

# SMART CITIES

## What kind of smart cities do we need and want?

Leicester Business Voice, February 2020

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@thecityspeaker



# The Smart City

- Smart Cities are primarily about the use of technology and cyber systems that help to manage urban life. They comprise digital connectivity, transport management, crime and security, and therefore have an impact on regeneration, resource management, economic development, and if done well, individual quality of life.
- Improved use of ICTs provide critical infrastructure and public services that are more interactive, efficient, and inclusive.

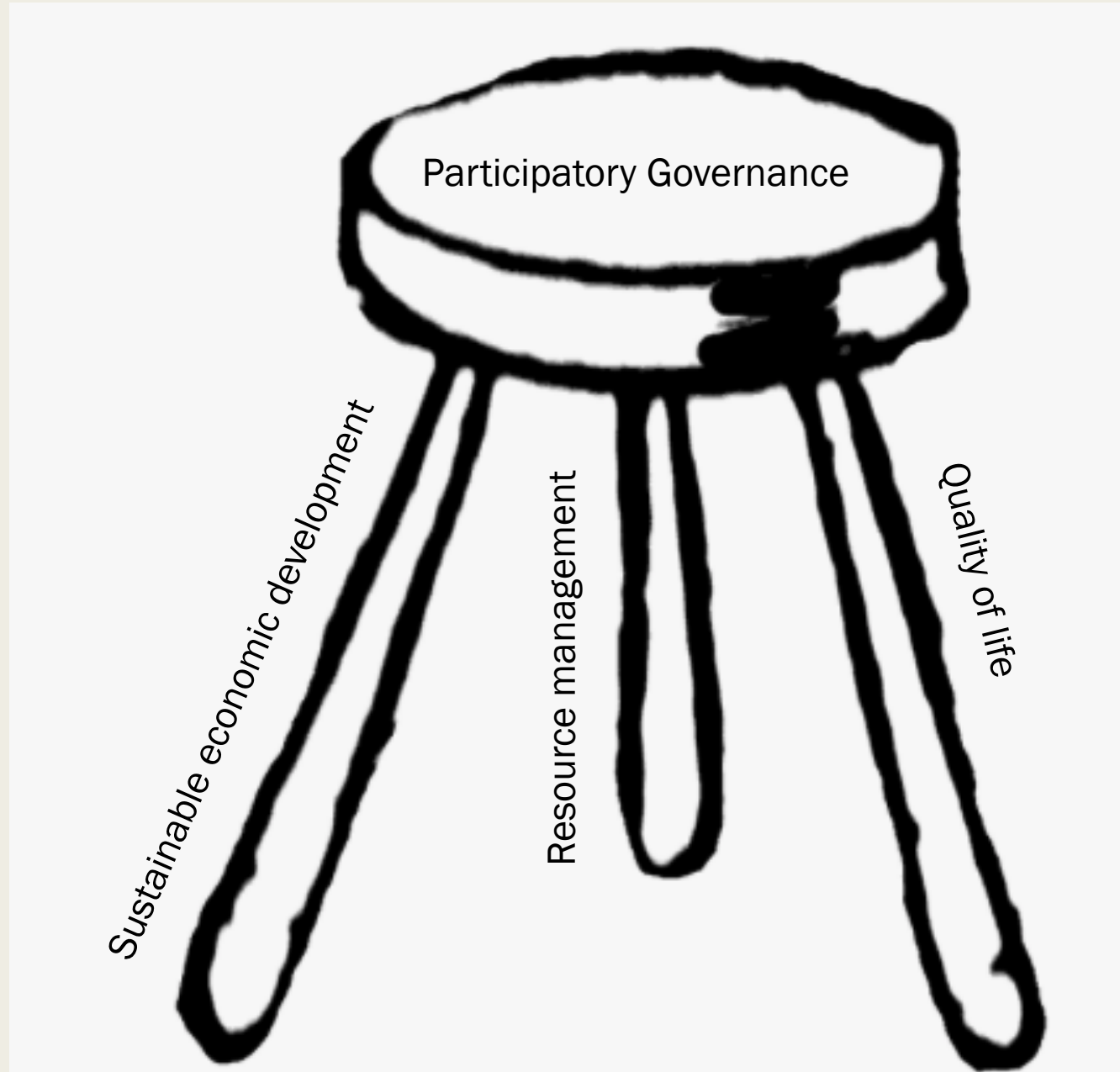
# The Smart City

- But technology is the means, not the end: the challenges involved in creating smart cities are not just about 5G infrastructure, new ways of managing traffic, or improved public transport but about the way that citizens share and use data to inform their own decision making.

# The Smart City

- Smart cities use ICTs and make smart investments in human and social capital and communication infrastructure to encourage **sustainable economic development**, higher **quality of life**, and a judicious management of **natural resources** through participatory governance.
- We might therefore conceive of the smart city as a three-legged stool, with different spheres of work (economic-social-environmental):

# THE THREE-LEGGED STOOL OF SMART CITIES



# Innovation in the Smart City

- Innovation as a core component of the smart city, encourages us to think about what sort of smart investments we need, and how we might identify these.
- Open innovation and the idea of bringing ideas from other smart cities, from wider stakeholders, and from users provides a solid foundation for Leicester businesses to consider the smart city as a growth area.

