



# *Getting attention is our job.*

We bring safety to the street.



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***Protecting people  
is what drives us.***

Traffic lights, with bright signal colours, reflective warning signs, massive steel and concrete barriers: Our products are anything but inconspicuous. And that's just as well. As Germany's leader in professional traffic safety, we ensure that all road users arrive safely through the danger zone of the construction site. With more than 900 skilled workers, at many locations in Germany and throughout Europe. For 60 years.



» We at AVS want you to arrive safely. That's why our teams are out on the street every day. «

Dieter Berghaus,  
Member of the Advisory Board of the AVS Group



## ***Vision Zero: Every life counts.***

No fatalities and injuries in road traffic: That is the goal of Vision Zero. Developed in Sweden in the 1990s, the strategy is now a Europe-wide basis for safe transport concepts. At AVS, we see ourselves as an important partner and initiator, in Germany and internationally. We have always been ahead of the times with the development of our products.



### **More traffic on crumbling roads**

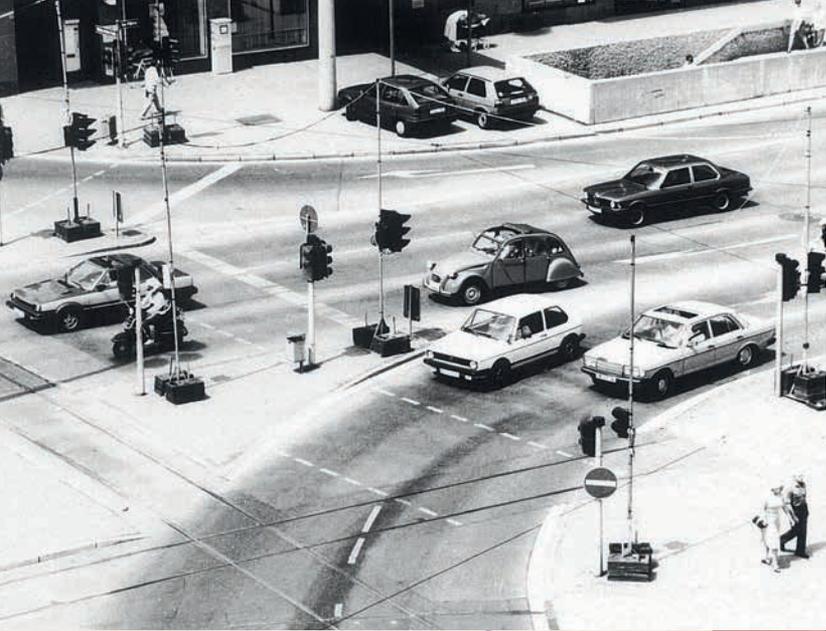
When AVS developed its first hedging products in the early 1960s, the German motorway network comprised approximately 2,500 kilometres – with around eight million registered vehicles. Today, it counts as the second most dense traffic network in Europe, with more than 13,000 kilometers of highway, almost 38,000 kilometers of federal roads - and with more than 66 million vehicles with license plate D. Free ride from Hamburg to Munich? That was once. The reality is called stop-and-go. Because more and more companies are moving goods from rail to road. But also because private traffic is increasing from year to year. In addition: The infrastructure has aged, cracks and potholes are increasing, whole road sections are bagging, bridges are crumbling.



### **Safety in the first place**

Wherever roads need to be refurbished, we are there. AVS ensures that work sites are optimally protected, yet traffic flows as well as possible. Our mobile light-alarm systems and safety barriers provide orientation and thus, increase safety in the construction site area. This is how we help the Vision Zero to get a step closer every day. The integrity of people in road traffic is the first priority at AVS.





» If one out of ten ideas  
is successful, that's fine. «

Peter Berghaus, CEO of the AVS Group



## ***Motivation runs in our family.***

An inventor, tinkerer; always one step ahead of the others: This is how long-standing employees describe the company's founder Peter Berghaus. At the beginning of the 1960s, the trained electrician developed the first radio traffic light and in doing so, created the nucleus for AVS, now Germany's largest traffic safety company. All that he needed for this was a built-in wireless device and the step camshaft of a washing machine. "At that time my mother had to wash by hand again for a start," recalls Berghaus-son Dieter, today member of the Advisory Board of the AVS Group, of the entrepreneurial beginnings of his father.

### **Pioneer of road safety**

"If one out of ten ideas is successful, that's fine": Peter Berghaus continues to develop his company according to this motto. The company initially started in the family home in Oberblissenbach, 25 kilometres (km) northeast of Cologne, but grew quickly. After the development of the radio traffic light, more products are added – from crossing control units to signage and road markings to the first mobile safety barriers. They all help to ensure that the job is always more professional.

