



Srdjan Krčo

Smart City Infrastructure and Services

Warsaw, 26.09.2012

IN THE BOOK “EVERYWHERE”...

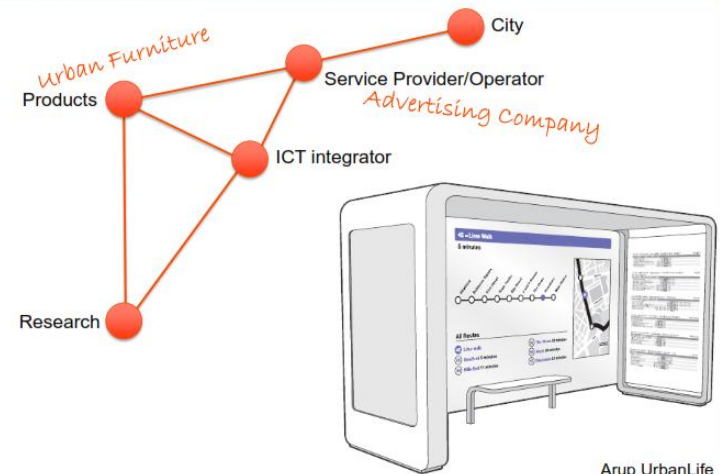
- Everything that can be digital, will be.
- ...everything digital can by its very nature be yoked together, and will be.
- The logic of “convergence”
- **Everything connects**

OUTSMART OBJECTIVES

- Establishing a
 - **Future Internet enabled eco-system for cities**
- Supporting creation of
 - **innovative services** with real value to the European economy and citizens



Creating New Value – Intelligent Bus Stop



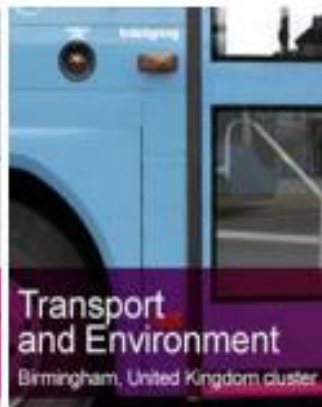
Arup UrbanLife



OUTSMART – ESSENTIAL SERVICES

Sheldon Cooper: *"...we have to take in nourishment, expel waste and breathe in enough oxygen to keep our cells from dying. Everything else is purely optional."*

OUTSMART: *"Essential city services are: the **Utilities** including water, energy, mobility and waste removal as well as the **Environment**."*

