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INTRODUCTION OF SMART CITY INSTITUTE

Audrey Lebas



THE SMART CITY INSTITUTE



AWARENESS



RESEARCH



INNOVATION

- Founded in 2015
- Sustainable and Smart Cities/Territories from a Management and Stategy approach
- University of Liège, HEC Liège (Belgium)



- Team of 14 Multidisciplinarity
- Professors Partners (private and public) Smart Cities experts
- Academic referent of the Smart Region on Smart Cities



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DEMOGRAPHIC CHANGES

URBANISATION



CLIMATE CHANGE





CONTEXT

EXPONENTIALLY CHANGING ENVIRONMENT



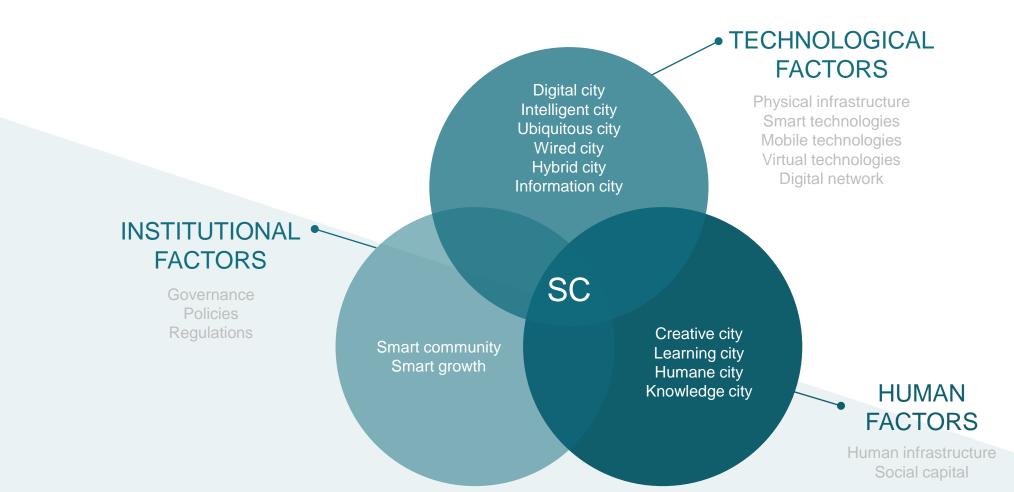


MANY LABELS AND NO-ONE GENERALLY ACCEPTED DEFINITION

Patridge (2004)	"A city in which the ICT strengthen the freedom of speech and the accessibility to the public information and services"
Giffinger & al (2007)	"A city well performing in a forward-looking way in economy, people, governance, mobility, environment, and living, built on the smart combination of endowments and activities of self-decisive, independent and aware citizens"
Hollands (2008)	"It is the implementation and deployment of information and communication technology infrastructures to support social and urban growth through improving the economy, citizens' involvement and governmental efficiency"
Caragliu & al (2009), Hall (2000)	"Safe, secure, environmental and efficient urban centre of the future with advanced infrastructures such as sensors, electronic devices and networks to stimulate sustainable economic growth and a high quality of life"
OECD (n.d)	"Cities that leverage digitalisation and engage stakeholders to improve people's well- being and build more inclusive, sustainable and resilient societies"



A BROAD DEFINITION



Nam and Pardo (2011)



OUR DEFINITION

A "Smart City" is a **multi-stakeholders' ecosystem** (composed with local governments, citizens' associations, multinational and local businesses, universities, international institutions...)