# Funk-Ampel

Typ FPB 1

**PETER BERGHAUS** 506 Bensberg-Dürscheid  
Blissenbach 30  
Tel. Nr. 02207/1434

**ELEKTRONIK - FUNK - STEUERUNGSBAU**

# BERGHAUS FUNK-AMPELN

**Daten, auf die wir stolz sind:**

**1964** Die ersten BERGHAUS-Funkampeln erregten Aufsehen in Fachkreisen.

**1968** Eine Weiterentwicklung... Jetzt auch zum ersten Mal Einmündungs- und Kreuzungsverkehrsregelung durch BERGHAUS-Funkampeln möglich.

**1971** Eine Neuentwicklung Typ FPB 1/1N für Einbahnverkehrsregelung mit diesen Vorteilen.

**P. BERGHAUS**  
Funk-Steuerungstechnik  
— Signaltechnik —

506 Bensberg-Dürscheid · Blissenbach 30 · Postfach 6  
Telefon 02207/1434

### Manufacturers and service providers combined

Early on, Peter Berghaus was no longer limited exclusively to the development of products. He expanded his business model to service offerings and established the M+V GmbH, in 1984: This is where he rents the self-developed and manufactured products. Over the years, this has resulted in the AVS subsidiary companies.

### Mobile safety barriers for every use

Peter Berghaus invests on a large scale in mobile safety barriers: In 1992 he offers a steel model for the first time. It lays the foundation for the ProTec series, which is currently used worldwide: The products are made of a particularly secure steel-concrete combination, are easily transportable and mountable and suitable for any construction site use.

### Germany-wide expansion

Over the years, AVS expands its presence in Germany and internationally either by establishing new locations or by integrating external partners. Today, AVS operates across Germany.



### » Milestones

Our detailed company history can be found on the information sheet at the end of the brochure, at [avs-verkehrssicherung.de/en/](http://avs-verkehrssicherung.de/en/) or here:





***Full service  
from a single source.***

Whether it's a small street intersection or a major project – we at AVS are the first to come to the construction site and the last to go. Our contractors include, in particular, authorities and the construction industry. We take over the complete planning and implementation of the security of the sites for you. This includes comprehensive advice and the necessary approval procedures for all traffic safety devices, as well as assembly, maintenance and dismantling. With our products we rely on the highest quality standards: Everything we offer our customers is tested a hundred times by our teams for outdoor use.



**Traffic sign drawings:**

No construction site is without a traffic sign plan: Through our transport experts we create it quickly and professionally – and take care of all traffic licensing procedures.

**Portable light-alarm systems:**

For decades we have been developing and producing on behalf of our customers and for our own requirements.

**Mobile traffic warning systems and interchangeable signs:**

With the help of modern information systems we inform and warn road users about any dangers and disruptions in road traffic in good time.

**Mobile safety barriers:**

Products from our own development and production are used worldwide. With our stock of safety barriers we are among the leading service companies in Germany.

**Assembly:**

Through our assembly teams we are able to model almost any traffic safety situation, quickly and professionally.

**Marking and demarcation:**

With special machines from our own fleet we carry out all kinds of site markings ourselves and remove them in an environmentally friendly manner without leaving any residue.

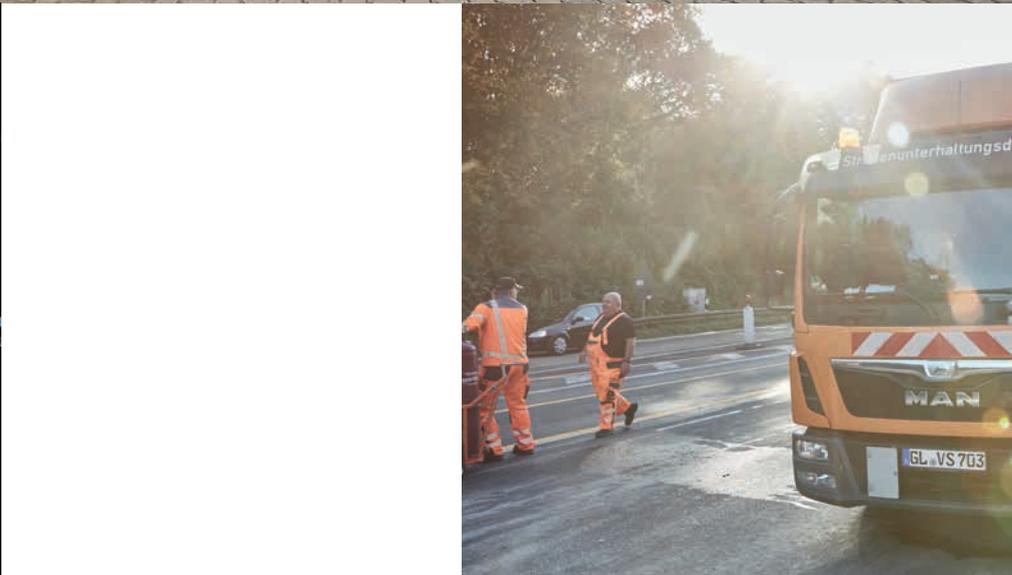
**Maintenance and control of construction sites**

