



3D safety systems for utility vehicles  
**A SAFE DECISION**

# PROMOTING SAFETY, MINIMISING RISKS.



reverse your utility vehicle safely  
protect workers and citizen  
reduce potential accidents

# AN INTRODUCTION TO VISY

We are pioneers in digital recognition, alerting of potential hazards when reversing an utility vehicle.

**The ViSy safety assistant:** We utilise multi-dimensional interlinking of hard- and software to support the drivers during reversing, turning and other work processes.

Our 3D technology records dynamic and static objects in the surrounding area, permitting early reactions up to **automatic emergency stops**.



# MINIMISE ACCIDENT RISKS FOR YOUR UTILITY VEHICLE

## Problem statement:

### **01 Reversing is inevitable**

In everyday life utility vehicles will have to reverse, which can create high risks for accidents to happen.

### **02 Potential danger for workers and citizen**

By reversing the utility vehicle an extended danger zone occurred where serious and at times fatal accidents could happen.

### **03 The responsibility lies with the driver**

Typically the driver will be held responsible for any accidents caused during reversing, turning or unloading.

### **04 Occupational safety requires safety measures**

The company must take measures to comply with the requirement for safety at work.

## The solution:

### **01 Minimise potential hazards and danger**

We have developed a system that enables you to keep an all around view of potential safety hazards.

### **02 Leverage technological advancements**

Reliable object recognition with our state of the art 3D technology allows the driver or the system (in an emergency) to intervene and react even more precisely.

### **03 Providing the right tools**

The ViSy system provides the driver of the utility truck with the needed risk reducing measures. Those measures are easy to implement and operate on the truck.

### **04 Safety at work at highest level**

Our safety assist program can be used for your company's risk assessment. Our system operates at the highest technical level.

# MAINTAIN FOCUS

**MORE SAFETY FOR  
WASTE MANAGEMENT  
AND SIMILAR  
COMPANIES**

## ULS 3D ULS UNDERRUN PROTECTION SYSTEM

The underrun protection is specially designed for **side loader vehicles**, which lift and lower refuse garbage cans. This process can present a hazard for pedestrians and cyclists while passing the vehicle.

- ✓ Detection of persons and objects in the filling area.
- ✓ Emergency stop until the danger zone is cleared again.







## RAS 2.0 3D REVERSING ASSISTANT SYSTEM

RAS 2.0 is a state of the art assistant that **especially reduces risks while reversing**. The combination of speed reduction to 9km/h and a dynamic object detection allows the driver to react in time, otherwise the system will immediately jump into action.



- ✓ Equivalent to a human worker.
- ✓ DGUV compliant, GS VL 40 tested, certified by DGUV Test.



## ABAS THE TURNING ASSISTANT SYSTEM

The assistant **increases the driver's monitoring area** and ensures that no objects or persons will be overlooked even in bends, when making a turn or turning around.



- ✓ Part of the "Turning assistant campaign".
- ✓ Certified to the specifications of the Federal Motor Transport Authority (Kraftfahrt-Bundesamt).

# FOR SAFETY



## Active area monitoring

Through an **innovative combination of 2D and 3D cameras** a virtual space is created by our system. This space is presented on a monitor next to the driver's seat. The hazardous zones are displayed in different risk related colors.





