

# SMART COMMUNITIES

Re-imagining Partnerships between  
Business and Government

JENSON SYLVESTER



***In Barcelona, smart water meter technology helped the city save \$58 million annually.***

***In South Korea, one city cut building operating costs by 30% after implementing smart sensors to regulate water and electricity usage.***

# “SMART” Definition

**Economic development**

**Sustainability**

**Higher quality of life**



Citizen and stakeholder engagement

Predictability

Cost avoidance

New products and services

Competitive advantage

Open data and transparency

Manage risk

Increase productivity

Better citizen service

Innovation



Big data and analytics



Mobility



Social



Cloud

City services



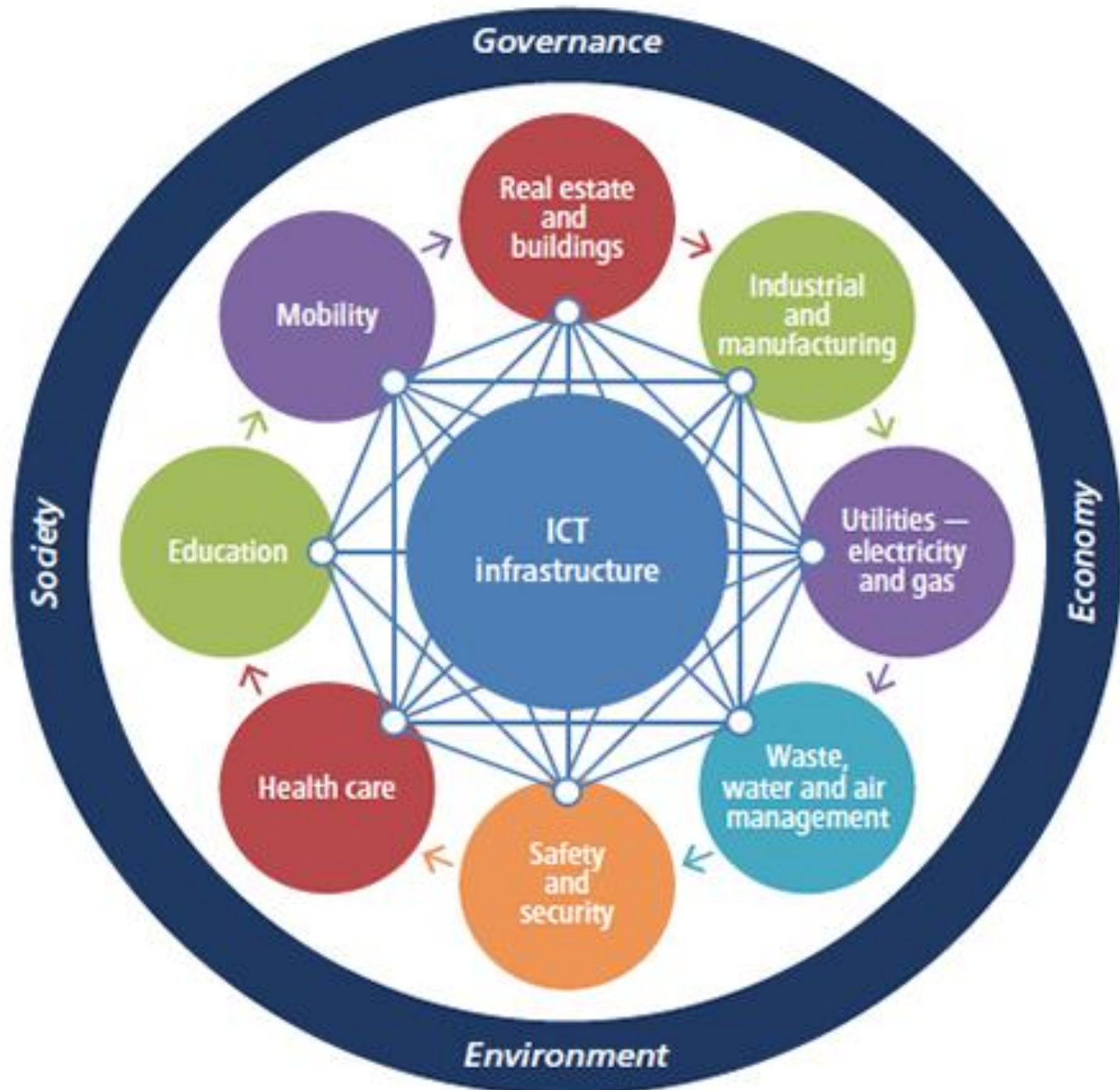
Value generation



Business imperatives



Enabling technologies



## GREEN CITY

Green Infrastructure  
Smart Energy & Utilities  
Transport efficiency



## ENERGY & UTILITIES

Power Generation Optimization  
Grid Protection  
Intelligent Utility Network



## TRANSPORT

Urban Mobility Solutions  
Airport /Railway Mgmt  
Fleet Optimization



## EDUCATION

Analytics and research  
School Solutions  
Video Conferencing



## HEALTHCARE

Remote Monitoring  
Asset Management  
Telemedicine



## SMART BUILDINGS

Energy Optimization  
Appliance Integration and Control  
Smart Metering



## PUBLIC SAFETY

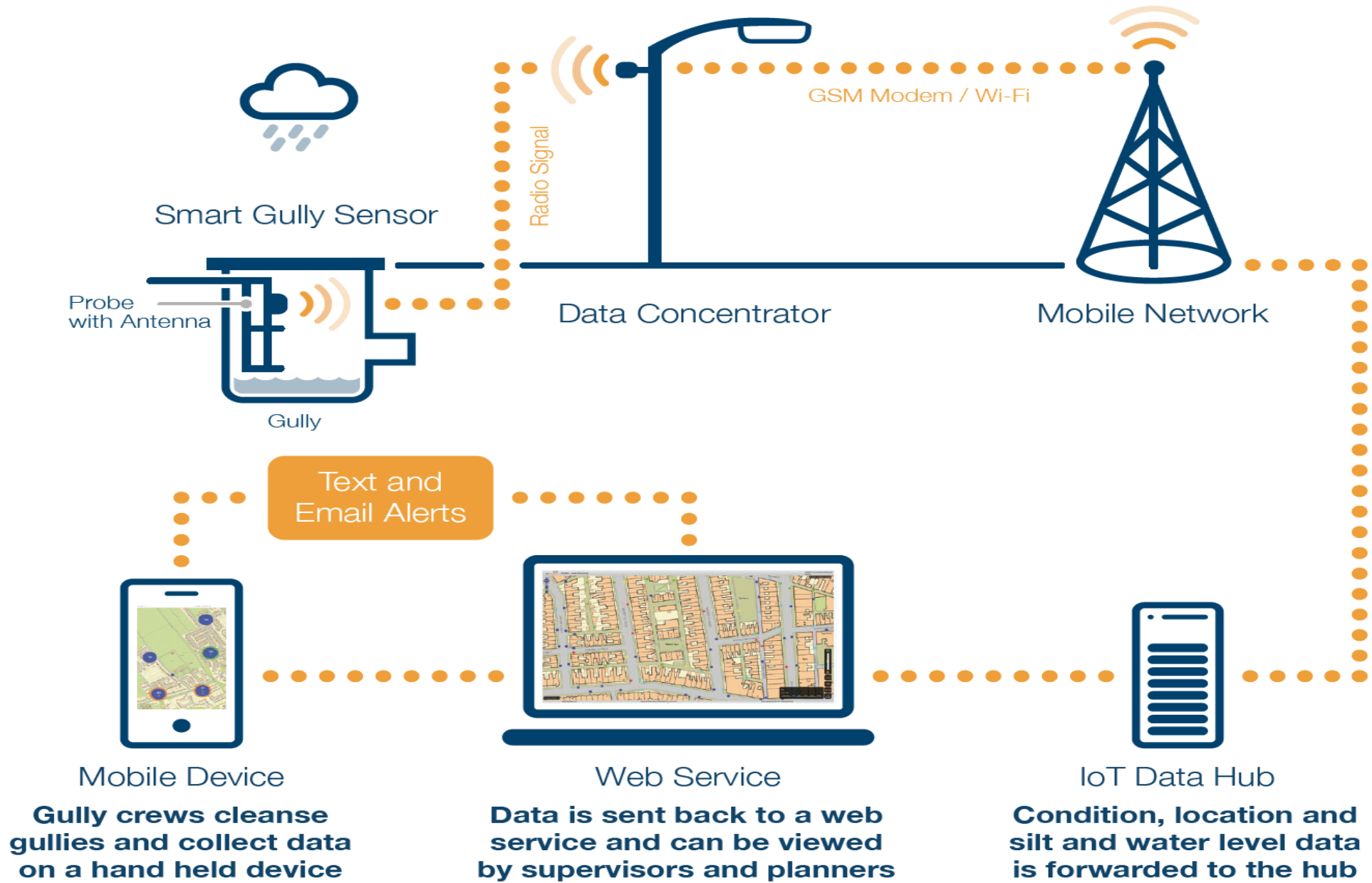
Law Enforcement  
Emergency Management  
Security and Surveillance