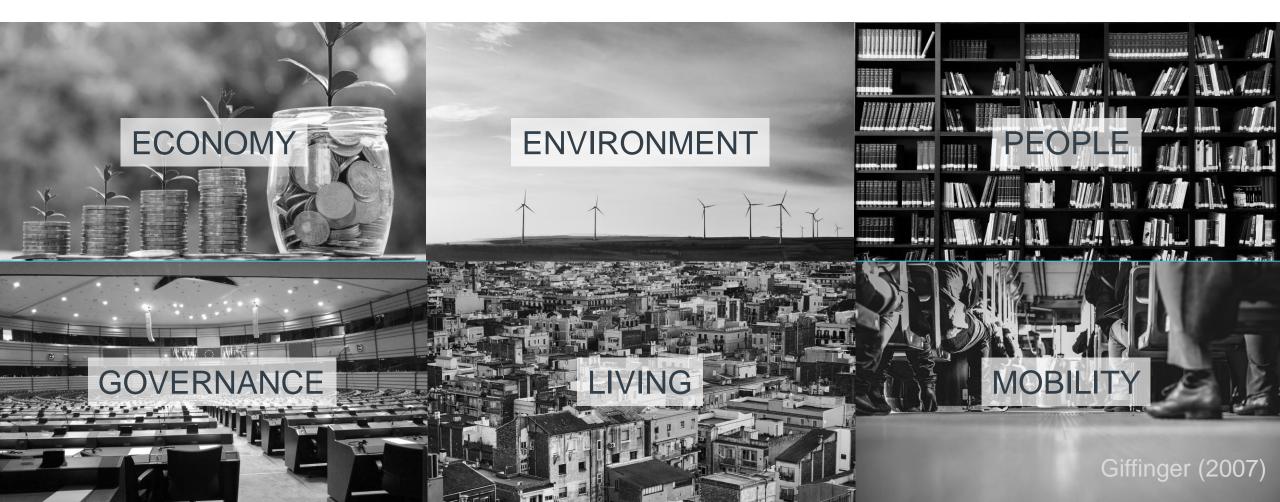
Engaged in a sustainability strategy/transition

Using technologies (such as digital technologies) as enabler

In order to become **more sustainable** (economic prosperity, social well-being & conservation of our natural resources)

