

IDP EA 1384



SYMPOSIUM 2019 Science park model reconsidered in the light of smart city: Transalley case and the smart mobility

Isabelle Kustosz, UPHF

Stéphane Meuric, Transalley

Université de Luxembourg Belval Innovation Campus



An exploratory research

• Before conducting further research

To give a base to analyse the role of science park (SP) in the smart city (SM), and the smart territory

To explore the type of interventions of SP in the context of smart city and their effects on collaborations, governance, empowerment etc...

 Conceptual framework : Collective action at the scale of territority

(Hatchuel A., 2001)

(Desreumaux A., Brechet JP., 2018)

(Amblard L. & Al., 2018)

Our Topic with regard to Litterature reviewes solytechnique

How scientific parks contribute to the smart cities or smart territories?

Nauwelaers C., Kleibrink A., Stancova K. (2014), The Role of Science Parks in smart specialization strategies S3 Policy brief series

Nam T & Pardo, (2011) Conceptualizing Smart city with dimensions of Technology, People and institutions

Lecluyse L., Knockaert M., Spithoven A. (2018) The contribution of science parks: a literature review and future research agenda

Breuer J, Walravens N, Ballon P, (2014) Beyond defining smart city — meeting topdown and bottum up approaches in the middle

Lee Kyoung-Joo; Kim Eun-Young. (2018) A leadership competency model of science and technology parks: the case of Chungbuk Techno Park in Korea.

Meijer A & Bolivar MPR, (2016) La gouvernance des villes intelligentes. Gouvernance urbaine intelligente

Perreira G, Parycek P, Falco E, Kleinhans R (2018) Smart governance in the context of smart cities : A literature review



Science parks:

from technology-based activities, from science-industry relationships to a much broader role (multi-dimensional and interactive character of knowledge exchanges) beyond a science-to-business line

Smart cities:

From the role of ICT in providing urban services to Smart Governance and empowerment.



Description of the Case

Single Case (Technopôle Transalley) with 3 Embedded Units

Located on an university campus

A business hotel, an incubator, a business accelerator and a mediation space for clusters/poles.

Structuring project in terms of economic development and

regional strategy for smart specialization

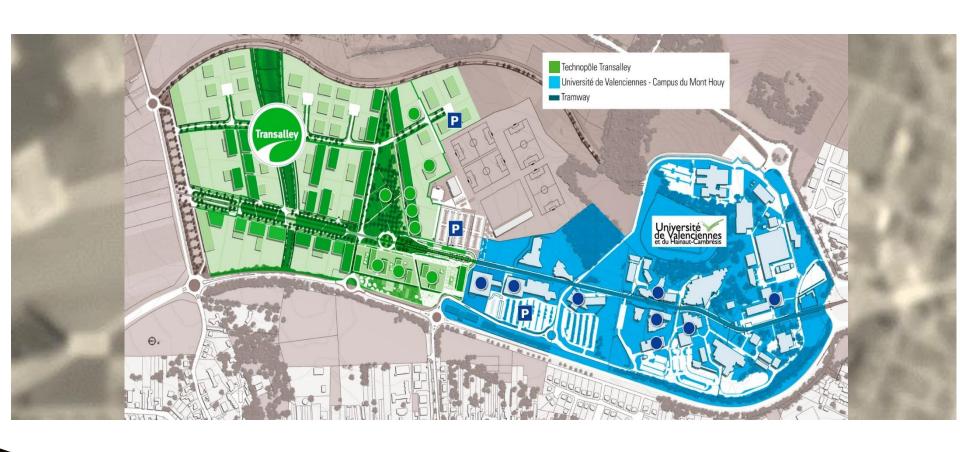
Ressource centre for the transport and mobility sector.

Support for innovative economic activity in connection with research and higher education in the territory.

located on a vulnerable territory but specializing in transport and mobility (presence of major industrial groups)



location







3 very differentiated ways of intervening in the field of smart mobility

Proving track	Event programming	Mobility Desk	
for smart mobility	in the institute for sustainable transport	for young people 13-30 years old	
Techno centric approach	Networking and dissemination approach	Social and inclusive approach	
Location of R&D			
experiments and test site.	Disseminating societal and	Providing tools and services	
	technological issues in link	for making target populations	
Managing a specific	with the specialization of the	more mobile, particularly	
equipment	territory	from an employability	
	,	perspective	
Firms and SME's as main	Local institutions and		
users	scientific organizations as	Young Residents of the	
	main users	territory as main users	

Defining more precisely the case study research question



• Characterizing various types of interventions (operations) within these three differenciated cases

To question (Why and How) the way in which the technopôle contributes

to **make city or territory smarter** beyond the only techno centric approach (new angle)

(To identify success factors and obstacles)

(To identify success factors and obstacles)				
Secondary data	Primary data			
- Background informations considering the context	Interviews of project managers, project leaders			
 Documentations about projects 				
Calls for proposals, calls for projects and their	Direct observations (presentation meetings, site			
reponses	visites, visiting of external experts)			
Feasibility studies, Benchmarking studies,				
consulting studies	Participant-observation (steering committes)			
Museographic path, architectural plansetc.				

First analysis



We have indentified three main types of interventions of the pôle

- Technology-oriented (**innovative role** in a science-to-business line approach)
- Collaboration-oriented (**networking role** in a territorial intelligence approach)
- Capacities-oriented (enabling role in a civil society approach)
 BUT these three types of interventions interact
 - Interactions between these three types of interventions show that the role of the pôle is global (including inclusive aims) in the way to provide collective actions and users-citizens participation within a territorial project

	Proving track	Event programming	Mobility desk
Technology- oriented Innovative role	Providing all type of tests concerning smart mobility (autonomous vehicule, electric refill, smart street furnitures, smart road signs, traffic regulation etc.)	Innovations showroom Disseminating innovations Open discussions, debating on technological inovation and its implications	Informing Users-citizens on technologicals innovations Promoting awareness of new mobility services to the attention of users
Collaboration - oriented Networking role	Developing local productive relationships (start-ups, SMEs, research units)	Increasing visibility, credibility; building legitimacy of private/public actors (high-image location) Initiating hybrid projects, collaboration opportunities, organisationnal behaviors	Coordinating the activities of the public authorities responsible and all relevant players of Young people mobility
Capacities-oriented Enabling role	Living-lab for users new skills (road safety, ecodriving, use of ICT applications) Bottom-up approach (capturing ideas and informations from tenants, SMEs, users, local officials)	Boundary spanning (create a common direction, alignment, commintment) Sense, vision, organizationnal cohesiveness, commitment to territory Sharing a common vision of the mobility issues	Favoring new behaviors, new skills, new habits for citizens-users Contributing to employability through mobility

Obstacles to a smarter role of SP



- Obstacles to governance : **divergent interests** of stakeholders (effect on resource allocation, on involvement in the territory project, shared social responsibility, sense of place), **influence of stakeholders** in the decision process, etc.
- Obstacles to empowerment: difficulties **to reach all citizens and users**, to explain the project, to create habits and behaviors, to make them participate to alternative-construction and decision-making, etc.
 - Obstacles to evaluation : difficulties to conduct evaluation not only quantitative (innovation indicators)

but also a comprehensive assessment

Thanks for your attention