

Your Partner in ATWS

Your Partner since 1946!



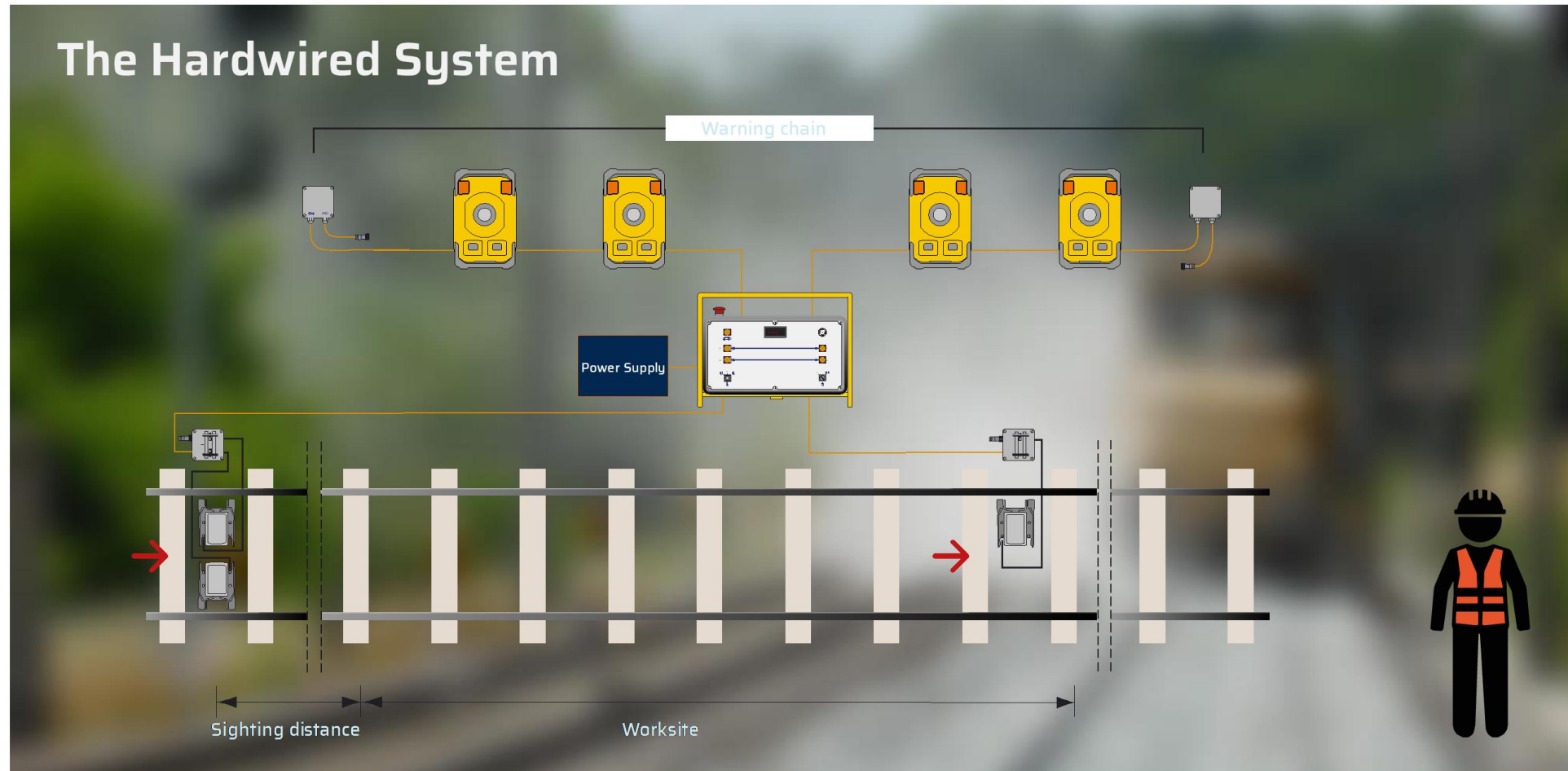
23/01/2024

ZÖLLNER
signal system technologies

Mobile Radio Warning System (MRWS)



Mobile Radio Warning System (MRWS)



