



# ReVeALing Cities

27 October 2020.



### Elevator pitch



### A B C D E F G H I L M O P R S T U Z

#### **Access regulation**

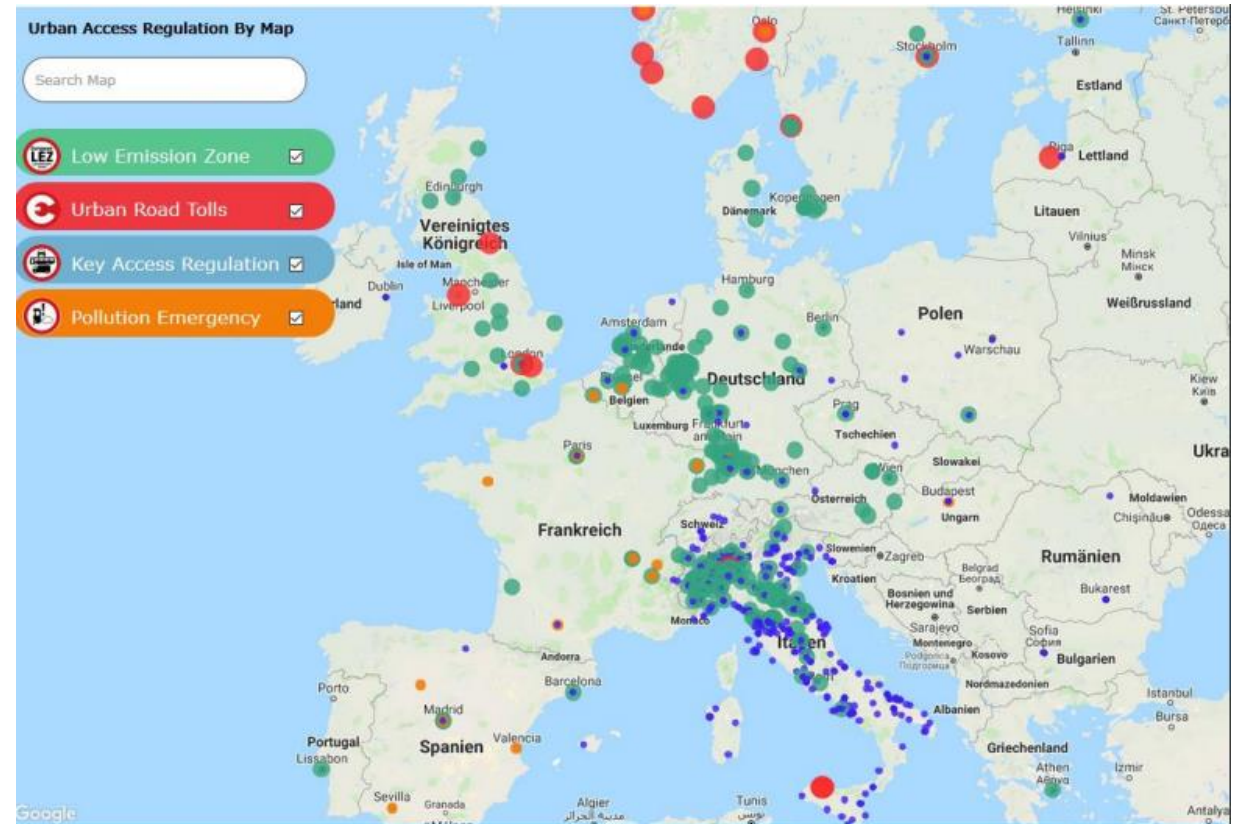
At the most generic level, access regulation is a 'measures to regulate vehicular access to urban infrastructure'. This definition is taken from the 2013 European Commission Staff Working Document on Access Regulations "A call for smarter urban vehicle access regulations" SWM (2013) 526, which was published to accompany the Urban Mobility Package. Examples of Urban Vehicle Access Regulation areas include [Low Emissions Zones](#)<sup>i</sup>, [Congestion Charges](#)<sup>i</sup>, [Traffic Limited Zones](#)<sup>i</sup>. While it theoretically also includes Parking Regulations, ReVeAL does not include them in its definition. At a more conceptual level, an Urban Vehicle Access Regulation regulates under what conditions certain vehicles are allowed to access certain parts of a city. Such conditions can concern:



### Why UVARs?

- Improving air quality
- Reducing congestion
- Increasing safety
- Increasing liveability