In city centres, out-of-town areas and on motorways we also carry out regular inspection and maintenance of construction sites - competent, reliable and with documentation in real time.

» You will not find a company  
with a comparable comprehensive  
range in Europe. «

Dirk Schönauer,  
COO International of the AVS Group





## Making headway.

An example of professional traffic safety from AVS.



### Show the way:

Mobile safety barriers on sites increase traffic safety. They reliably separate traffic flows (in the opposite direction) in the site area, protect road users from leaving the road and serious accidents caused by oncoming traffic. Mobile safety barriers also allow for a largely safe working environment.



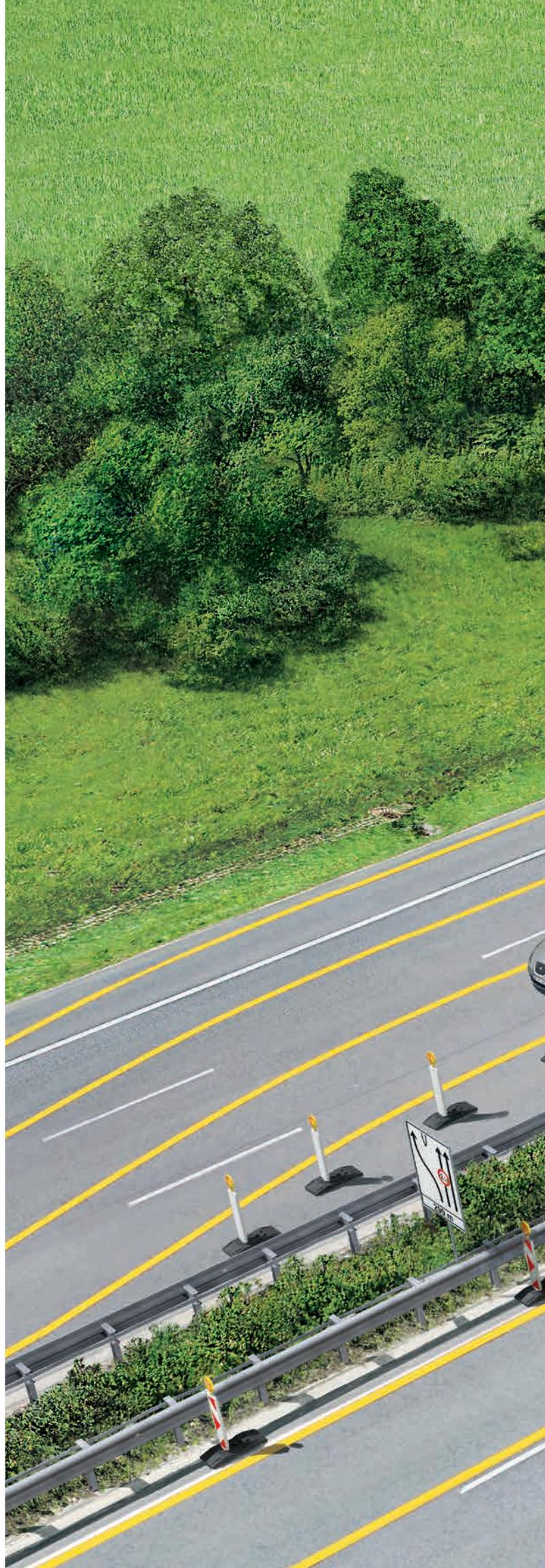
### Catch the eye:

Running lights are ideal for traffic management in the site area. Construction lights are used for safely driving in the pivoting range. Bright LED technology actively warns against work and hazard points and shows road users the safest way.



### Make night to day:

LED lighting systems, such as Powermoon®, enable safe and glare-free work at night. Lighting resembling daylight makes drivers aware of the construction site even from afar.