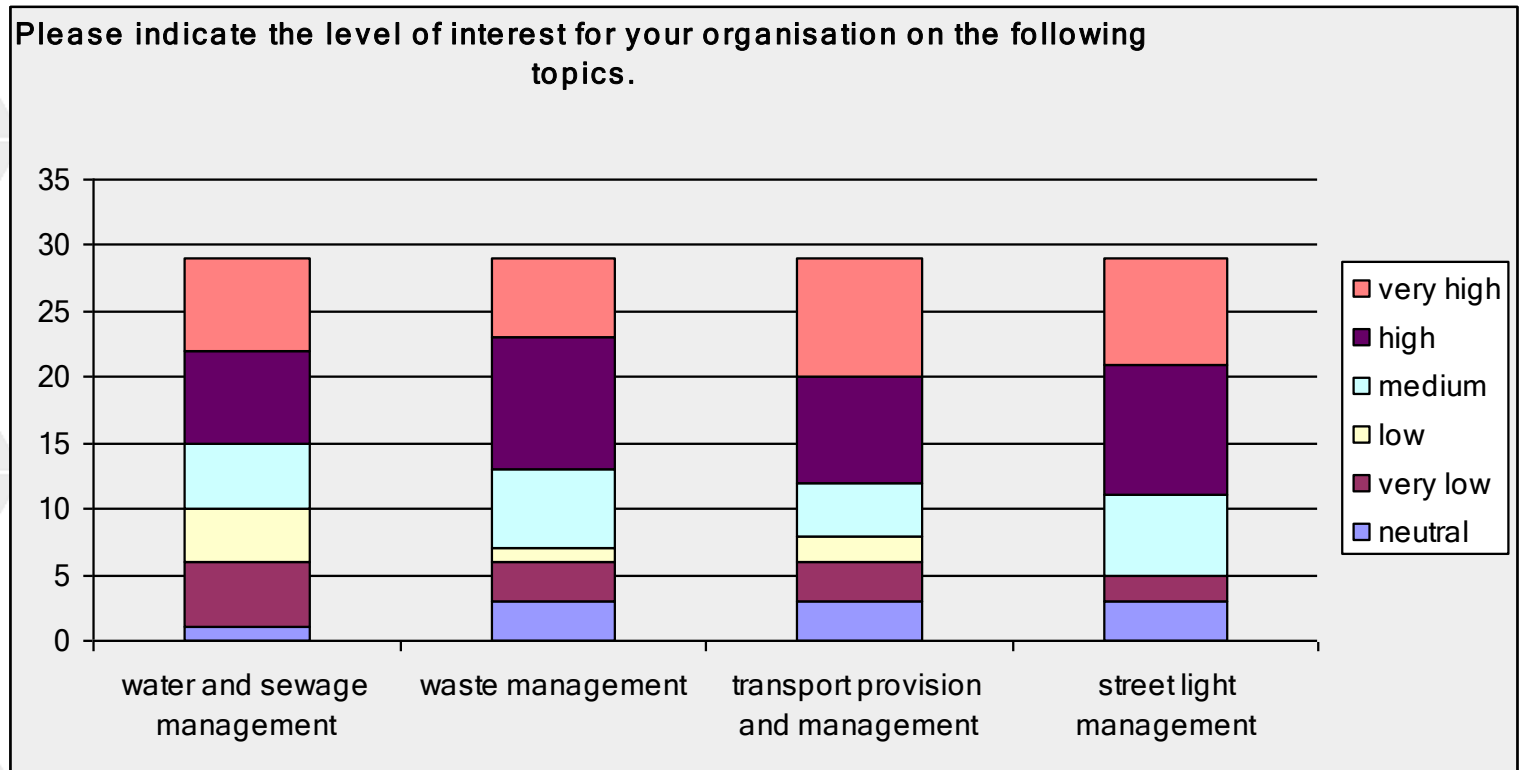




External Users Insights

- To find out to what extent OUTSMART use cases were deemed of prime importance by cities/regions
- A questionnaire was sent to:
 - OUTSMART Stakeholders cities (15)
 - INFINITY contact list of cities (53)
 - Covenant of Mayors (39)
- 31 answers received

