


No 106
SPRING 2025 VOLUME 36

Traffic Light REPORT

The magazine for traffic technology



HAMBURG
WANTS
TO KNOW IT!





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Dear readers,

Reducing bureaucracy is a hotly debated topic, especially in business. Fewer regulations, less paperwork, less effort and capacity commitment, but more flexibility and freedom in the design and development of business processes are needed.

In the quest for simplification, it is important to remember that not every regulation is an obstacle, especially in safety-critical areas. Traffic light systems, for example, are not just about controlling traffic, but above all about ensuring the safety of vulnerable road users by reliably avoiding disruptions.

Systems must not only function reliably, they must also be protected against tampering and failure, especially in critical areas. For our products, this means that long-established safety targets, such as SIL3, must not be compromised. Certifications of relevant processes, including ISO 27001, will play an even greater role in the future to ensure a high level of safety.

The trick is to reconcile the two. This is achieved through efficiency in the implementation of security standards. In this way, functioning systems can be implemented that guarantee people's safety and at the same time reduce bureaucracy.

That is and remains our aim!

We hope you enjoy the new issue of traffic light report.

Kind regards,


Christian Ehring

HEROES NEVER GIVE UP!

Radar sensor

Camera
for
Control

"Good things come to those who wait" - this proverb also applies a little to our TOPO.bike system. Because it took a while for the first installed bike detectors to start working. The reason for this is that our very high demands on detection rates had to be met. We are therefore all the more pleased that TOPO.bike is now also being used directly in the prominent surroundings of the stadium of our second league soccer team SC Paderborn 07. Their motto "Heroes never give up" applies perfectly, because the TOPO.bike sensors deliver as successfully as SCP 07 currently does. With a detection rate of 95% in the detection of individual cyclists and in the bulk resolution, as well as a very high detection rate of over 80% in the detection of pedestrians, the innovative TOPO.bike radar detector is proving to be very superior. Of course, we are continuously working on further increasing the detection rates so that these can be made available via future software updates.

The system is currently particularly suitable for use on cycle paths or mixed cycle/walking paths. Development is being driven forward so that it will also be possible to use the system in mixed traffic.



The system is quick and easy to set up and to control via the TOPO.app. In addition, the recorded data can be analyzed and further processed via the familiar DD.web platform.

**WE ARE LOOKING FORWARD TO A TOP SEASON -
IN SOCCER AND ON THE BIKE!**

HISTORY OBLIGES



Source: Amt für Straßen und Verkehr der Stadt Bremen, Tim Campen

LOC.id IN BREMEN



INNOVATIVE MOBILITY NETWORK IMPRESSES

ninety-ninth

LOC.id-City

The city of Bremen has long been committed to traffic safety through the use of traffic light systems. Bremen's first traffic light system went into operation on 4 June 1928, after it had become clear that the traffic regulators were exposed to a constant risk to life and limb as traffic volumes increased. Experience with traffic lights in other cities led to the decision to use them in Bremen as well. Acceptance among the population had to grow slowly, as there was scepticism and mistrust at first. However, the continuous improvement of the traffic lights and the extension of their functionality to include push-button pedestrian lights made an impact.

Today, the city of Bremen operates 628 traffic light systems that guide cyclists and pedestrians safely across busy roads. Naturally, vulnerable road users such as blind and visually impaired people are also taken into account and guided safely across the road by additional acoustic equipment and tactile signals. Bremen has always been a pioneer in the introduction of innovations in road traffic and is now taking the next step with the use of LOC.id technology. Digitalization, which has become indispensable in the age of smartphones, is also becoming increasingly important in terms of accessibility in public spaces. And so blind and visually impaired people in Bremen - **as the 99th LOC.id city** - can rely on the fact that they can use the activated LOC.id app on their smartphone to raise the volume of the orientation signal at traffic lights and thus find the traffic lights better and more reliably.

RTB is happy to accompany this path, also with regard to other fields of application.

RTB IS HAPPY TO ACCOMPANY THIS PATH, ALSO WITH REGARD TO OTHER FIELDS OF APPLICATION.

MAKING THE INVISIBLE
VISIBLE / AUDIBLE



LOC.id IN CHEMNITZ

INNOVATIVE MOBILITY NETWORK IMPRESSES

hundredth

LOC.id-City

Under the motto “C the Unseen - Seeing what lies hidden”, the city of Chemnitz has been selected as the European Capital of Culture 2025. Chemnitz - a city full of contrasts, characterized by ruptures and new beginnings, is today a successful business location with around 16,000 companies, dominated by the automotive and mechanical engineering industries.

As a city of culture, Chemnitz is characterized by a traditional and renowned five-division theater, the Industrial Museum, the State Museum of Archaeology, the Chemnitz Art Collections and the Gunzenhauser Museum with one of the most impressive collections of classical modern art. In terms of urban development, Chemnitz reflects an exciting contrast of tradition and modernity, so it is no wonder that the city is now one of the top 10 most liveable cities in Germany and scores particularly well with its wide range of offers for families.

