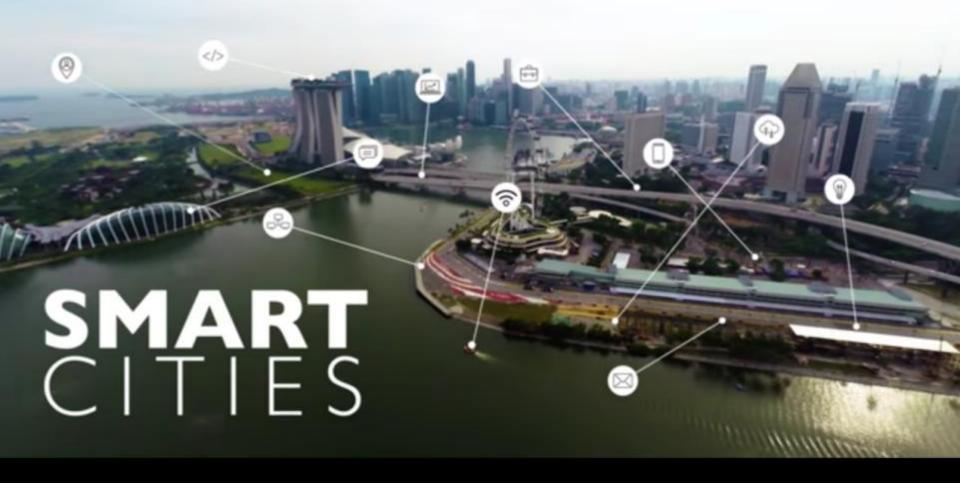
### **Smart cities in Asia and implications for governance**



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# YOKOHAMA DAY Smart City Week 2014

Nanjing Builds a Smart City with Huawei eLTE

Smart city boom in Asia

# What is a smart city?

Smart cities: applying off-the-shelf technologies to urban systems and infrastructures to solve urban challenges (Glasmeier and Christopherson, 2015).

Smart cities: a corporate vision and market creation strategy in the new urban world (Hollands, 2015; Kitchin, 2014; Soderstrom et al., 2014).

Also referred to as **corporate smart cities**.

Smart cities: Innovation platform with a civic, community, and participatory orientation (Anttiroiko, 2016; Allwinkle and Cruickshank, 2011; Komninos et al. 2013).

- "At its core a smart city is a welcoming, inclusive city, an open city. By being forthright with citizens, with clear accountability, integrity, and fair and honest measures of progress, cities get smarter. A smart city listens—and tries to give voice to everyone" (Hoornweg, 2011).
- Smart citizens are empowered with technology to access data, communicate, and engage in urban governance, becoming part of the collective brain of a smart city (Joss et al. 2017).

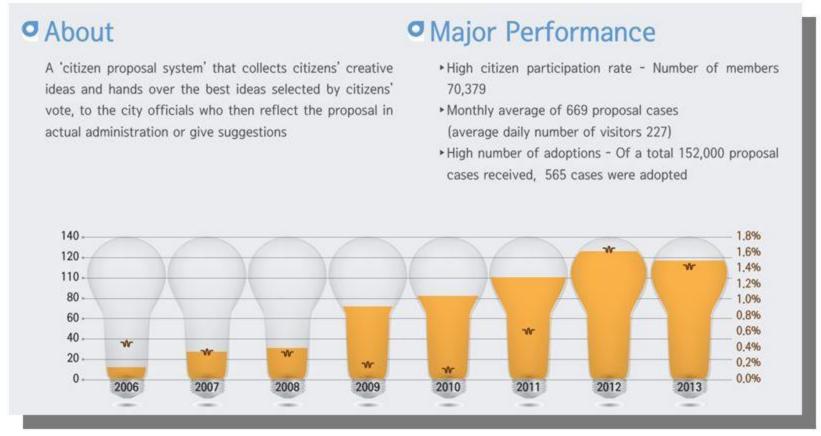
### **Smart cities and development motivations**

Some examples of smart cities in Asia as part of their government's new development strategy:

- Singapore: to serve as the next big idea after the city-state's global-city development goals, amid an impending waves of technological change and disruption.
- South Korea: to find a new source of exportable model for economic development. Also, a cornerstone project of the national government's latest announcement of Fourth Industrial Revolution as the new national development strategy.
- India: to focus on cities as the development engine, departing from its decades of rural bias. Seeks to embark on leapfrog development; smart city projects are expected to deliver 'world-class' urban services and trigger further developments in other parts of the city.
- Japan: to tackle the country's persistent concerns over efficient and sustainable energy supply and uses. Smart cities serve as showcase projects constructed by Japanese Government and the private sector, localizing and testing out new energy-related technologies and to build business models.
- United Arab Emirates (UAE): to prepare for a post-petroleum economy by promoting clean-tech industries as the next key source of economic development.
- Implications for governance?

### **Smart city Seoul example**

#### Oasis of Ten Million Imagination (2006-)



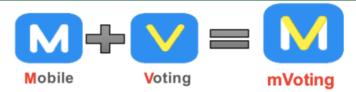
Revamped to **Democracy Seoul** (2017)—an open platform where citizens can now monitor whether and how their suggestions undergo decision-making and implementation processes.

# **Smart city Seoul example**

#### **Seoul Smart Complaint Center** (2012-)



# **Smart city Seoul example**



Citizens as prosumers of information

**M-voting** (2014) – Seoul citizens as policy prosumers.

Towards a goal of achieving cooperative governance.





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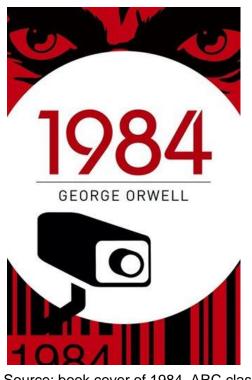
Total 4,404 agendas have been put up for citizen vote, out of which 3,889 were from citizens.

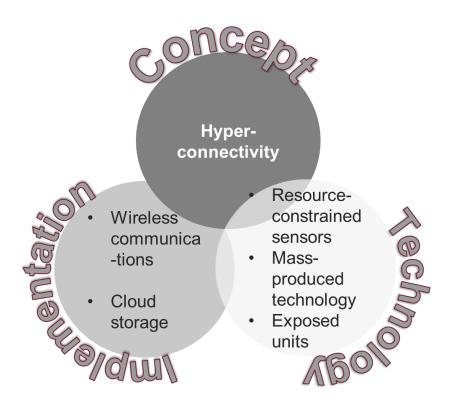
App downloads 280,000 and 1,100,000 participants (based on 2016 data).

Example of citizen participatory budgeting: Since 2015, Seoul citizens decided where \$50 million city budget is to be spent annually via M-voting.

### Potential pitfalls of smart cities

- Digital divide: "smart citizens" vs. others.
- Privatization: privatization of city spaces and data.
- Surveillance, privacy, and control issues: A dystopian vision of constantly monitored and controlled society. Who has the power?
- Cybersecurity issues





Source: book cover of 1984, ARC classics (1949)