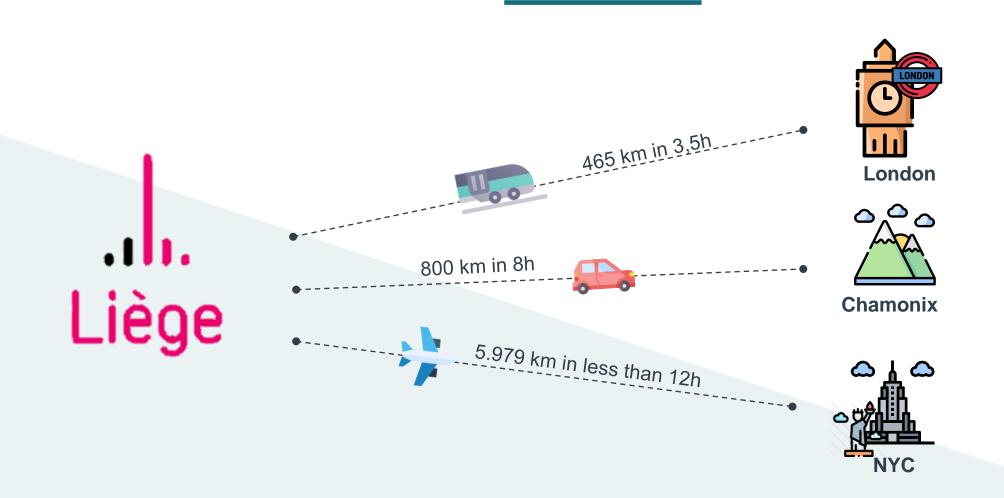


SIX DIMENSIONS





MOBILITY: A CHANCE



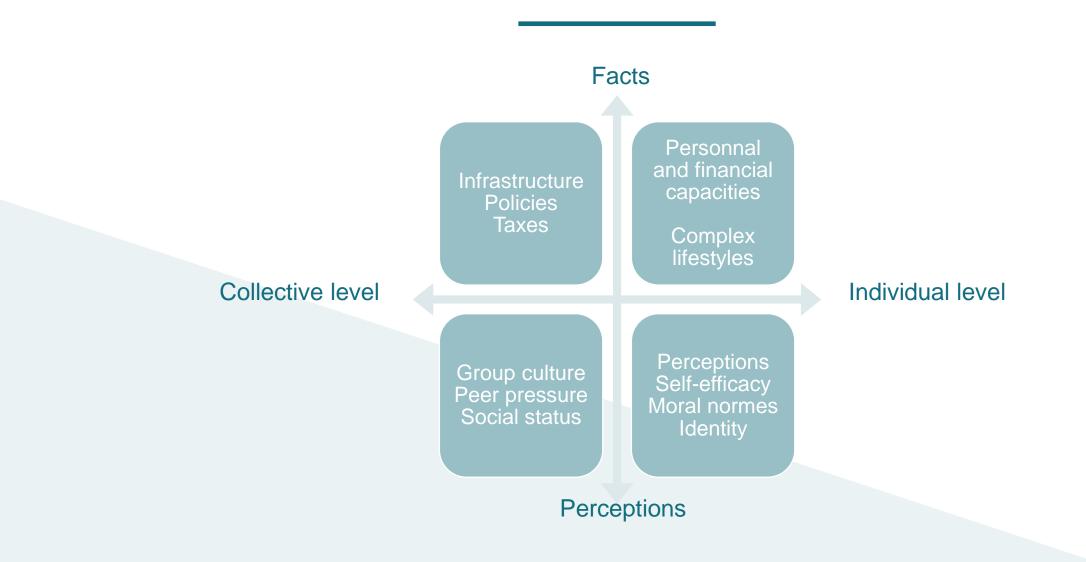


WITH CONSEQUENCES





BARRIERS TO THE CHANGE OF MOBILITY BEHAVIOURS



Adapted from Grant-Muller, Hodgson & Harrison (2020)









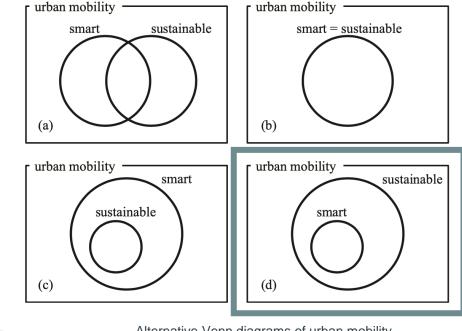






Smart Mobility brings together all the solutions aimed at **optimising the use of infrastructure, vehicles and equipment** to facilitate the mobility of people and goods (European Commission, 2011)

Smart Mobility is a broad concept which facilitates to achieve a sustainable development **by optimising transport services**, taking into account technological, societal, economic and environmental challenges (Zawieska & Pieriegud, 2018)



Alternative Venn diagrams of urban mobility Lyons (2018).





