

Advances in Urban Data Management in Belgian Smart Cities

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Researcher

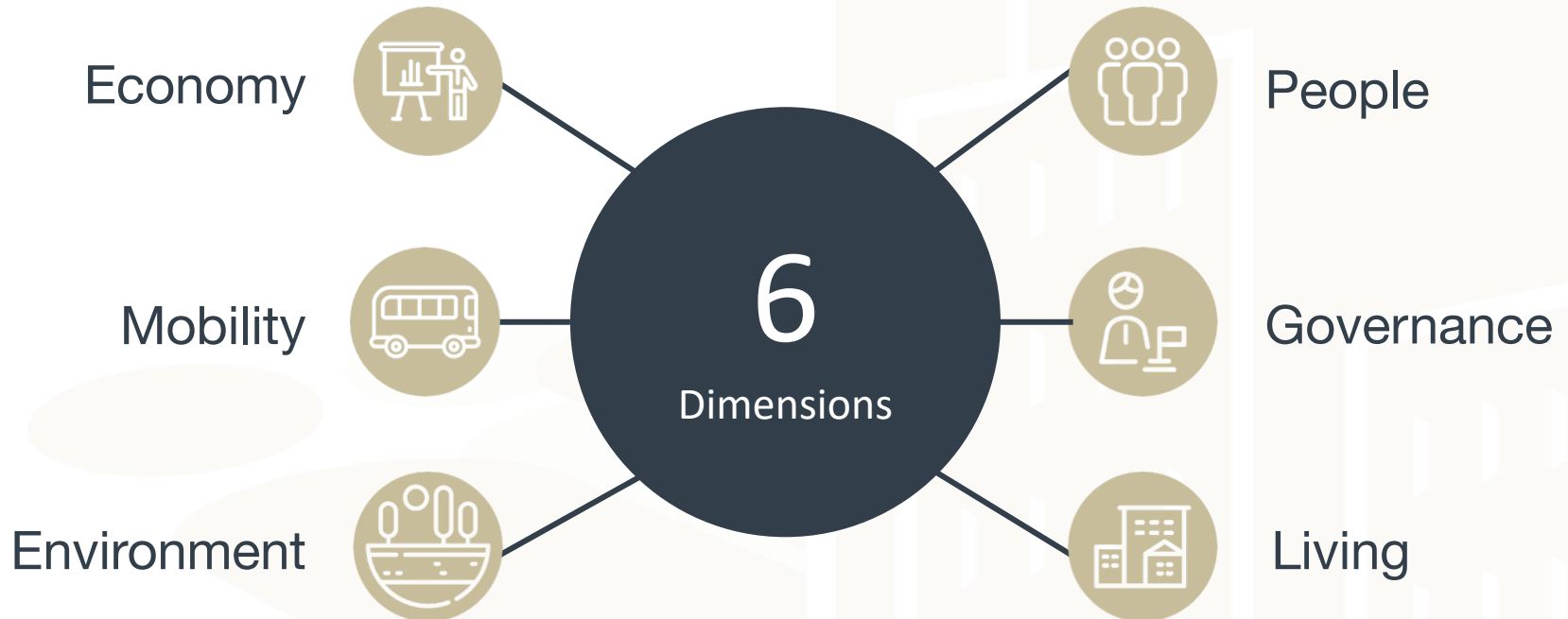
Smart City Institute
(HEC Liège– University of Liège)

Smart City - Context

What is a Smart City?

- ecosystem of stakeholders
- sustainable transition process
- technology as a facilitator
- open data (generation and re-use)

