

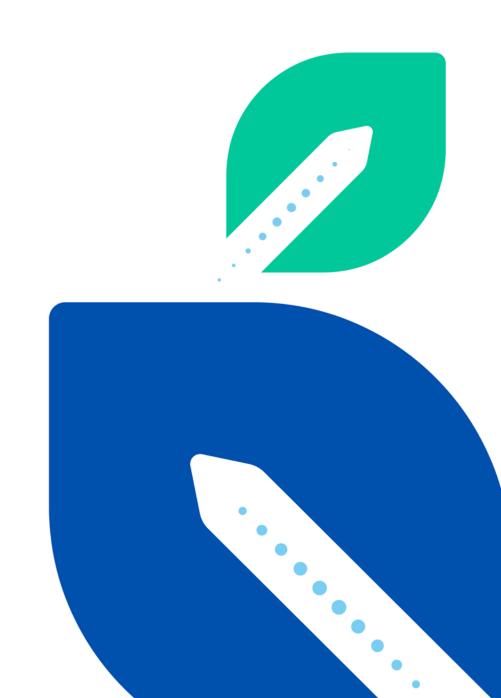
Preparing for an uncertain future

The SPROUT approach to develop narrative and visual scenarios for cities

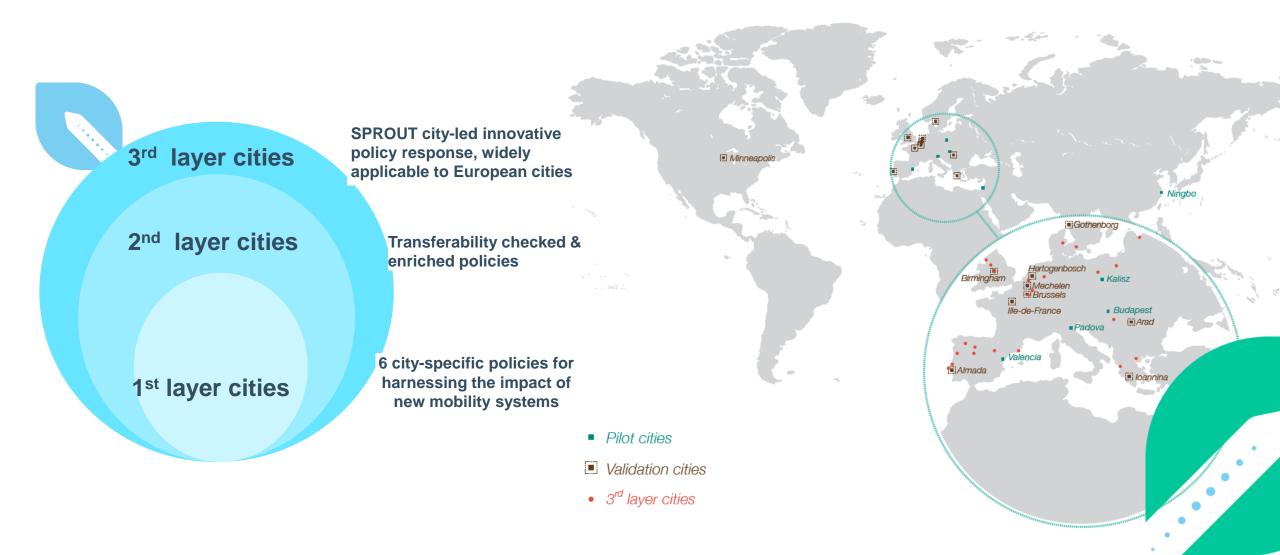
Sara Tori- VUB MOBI CIVITAS Conference- Aachen October 20-21, 2021







SPROUT Cities



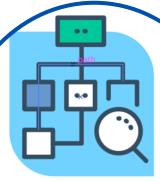
SPROUT will provide

a city-led innovative policy response that will be capable of harnessing the impacts of new mobility solutions in a way that makes them more attractive to the users and more sustainable for the society as a whole.