Global interest in OUTSMART use cases

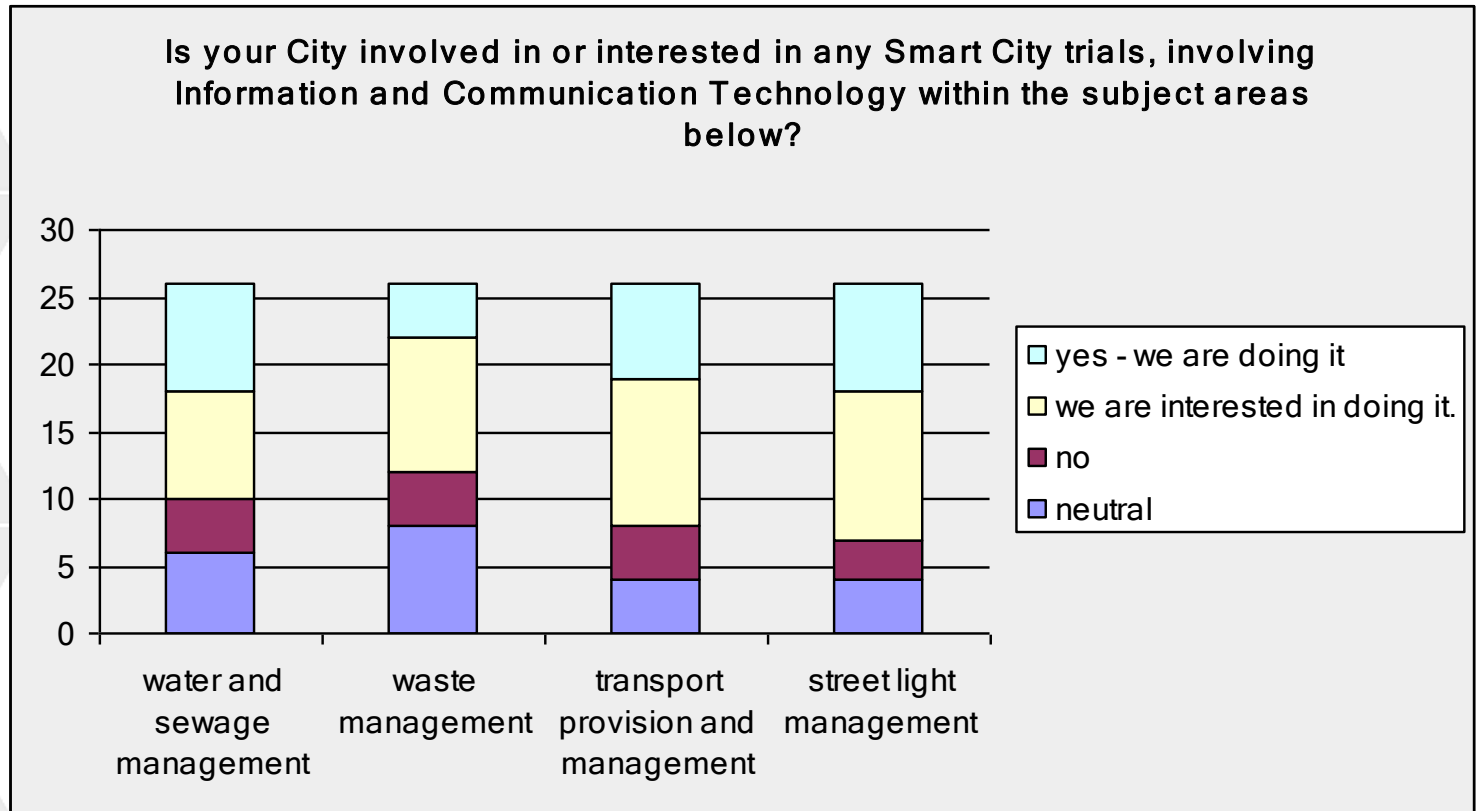


29 answers

50% or more use cases

of **very high** or **high** interest

Smart City Trials



26 answers

30% cities have already field trials for

- Street lighting
- Water management

27% in transport

WATER AND SEWAGE – ACCESS TO OPEN DATA

- Open up data from utility company to use it more « freely »
 - sharing between utilities for efficiency
 - Internal use for innovative services/applications
 - External use for research, education and experience.
- Leak detection



Badning kan i nogle tilfælde medføre sundhedsrisiko. Flagene på kortet viser badevandskvaliteten i dag. Klik på et flag viser prognose for badevandskvalitet og strandvej de kommende dage.

- God badevandskvalitet
- Dårlig badevandskvalitet
- Badevandsprognose under udvikling
- Badested lukket for sæsonen

Spring direkte til din kommune eller strand.

Alle kommuner
Se badevandsprognose for strand...

