

# What does Future Internet mean for smart cities?

- Report -

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# Context and Goal

- Smart Cities:
  - Population living in urban areas keep increasing. Size and complexity of cities keep increasing.
  - Problem: sustainability (inadequate transport systems, inadequate utility services, inadequate social services, ...).
  - Clear need for “smarter” infrastructures.
  - Future Internet may be the enabling ICT infrastructure for Smart Cities.
- Goals:
  - Understand how smart cities can benefit from Future Internet.
  - Vice-versa, understand how Smart City environments can foster research in Future Internet.
  - Networking (aka understand relations with the PPP initiative).

# Agenda

- Duncan Wilson (Arup): Soft infrastructure
  - Smart city is not just about “hard” infrastructure
  - Technology -> Community -> Value
- Fiona Williams (Ericson): Smart city technologies
  - SC technologies now
  - The way forward
  - Relations with PPP
- Dave Carter (Manchester Digital Development Agency)
  - Reality check: many cities have it in the plan, few cities take it seriously → very few results
  - SC should change completely the way of governing the city
  - Scenario building, modelling, visualizations
  - SC and open innovation / creativity
  - Getting organized: Eurocities + Living Labs + Future Internet
- Closing Panel

# SC technologies (Fiona)

- Now:
  - SC has many meanings:
    - Broadband **network** (in particular fiber)
    - **Sensors** and sensor networks
    - **Applications:** intelligent electricity grid, smart transport, e-health ...
  - In most of the cases: Focus on one domain
- Way forward:
  - Network/sensor/application layers are the correct ones, but:
    - Horizontalization of **entire** ICT infrastructure
    - Standardization **across** industry and application domains
    - Show cases, pilots, real-field cases
  - Exploit PPP:
    - Multidisciplinary, integrated approach
    - Cross-domain core platform (to avoid fragmentation and reuse component)

# Key Messages

- System of systems:
  - cross-industry, cross-domain
  - smart-city >> smart-transport + smart-hospital + smart-\*
- Entire ICT infrastructure:
  - Application/service layer plays (of course!) a key role
- The “soft” aspects:
  - New businesses, innovation, creativity ....