5 Key Objectives



Understand the transition in urban mobility



Foresee and identify the impact of the drivers of urban mobility transition



Formulate a cityled innovative policy response



Provide tools to enhance local policy-making capacity



Navigate future policy on urban mobility

Scenarios

"An internally consistent view of what the future might turn out to be"

(Porter, 1985, pg. 63)



Help deal with uncertainty



Show several possible futures



Easy to communicate



Help consider longterm policy making while exploring shortterm options

The scenariobuilding process

Process steps and timeline



POLICY IMPACT ANALYSIS

Analysis of the expected policy impacts of all scenarios. (D3.3)



DEVELOPMENT OF SCENARIOS

Based on each city's evaluation of the impacts, scenarios are generated using the crossimpact balance analysis method. (D3.1)



SELECTION OF DRIVERS

Selection of drivers relevant for each city. (D2.3)

FINAL NARRATIVE SCENARIOS



Creation of the final narrative scenarios putting together all the previous elements and adding visualisations. (D3.4)

SUSTAINABILITY IMPACT ANALYSIS



Analysis of the expected sustainability impacts of all scenarios. (D3.2)

NARRATIVE DESCRIPTIONS



Narrative description of the future evolutions of all drivers to complement the output of the software (2025-2030 time horizon). (D3.1)

EVALUATION OF DRIVERS' IMPACTS



Evaluation of all drivers' impacts on one another. (D3.1)

INVENTORY OF DRIVERS



Selection of drivers relevant for overall urban mobility transition (D2.1)



SPROUT methodology

- Goal: narrative scenarios
- 2030 time horizon
- Do-nothing scenarios
 - To identify policy gaps
- Mixed-method approach
 - Cross-impact balance analysis
 - Scenario workshops

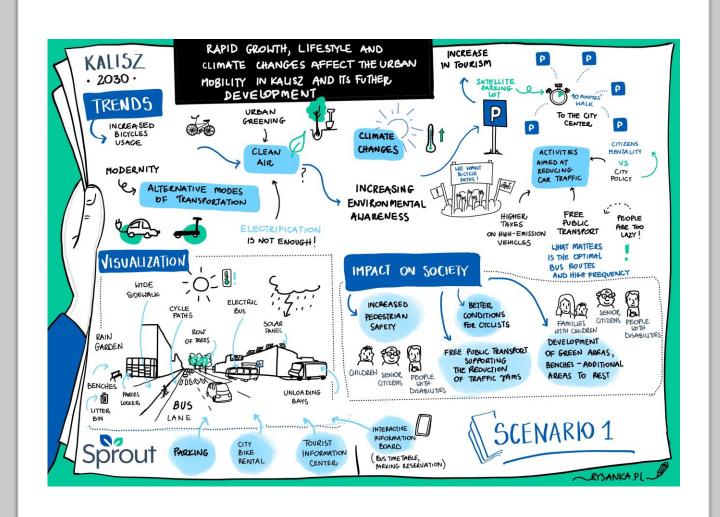
Cross-impact balance analysis

- Based on drivers fueling transformation
- Driver categories:
 - Political
 - Economic
 - Social
 - Technological
 - Environmental
 - Legal
- Assess the direct impact drivers influence on one another

		Ec2		52		S6		11	
		Decrease	Increase	Increasing densification	Increasing	Weak growth	Strong growth	Weak growth	Strong growth
Ec2: Tourism	Decrease			0	0	0	0	0	0
	Increase			0	0	0	0	0	0
S2: Urban structure	Increasing densification	0	0			-1	1	0	0
	Increasing sprawl	0	0			1	-1	0	0
S6: Environmental consciousness (choice of sustainable mode)	Weak growth	0	0	-1	1			0	0
	Strong growth	0	0	1	(-1)			2	-2
T1: Electrification of mobility	Weak growth	0	0	0	0	1	-1		
	Strong growth	0	0	0	0	-1	1		

Scenario building workshops

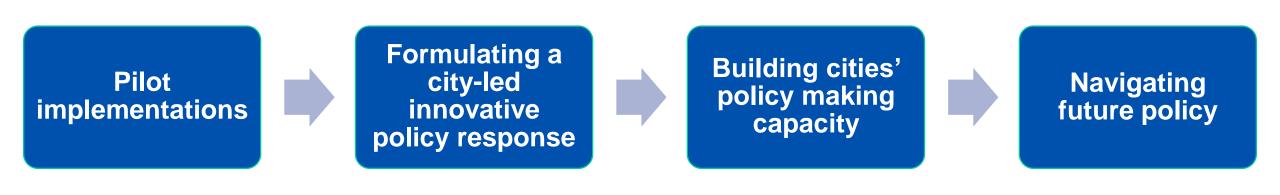
- Online due to COVID
- To develop the narratives of the raw scenarios
- Attended by a visual harvester





Concluding remarks

- Scenario planning as a good tool for flexible planning
- Important to involve stakeholders with local knowledge
- Importance of creative methods
- Next steps:



Thank you

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