## E-GOVERNANCE

Online Records  
Compliance Mgmt  
Payment Portals





**Text and email warning alerts are issued for predicted and actual flood events**

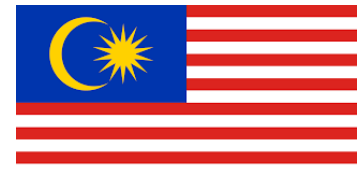
# A REAL WORLD EXAMPLE

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# Kemaman



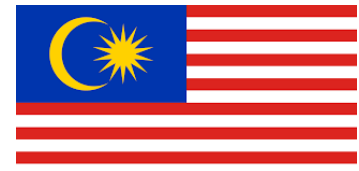
Population – 404,338

- Twice the size of Barbados

Area- 2,535 Sq km

- Half the size of Trinidad

# Kemaman



## Flood Management

- leverage an ICT platform in managing flood disaster.



## Hackathon

- participants pitch, programme and present a functioning Android mobile application within 24 hours.



## Open Innovation lab

- drive innovation, creativity and entrepreneurship & maximize opportunities in the market that can be capitalised.



## Film competition

- The production of a documentary on the 'Malaysia's Flood Warriors'



## Pusat Internet 1 Malaysia (PI1M)

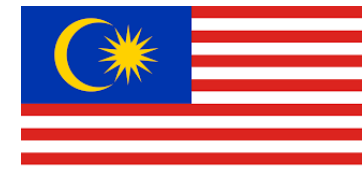
- an initiative which will provide collective broadband access in rural and sub-urban areas



## Lifelong Learning

- leveraging ICT platform to enhance knowledge of community

# Kemaman



The screenshot displays a hydrological modeling software interface. On the left, a 'Model Group' tree lists various components: Chukai Floodway 28.06.2012, floodway - 100m#1\_3#1, Event\_20ARI 72hrs#2, Ground Model TIN Group, Layer List Group, and Floodway. The 'Floodway' group is expanded, showing sub-models like test23, test23\_Exs, and Event\_20ARI 72hrs#3. Below the tree is an 'Output Window' with columns for Code, Priority, Object Type, and Object. The main workspace shows a 3D topographic map with a blue floodway network. An inset window titled 'Connectivity J13.51.1 t...' displays a flow graph for 'Flow (m3/s)' over time, with a peak around 8/1/2012 and a total flow volume of 133293376.518 m3. A 'MORE VIDEOS' button is visible in the bottom left corner.