Advantages of using the MRWS

- Possibility to work 24/7
 - Under all weather conditions
- Eliminates human factor risk
 - Automatic detection system
- High safety level
 - Sil 3/ Sil 4
- Return on investment
 - Reduction of work time(2h/day =11 weeks/ year)
 - Reduction of maintenance costs
- Most effective measure to reduce the risk of runover
 - Social responsibility

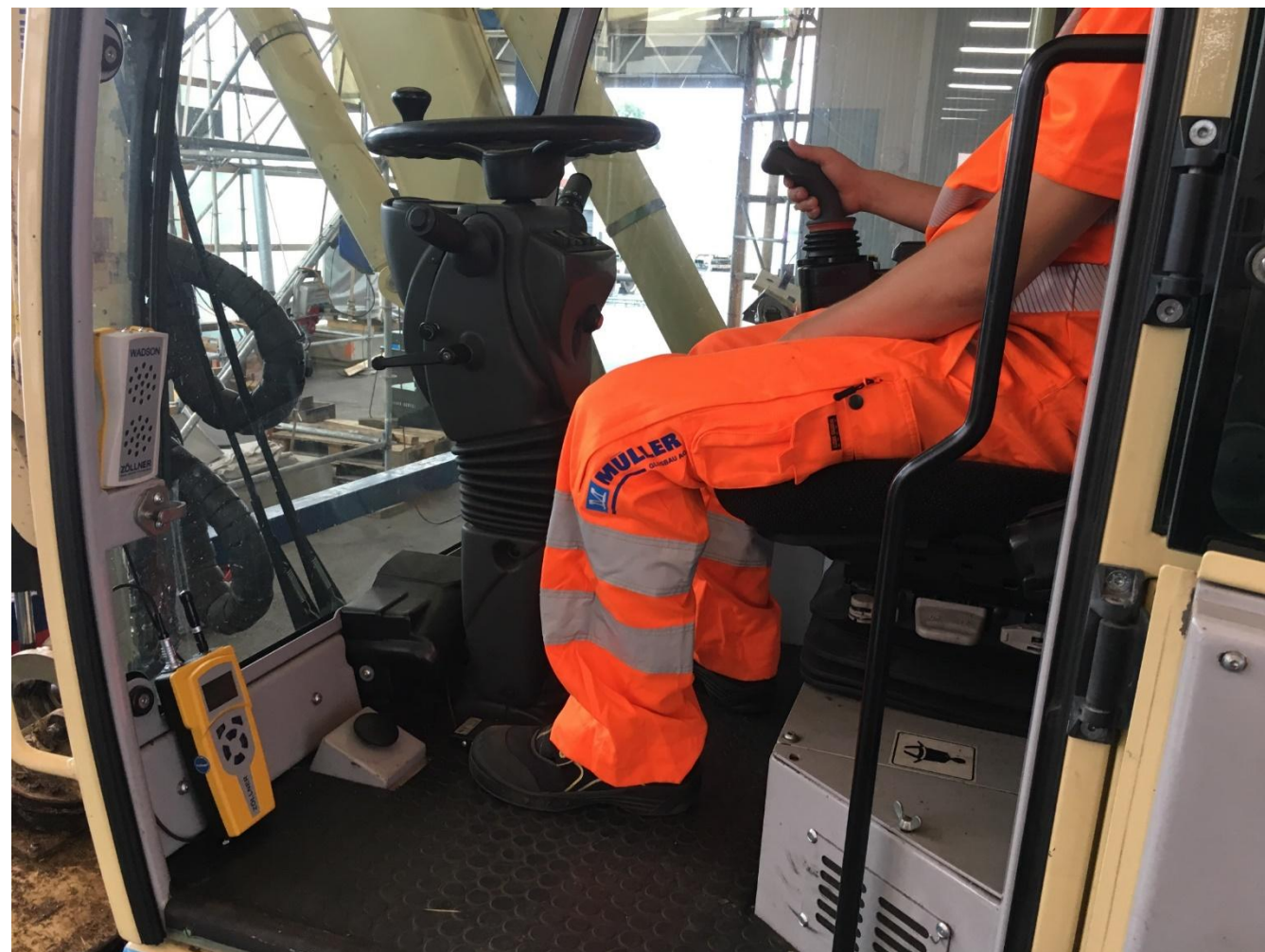
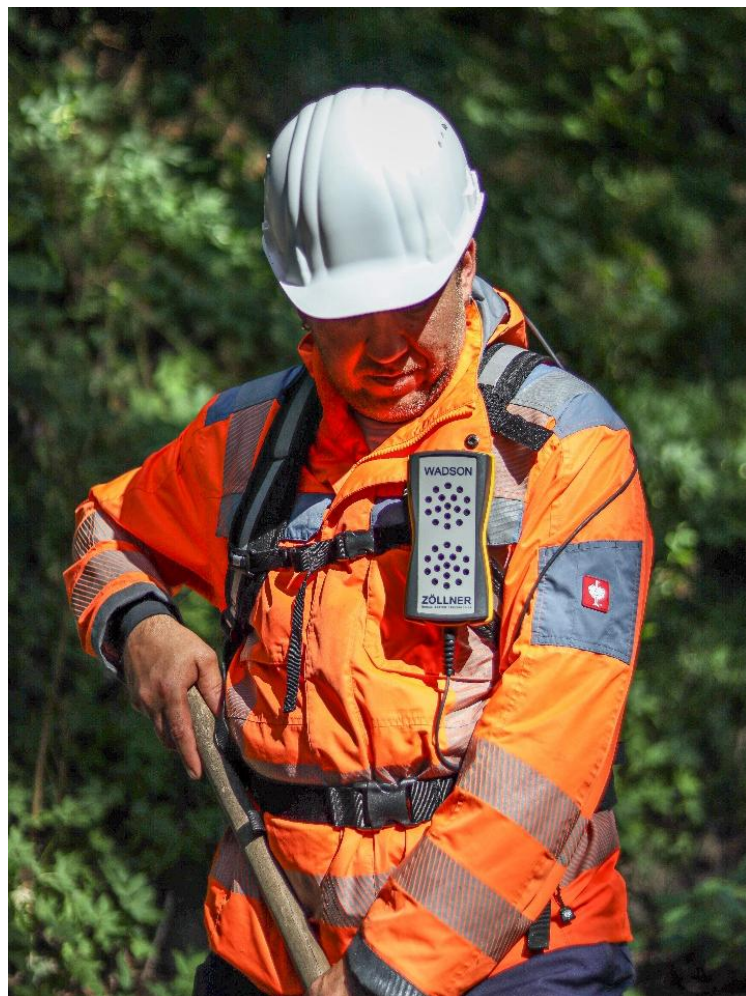