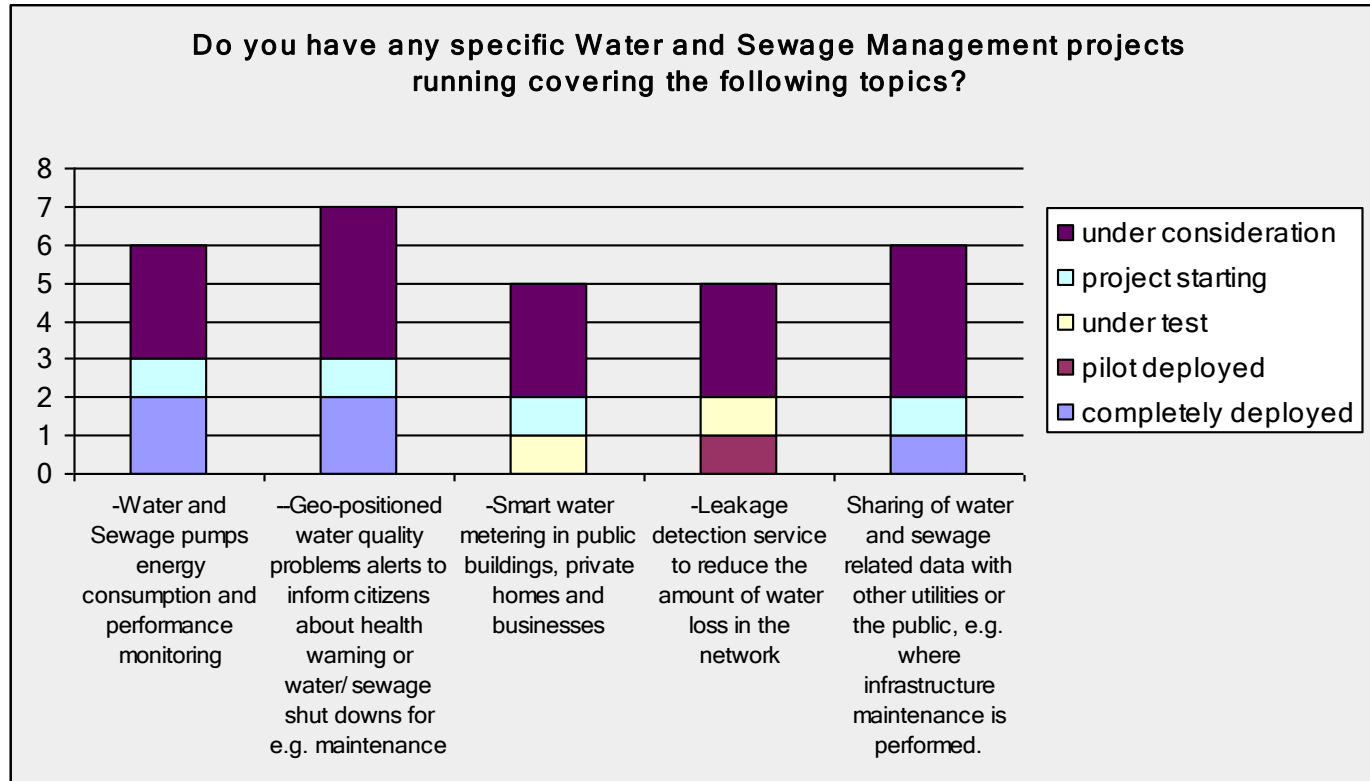
Du kan også få badevandsprognosen til iPhone og Android. Søg efter "badevand" eller klik herunder.



Badevandsudsigten bygger på en avanceret computersimulering af strøm, vandtemperatur, m.m. langs kysterne, samt - når der sker udledning af spildevand til havmiljøet - af koncentrationen af fækal indikatorbakterier ved badestrandene (badevandskvaliteten). Læs om detaljerne i [den tekniske beskrivelse](#).



Water and Sewage Management



7 answers

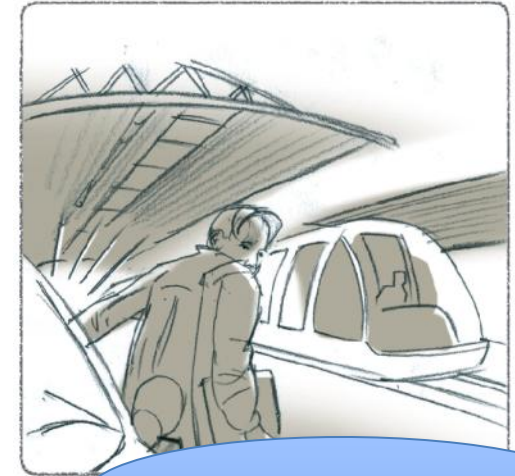
- All 7 entities have projects running or under consideration on geo positioned Water quality problems alerts.
- 6 have projects on the sharing of Water and Sewage related data with other utilities or the public, and on Water and Sewage pumps monitoring

SUSTAINABLE URBAN TRANSPORT

Car or train?