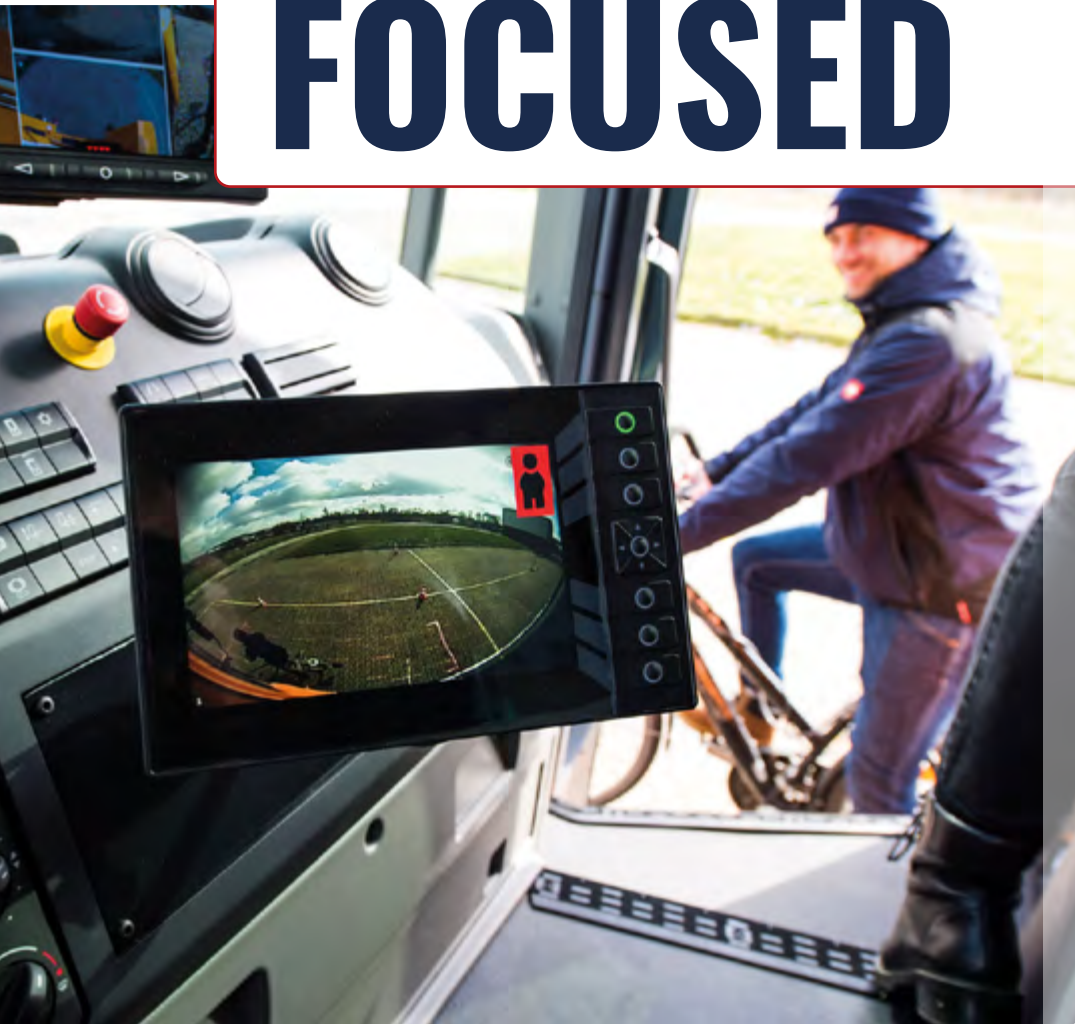


## **RAS 2.0 – THE 3D REVERSING ASSISTANT**

Thanks to our modern PMD technology, individuals and objects are detected and analyzed within a 30 meters radius of the truck. **The emergency stop function acts as an additional safeguard.**



# STAY FOCUSED



## ABAS – THE 3D TURNING ASSISTANT

With a detection area of up to 2 meters in front of the vehicle, the system can detect and protect individuals and objects while turning or going into a driveway.





## ULS – THE 3D UNDERRUN PROTECTION

The 180° surveillance area of the chassis with our ULS reduces the risk of accidents in the hazardous area.