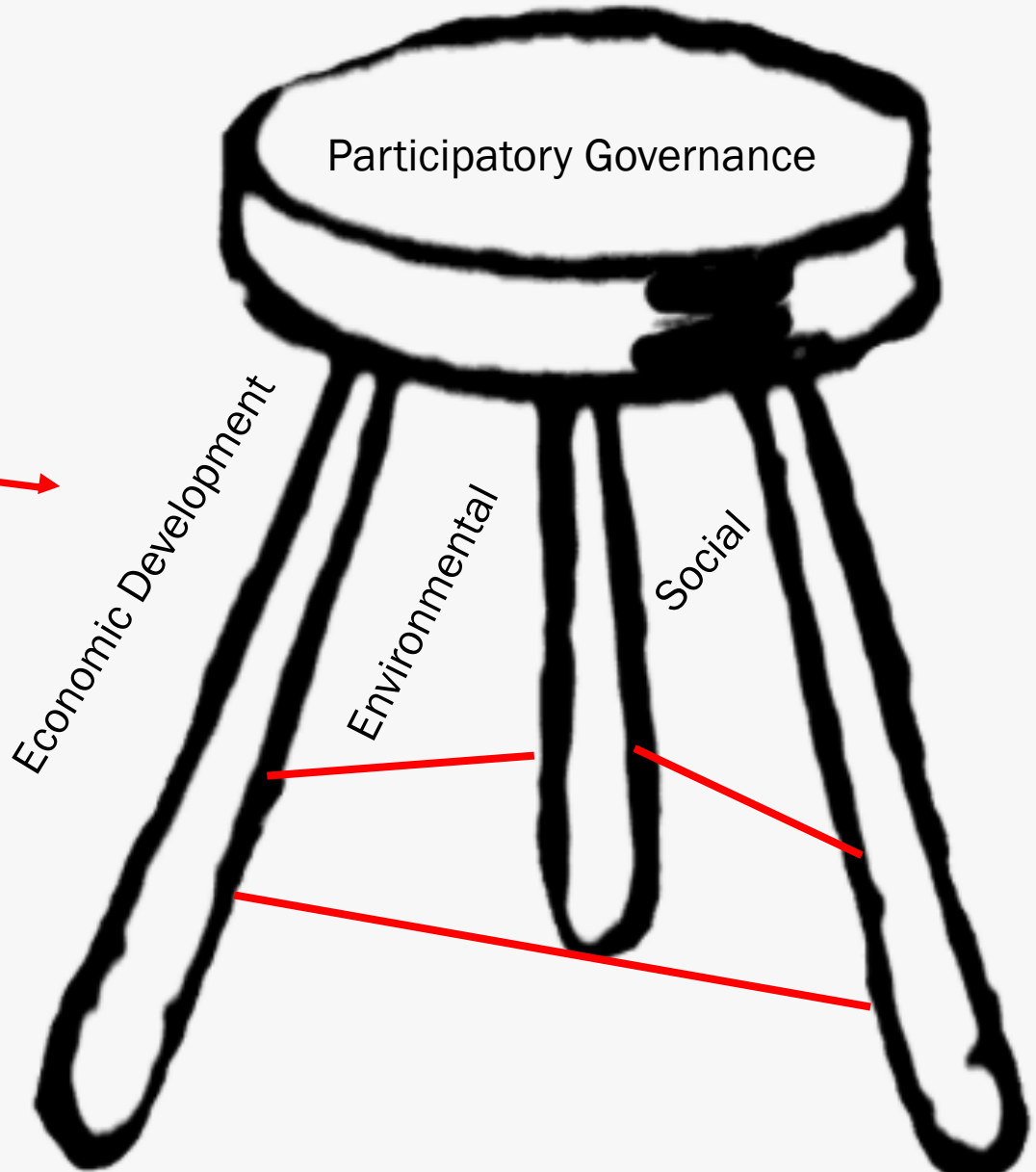
# THE THREE-LEGGED STOOL OF SMART CITIES

## Open Innovation:

Businesses use external ideas and paths to market

Businesses create user-centric products and services that the user wants

Joined up thinking and dialogue between the different spheres to gain a holistic overview