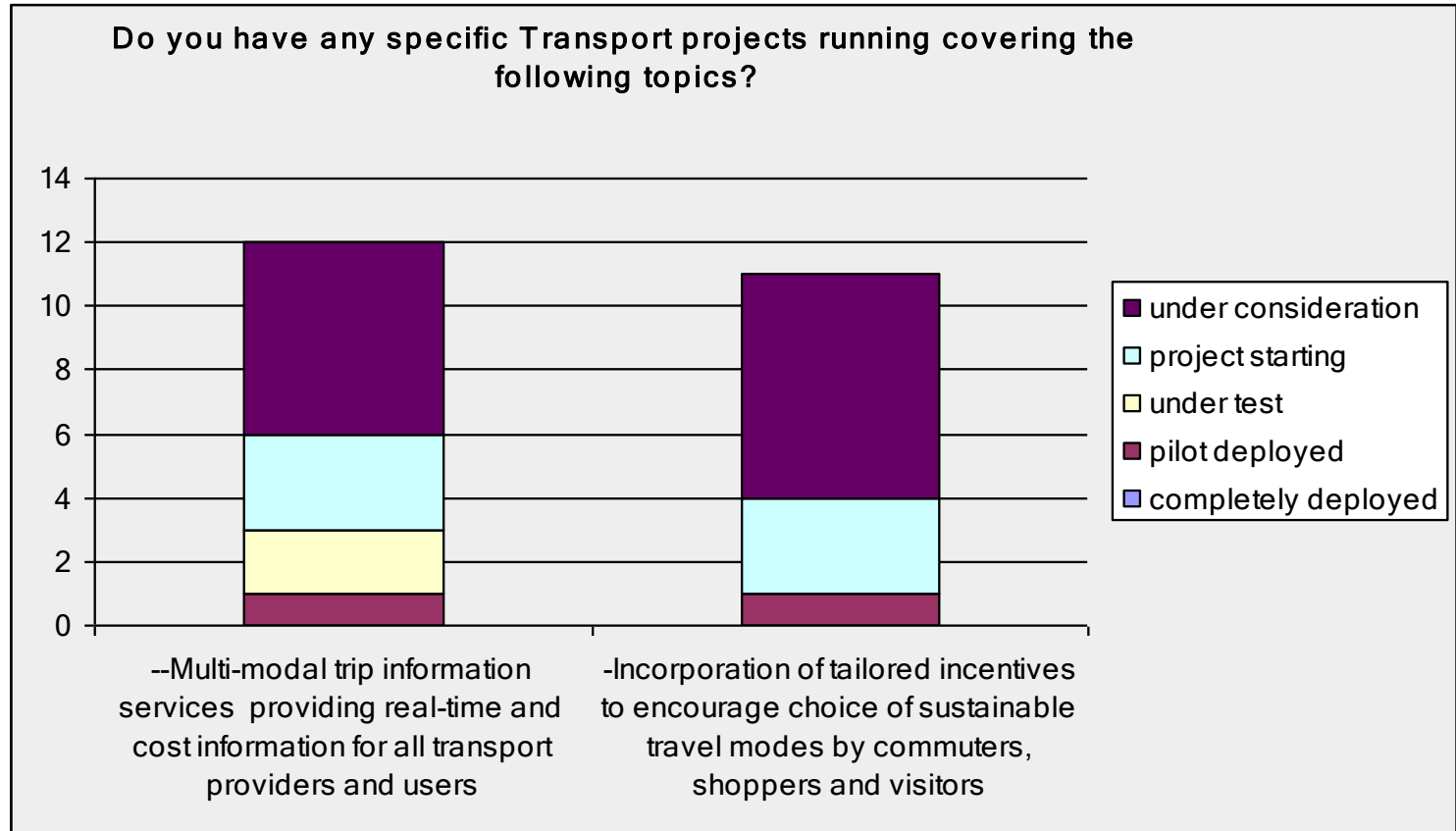
Good choice!