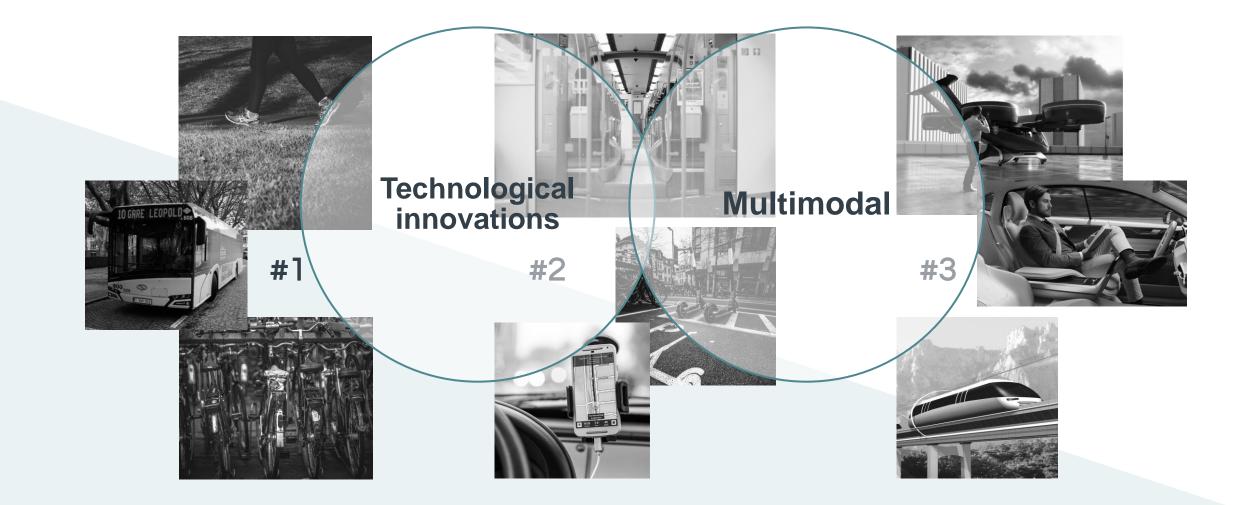






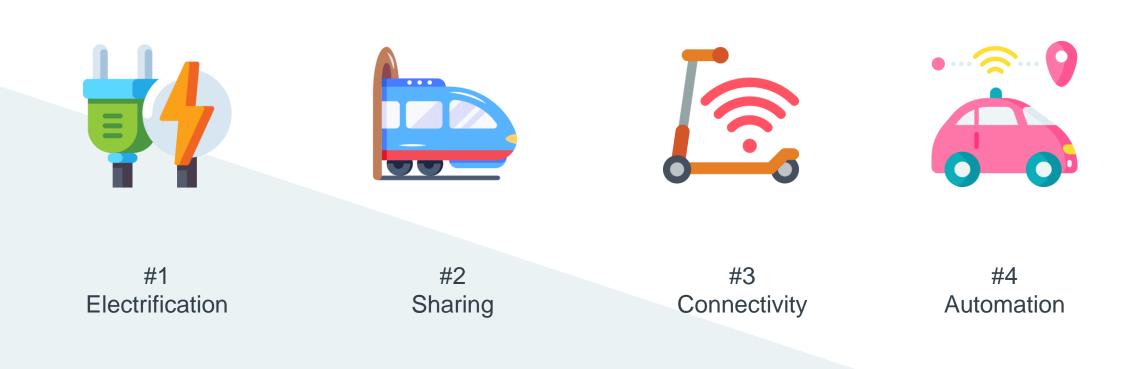




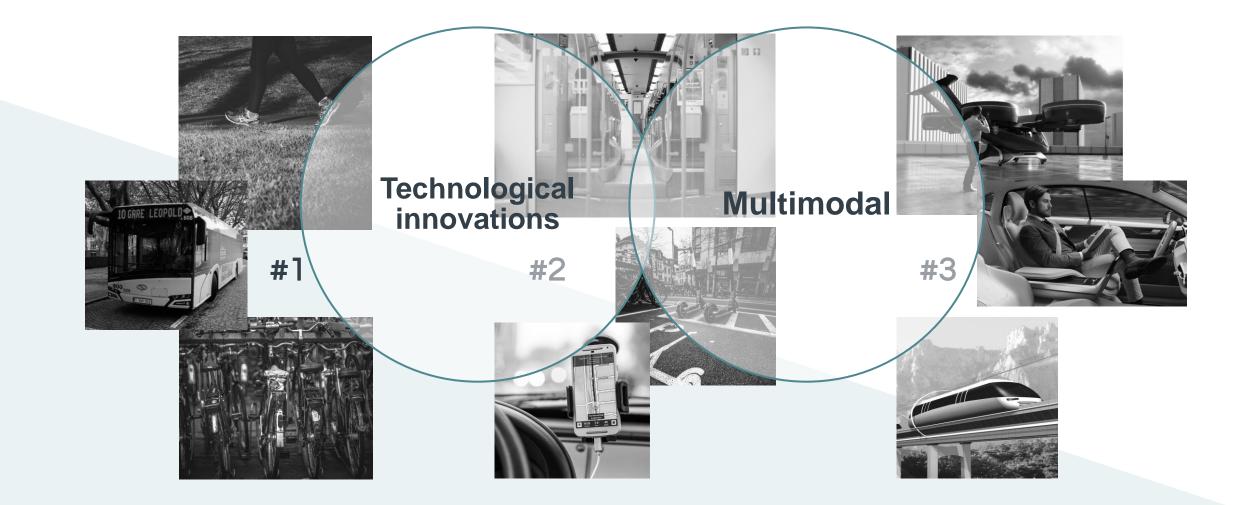




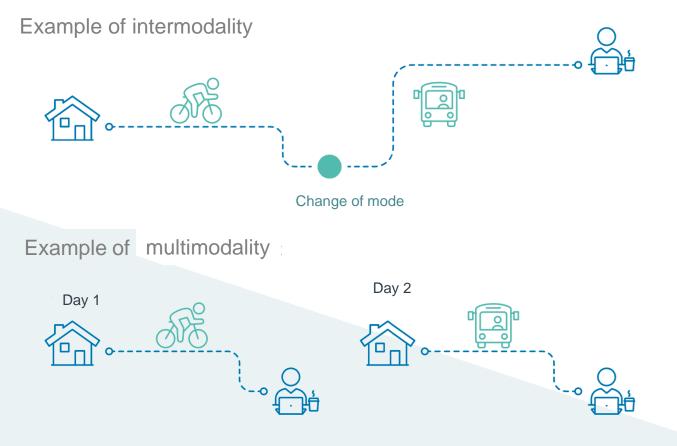
4 INNOVATION TRENDS IN SMART MOBILITY