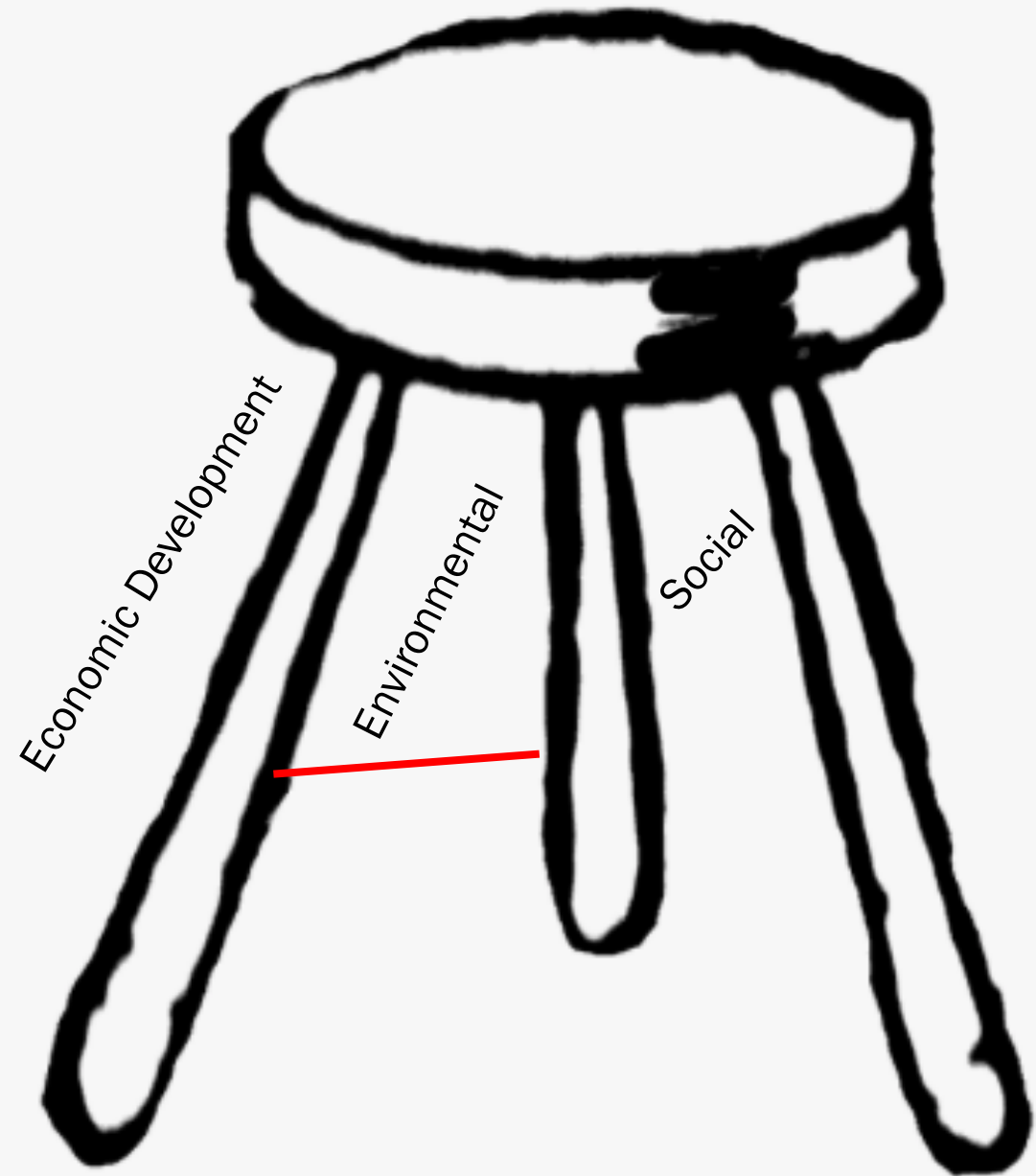


## THE THREE-LEGGED STOOL OF SMART CITIES

### Closed Innovation:

Compared this to developing new infrastructure and services that have technological prowess

...but not necessarily what society wants or will use.