Individual protective equipment for vegetation works.

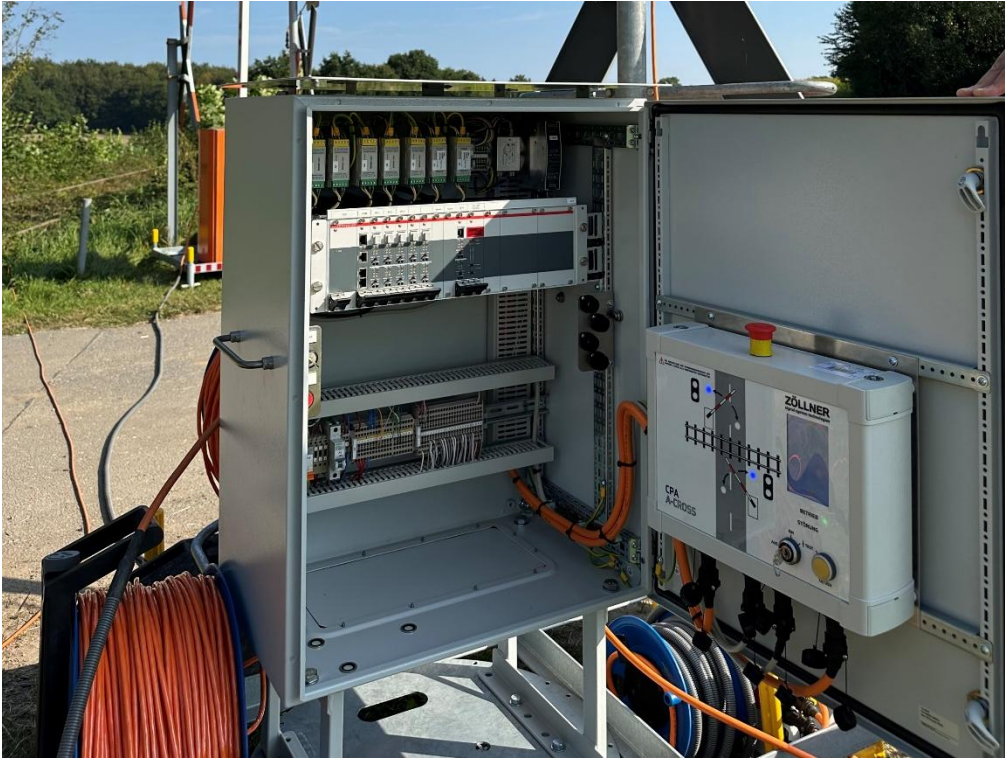
- Ergonomic design, light and comfortable to use
- Full freedom of movement
- Visual warning always available
- Battery control button
- SIL 3
- 90 dB (A)