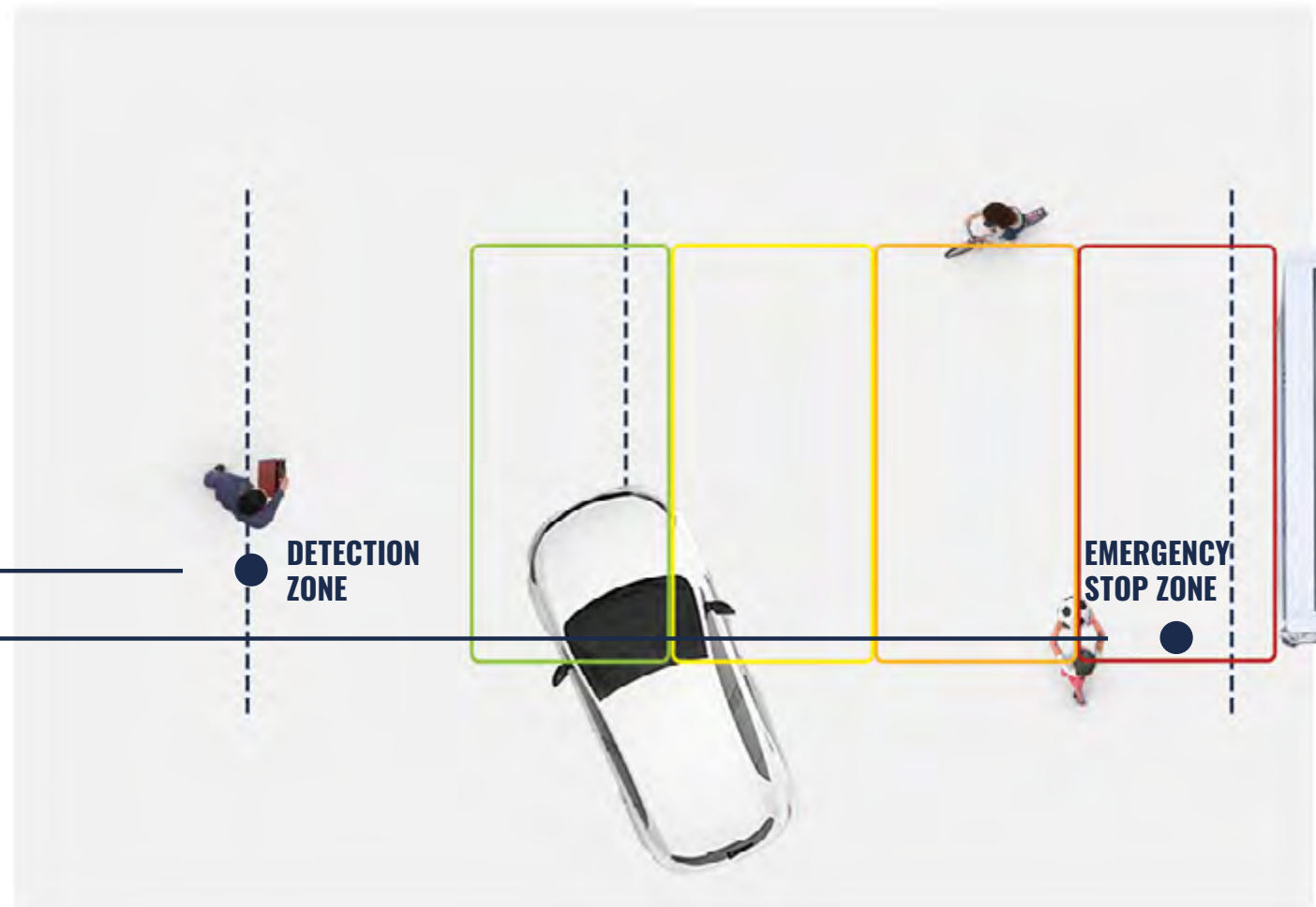


# VISY SAFETY CONCEPT

## Surveillance area

### MONITORING AREA VISY RAS 2.0

With a range of view of up to 30 meters behind the truck, the camera system detects individuals and objects early and either warns the driver or executes an auto stop.