**Over 700 UVARs in 24 European Countries**



Source: [www.urbanaccessregulations.eu](http://www.urbanaccessregulations.eu)





## A variety of measures



London ULEZ



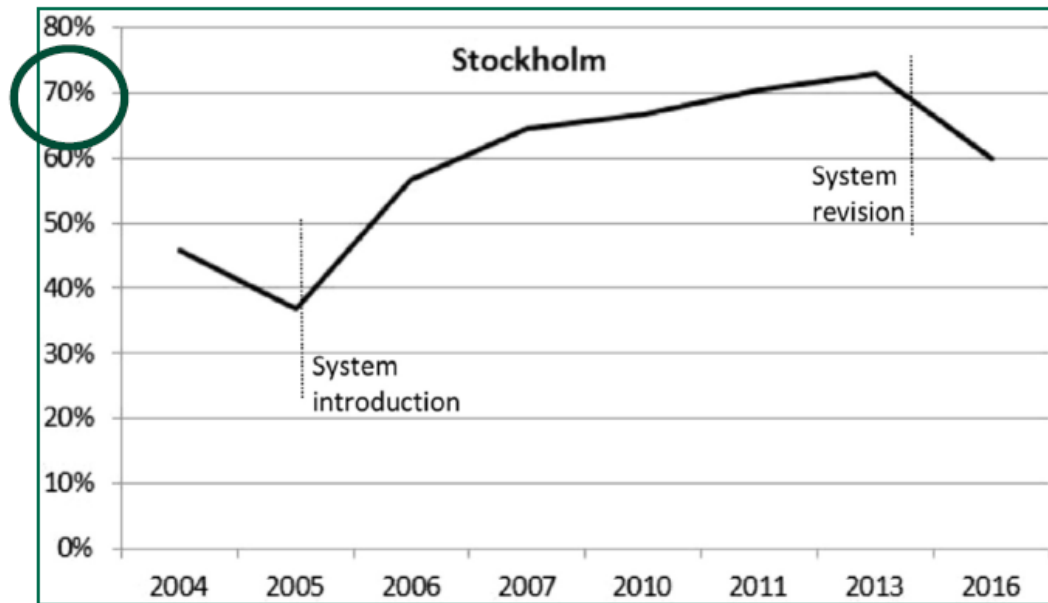
Stockholm Congestion Charge - CC BY-SA 3.0



Vitoria Gasteiz – superblock Source: <http://eltis.org> Harry Schiffer

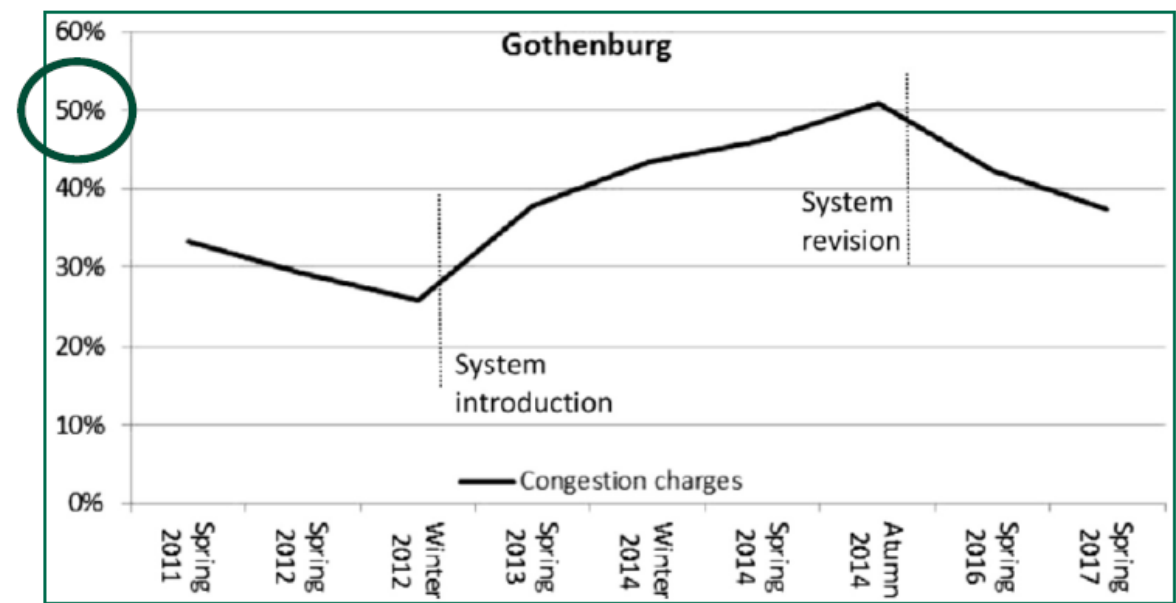


### Replicating best practices is a ‘science’!



Share of respondents in favor of CC. Repeated surveys conducted by city of Stockholm

