



**INFRABEL**

**ERA:**  
**ERTMS Congress**

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Since 2017

## ATW-Tx

(ZÖLLNER Signal GmbH)

### Securing works in a junction

- Portable security system
- Scannable panels indicate the area to be secured
- Automatic connection to the signaling station
- Audiovisual warning when a train passes through



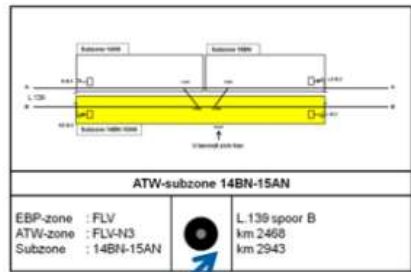
# ATW-Tx - premise

Temporarily  
stop the train

ATW-Tx  
Device



Auditory and  
visual alarm



Subzonetag

Scanable panel





### What?

System for on-site track workers to block off a work zone and to determine when the tracks can be (temporarily) freed and when a train can pass through

### How?

A zone is secured on site with a portable device that scans an RFID code on a panel near the work area.



Component	Function
1	Control panel
2	Warning lights (flashing)
3	Speakers
4	Scanner (of the RFID code)

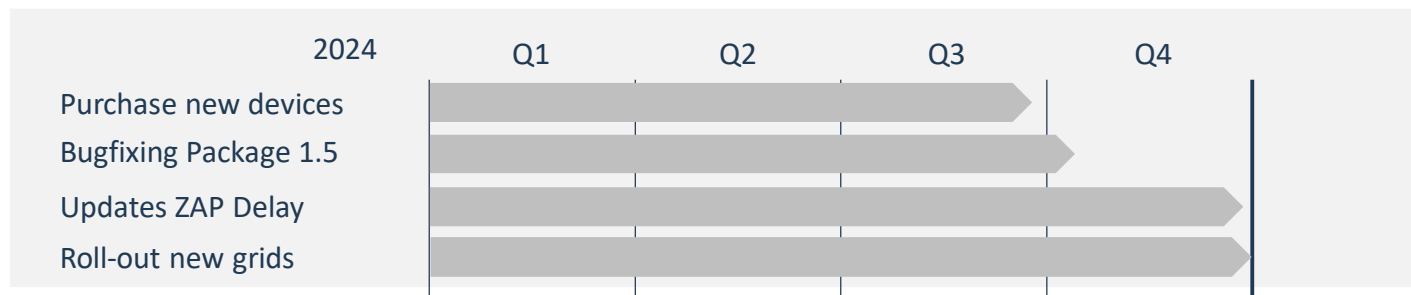


### Status

- Currently: + than 90% of junctions
- More than 700 zones in our network
- Roll-out expanded to include large junctions
- In 2024: Package 1.5 & ZAP Delay



### Planning



### Advantages

- ⊕ Applicable for all types of trains
- ⊕ Set zones
- ⊕ No devices to install in the tracks
- ⊕ Easy to use

### Dependencies

- GSM-R network availability
- EBP commissioning - releases
- Improvement of devices via Zöllner

### Point of contact

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# General steps to be protected with ATW-Tx

1. Scan a subzone in which we would like to be protected with double confirmation
2. Wait until having the message Zone safe
3. The work team can enter in the tracks to begin their work
4. If a train is incoming, the mobile will alert the work team and will be in this state until we let the train pass by freeing the zone --> See next slide.
5. After the train clears the zone, the mobile shows Zone safe and the work team can continue its works.

# Demo

Gateway ATW-Tx (v1.52.019) + Public