Smart City – Different domains



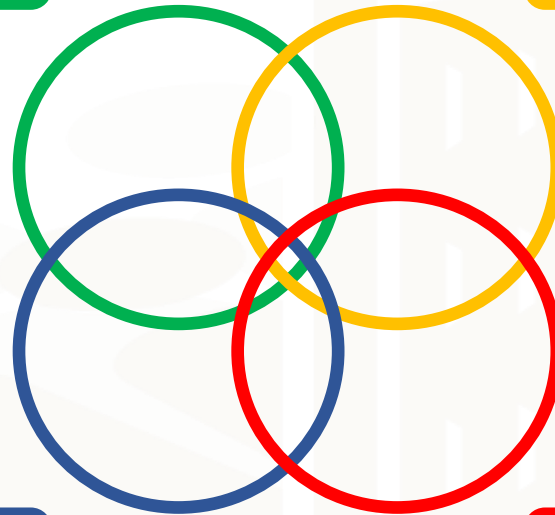
Smart City - Stakeholders

CITIZENS

ACADEMIC WORLD

BUSINESSES

PUBLIC SERVICES



SMART CITY INSTITUTE

academic centre

public and private partners

link between the different stakeholders

SMART CITY INSTITUTE – 4 missions

The Smart City Institute



Research



Training



Entrepreneurship



Creating awareness and building an ecosystem

OPEN DATA GENERATION IN BELGIUM

Open data in Belgium (2015 - 2016)



The screenshot shows the top navigation bar of the De Tijd website with categories like Nieuws, Markten, and Netto. Below it, a sub-navigation bar lists various topics such as Vandaag, Politiek & economie, and Tech & media. The main content area features a breadcrumb trail: NIEUWS > ONDERNEMEN > TECHNOLOGIE. The headline is "'België is een woestenij voor open data'". The article is dated 24 februari 2016 at 17:26. Social media sharing icons for bookmark, Facebook, LinkedIn, Twitter, and Email are visible. The image below the headline shows a person's hand holding a smartphone displaying a Telstra signal, the time 12:47 pm, and a 50% battery level.

DE TIJD

Nieuws Markten Netto

Vandaag Politiek & economie Ondernemen Tech & media Opinie Cultuur Sabato

NIEUWS > ONDERNEMEN > TECHNOLOGIE

'België is een woestenij voor open data'

24 februari 2016 17:26

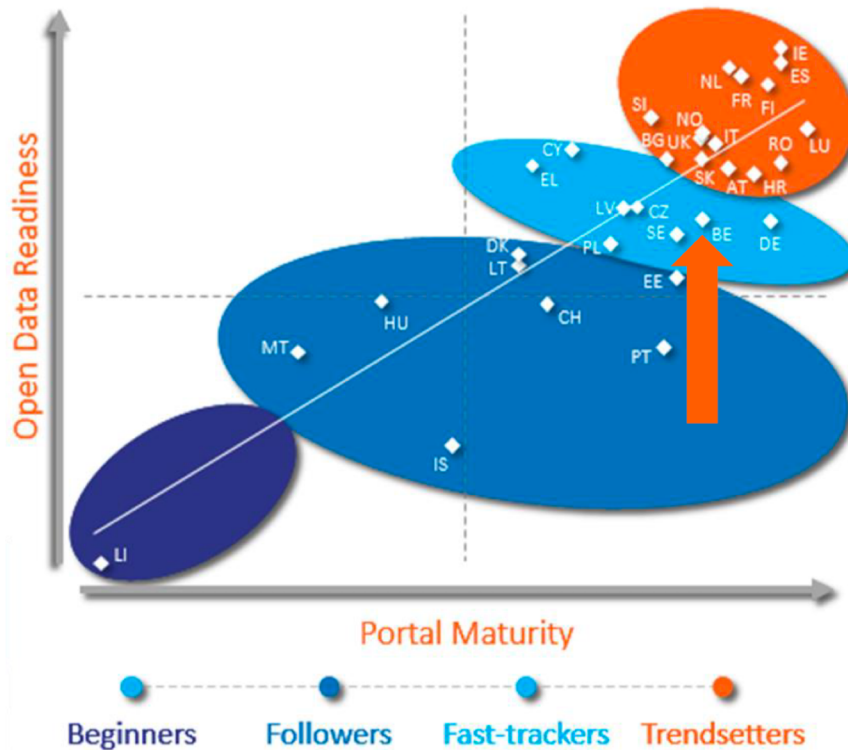
Bookmark Facebook LinkedIn Twitter Email



Belgian Newspaper 24 February 2016

www.tijd.be/ondernemen/technologie/Belgie-is-een-woestenij-voor-open-data/9736403

Open data in Belgium (2017)