**70% public acceptance**



Share of respondents in favor of CC. Repeated surveys conducted by city of Gothenburg

**50% public acceptance**

Börjesson, M., & Kristoffersson, I. (2018). The Swedish congestion charges: Ten years on. Transportation Research Part A: Policy and Practice, 107(October 2017), 35–51.

### ReVeAL : The Ambition

- Tools to support a systematic and coordinated way to develop best practices,
- innovation with regards to governance,
- to highlight different UVAR technologies and services,
- to provide a better understanding of how to look at user needs and acceptance,
- to structure the way in which the mobility system accompanying access regulations should be approached,
- Ways of future proof UVAR

### ReVeAL: the methodology

- Action research project
- Combines desk research on international good practice with empirical data and expert knowledge
- With on-the-field testing in 6 pilots
- Through impact assessment and process evaluation

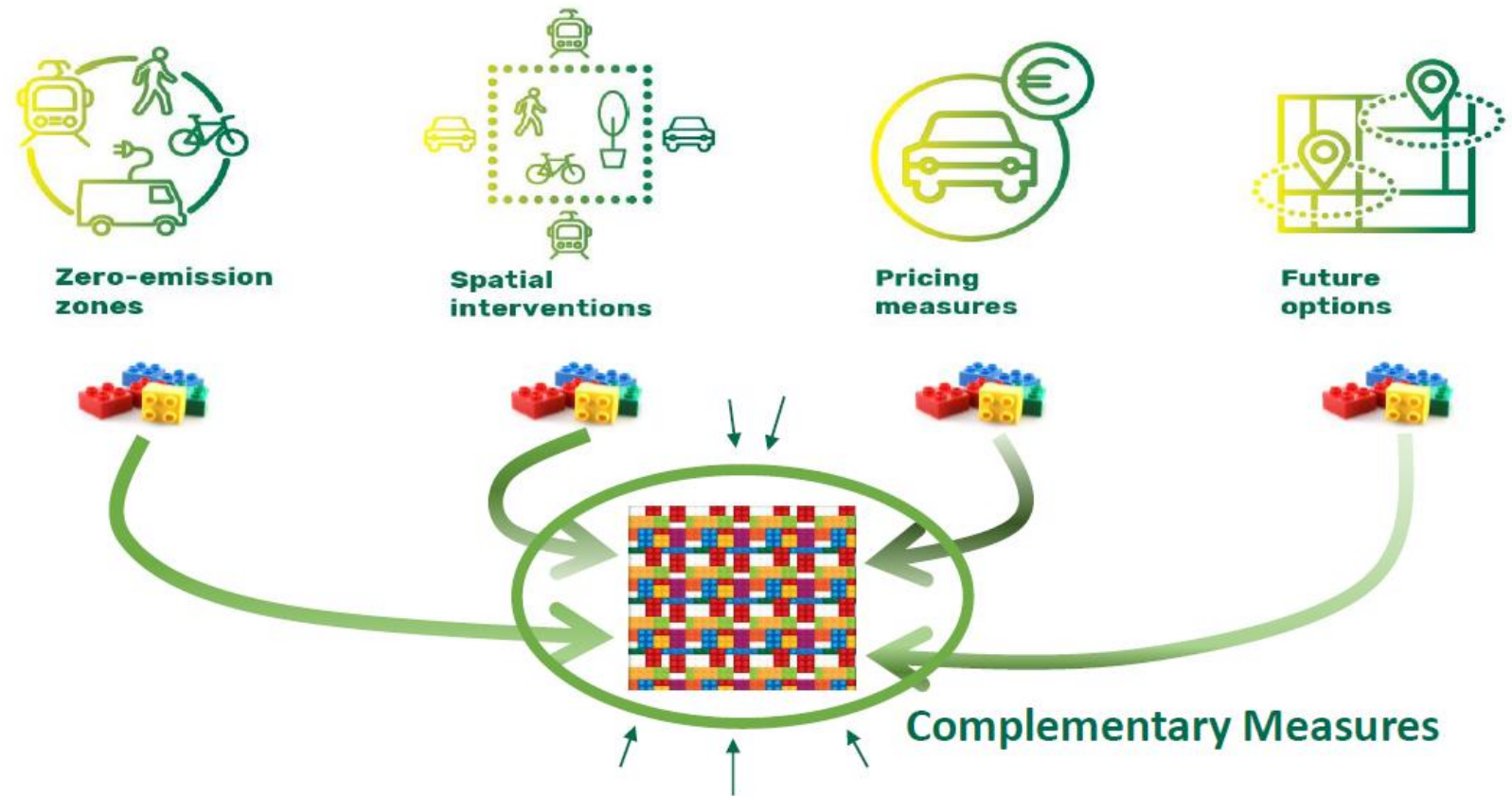
**>> Tailored UVAR support and guidance for cities.**



