



University of Central Asia

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Smart cities for

Inclusive Development

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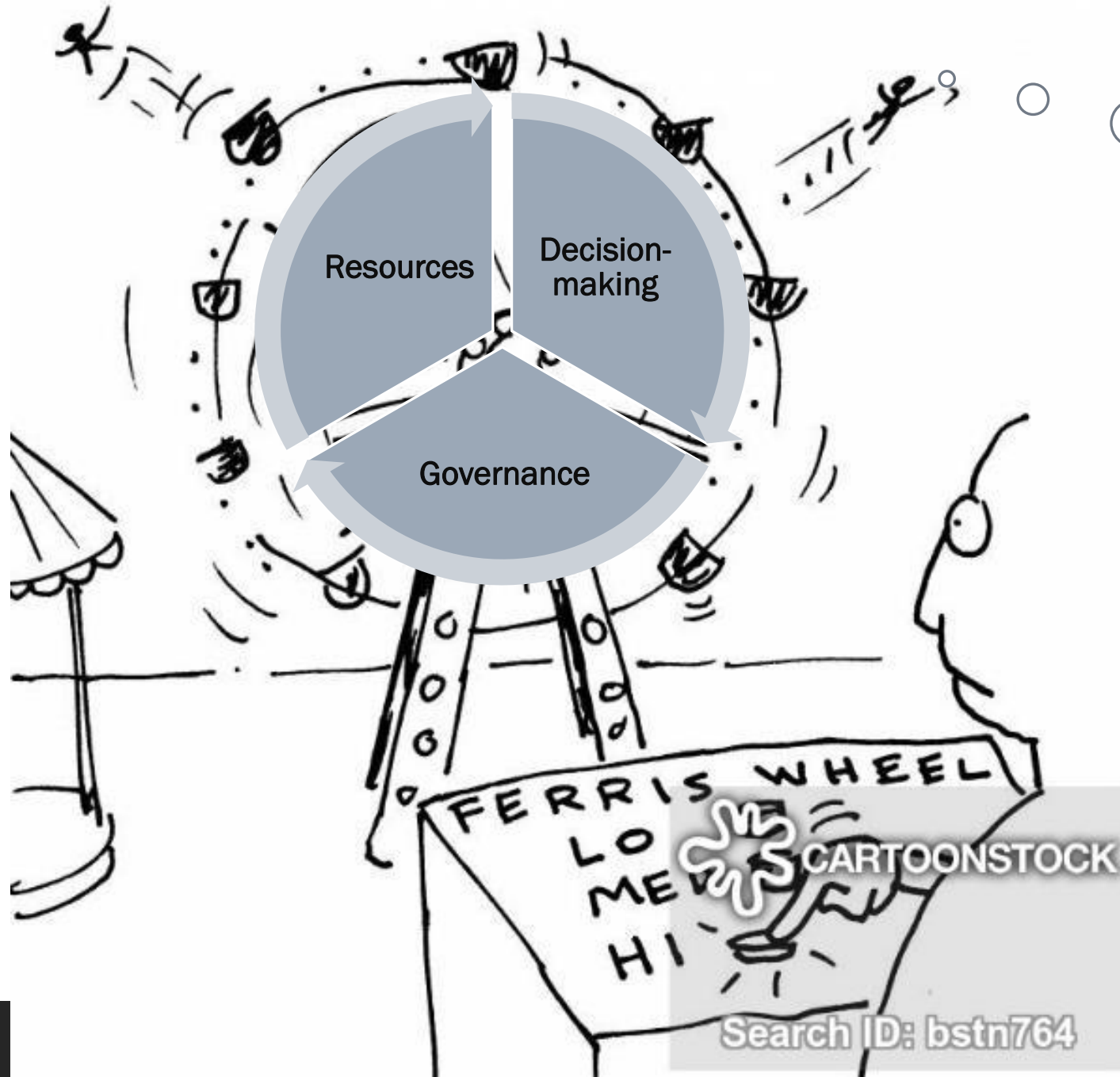
NATIONAL DELEGATE OF ISOCARP



OECD definition of SMART CITIES

“Initiatives or approaches that effectively leverage digitalisation to boost **citizen well-being** and deliver more **efficient, sustainable and inclusive** urban services and environments as part of a **collaborative, multi-stakeholder process**”

Technologies can bring you to a new level of development...



What about measuring the impact?

SMART CITIES need SMART POLICIES

SMART USE OF RESOURCES



Finding optimal solutions & efficiency in service delivery



Equal access to opportunities & benefits



Finding optimal solutions & efficiency in service delivery



<https://iwa-network.org/events/iwa-world-water-congress-exhibition-2018/>

Case: Tokyo (Japan)
The installation of sensors on water pipelines

Results: Saving more than a hundred million of litres of water per year by reducing leaks



Finding optimal solutions & efficiency in service delivery

The city of Dijon (France) case - public service reengineering:

- To reduce costs significantly by 65% on the energy bill related to **street lighting**;
- To upgrade and better manage urban equipment - planning **repair and renewal**;
- Better co-ordinate services - **road network maintenance** and **waste collection**;
- To improve **public safety** via centralised solutions for crisis management.



Equal access to opportunities & benefits

Case: Italy - Metropolitan Cities 2014–2020 programme funded by the European Union

Aim: promotes the renewal of urban services and fosters urban inclusion by **empowering disadvantaged groups**.

Participants: Fourteen metropolitan cities and areas, including Milan, Turin, Venice, Bari, Naples, Palermo and Rome.





Equal access to opportunities & benefits



Smart Cities Challenge programme winners:

- i) the town of Bridgewater and its proposal addressing **energy poverty**,
- ii) Nunavut Communities and its project on **suicide prevention**,
- iii) the City of Guelph and its project on circular food economy to reduce waste and **increase local food production**,
- iv) the City of Montreal and its plan to **improve mobility for all residents** and manage food insecurity.

SMART DECISION MAKING



Legal grounds & innovation



Data security & capacity



Legal grounds & innovation

The Korean smart city initiative includes four main pillars:

- i) research and development;
- ii) deregulation;
- iii) a national pilot programme for smart cities;
- iv) the Smart Solution Challenge - private companies can receive up to 20 million USD for three years to develop smart city projects.



Data security & capacity

Korea faces three main concerns:

- privacy;
- the smart divide;
- cost.



Data security & capacity

Smart cities & regulatory adjustments in Korea

Category	Details
Personal information	Removes data privacy protections if identification markers are stripped
Driverless vehicles	Allow video recording equipment in vehicles for R&D purposes
Drones	Simplified reporting on videos/images taken for R&D and safety purposes
LAN	Broaden public telecom providers to connect to private networks
Software development	Allows conglomerates to bid on public tenders for software
Land use	Allows developers to enter private contracts for the land sale to companies

Source: Intralink (2019_[16]), Market Intelligence Report: Smart Cities, South Korea, Department for International Trade of UK

SMART GOVERNANCE



Balancing public & private interests



Public engagement



Balancing public & private interests

Key Smart city stakeholders in Japan:

- technology developers and service providers - ***who make technology;***
- city developers - ***who add technology;***
- city administrators - ***who use technology;***
- residents and local companies - ***who purchase technology.***



Public engagement

Case: The German government held public consultation about the directions to take on Open Government Data www.open-data-aktionsplan.de/ in 2015

Results: The public online consultation allowed the public to influence the national government's open data action plan.

Thank you for your attention!