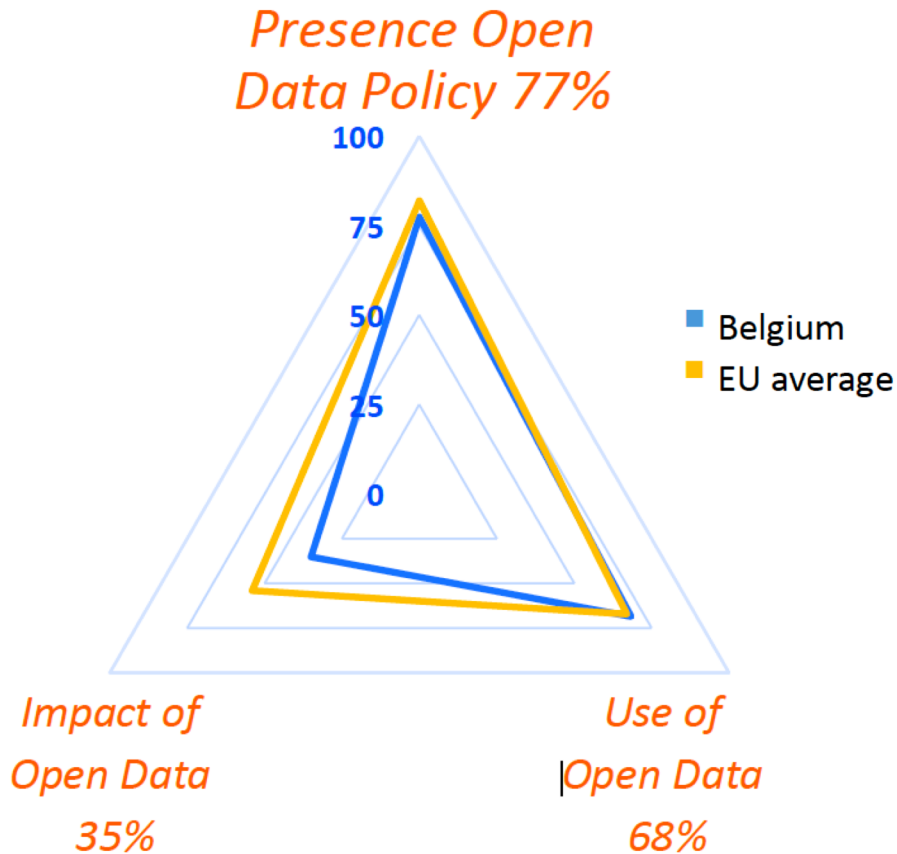


Belgium is making quick progress in open data (generation & availability)

Presentation of Heleen Vollers (European Data Portal)
Open Belgium conference – 12 March 2018

www.slideshare.net/OpenKnowledgeBE/best-practices-in-open-data-across-europe

Open data in Belgium (2017)



Limited impact of open data in Belgium

Presentation of Heleen Vollers (European Data Portal)
Open Belgium conference – 12 March 2018

