

# traffic light **REPORT**

Magazine for traffic engineering



TRAFFIC LIGHT FACILITY

RADAR / LASER

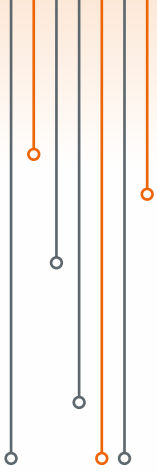
PARKING

ELECTRIC MOBILITY

INTERNATIONAL

SPECIAL

## Mobility - Reliable and Safe



## EDITORIAL

*Dear Readers!*

*Strenuous but also very successful and pleasant trade fair days are now behind us. Every time I look forward to meeting the customers with whom I have daily telephone or written contact; having common discussions and drinking a cup of coffee.*

*This year, for the fifth time, I was at the INTERTRAFFIC in Amsterdam. For the first time, RTB was an exhibitor at the world-wide largest industrial trade fair in Hannover – and for me as well, it was a debut. Along with the innovations in electric mobility, the newest developments in the field of Industry 4.0 were particularly exciting for me.*

*In Amsterdam and in Hannover we could have numerous discussions with familiar, but fortunately, also with new potential customers. As a member of a super functioning trade fair team, participation is especially pleasant. The effort was well worth it. And once again we saw that nothing can take the place of personal contacts.*

*Visit us again soon, we look forward to meeting you!*

*Sincerely,*

*Sandra Wille*

*Sandra Wille*

CONTENTS & EDITORIAL 2

GENTLE NOISE REDUCTION  
Dialogue-Display Against Motorcycle Noise 3

IMPRESSIONS INTERTRAFFIC AMSTERDAM  
Fireworks of Innovations! 4/5

PARKING AS ADVENTURE  
A Component for Vibrant Inner Cities 6

SUSTAINABLE ELECTRIC MOBILITY  
Environment-friendly Mobility for Companies 7

IMPRESSIONS OF THE HANNOVER TRADE FAIR  
Debut – a Perfect Success! 8/9

SAFE, SPECIFIC GUIDANCE  
Electric Mobility as a Risk for Blind Persons 11/12

ODDS & ENDS 12



## GENTLE NOISE REDUCTION

### Dialogue-Display Against Motorcycle Noise

In the fight against motorcycle noise, the Nature Park Eifel is using the device combination TOPO and Dialogue-Display. Following successful projects in the Black Forest, those responsible decided to use this gentle method to encourage motorcyclists to reconsider their driving behavior.

On highway B 266 in the vicinity of Einruhr, the system records all vehicles travelling uphill. Thereby, TOPO integrated in a guide post, measures speed and volume. If the limit is exceeded, the downstream Dialogue-Display calls for quieter driving. For correct driving behavior, a green THANKS is displayed.

Karl-Heinz Hermanns, mayor of the community Simmerath, makes it clear: "We warmly welcome every motorcyclist in our community, but we do not want speeders and racers." Also, the initiator of the device installation, Oliver Krischer, Mem-

ber of Parliament, states: "95 percent of the bikers drive sensibly. And with the others we don't give up hope for a change of mind".

Within 24 hours, the devices were able to determine a first "front runner". A motorcyclist reached 120 dB – comparable to a jet plane taking off. Thus, the financial support by the Booster National Park Eifel together with the National Park Administration is well invested. "Animals and plants enjoy the highest protective status in the national park but just a few meters away they are bothered by extremely health-threatening noise", says Sabine Wichmann, chairperson of the Booster Club. Particularly in this environment worthy of protection, the use of the device combination TOPO and Dialogue-Display has great meaning. To achieve sustainable success, further facilities in the region are planned.



### Dialogue-Display: Study in Munich

Munich invests in traffic safety! Currently a study is being conducted to increase bicycle safety on a four-lane main access street using the Dialogue-Display. Initial results already show a clear improvement in the situation with a sustainable reduction of speeds being driven. An important side effect for the residents in the vicinity can be detected: the noise reduction at night! Following the conclusion of the study we shall give a detailed report. Look for it!

