ‘philosophy’**

- **Identify common challenges**
- **Develop innovative, replicable solutions**
- **Bundle demand from cities**
- **Attract and involve business and banks**
- **Create markets!**



● Learning from experience: Concerto initiative since 2005

- 58 communities across the EU
- public authorities directly involved
- pioneering a comprehensive approach
- integrating energy efficiency and renewable energy



Concerto project Lyon Renaissance

● Building blocks

● Energy

- » Energy in cities
 - planning and modelling of flows;
- » Energy networks
 - electricity and heating & cooling; improved components, systems and data flows;
- » Buildings
 - insulation, holistic approach;
- » Supply technologies
 - electricity and heating & cooling, local production

● Building blocks (continued)

● Transport

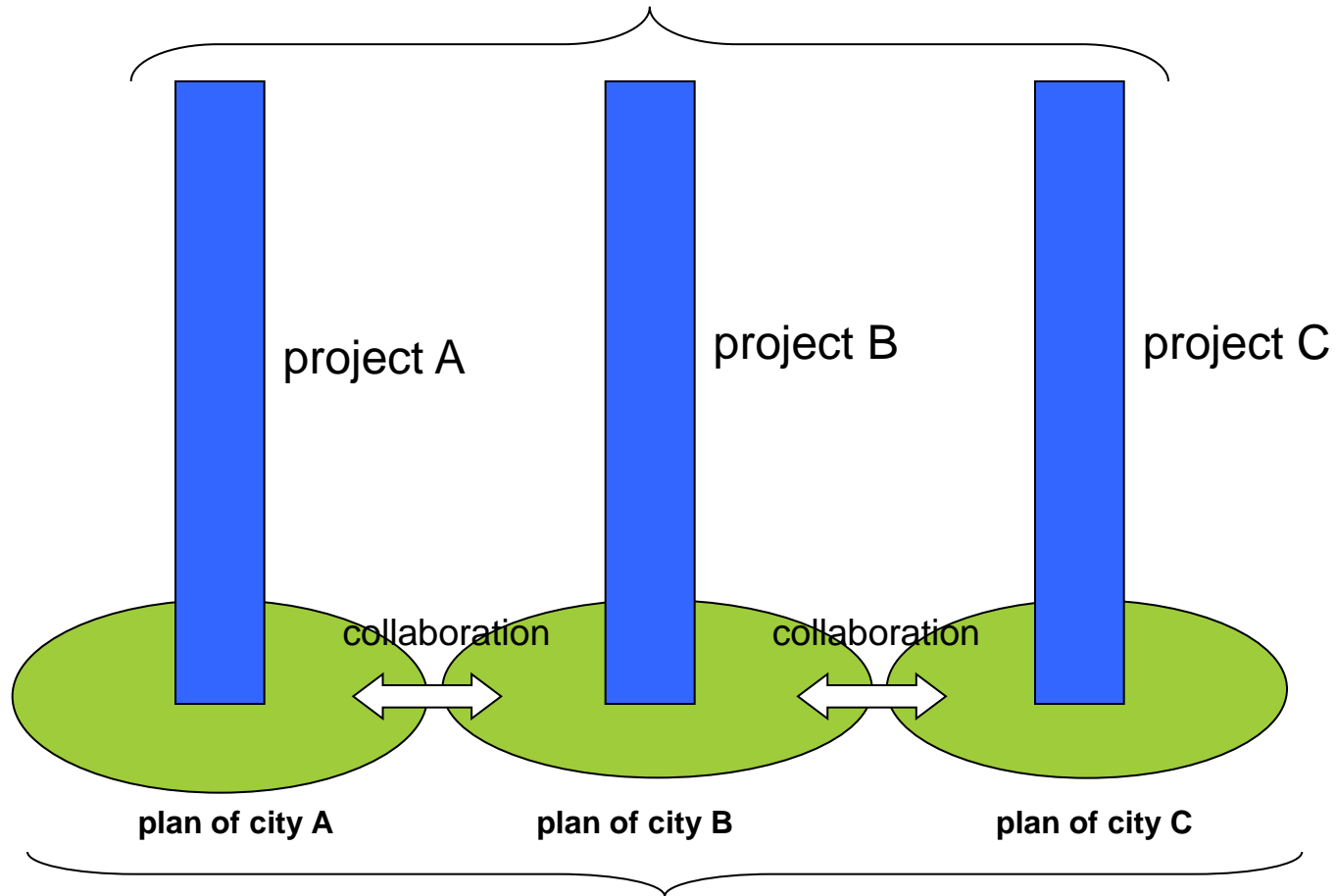
- » improve interconnections, inter-modal and co-modal transport;
- » improve public transport, non-motorised transport, passenger and freight logistics;
- » low carbon vehicles

● ICT

- » Cross-cutting applications related to energy or transport (e.g. ITS)
- » Modelling of energy flows

