

Our quest for Smartness entails

Data analyses of economic activity, urban perception, human behaviour, mobility patterns, and resource consumption, coupled to findings of living laboratory experiments aim at:

Influencing the interventions for existing cities and strategies for the development of new cities
Identifying incentives for rebalancing of shared-use systems, and replacing the traditional one-size-fits-all urban service strategy with flexible options
responding in real-time to the needs of urban residents



Only 0,2 % of the Planet is connected today



^{IN 20 MIN}









Monitor Weather & Air Quality



Challenges for a Smart World

- The number of 'connected things' will reach 50 billion by 2020
- Current mobile networks still lack ubiquitous coverage
- Devices are too expensive and service tariffs too high
 Some challenges that the industry has to solve:
 - How to manage a complex universe of multiple types of devices? We need to sort out vital privacy and control issues
 - We need to deploy networks capable of handling traffic from things and devices
 - We need to use techniques for ubiquitous positioning of devices and things
 - We lack complete multi-industry offerings (management, security and big data issues)
 - We are not yet at the stage of suitable global connectivity solutions

Addressing privacy in a Smart World

- If an object "knows" you have purchased it, and communicates via either Wi-Fi or the mobile network, then whoever or whatever it is communicating with will know where you are.
- Your car will know who is in it, who is driving, and what traffic laws that driver is following or ignoring. No need to show ID; your identity will already be known.
- Store clerks could know your name, address, and income level as soon as you walk through the door.
 - Billboards will tailor ads to you, and record how you respond to them.
 - Fast food restaurants will know what you usually order, and exactly how to entice you to order more.
 - Lots of companies will know whom you spend your days with.
 - Facebook will know about any new relationship status before you bother to change it on your profile.

Fixing the inefficiency

- We tend to share the belief that with enough data about many complex aspects of life—including not just politics but also crime, traffic, and health—we can fix problems of inefficiency.
 - For example, predictive software now analyzes crime statistics and helps police decide where to beef up patrols.
- Algorithms track website clicks and advise journalists on what kinds of stories to write.
 - Should "intuitive knowledge" about how to deploy resources be overruled by algorithms that can work only with hard data and can't, of course, account for the data they don't have?
 - Should we give in to the sub-optimal view of life arising out of crowd based solicitation?

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Issues for Discussion

- To examine the approaches currently being adopted by cities seeking to adopt Future Internet as an enabler
- To question the agenda of issues regarding Smart Cities
- To discuss visions and perspectives of Smart Cities
- To exchange knowledge resulting from on-going experiments and demonstrations.

Conclusion



INTERNET OF THINGS LANDSCAPE



How to deal with a smart world when

- Devices acting as our agents will be able to:
 - ✓ Touch
 ✓ See
 ✓ Hear
 ✓ Taste
 ✓ Smell
- From perception we will move into action and interaction
- Extending human capabilities at which price?