

Objectives of the measure

- **At measure level:**
 - Improve routing from car-traffic to park and ride facilities through use of a digital twin.
 - Promote the use of Park & Ride facilities.
 - Expand the real-time information facilitated through the mobility dashboards (bus departure times or delays, alternative traffic information, ...).
 - Improve user information on mobility options prior and during trip
- **Contributing to city level objectives of:**
 - Reduce individual car-traffic in urban areas
 - Promotion of multimodal transport chains

Description of the measure

- **Situation before:**

Many residents use their cars to travel from the functional urban areas into the city centre. As a result, traffic jams are very common. Through a mobility dashboard solution, we want to shift traffic and make access to public transport as easy as possible.

- **General description:**

We already have a mobility dashboard, which we intend to expand and add further features to: [Startseite | VMZNDS \(vmz-niedersachsen.de\)](#) The switch to PT should be as easy as possible. Within the scope of this project, the Mobility Dashboard will be improved, including the provision of traffic information before the journey or the possibilities for changing to PT, as well as the availability of P+R parking spaces by means of sensor technology.

- **Sub-measures:**

- **HAN_04_01** Data tasting workshop to determine data sources and use cases
 - **HAN_04_02** Equipping P+R facilities with sensor technology (not funded by UPPER)

- **Measure outputs:**

This measure will deliver:

- Prototype of a mobility dashboard or a prototype of an enhanced Mobility Dashboard with new data and integrated real-time public transport data.
- Implementation of mobility dashboard with our traffic management unit (as part of our Team)

- **Supporting activities:**

- Close link/ connection to U-Tools. By using U-SIM live or U-Twin, we can combine and display the available data on public transport use (departure times, road works, delays or other) together with, for example, the data from our cycle counting stations in the best possible way. The U-SUMP tool also helps us to constantly monitor the targets set out in the 2035+ Transport Development Plan. Close collaboration with our traffic management unit

- **Interaction with other city measures: UPPER and non-UPPER measures**

This measure is related to other measures in the city Hannover Region aimed at P+R facilities and the development of a mobility dashboard:

- Installation of sensors in P+R facilities (funded through national “Modellregion” project)
- Control of traffic through our traffic management unit

Target groups and/or geographical impact areas

- **Target groups:**
 - Cyclists
 - Residents
 - Car Users
 - Commuters
- **Geographic impact area:**
 - Whole Hannover Region but also City centre – the mobility dashboard will cover the whole region.

Stakeholders

The following stakeholders will be required for the implementation of this measure.

- Traffic Management unit
- Service Provider of P+R Sensor technology

U-tools support

The implementation of this measure will be actively supported by three IT tools from the UPPER toolkit:

- **U-SIM live**
- **U-TWIN**
- **U-SUMP**

Link to other UPPER measures

This measure is similar to UPPER measures implemented in other cities, especially:

- **BUD_04:** To improve the route planner to increase the user satisfaction
- **LEU_03+04:** To increase visibility and ease of use of public transport by offering improved information on public transport, parking and shared mobility options
- **TES_01:** Optimum transfers on P&R areas based on real-time data
- **TES_05:** To enhance the information provided through adapted services for different groups of passengers

Process of implementation of the measure

Stages	Description	Intermediate milestones
Design	Decide which data should be found in the Mobility dashboard	<ul style="list-style-type: none"> - Good Design - Easy to use - Compatible with different devices
Implementation	Implementation of a Mobility Dashboard in cooperation with the traffic management unit	<ul style="list-style-type: none"> - Successful Development - Number of Clicks on the Website with regard to PT

Sub-measures and preliminary indicators

Measure	Sub-measure (if applicable)	Impact indicators
HAN_04_01	Data tasting workshop to determine data sources and use cases	<ul style="list-style-type: none"> - Number of Organizations/ People who take part of the workshop
HAN_04_02	Equipping P+R facilities with sensor technology (not funded by UPPER)	<ul style="list-style-type: none"> - Capacity utilisation of the P&R stations - Number of enquiries about routing to a P+R car park - Impact of Mobility Dashboard on occupancy of P+R parking spaces