DEVELOPING
DYNAMIC TRAFFIC MANAGEMENT

(c) Frederik Beyens

This measure consists of different aspects of dynamic traffic management and (smart) data management and use in the city and the port. As part of the CIVITAS project, Antwerp wants to install dynamic signage on the main roads in and around the city to guide traffic towards the desired entry points to the city.

Implementing dynamic signage includes upgrading the parking guidance system and the integration of P&R in the dynamic system as well as the use of data from intelligent cameras to guide traffic in the port area. Furthermore, the Antwerp Port Authority has planned a network of ANPR cameras at the edge of the port, both for security reasons and to provide statistics on the traffic flow in and out of the port.

Lastly, to further feed a knowledge-based policy approach, insights are needed in the trends and mobility patterns of transport users. The city has a lot of data at its disposal, but the systems are operating separately. A better integration of the different sources is required. Therefore a digital platform back office for traffic data will be implemented.

CONTEXT & CHALLENGES

• **Challenge 1:** Junctions are used by several travel modes. Every user therefore wants 'top priority' in the new configuration. In reality, this is of course not possible, the policy vision determines who gets which priority.

• **Challenge 2:** For the traffic light configuration, the team depends a lot on external factors. Each element in the chain of adaptation can be "the weakest link": Elements such as maintenance works or infrastructure works from several partners can cause delays.

Innovative aspect	Description
A new innovative management system for the traffic lights in Antwerp	A traffic management strategy for new, optimized and dynamic lighting schemes is being designed and implemented
A new traffic management strategy for the Antwerp region	This system will focus on the policy objectives for pedestrians, cyclists, public transport and car traffic.
Development of the NXTMobility platform	An overview of data available, and the future adaptations

• **Challenge 3:** As not all data is yet available, it is still quite difficult to determine how the back office precisely should be managed.

• **Challenge 4:** Historic data collection can be challenging: data can be sensitive.

RESULTS - FINDINGS - LESSONS LEARNED

No.	Objective and target	Rating	Comment
1	A modal shift towards more sustainable modes of transport	★★★	The target of 10000 people avoiding peak hours to the city by car, was met and even overachieved: 14000 cars less have entered the city during peak hours
2	Guiding commuters and visitors through the process of changing their mobility choices and travel behaviour	★★★	The investment of the team in the development of a back office for traffic data, has paid off.
3	Optimising security and mobility in the port area by installing intelligent cameras at the main gateways	NA	A network of ANPR cameras is in place in the port area. Unfortunately no data is available yet due to legislative concerns.
4	Motivating inhabitants and visitors of the historic city centre to switch to more sustainable means of transport by providing them with useful (real-time) data and tools to inform them on alternatives	★★★	The investment of the team in the development of a back office for traffic data, has paid off.

NA = Not Assessed   O = Not Achieved   ★ = Substantially achieved (at least 50%)   ★★ = Achieved in full   ★★★ = Exceeded

• **Recommendation 1:** A dedicated project manager for each sub measure is necessary. Each project manager mentioned (unforeseen) bottle necks or 'growing pains' along the way. A good planning and well thought out timing is necessary.

• **Recommendation 2**: A check of possible technology, legislative and privacy related issues is necessary.

• **Recommendation 3**: The need for a digitalization of mobility flows is becoming increasingly important.

• **Recommendation 4:** Sufficient consultation between several stakeholders is necessary in order to convince everyone of the benefits of the measure.

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