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#### **Remain in the lane:**

Temporary road markings are enormously important for safe traffic management. Due to high reflection values, they clearly show the way to road users, especially in dark and wet conditions.



#### **Warn of dangers:**

Mobile pre-warning boards with LED technology are among the most important safety devices on motorways. Thanks to their flexible representation of traffic signs, text information, pictograms and moving images, they offer maximum functionality and reliability.



#### **Warn at short notice:**

Mobile road signs are used to secure temporary work areas on roads with and without oncoming traffic. As a manufacturer we offer a wide range of different warning signs, for professional traffic safety.

**The graphic shows an exemplary selection of AVS products and services, on the basis of a fictitious construction site. It does not claim to display all existing (in part country-specific) legal regulations and conditions of traffic safety. Since the graphics are not true to scale, for example, the spacing of the products does not match the information on the signs.**



## ***Successful together.***

From Monday morning to Sunday night: Our assembly teams are in use around the clock. In addition to professional expertise, flexibility and full physical exertion, above all a high level of responsibility is required. For your own safety – and the safety of others. Because dangers in the construction site should not be underestimated: After all, our colleagues interfere in the flow of traffic with their work – and frequently in the dark.



*» Our clients appreciate  
the experience and reliability of  
our employees at AVS. «*

Andreas Schwingeler, COO of the AVS Group



### **Permanent training**

We train our employees internally on a permanent basis for their commitment. The knowledge required is highly technical. We prepare newcomers for their job step by step, incorporating them in an experienced team. With our annual safety training, as well as additional qualifications such as obtaining truck or crane driving licences, we also ensure that long-term employees are always up to date and can continue to gain qualifications.

### **The team behind it**

Our colleagues on the road cannot be missed in their bright protective clothing. Less noticeable, but not less important, are the employees who drive the business in the background. Our developers are constantly testing new products. The technicians who keep our rental facilities in good condition. Or colleagues in administration who maintain contact with our customers. Hierarchies do not play a major role with us: We believe in an informal working environment. And this should remain so despite the company's growth.



## ***Progress is our goal.***

Peter Berghaus already experimented with radio traffic lights before there were even radio frequencies for this. We are continuing this pioneering spirit: for example, at our development site Berghaus Verkehrstechnik in Kürten. The result is signs with LED technology that can be adapted from the desk to the traffic situation on site. Or mobile traffic jam warning systems that use special detectors to determine the traffic density. Or GPS devices for site maintenance. The digitisation and the internet of things have long since arrived in the technical traffic security – and we are driving the development forward.

### **In use, throughout Europe**

At various locations in Germany, we produce our ProTec product family, for our own use and for distribution across Europe.

Barriers in the 1990s were made entirely of steel, now the steel-concrete combination is standard at AVS. If barriers were formerly composed of two meters of short sections, we now supply strands of up to 16 metres in length.

### **One innovation per year**

We bring a product innovation to the market almost every year: even safer, lighter and more cost-efficient than the pre-model. And thus, always surpass the legal requirements. In this context, insights from the daily work practices of our assembly teams are often incorporated into innovations or continual product development.