Open data in Belgium

Quick progress in the field of open data

Open data impact still limited

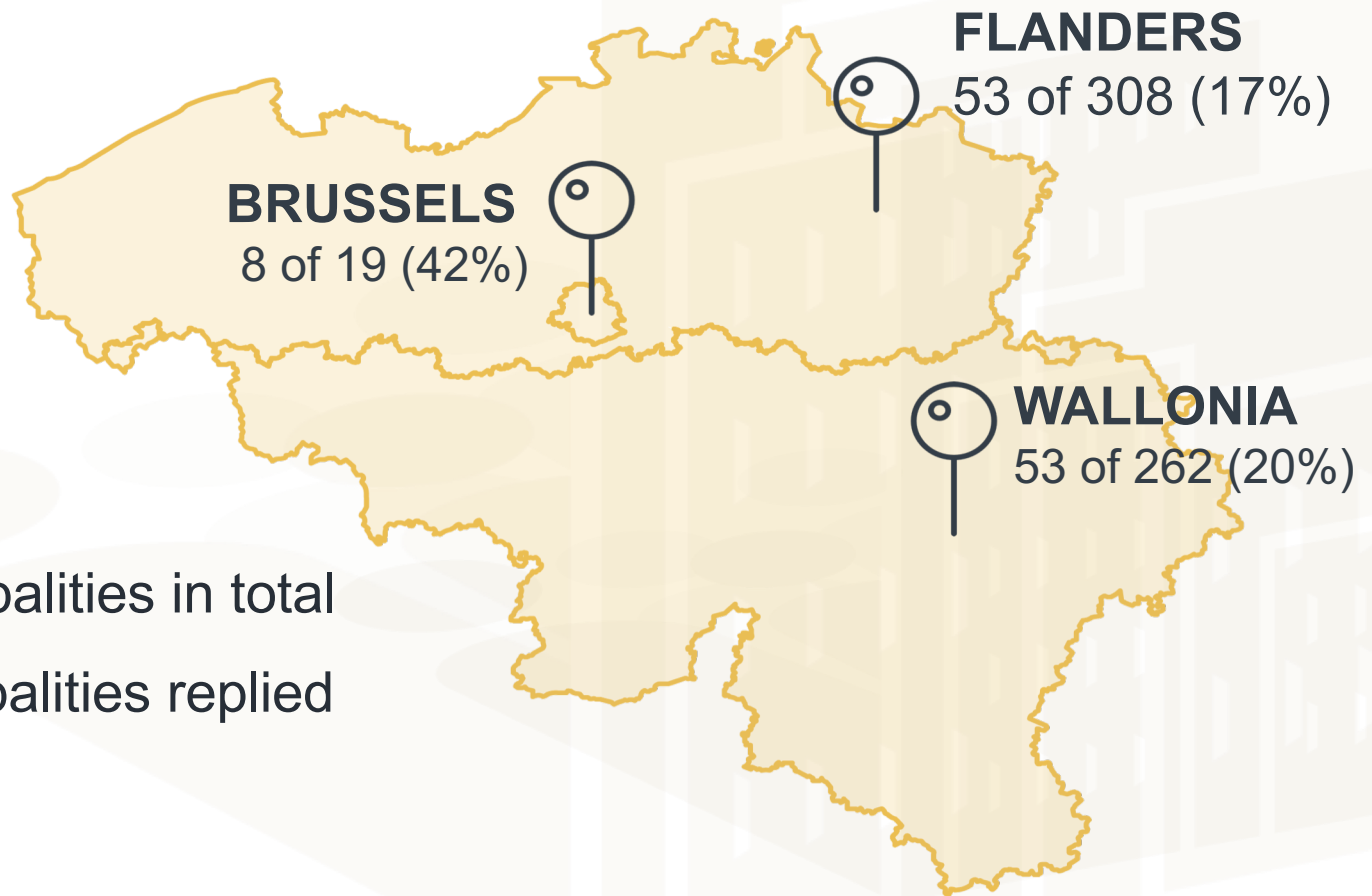
Stats on open data re-use ?

Stats on different stakeholders?

What is the role of cities?

SMART CITY PERCEPTION IN BELGIAN CITIES

Smart city perception in Belgian cities (survey 2016-2017)



589 municipalities in total

113 municipalities replied

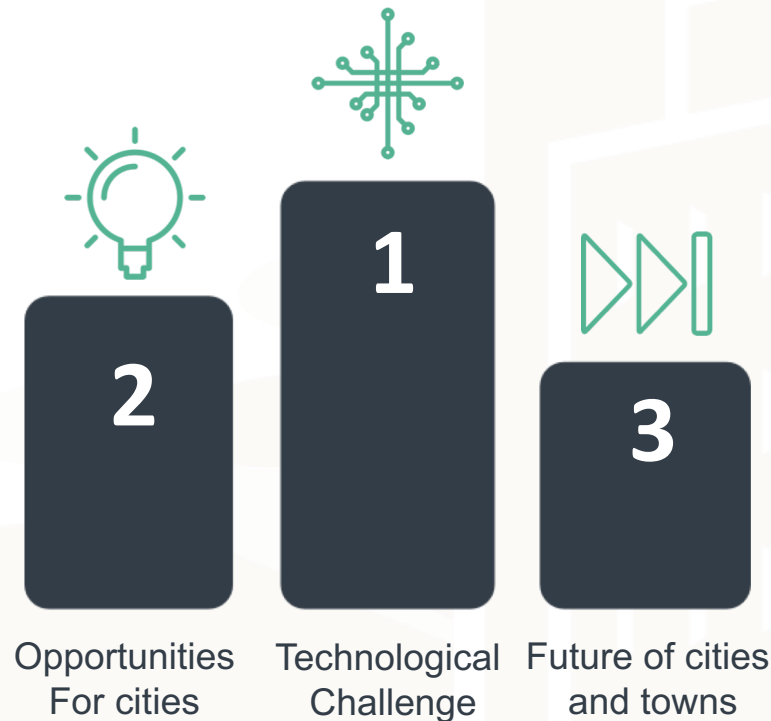
19%

Smart city perception in Belgian cities (survey 2016-2017)