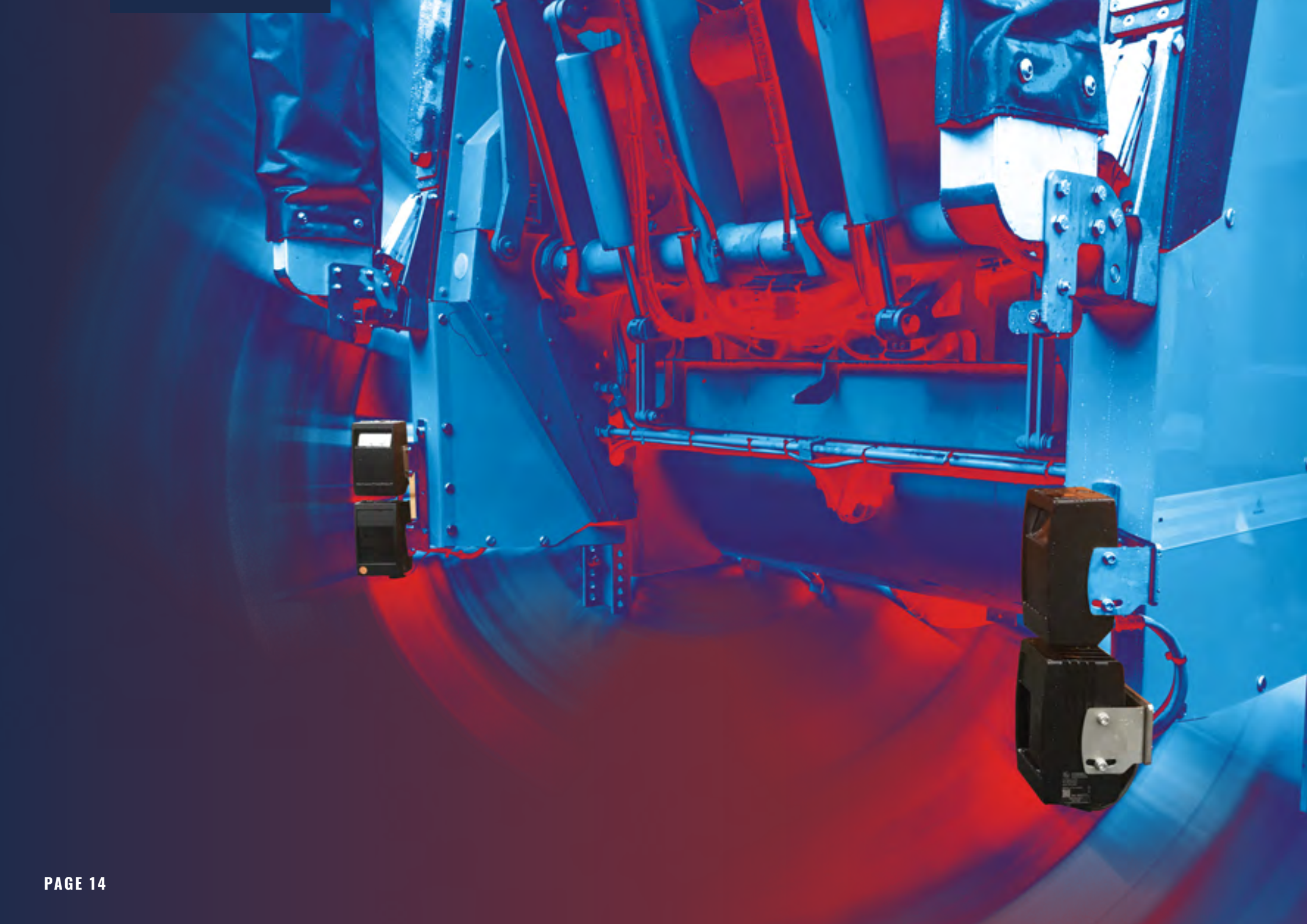




## **SURVEILLANCE AREA VISY ABAS 2.0**

We have made it our challenge to actively secure the rear area of the vehicle and also assist the driver with the highest possible support when he is turning, starting or stopping.





# FOCUS ON WHAT'S BEHIND YOU.

## Function and advantages

With the unique volume calculation of the 3D camera, the system recognizes individuals and objects and warns the driver acoustically and visually of any possible hazards.