Technological innovations are supported not least by the Technical University of Chemnitz and the Fraunhofer Institutes, which means that Chemnitz - **as the 100th LOC.id city** - is also ideally equipped for the digital transformation and assumes great responsibility in the area of accessibility. In the area of traffic technology, this is now evident in traffic light systems equipped with modern LOC.id technology from RTB. In this year's European Capital of Culture, people with special needs will also benefit from easy-to-find traffic lights, as an acoustic orientation signal will automatically increase in volume when approached with the LOC.id app activated on the user's smartphone, making it much easier to find, especially for people who are blind or visually impaired.

And even Peter Kallfels' emperor penguin colony apparently made the best use of the orientation signals on their way south to safely cross the street.



Numerous other possible applications, e.g. in local public transport or to safeguard construction sites, are possible and will continue to be discussed in direct contact with those responsible.

INTERNATIONAL MILESTONE FOR LOC.id:
VILNIUS SETS AN EXAMPLE
FOR INCLUSION



LOC.id IN
VILNIUS

INNOVATIVE MOBILITY NETWORK IMPRESSES

one hundred first


LOC.id-City

Vilnius is the capital of Lithuania and the country's most populous city with around 612,000 inhabitants. In terms of area, it is the largest city in the Baltic region and with its historic old town, which is one of the largest in Eastern Europe and well worth seeing, it was declared a UNESCO World Heritage Site in 1994. Where so many people come together and the "pulse of life" beats, the volume of traffic is often high. This in turn presents an obstacle and often a safety risk, especially for people with special needs.

However, Vilnius - **as the 101st LOC.id city** - is now setting an example for accessibility in public spaces by equipping over 200 traffic lights with RTB's LOC.id technology. The course for this was already set in 2023 - now the Lithuanian capital is becoming an international LOC.id stronghold. The plan is to retrofit existing acoustic systems with the LOC.id board and to install new complete sets so that blind and visually impaired people in Vilnius will soon be able to cross the road much more safely and comfortably.

Particularly noteworthy here are the efforts of the Lithuanian Ministry of Transport to change the regulations for traffic lights and set new standards. If RTB push buttons, acoustic units and LOC.id become established, this would certainly send a positive signal to other Baltic states. In any case, we are doing everything we can to support these efforts in the best possible way and are delighted with the successes achieved so far in the area of accessibility.

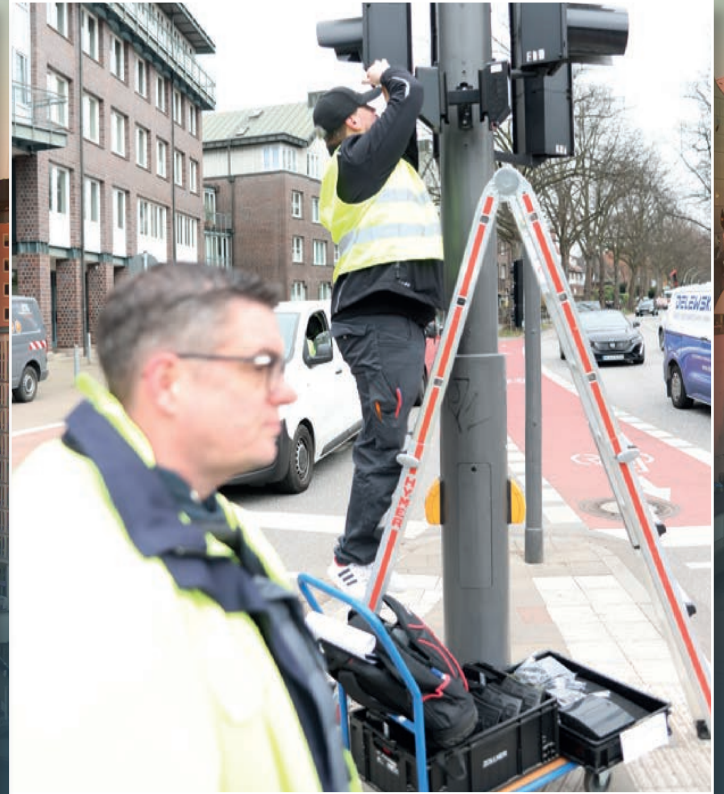




HAMBURG WANTS TO KNOW IT

The city of Hamburg remains the capital of innovation. Many groundbreaking innovations were already put on the road there in 2021 on the occasion of the ITS World Congress - and it continues! The autonomous people mover HOLON, whose manufacturer - Benteler AG - comes from the Paderborn region, like RTB, is due to be launched this year.