66% OF BELGIAN MUNICIPALITIES

FEEL CONCERNED BY THE CONCEPT
OF SMART CITY

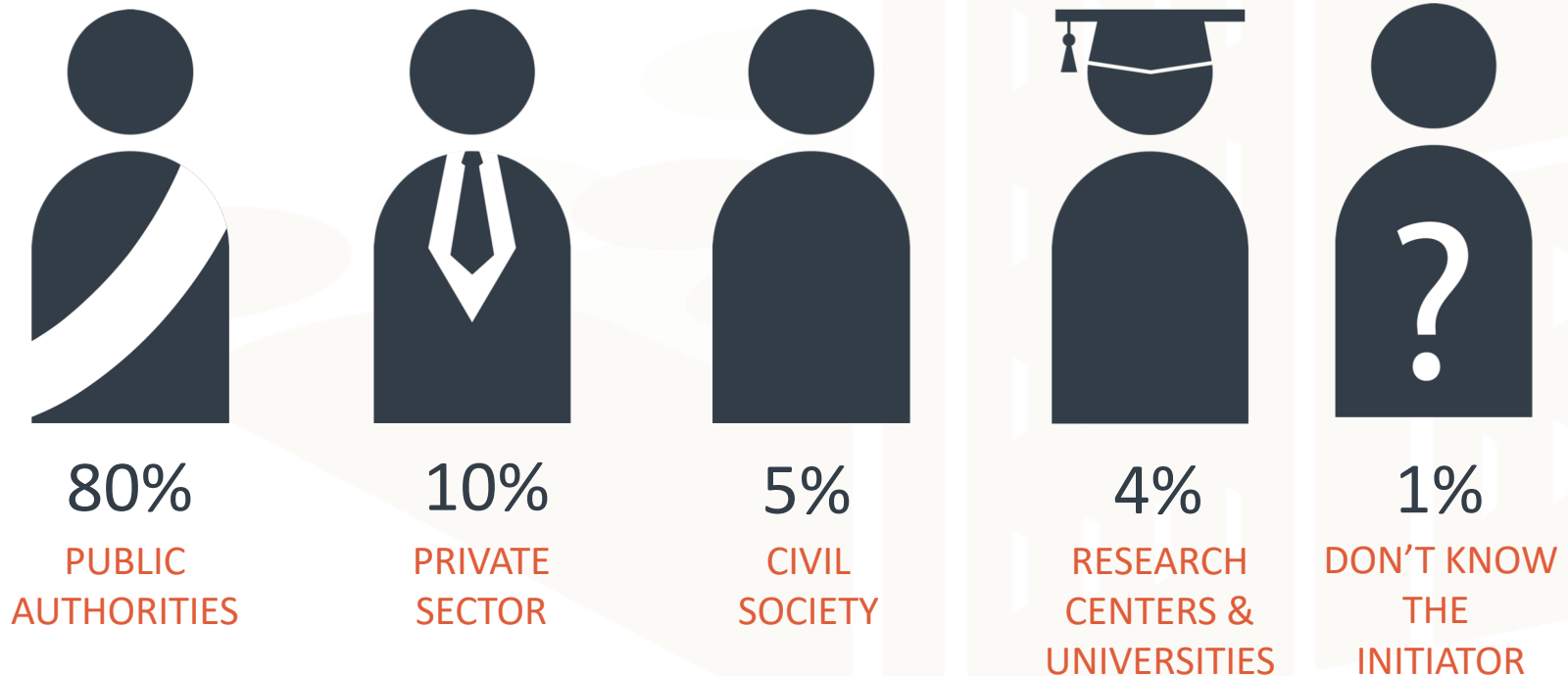
Smart city perception in Belgian cities (survey 2016-2017)



Smart city perception in Belgian cities (survey 2016-2017)