The emergency stop function acts as an additional safeguard for the driver.



Listed in multiple support programs.



Functional and reliable in all weather conditions.

# ACHIEVEMENTS WHILE REVERSING

## CREATING A REVERSING RECORD WITH OUR EASILY ACCESSIBLE VISY PORTAL.

The creation of this reversing record includes numerous tasks, from data collection to hazard assessment.

### How long does it take?

That's up to you:

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## MANUALLY

**01**

Driving & inspecting routes

**02**

Evaluation of finished tour

**03**

Evaluation of street width

**04**

Data recoding on evaluation sheet

**05**

Sorting of driven routes

**06**

Evaluation of individual facts

**07**

Listing of risk reducing measures

**08**

Keeping data up to date

# WITH VISY

## 01

Automated data collection and fast portal evaluation.

KZ	Ort	Strasse	Weg	Str.	in-Kategorie	Bewertung	Länge	8 + 200m	1 + 100m	RAI-qualifiziert	Datum	
4401	Strasse	Bergrasse	12	48			202				DL, 1. Dez. 2009, 07:12:41	
4401	Strasse	Lichthaus					202				DL, 1. Dez. 2009, 07:12:27	
4401	Strasse	Hagenstraße	1	2			100				DL, 1. Dez. 2009, 08:12:46	
4401	Strasse	Friedrichstraße	20				147				DL, 1. Dez. 2009, 08:12:44	
4401	Strasse	Am Kirchhof	2	10			52				DL, 1. Dez. 2009, 08:15:13	
4401	Strasse	Am Kirchhof	2	10			55				DL, 1. Dez. 2009, 08:15:42	
4401	Strasse	Hausen 100-Strasse					58				DL, 1. Dez. 2009, 10:29:18	
4401	Strasse	Strasse am Berg	10	28			58				DL, 1. Dez. 2009, 10:29:36	
4401	Strasse	Am Dackelstein					58				DL, 1. Dez. 2009, 11:34:15	
4401	Strasse	Dammstraße-Strasse					58				DL, 1. Dez. 2009, 11:35:44	
4401	Strasse	Zu den Helden	10				58				DL, 1. Dez. 2009, 12:13:52	
4401	Strasse	Kreuzung	4	10			147				DL, 1. Dez. 2009, 13:21:40	
4401	Strasse	Friedrichstraße					172				DL, 1. Dez. 2009, 11:37:17	

# OPTIMIZING WASTE MANAGEMENT TRUCK ROUTES WITH VISY

Comfortably keeping an overview by ViSy



## FLEET MANAGEMENT

- ✓ Digitalization of truck route
- ✓ Recording and live tracking of routes
- ✓ Grouping of routes
- ✓ Option to only evaluate certain parts of your route
- ✓ Evaluation of CO2 emission
- ✓ Interface with telematic systems

## RECORD OF REVERSING

- ✓ Automated data collection
- ✓ Reversing record within the portal
- ✓ Documentation via video of the relevant assessment criteria



## **AWARENESS FACT**

# 70

**SAVE UP TO 70% OF TIME WITH THE HELP  
OF OUR UNIQUE VISY PORTAL,**  
in comparison to creating a manual recording portal.

**MAXIMUM  
TRANSPARENCY,**

**thanks to ViSy.**



# AWARDS & REFERENCES

## LIST OF AWARDS:

In 2022 our RAS 2.0 reversing assistant won the **VAK Innovation Price** in the category "Technology & Components".



## LIST OF CUSTOMERS:



Our clients include waste management companies, municipalities and any company that works with utility or other special vehicles.

# WHY VISY?

We have many years of experience in system integration for waste management trucks. We work in a practice orientated and costumer focused manner.



**Certified risk reducing measures with newest technology**



**Unique solutions for highest safety for companies and the public**



**Technical equivalent to an employee**



**Provide driver with tools that add true value to his everyday work**

# YOUR CONTACTS

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