- TRAFFIC LIGHT FACILITY
- RADAR / LASER
- PARKING
- ELECTRIC MOBILITY
- INTERNATIONAL
- SPECIAL



Fireworks of innovations! RTB was able to make many personal contacts and new connections at INTERTRAFFIC 2018. The topics electric mobility and calibration regulations, the 3D camera to report parking and Loc-ID were met with great interest by visitors. These are valuable innovations that will shape the future.





# Infoc

## Amsterdam 2018





Bildquelle: www.fotolia.de

## PARKING AS ADVENTURE

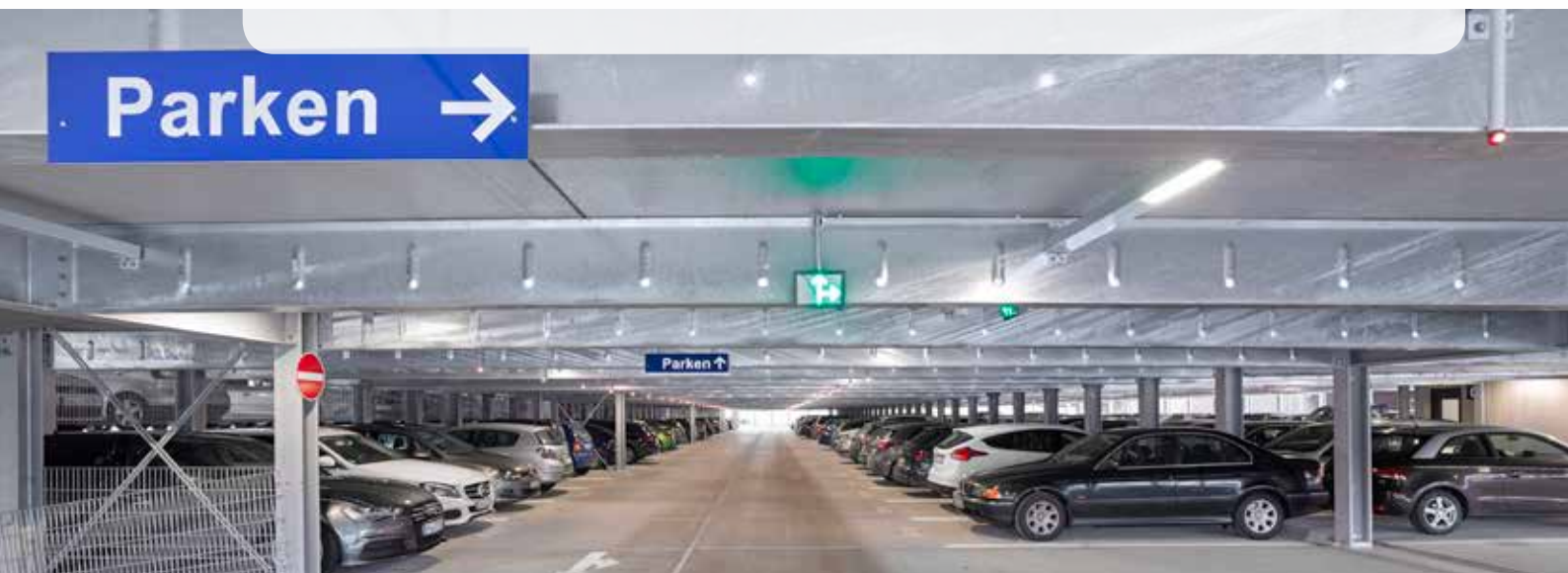
### A Component for Vibrant Inner Cities!

Inner cities must become more attractive! Here all those responsible in the field of urban planning agree. But how can one achieve this considering the increase of online sales? It is obvious that on normal work days fewer and fewer people populate pedestrian zones and stores. To make inner cities more attractive and more vibrant again, several factors must be considered. An important component is comfortable parking.