# The UVAR Transition Framework

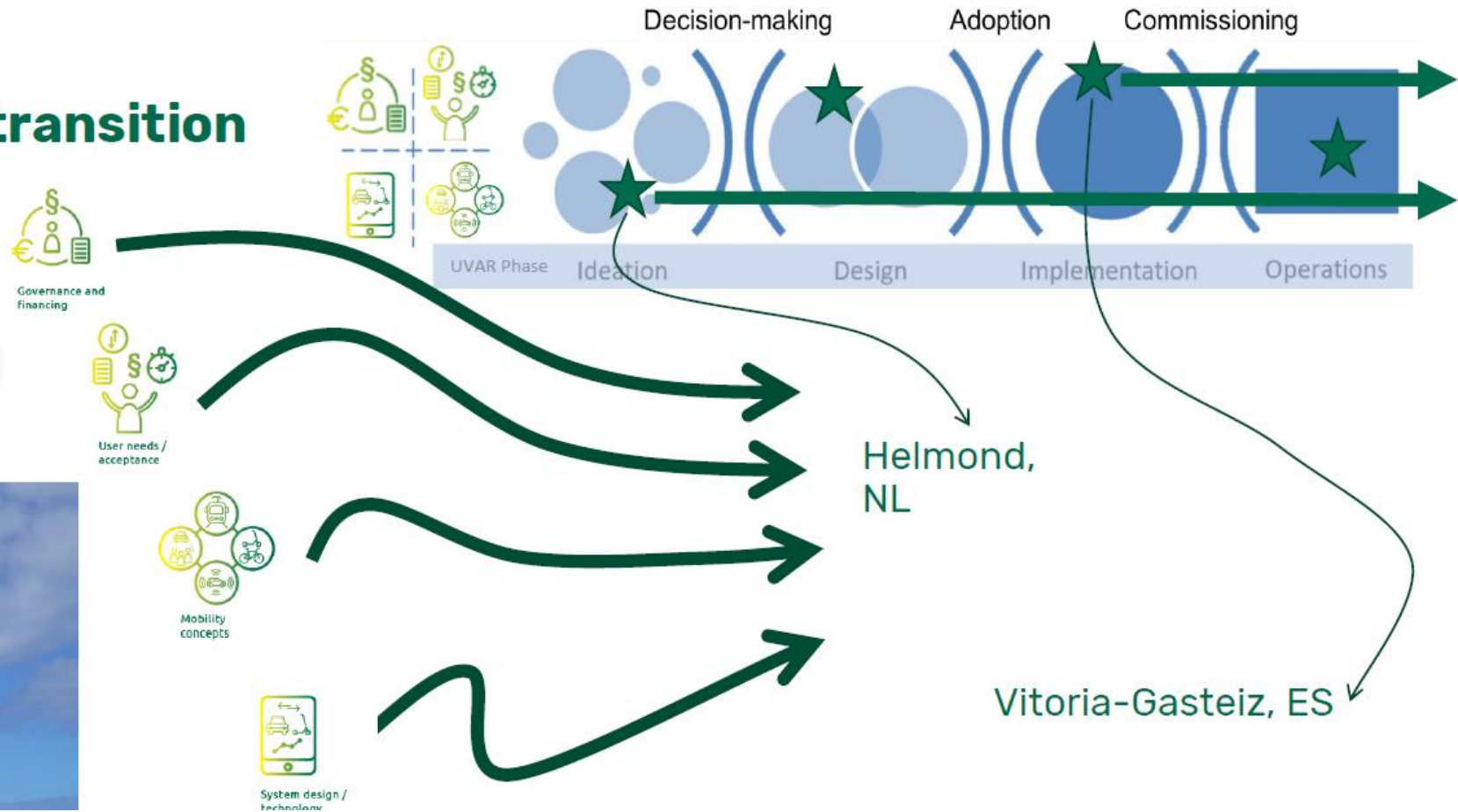


### Breaking up the puzzle



### Making up the transition

### Four UVAR Transition Areas







# UVAR Options and building scenarios



### The UVAR Options Database

Eight city cases:

- Barcelona, ES
- Bologna, IT
- La Rochelle, FR
- Amsterdam, NL
- London, UK
- Ghent, BE
- Milan, BE
- Mechelen, BE

### Breaking up the puzzle: Circulation Plan of the City of Ghent



#### Zero-emission zones

Permits for residents  
(2017)

**Use of introductory  
warning letters  
during test period  
(2017)**



#### Spatial interventions

**Road blocks as  
traffic filter (2017)**

Visual traffic  
filters(2017)

**Implementation of  
extra cycle lanes  
(2017)**

**Implementation of  
mixed-use  
pedestrian streets  
(2017)**



#### Pricing measures

LEZ with pollution  
charge in city  
center (2020)

**Updated parking  
scheme (2016)**



#### Future options

Dynamic traffic  
signaling in relation  
to parking plan  
(2016)



Free public transport  
first Sunday of the  
month (2019)

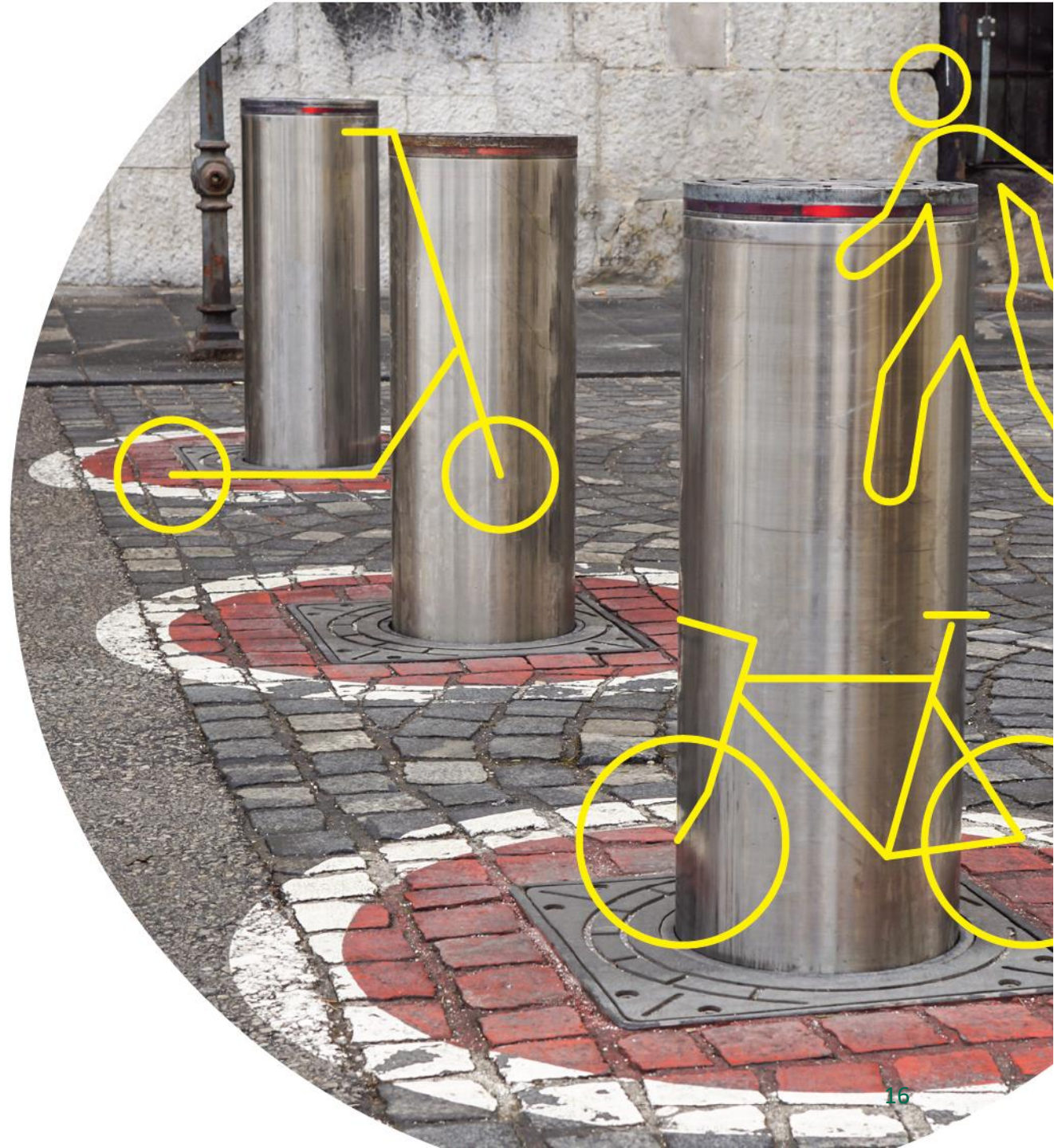
Park & ride + shuttle  
service (2017)