# Key Principles of Smart Community

Replicability,  
Scalability, Reachability  
& Sustainability



Bottom Up  
Approach



Local Champions



Infrastructure  
Improvement



Role of Local Authorities  
(Top down leadership)



Local Content &  
Application  
Development



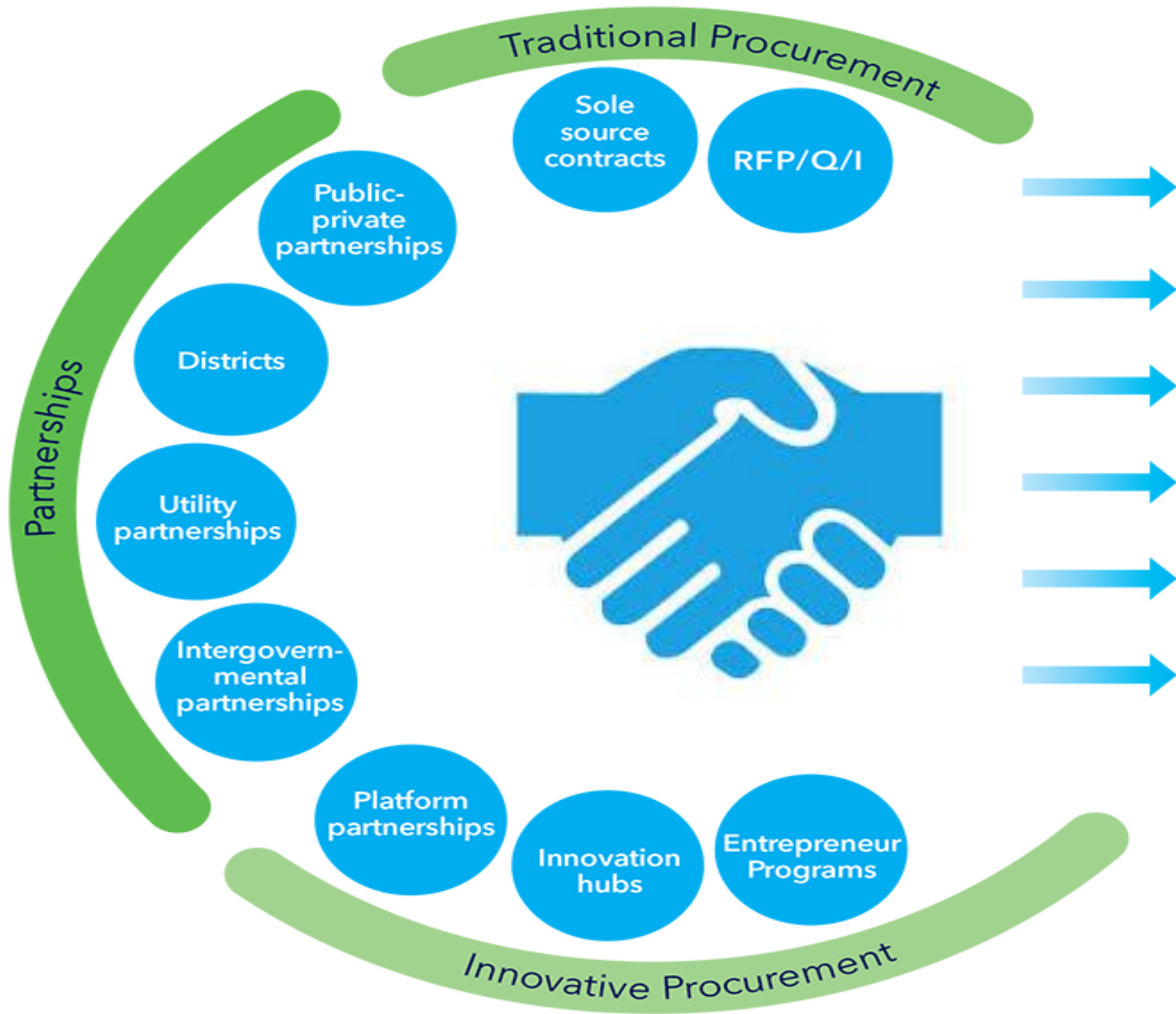
Collaboration with  
Institutions



# PARTNERSHIP CONSIDERATIONS

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## Key Benefits

- Resilient infrastructure/  
enhanced adaptive capacity
- Culture of innovation
- Useful real-time data
- Efficient use of resources  
(cost-savings)
- Lower carbon society
- More private capital  
investments
- Open data and open  
dialogue in community

# THANK YOU

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