Parking as an adventure can clearly increase the value of visiting the inner city. For example, the parking time can be used simultaneously as charging time for electric vehicles. Reservations of charging spaces make sure that searching for appropriate parking spaces is no longer necessary. Along with this, additional services for cars can be offered. The vehicle could be washed or later be delivered to a pre-planned location so

that heavy purchases need not be carried so far. Here autonomous driving plays a role. Vehicles seek their parking space independently and can then be directly available again later.

The RTB products LOBO and the innovative charging system complement each other perfectly in this field. LOBO reliably and precisely determines the exact parking situation in the parking garage and directs the car driver via dynamic guidance specifically and quickly to the nearest parking space. In the meantime, the charging system makes sure that the parking time is used effectively to charge electric vehicles. Here the safety concept stands at the forefront: If no vehicle is connected, the charging stations are disconnected from the power source. Additionally, the system fulfills the calibration regulations and guarantees secure and comfortable billing!





## SUSTAINABLE ELECTRIC MOBILITY

### Environment-friendly Mobility for Companies

Electric mobility is the big topic of future mobility. This was seen clearly at the Hannover Trade Fair 2018. Especially for companies, electric vehicles present an economical and sustainable environment-friendly means of transport. More and more companies contemplate use as company cars, particularly when commuting between several production locations is necessary.

Meetings, controls and goods traffic within a company can be well covered with an electric company fleet. Thus, companies can clearly improve their environmental image and involve employees on the way to an environment-friendly mobility. Along with charging fleet vehicles, an employer could create possibilities for charging the private vehicles of employees.

If regenerative energy is added, for example through photovoltaic facilities on company buildings, sustainability enters new dimensions. RTB offers the perfect equipping for employee parking garages with the combination of innovative charging system and dynamic parking guidance system. The first projects have gone successfully into operation, others will follow.



- TRAFFIC LIGHT FACILITY
- RADAR / LASER
- PARKING
- ELECTRIC MOBILITY
- INTERNATIONAL
- SPECIAL

▶ Guiding ▼ Parking ● Charging



**Debut – a perfect success!** The first appearance of RTB as an exhibitor at the world-wide largest industrial trade fair came off as a total success. With the emphasis on electric mobility and parking, the company was right on target for modern times. Numerous discussions and exciting exchanges on site show that RTB and its partners are on the right track.



