

The smart city: Rupture or Adaptation ?

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Smart Cities' global approach : limited results in spite of the success of the metaphor. Nevertheless it gave rises to a large range of sectorial projects and some interesting new visions are emerging.

To revisit the theme, I selected three emblematic projects :

- **Singapore Smart City, the winner of the Barcelona Smart City World Awards 2018, and represents a classical approach;**
- **Quayside Toronto, the “Google city”, a new district build upon Internet and “a test bed for new technologies”**
- **ONDijon the project of smartization of all public spaces of the Burgundian metropole.**

Singapore : the fluid city



A Smart Town like the Human Body :

- The five senses to percept the environment;
- The brain to learn and adapt,
- Nervous system to convey information,
- Muscles to act, etc.

But limitation of the metaphor to a centralized system.

Smart Singapore continues the application of innovative digital technologies to improve the lives of citizens.

- **Quality of life, including for an ageing population, by a large set of digital public services, widespread mobile payments, Smart Home, health, etc.**
- **On the economic level, a logic of Freight-as-a-Service to optimize the flows and maintain its role as logistics hub of Southeast Asia.**
- **Mobility by a control of flows and the launch of an Autonomous mobility Vehicle Initiative (SAVI), with autonomous taxis to be operational by 2022.**
 - **Planification: Shadow representation of the Town.**

Quayside in Toronto : the Internet City



An City driven by data but the shadow of an Orwellian World, the Smart city of Surveillance.

October 2018 Local and Federal Governments launched with Sidewalks Labs (Google) a new district.

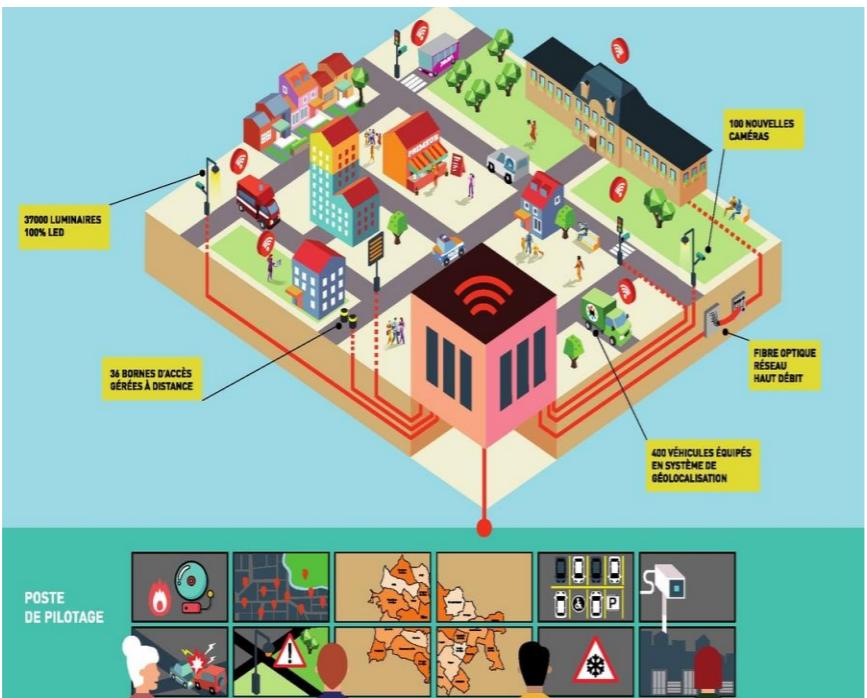
Third trimester 2019 Google issued a Master plan :

- Creation of 44000 jobs and \$14,4 billion in annual economic impact by 2040;
- Cutting greenhouse gases by 88%;
- Housing with 40% of units at below-market rates;
- More three quarter of trips by transit, cycling or walking;
- Enabling an eco-system where urban innovation can flourish

And: transparency on data governance with “the strictest urban data protection regime in the world”, informing citizens about the collection of data by appropriate signage

But resistance from the citizens to a monopolistic privatization of public spaces and of the data.

OnDijon : the City Hall on control



A private-public operation to harness new technologies to the service of the City without altering public services missions.

Data Governance under the control of the City Hall.

OnDijon was launched on 7 September 2017 with a contract of 105 million euros over 12 years to a consortium led by Bouygues Energies et Services for the management of the public space of the 24 municipalities of the territory. Ensuring

- 1. Security by setting up an urban supervision center with in particular the video-protection cameras,**
- 2. Traffic by mastering the flows and the impact of the weather conditions (Snow) in a centralized way,**
- 3. Direct communication with the City Hall through the service "Allô mairie".**
- 4. Better planning and use of all public equipment.**

The “Poste de pilotage” (Control room) inaugurated on April 11, 2019.

Smart city : Rupture or adaptation ?

Smart Singapore: Public Authority predominance but open to create a favourable environment for innovation in an authoritative way. Second role for the civil society.

Quayside Toronto : a shared governance allowing a large autonomy to the private actor but resistance from the citizens in relation to the Business model of Google in the use of data.

OnDijon traditional predominance of the public authority in a classical democratic system, but possible resistance from the civil society and risks to be less innovative

Singapore : incremental changes in a long term vision, strong governmental control through national policies , successful model but linked to a specific environment.

Quayside : dramatic change under a new paradigm questioning the equilibrium of power and paving the way for possible evolution of the Gouvernance , toward a cyborg system?

OnDijon : Adaptive change but a status quo in term of Gouvernance, nevertheless a possible European way for smartization.