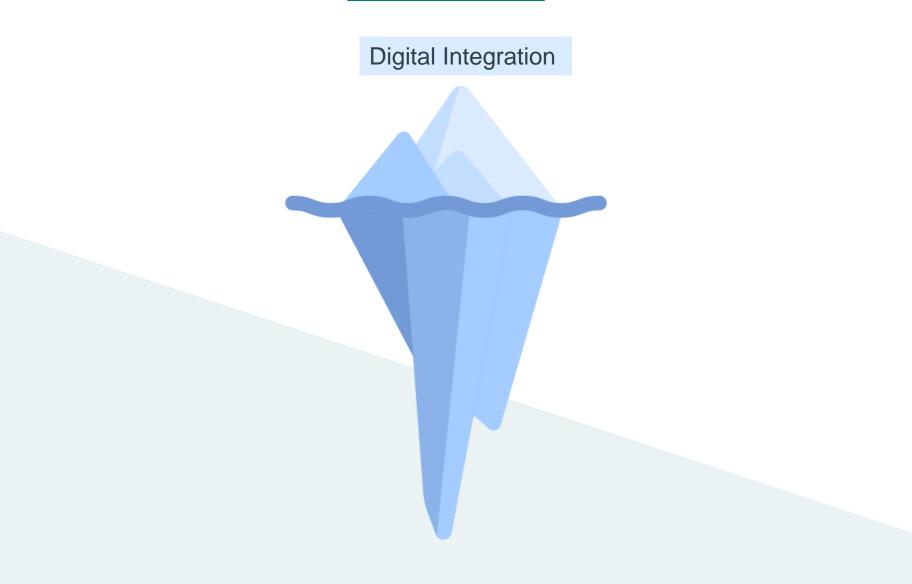




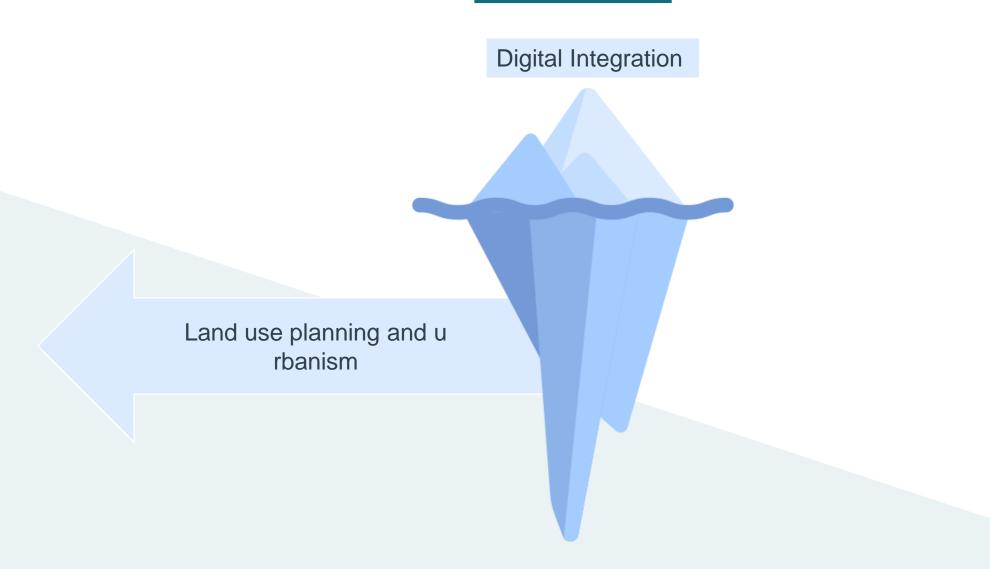


Adapted from Lebas, A. (2020)











Digital Integration

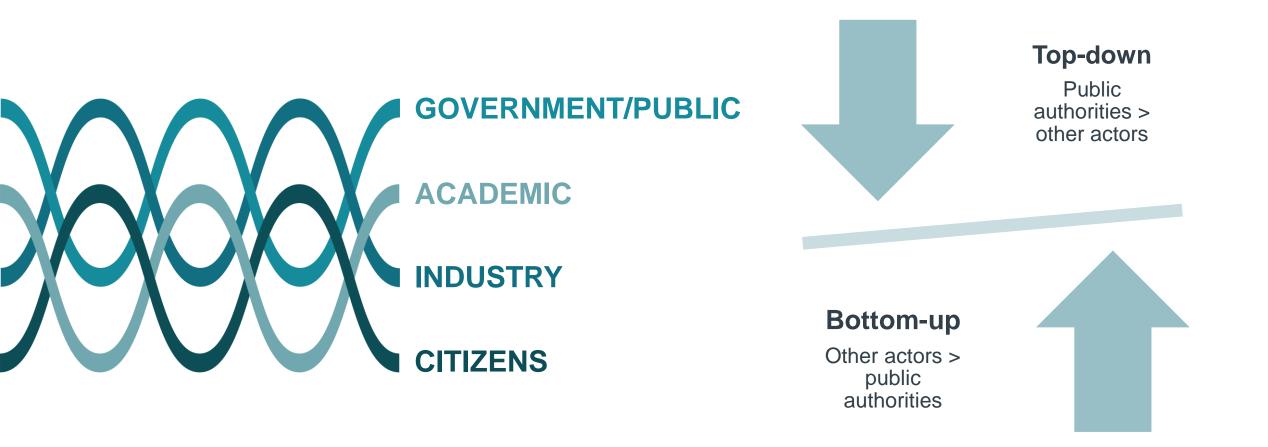
Land use planning and u rbanism

Non-mobility actions



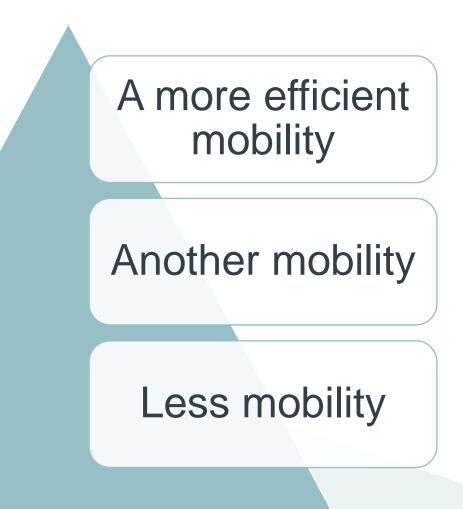
SMART CITY/MOBILITY

STAKEHOLDERS/GOVERNANCE





SMART CITY/MOBILITY





THANK YOU

Audrey Lebas (audrey.lebas@uliege.be)

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