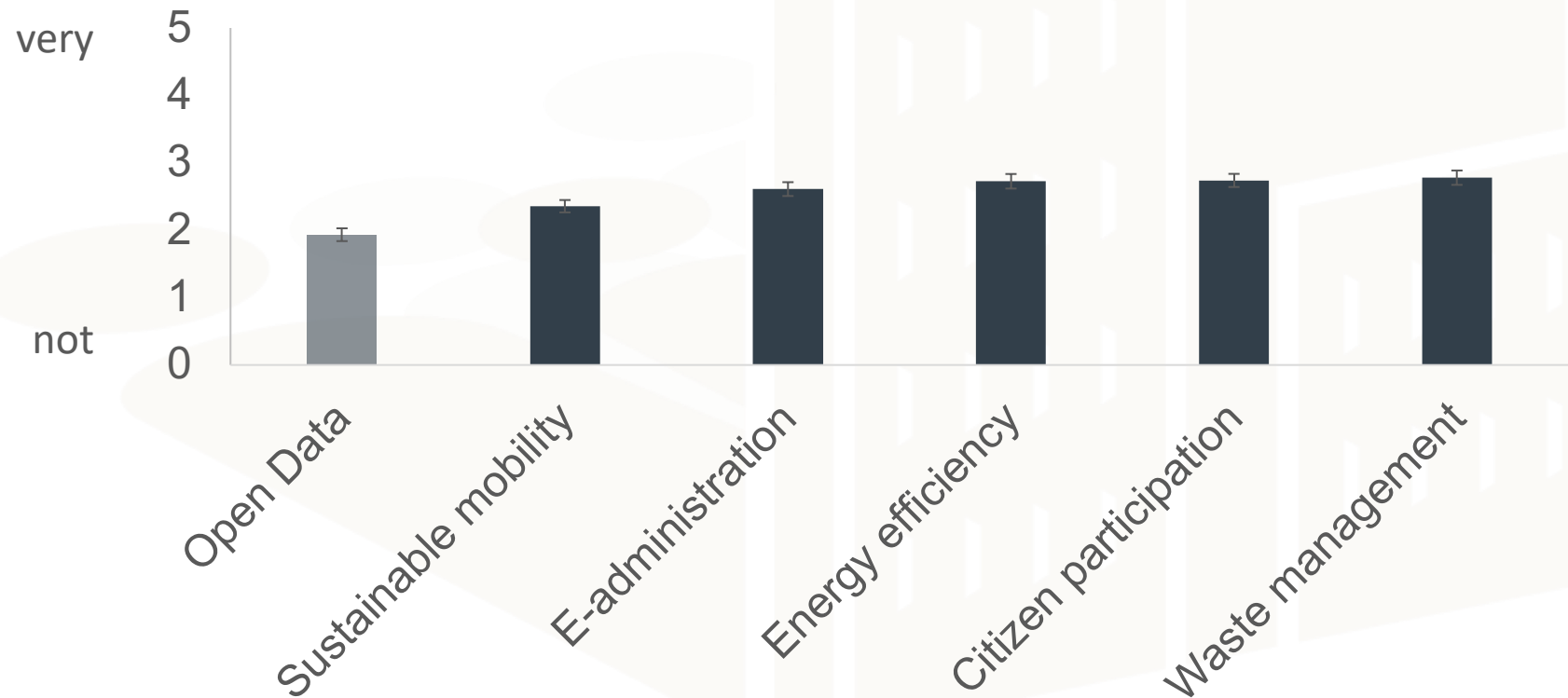
STAKEHOLDERS

MOST OF THE TIME PUBLIC AUTHORITIES ARE INITIATING SMART CITY PROJECTS → TOP-DOWN APPROACH



Smart city perception in Belgian cities (survey 2016-2017)

Which smart topics are important in your city?



CONCLUSIONS

CONCLUSIONS

3 take-home messages:

- open data in Belgium is booming (impact still behind), more research on data use by cities is necessary
- cities embrace the smart city concept; less the case for open data
- cities need help in their smart city development (open data!)
→ more collaborations between academia and cities



Advances in Urban Data Management in Belgian Smart Cities

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LE FONDS EUROPÉEN DE DÉVELOPPEMENT RÉGIONAL
ET LA WALLONIE INVESTISSENT DANS VOTRE AVENIR



Wallonie



Wallonie

digital
wallonia
.be

 **Belfius**
Banque & Assurances

 **proximus**

 **Schröder**

 **strategy&**
Part of the PwC network

 **VINCI**
ENERGIES

 **LIÈGE**
université

 **HEC LIÈGE**
Management School - Liège University