**Pedestrian bus  
(electric) (2017)**





# Pilot implementation and testing



### Our ReVeAL cities

- **Helmond, NL.** Speed adaptation + zero emission zone
- **Vitoria-Gasteiz, ES.** Superblocks
- **London, UK.** Zero-emission zone.
- **Bielefeld, DE.** Spatial intervention.
- **Jerusalem, IL.** Low emission zone.
- **Padova, IT.** Limited traffic zone + superblock.



# Impact assessment and process evaluation



### Impact assessment and process evaluation

- The ReVeAL Evaluation framework
- Qualitative and quantitative data
- Detect patterns
- Draw empirically founded conclusions
- Identify transferable lessons
- Recommendations for practitioners and policy makers

### ReVeAL: The Methodology

- The UVAR transition framework and change management
- The reviewing of UVAR options and building scenarios
- Pilot implementation and testing
- Impact assessment and processes

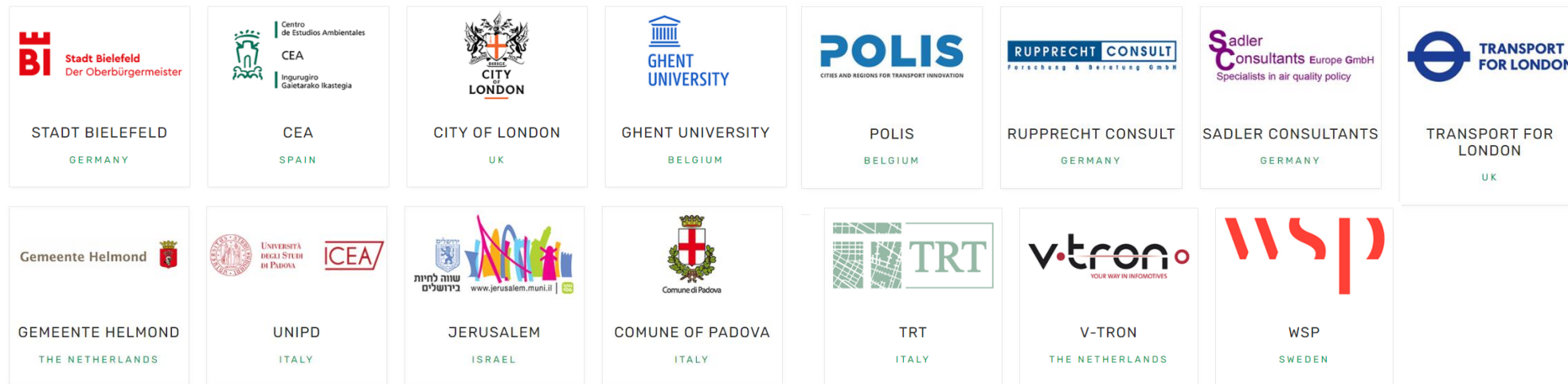
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Our story so far: [www.civitas-reveal.eu](http://www.civitas-reveal.eu)

- Breaking up measures into a UVAR menu list of 68 measure building blocks over 4 categories;
- Describing the impact in its different aspects in 41 impact indicators over 7 clusters;
- Future-proofing measures against 13 classes of trends and future technologies;
- Describing the transition of a city from idea to operation by managing governance, user needs, technology and mobility services.

### Our partnership



### In collaboration with



# Thank you for joinig us!

Maria José Rojo, POLIS  
*[mjrojo@polisnetwork.eu](mailto:mjrojo@polisnetwork.eu)*



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