Individual protective equipment // Wadson



Automatic temporary level crossing protection (A-CROSS)



- The automatic temporary protection of a level crossing with axle counting technology
- No additional staff is required

Zöllner Cloud

- **Real-time visualisation**
Keep your equipment, location and informative visible and accessible from any location
- **Notifications and warnings**
Immediate notifications and warnings on critical equipment and system status, such as battery level.
- **Tracking**
From any location and at any time you can view your registered devices.
- **Remote monitoring**
Setting of distances between strike-in points and worksites
- **Data analysis**
Analysis and review of the registered information from the equipment.



Zöllner ZGP - Speed controller

- Concept

Eliminate the risk of a traffic exceeding the speed limit at a given point.

- Operation

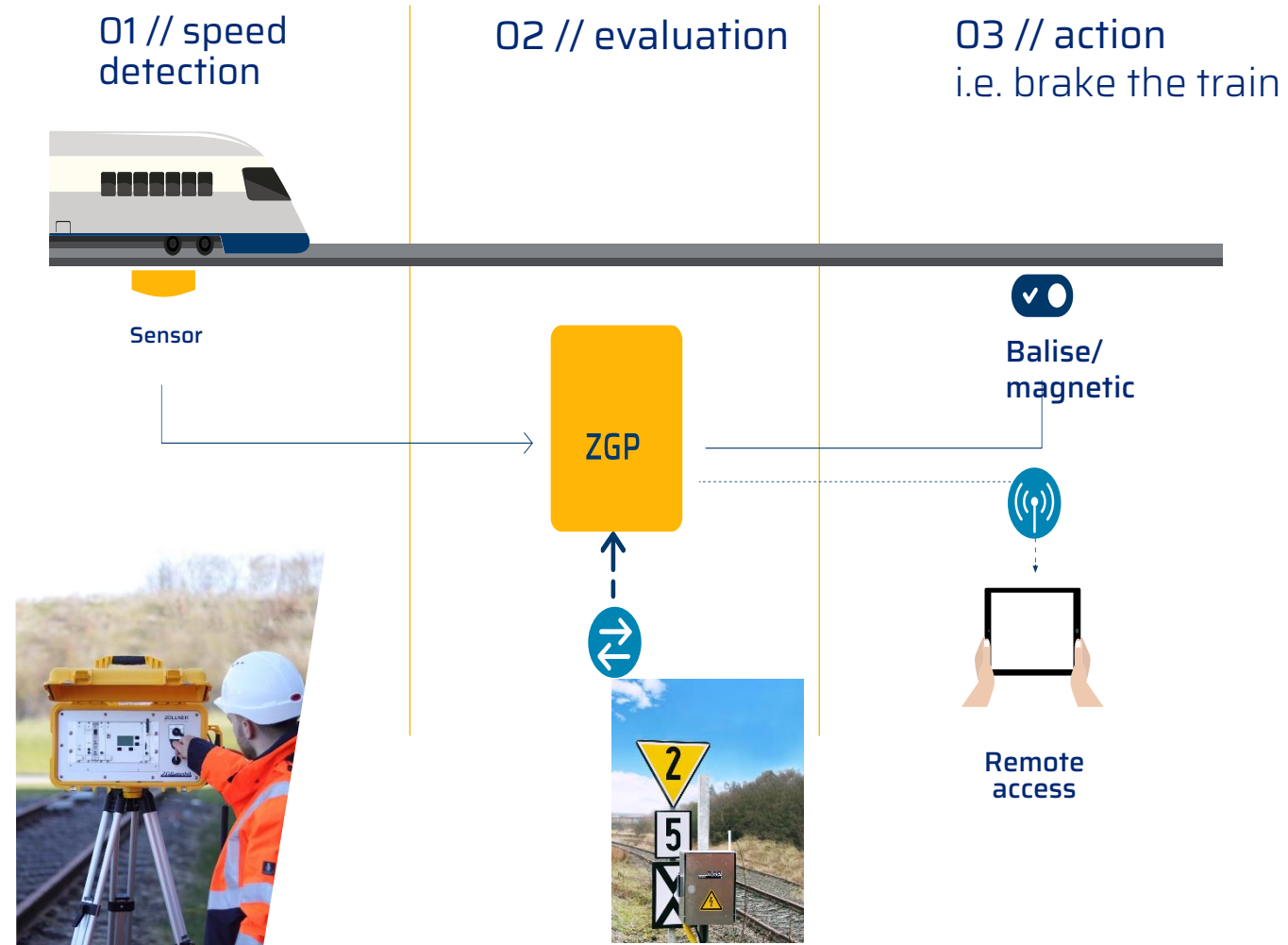
The ZGP measures the transit speed and compares it with the speed defined for that point. If the speed exceeds the allowed speed, the system acts on the train by breaking it.