// Birmingham:
service: *intelligent commuter
concept: *open data



Transport Management



12 answers

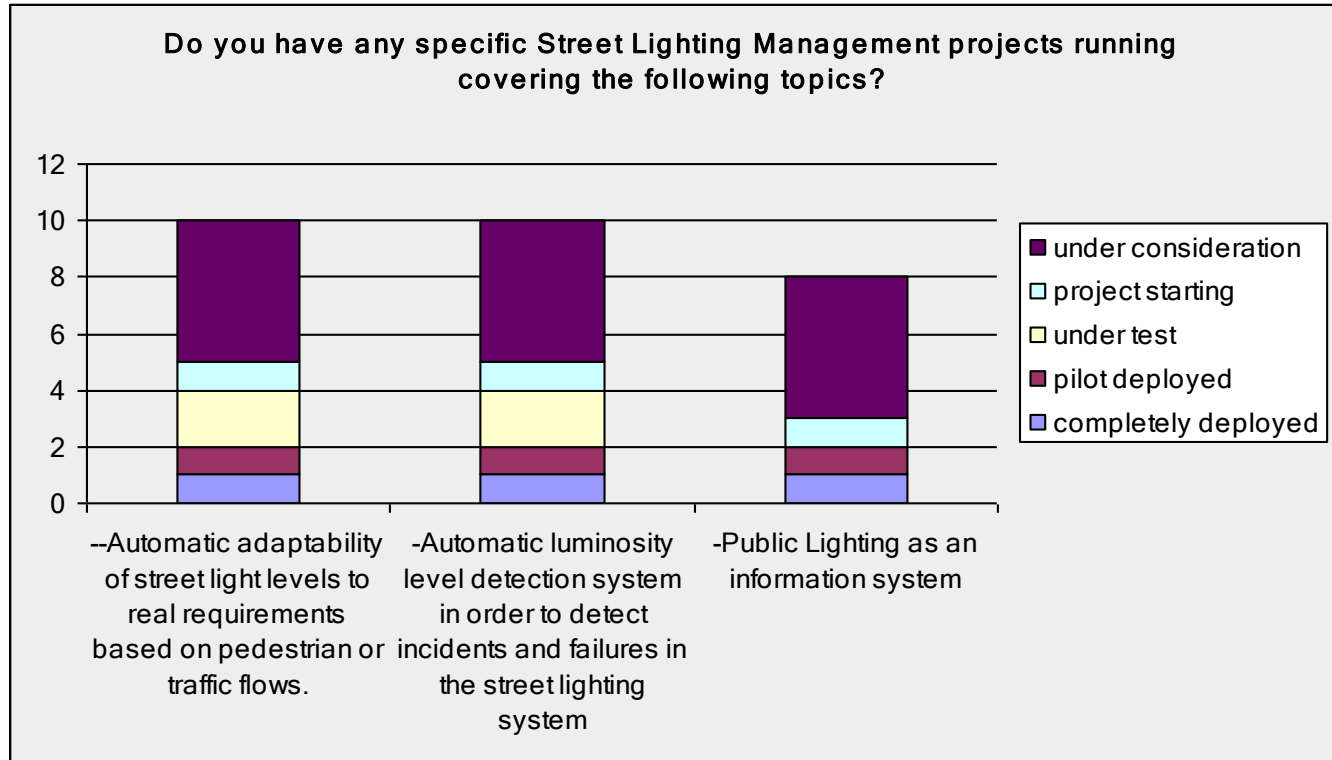
- All 12 were interested by the multi-modal trip information service
- 11 by the incentive program for sustainable travel modes

SMART STREET LIGHTING



// Santander:
service: *visualisation and efficiency
concept: *internet of things

