



sustainable city - liveable city - healthy city - sociable city - green city - eco-city - intelligent city - creative city - sociable city - good city - ubiquitous city ......

## Purpose of smart city?

- = planning tool to make cities better?
- = vehicle for **commercial** innovation? new markets
- = sea change of living conditions // electricity



## Origin of smart city?

- 1970s Smart Communities California
- 1980s Global Forum telco ICT
- 1992 UN Conference for Environment & Development Agenda 21
- 1997 World Foundation for Smart Communities California
- 2008 IBM smarter planet smarter cities







## Smart cities: industry driven

Smart City Industry = \$ 400 billion by 2020

The Community Common Properties Common Properties Common Properties Common Properties Common Properties Common Properties Common Common Properties Common Common

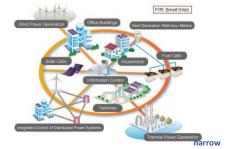


### **Industry shaped smart cities**

- smart grids at city scale -power lines, broadband, smart meters...
- reliability, flexibility, efficiency, sustainability

- central remote control metered consumption
- market enabling demand response support · latent demand coverage • consumer information

# Industry shaped smart cities





### 'Wider' smart city in Europe

- Quality of knowledge communication & smart grids
- Social infrastructure -> sustainable economic growth
- -> wise finite resource management
- -> participatory governance -> -> higher quality of life





# Agencies promoting smart cities



### **Smart City Expo World Congresses**

- Topics:
  smart thinking solutions
  urban planning and building
- sustainable built environment
- smart society
   collaborative city
- self-sufficient neighbourhood new urbanism – compact design

#### Confounding:

intelligent - digital – cyber - innovative – ubiquitous - competitive – sustainable – green – resilient – eco--- cities

- Industry aims to achieve global recognition of standards
- New industries through green revolution





- Narrow: benchmarking with compliance
  EU Aim 1: strategic partnerships
   between industry and smart cities
   to develop infrastructure of tomorrow
  EU Aim 2: develop green markets...
- Wide: Smart Communities

  // EU 2020 Climate Action Goals

  // Ecocities Goals

  narrow & wide

### Academia and smart city

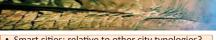
- soft infrastructure, creativity (Richard Florida)
- human capital education social relational capital
- environmental concerns measuring 'smartness'
- ICT hard and soft infrastructure combined
- · increase competitiveness with ICT • business-led urban development
- collective community intelligence
- local intelligence capacity -> local prosperity







### **Smart cities: blurred boundaries**



- Smart cities: relative to other city typologies?
   re quality of life
- Smart cities: provided by whom, for whom?
- Narrow: comfort in the home // digital cities
- Wide: ecologically responsible lifestyles aided by technology (// eco-cities)











Songdo South Korea greenfield smart city



(con)fusion of: smart – sustainable – eco-city

Stated aim:
"reproduce diversity
and vitality that
organic development
has in and of itself –
on reclaimed land"



## Smart city retrofitting: London

### Hype or reality?

smart city, world class city, zero carbon city

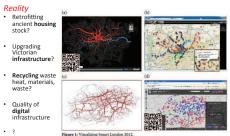
But: air pollution, congestion, social polarisation, housing crisis

- Smart London Vision
- · Smart London Board
- Smart London Plan
- Smart London Export Programme,
- Smart London Innovation NetworkSmart London Platform
- Smart Datastore (Atlas) with interactive maps





## Smart city retrofitting: London



### London: alternative smartness? THE STATE OF STATE OF

- Artists colonising redundant buildings
- Ecological community initiatives
   SMEs in Silicon Roundabout
- Transition town type barter
- Urban food growing in (semi) public realm
   Crowd sourced networks

- Occupy SXL



## **Smart cities & planning policies**

- What are their **normative** characteristics?
- Including smart city **standards** in planning law?
- Measurability: evidence base?
- Bellagio: indicators standards frameworks





### **Critique 1: The Economist Debate**

- Are smart cities an empty hype? (2014)
- No: Irving Wladawsky-Berger (IBM)





· Ludwig Siegele moderator



## Critique 2 of 'smart city'

- Peter Madden Future Cities Catapult "The whole smart city concept... well, it is marketing, you know. .."

• Patrick Geddes

"conservatory surgery to heal cities"



∑ Techno vs socio-cultural quality of urban life

## Critique 3 of 'smart city'

- Greenfield site requirement
- Central controls

   preconditions of

   'ideal type' smart city



"Just calling cities 'smart' does not make them smart"

### **Questions for CORP 2014**

#### Smart city - or simply 'city'

- How many smart cities are there?
- How many (of these) are self-designated?
- What are overlaps with other adjectified cities?
- What are their contradictions, incompatibilities?
- Does notion of smart city vary over time & space?Are smart cities improving quality of life?
- What city would like to be 'unsmart'?