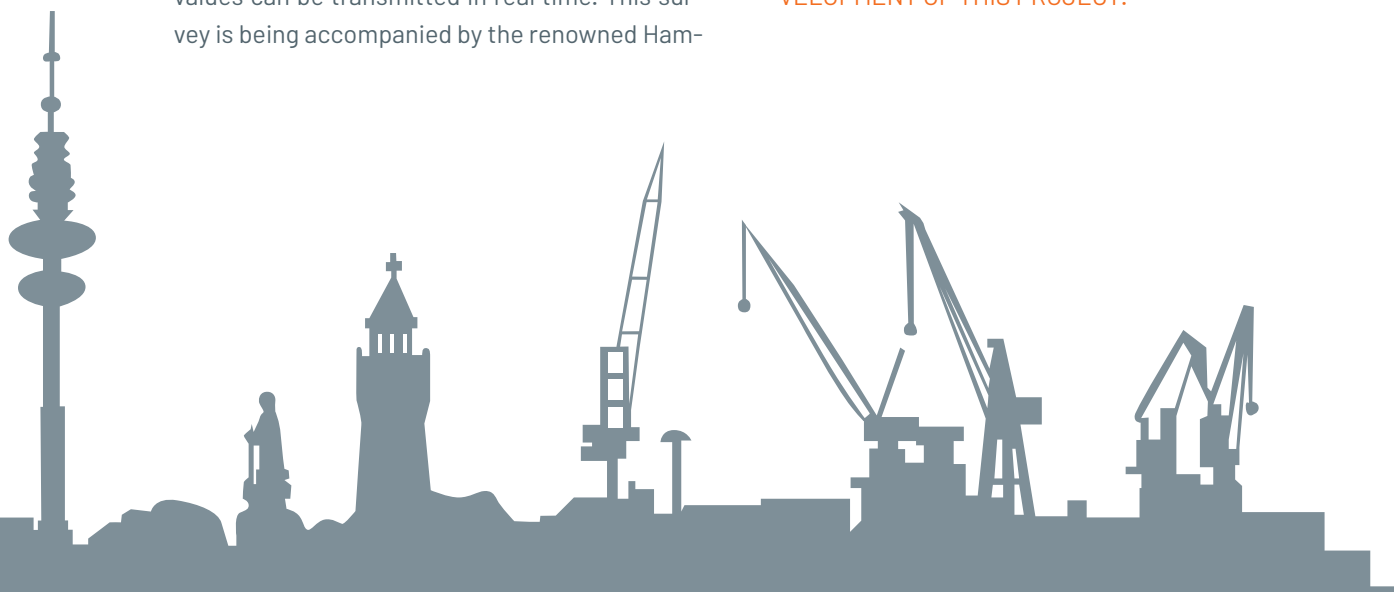
The city of Hamburg is also implementing another innovative idea. The fact that additional acoustic devices for the blind and visually impaired are equipped with a microphone at traffic lights is nothing new. The devices can adapt to the ambient noise level, providing optimal protection for residents and ensuring safe mobility.



But could the measured dB values also be used to actively influence the flow of traffic? This was the question on the minds of those responsible and so three traffic lights in a row have been technically updated so that the measured dB values can be transmitted in real time. This survey is being accompanied by the renowned Ham-

burg-based company LÄRMKONTOR GmbH, so that this innovative idea is based on scientifically proven results.

WE WILL KEEP YOU UP TO DATE ON THE DEVELOPMENT OF THIS PROJECT.

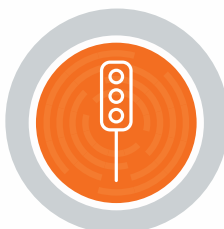
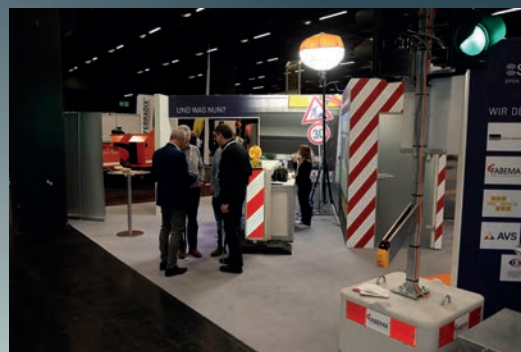


NETWORK PRESENCE AT DeuSAT IMPRESSES

The first joint appearance of the smart mobility network at the trade fair in Cologne was a resounding success. The focus was on the safety of blind and partially sighted people at construction sites. For this group of people in particular, roadworks are a major obstacle with enormous safety risks, especially when they are located on pavements. The companies exhibiting at the 11th German Roadworks Conference in Cologne showed that there is another way. Visitors were able to see live how digital solutions such as LOC.id can provide safe acoustic guidance.

The network was particularly impressive because it is open to ALL. This means that any provider with an application that supports people with disabilities in public spaces can become a member of the network and be supported by the LOC.id technology.

We are pleased that we were able to not only raise awareness of this important issue, but also convince people that accessibility is possible – even on construction sites.



PRINTING

Machradt Graphischer Betrieb KG, Bad Lippspringe

EDITING

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Image source: RTB GmbH & Co. KG, www.stock.adobe.com