- Components

Sensor, evaluation and control unit and magnetic/balise

- Additional features

SIL2 System, connection GSM-R, available in mobile version



COBRA – Control of Balises w/ Remote Assistance

■ Concept

With the use of ETCS, drivers are “no longer dependent on signals”. Warning train drivers of a work area becomes even more important, both for the safety of traffic and maintenance personnel.

■ Operation

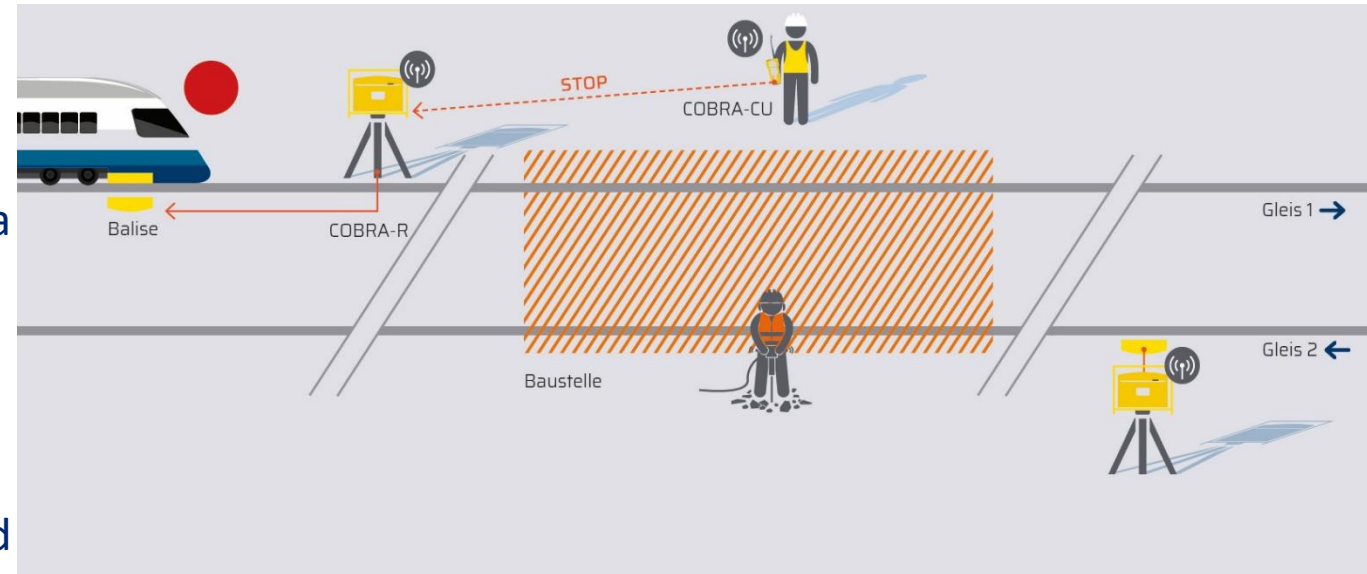
COBRA enables safe switching of Eurobalises and thus the information to the train

■ Components

Mini LEU, receiver (Cobra-R), control unit (Cobra-CU).

■ Additional features

Radio transmission up to 3Km (6Km with repeater), battery, up to 4 Eurobalises simultaneously



Thank you!

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