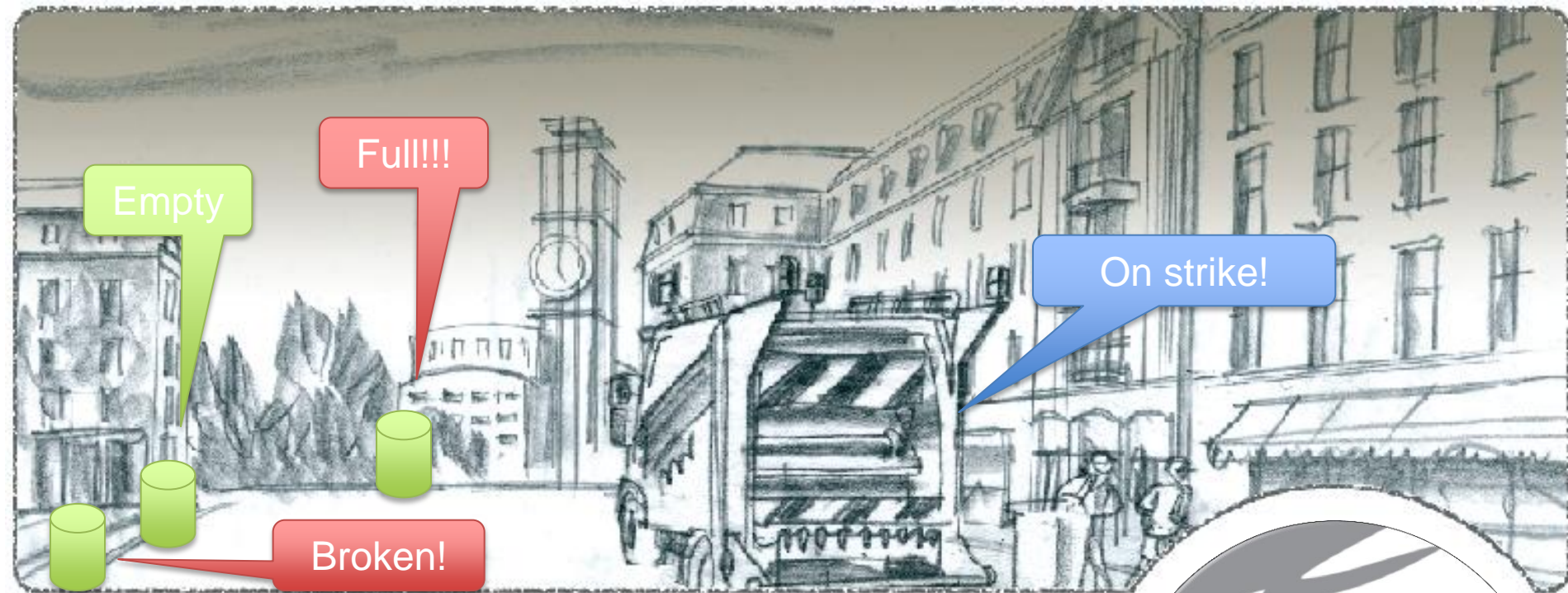
Street Lighting Management



11 answers

- 10 entities have plans for automatic adaptability of street light level to pedestrian or traffic flows, and for automatic street lighting failures detection.
- 8 entities for public lighting as an information system