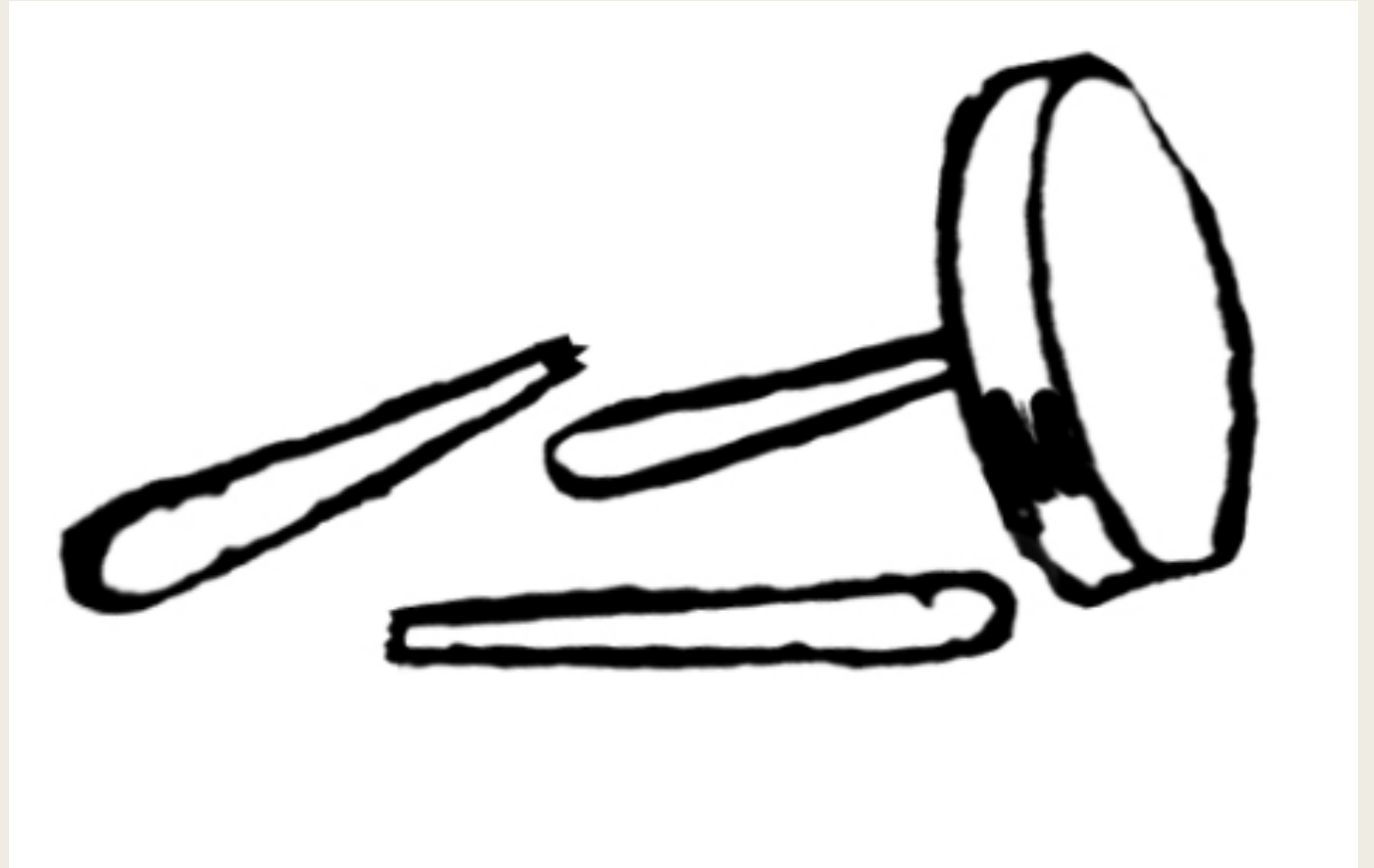


## THE THREE-LEGGED STOOL OF SMART CITIES

### Smart Cities

Smart investments and projects can produce fantastic returns on investment, but they come under the realm of the good, the bad, and the ugly!

Closed innovations tend to produce bad or ugly smart developments.