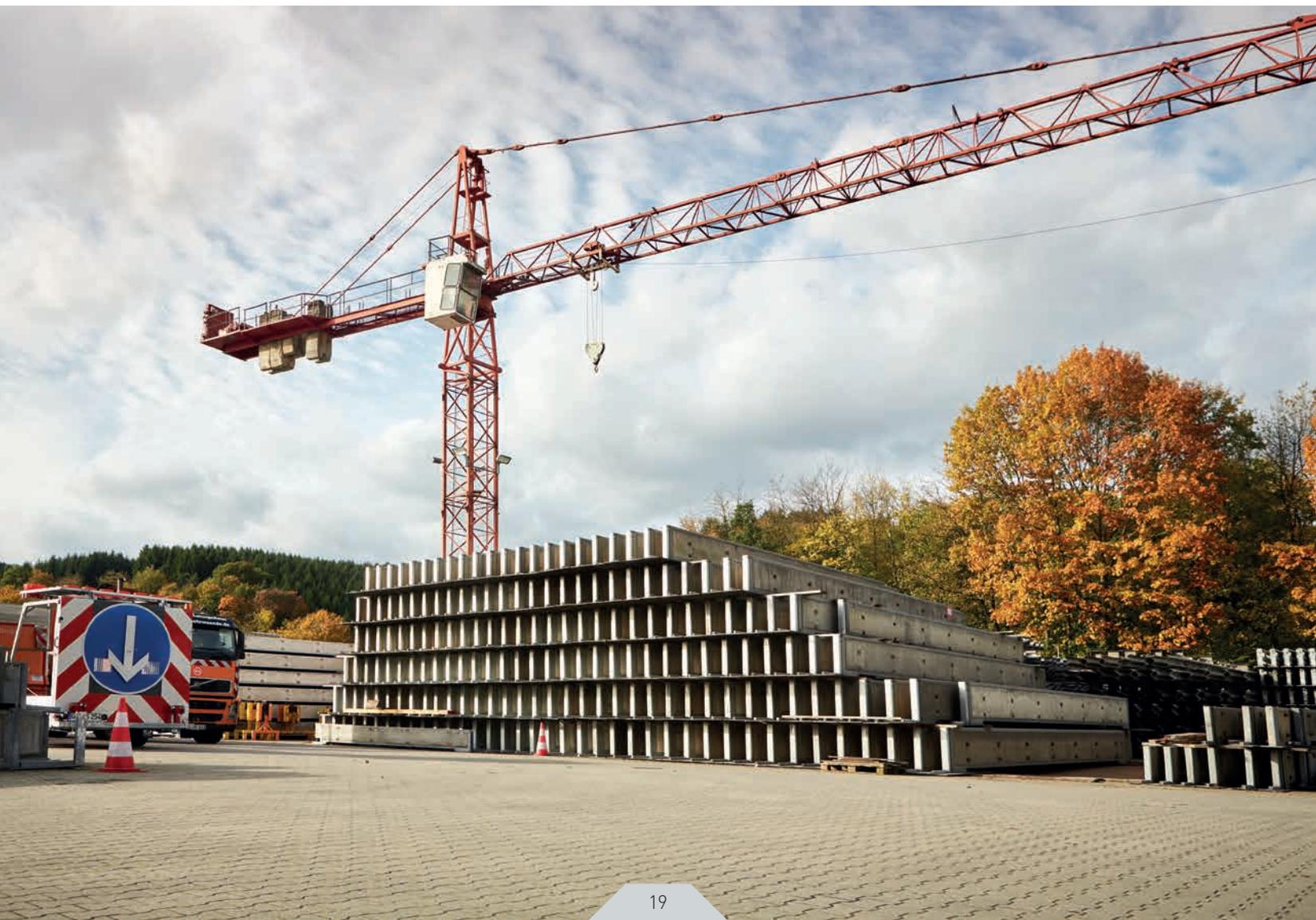
### **Lighthouse projects**

Size, impact and product portfolio make AVS the first point of contact:

- for major projects on the highway: the longer the route, the better.
- for urban and rural projects: local knowledge, daily flexibility and the right products.

### **Driving force and networker**

In order to meet the requirements of growing traffic in the future, AVS is involved in renowned working groups and associations in Germany and internationally.



## ***Big steps – AVS today and tomorrow.***

Today our company consists of several independent companies, within the AVS group. Top management is composed of experienced executives from its own ranks, as well as decision-makers with external knowledge. In 2013, the then CEO Dieter Berghaus sells the company's main shares to Steadfast capital – and thus creates the basis for ongoing and above all faster growth. AVS turns over 14 million euros in 2000, and in 2019 it is 172 million euros. In the same period the workforce increases from 150 to more than 900 employees.

### **Presence in Germany and abroad**

In 2018, the private equity company Triton will join AVS. With a new investor in the back, we are now striving for further expansion abroad. Our EU-certified products for traffic safety are in high demand. Under the Berghaus Transport technology brand we sell new products in Germany and abroad. Also, there are many years of cooperation with national partners, for example in Luxembourg and Switzerland. Our technical facilities are also used worldwide: Inter alia, traffic lights regulate traffic at Auckland airport (New Zealand) or Berghaus in Dubai (UAE).

### **Developing and growing partnerships**

The key to international success is partnerships with local traffic safety. We intend to further expand these in the future. Our reputation as a reliable partner and innovation leader is of benefit to us. The volume of traffic in Germany and abroad will continue to increase in the coming years and decades. And the demands for better protection will also become louder. Highways always have to be repaired – Peter Berghaus knew this early on. We will continue to write his success story.





» *There are enough  
countries in the world where  
we are not yet present.* «

Hendrik Hucke, CEO of the AVS Group



***AVS is looking forward  
to meeting you.***



**Hendrik Hücke**  
CEO



**Andreas Schwingeler**  
COO Germany



**Dirk Schönauer**  
COO International

» **Contacts**  
The contacts can be  
found here:



*» We bring  
safetey to  
the street «*

The AVS-Group



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