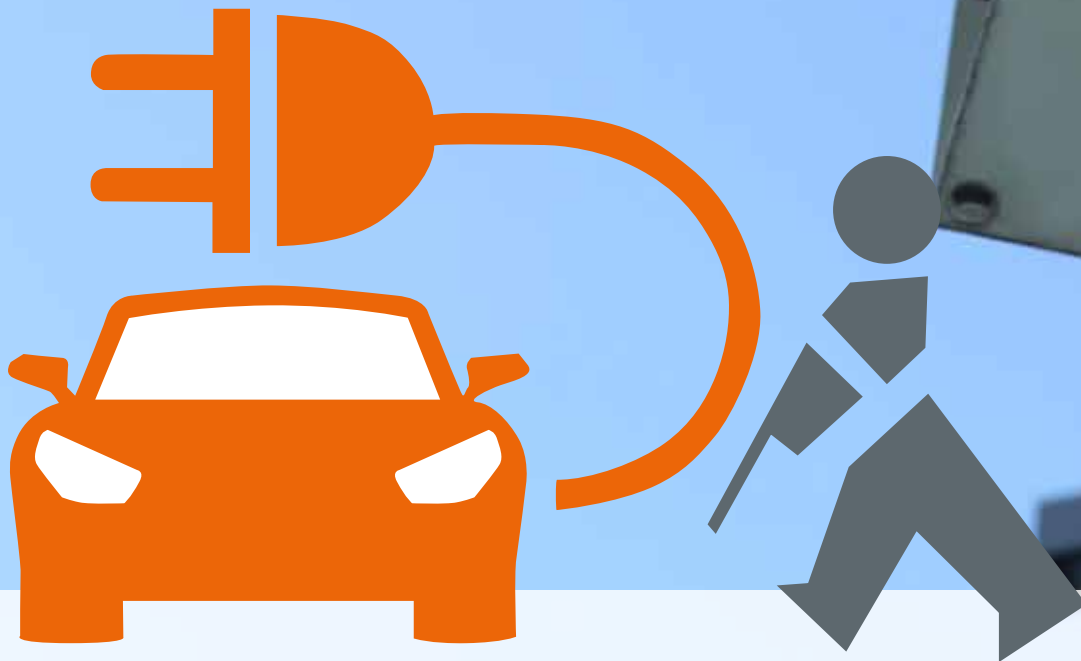




# nowover

## Trade Fair 2018





## SAFE AND SPECIFIC GUIDANCE

### Electric Mobility as Risk for Blind Persons

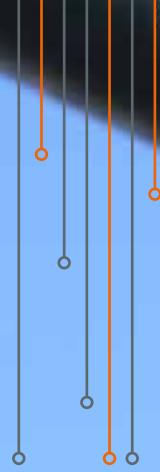
The positive development of electric mobility also brings dangers for certain groups of people. Above all, children, pedestrians and particularly blind and low vision persons who are completely dependent on hearing are affected. And that is exactly the problem, because electric vehicles don't produce the usual vehicle noise.

It is true that some manufacturers are "tinkering" on the perfect sound, that should meet all demands and some cars already emit a special signal that most often fades in general traffic noise. Since low vision and blind persons often move parallel to traffic and orient themselves with it, the quiet electric vehicle harbors an enormous danger, because it is easily not heard.

According to Gerhard Renzel, leader of the Traffic Committee of the German Association of Blind and Low Vision Persons, associations for blind persons have been pointing out these dangers

since 2006. "We have no eye contact with drivers and must be able to hear if a vehicle is approaching, speeding up or slowing down. A sound is absolutely necessary for safety reasons!" (1) Currently experts are not completely in agreement as to the speed up to which an electric vehicle must be heard (up to 20 or 30 kilometers per hour). The recommendation of the United Nations about this states that an electric car with a speed of 20 must be at least 56 Decibel loud. However, one should work on a solution here that takes the ambient noise into consideration. By the way, the increasing number of electric bicycles creates an additional danger.

Even more important is a specific and safe guidance via acoustic signals. RTB has been using its acoustic unit at traffic light facilities successfully for 25 years. During time, above all, the sound alignment and the adjustability of the acoustic unit have been optimized to meet constantly



increasing demands. Furthermore, RTB adapted the optical design to the modern LED signal transmitters.

A further important component to ensure the mobility of persons with limitations in public transportation is the new Loc-ID – a radio-based system. A free App on the Smartphone of a blind or low vision person functions as a transponder. If the user approaches a traffic light facility outfitted with a receiver, the volume of the orientation signal is appropriately increased. In this manner, the user is quickly and directly guided to the pole. Furthermore, the system is also used in public transportation, for example to automatically announce passenger information.

(1) Source:  
Westfalen-Blatt Nr. 98, Friday, April 27, 2018



- TRAFFIC LIGHT FACILITY
- RADAR / LASER
- PARKING
- ELECTRIC MOBILITY
- INTERNATIONAL
- SPECIAL

## EDUCATIONAL MEASURE

A 29-year-old will not forget this activity so soon:

In a drunken condition, a man kicked over and ripped out a total of 34 guide posts. A witness informed the police who not only took down the personal data of the drunkard but also implemented an unusual educational measure. He had to walk back along the almost two-kilometer-long stretch to put every single post back in place. Certainly the 29-year-old learned something for the future from this! By the way: TOPO guide post census devices were not involved.



## QUITE SUCCESSFULLY

... broods this wild goose on the campus of the Hannover Trade Fair. But what do the RTB developers have in common with her? They too, are always brooding something new! With fresh ideas, they go directly from the trade fair to their desks to work on further promising innovations. We'll keep you informed!