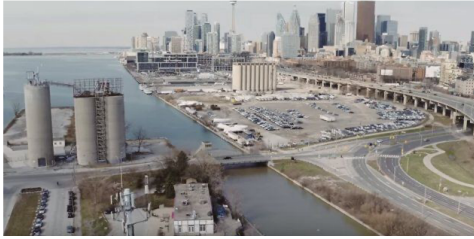




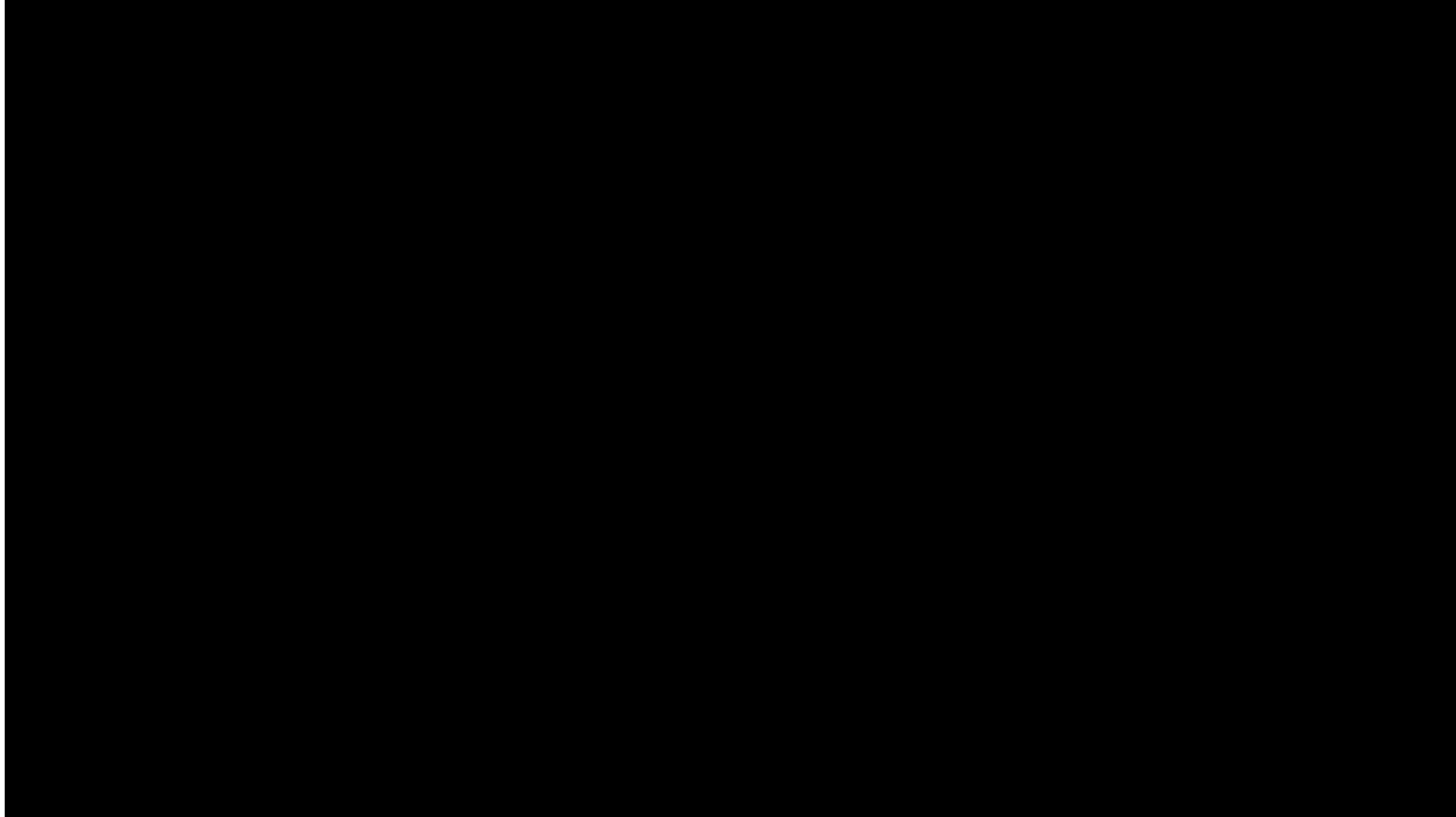
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Located just southeast of Downtown Toronto, the Eastern Waterfront contains more than 325 hectares (800 acres) of land subject to future revitalization, including Quayside and the Port Lands.

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By Jane Wakefield  
Technology reporter

🕒 18 May 2019

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# Toronto

- What went wrong for Toronto?
- Protests over the scale of 'surveillance state', which was not what local people wanted
- Also, a lack of consultation
- Smart cities require radically different infrastructure ...and people
- Top-down imposition of plans, which collect data from citizens
- The plans have had to be scaled back
- Mismatch between commercial wants and those of the population



# 'New Cities' for Smart Economy

- Smart cities require radically different infrastructure ...and people
- To produce data for smart analysis, cities need citizens to consume and produce data
- Leading to a new operating logic for citizens → and an inherent need for citizens to become 'netizens'
- But do smart citizens create Netizen Gentrification ? Cities that encourage and appeal to netizens?

# 'New Cities' for Smart Economy

- The possible conflict between citizens and netizens has led to some countries creating entirely new cities for smart activities:
- Eko Atlantic, Nigeria (Lagos)
- Modderfontein, South Africa (Johannesburg)
- Gated communities for netizens. Spaces for hyper smart activities – smart workers who produce smart analysis but also consume digitally, producing more smart data...
- Amounts to hyper investment opportunities

## What kind of smart city do we need and want in Leicester?

- To return to the original question...
- **One that balances economic growth** – environmental resources – social quality of life
- A city with co-design at its core – designing a smart city together. We need business growth - the ingenuity and agility of business – but we also need citizens to help us design the right business growth.

## What kind of smart city do we need and want in Leicester?

- New infrastructure and services needs to be:
- Fit for purpose – growth, efficiency, quality of life
- Accepted – buy-in
- Representative and Inclusive – for all, not just ‘netizens’
  
- Equally, the entire community needs to embrace and support Leicester’s *Smart Strategy*