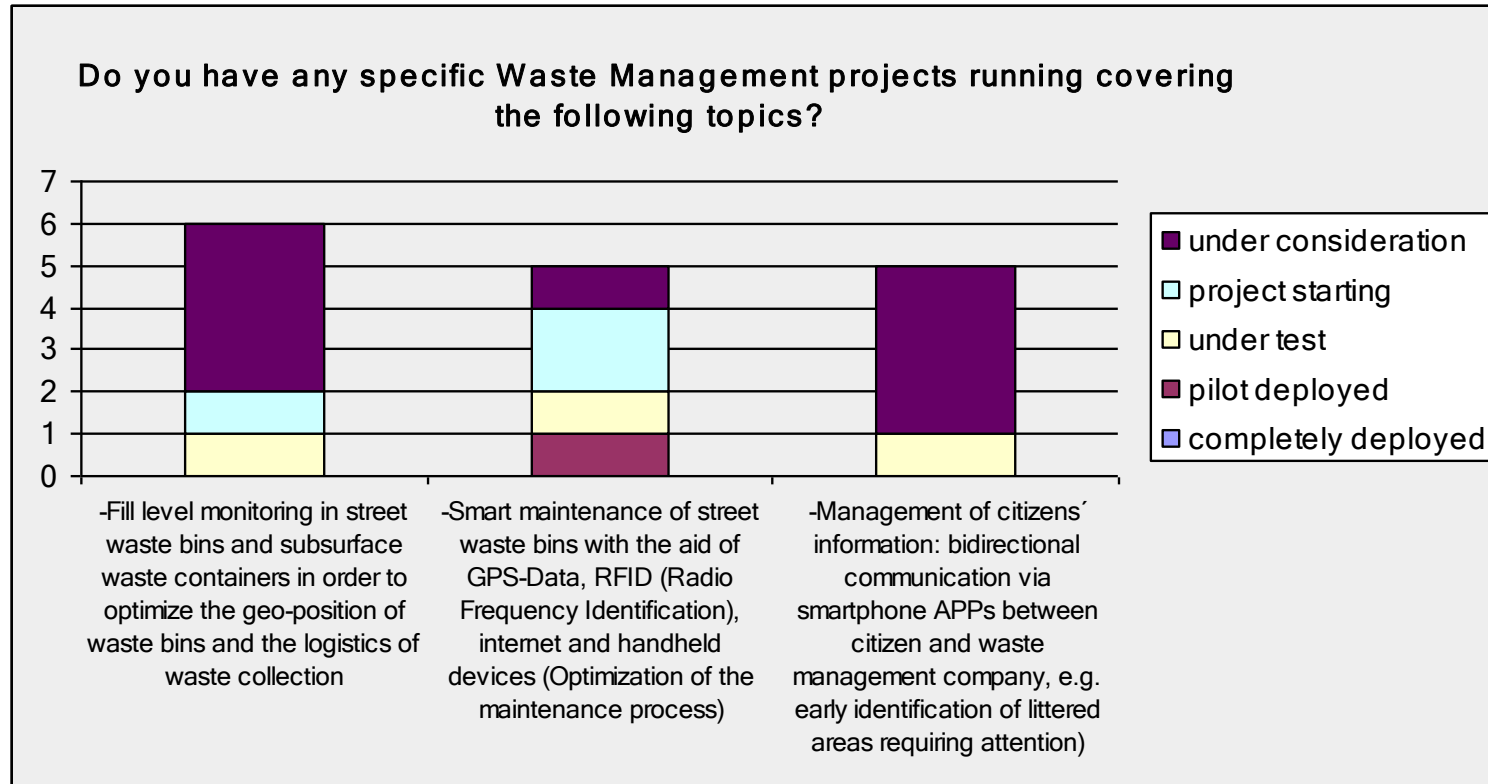
WASTE MANAGEMENT



// Berlin:
service: *smart waste baskets
concept: *internet of things



Waste Management

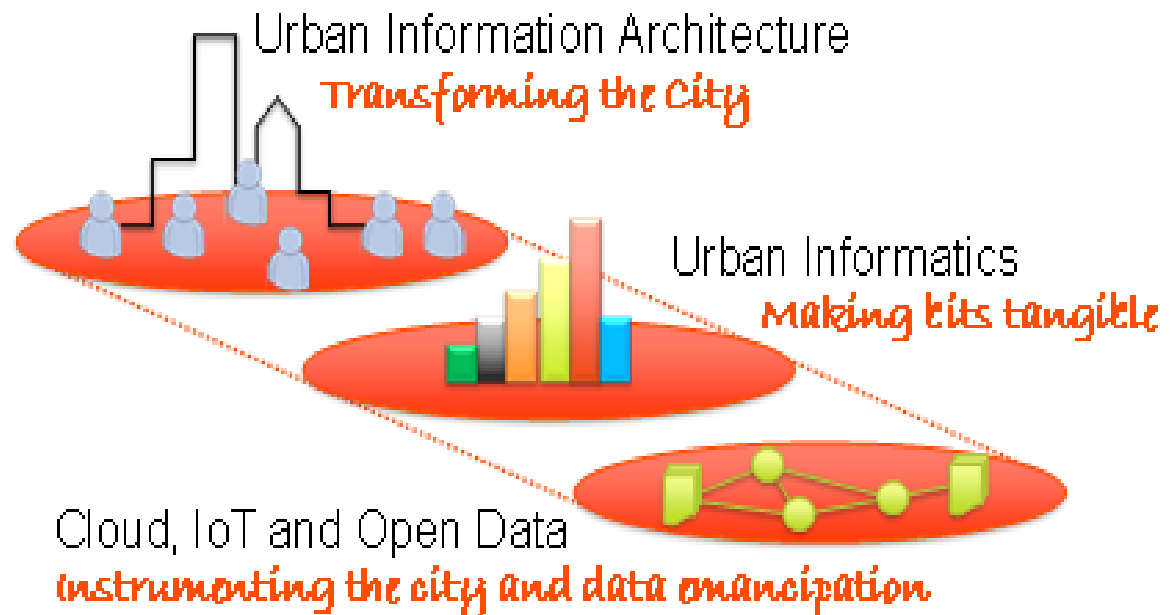


6 answers

All 6 entities were interested in street waste bins monitoring

Conclusions

- OUTSMART use cases do attract strong interest
- Going forward
 - Making this tangible and transforming the city





<http://fi-ppp-outsmart.eu/>   

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