● Top down & bottom up

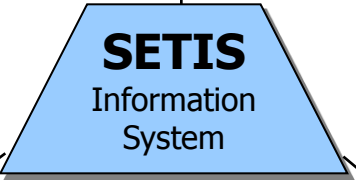
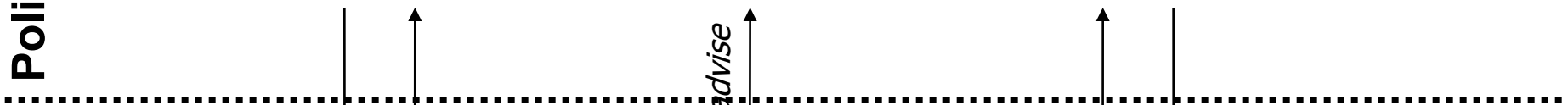
solutions to common challenges / call topics



SET-Plan Governance & Industrial Initiatives

Political level

Operational level



monitor (downward arrow)

report (upward arrow)

monitor (diagonal arrow from EII to SETIS)

advise (upward arrow from SETIS to SG)

monitor (diagonal arrow from SETIS to EERA)

report (upward arrow from EERA to SG)

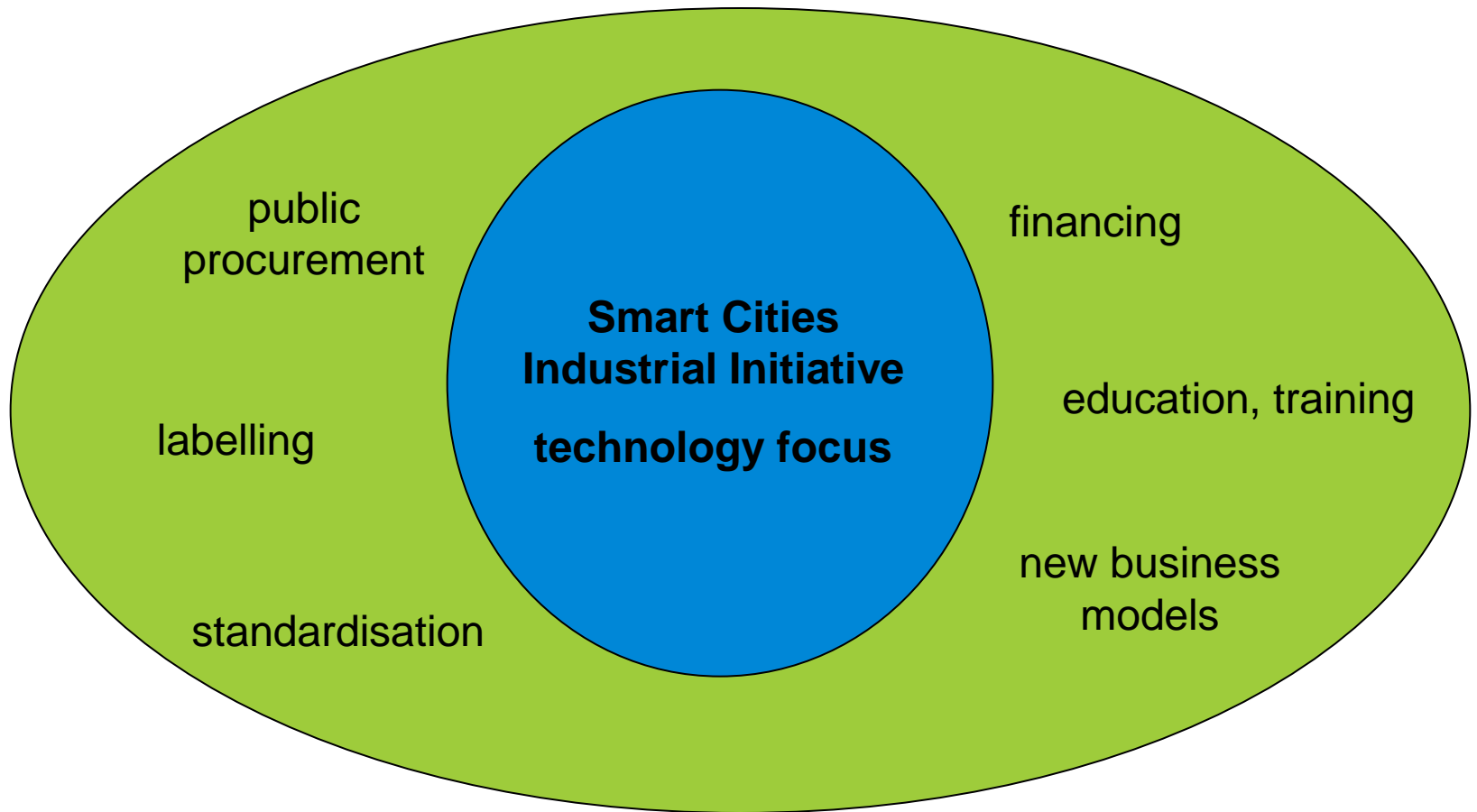
monitor (downward arrow from SG to EERA)

supporting (horizontal double-headed arrow between EII and EERA)

Arrow pointing from Technology platforms to EII



● Possible future of Smart Cities



● Process and Next Steps

- Until 11 May: Tender to establish Stakeholder Platform
- Until 13 May: Public Consultation
- June: Launch conference
- July: First call for proposals
- 2nd half 2011: establishing Stakeholder Platform
- December 2011: Closure of call



Thank you for your attention!

More information at:

http://ec.europa.eu/energy/technology/set_plan/set_plan_en.htm



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