



**INFRABEL**

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

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# **Safer-W**

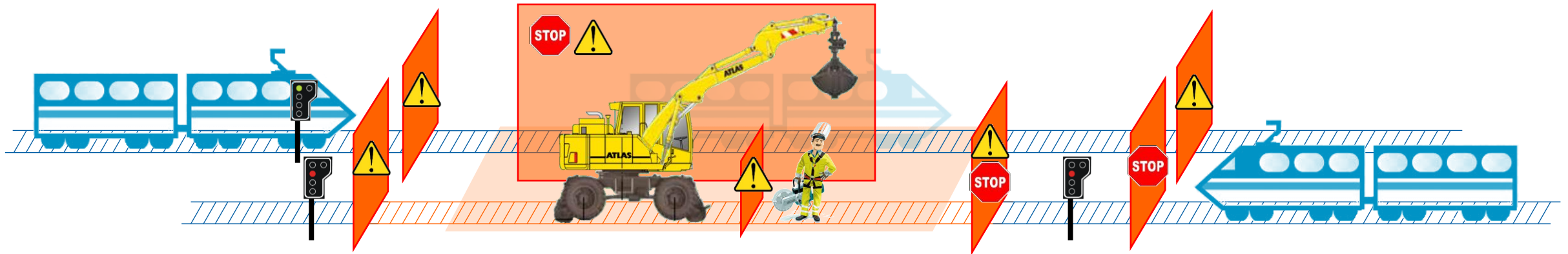
**SPI**

*S*afety

*P*rotection

*I*ntegrator

# Safer-W Program : Safety measures and SPI solution for different situations



## 1. Protection



Prevent the train from being sent into work zone.



Stop train before entering in the work zone

## 2. Warning



Warning train approach



Warning/Stopping working on time



Warning at the work area



## 3. Safety & efficiency



Digitalisation



On device with a user friendly solution



Decreasing the human interactions

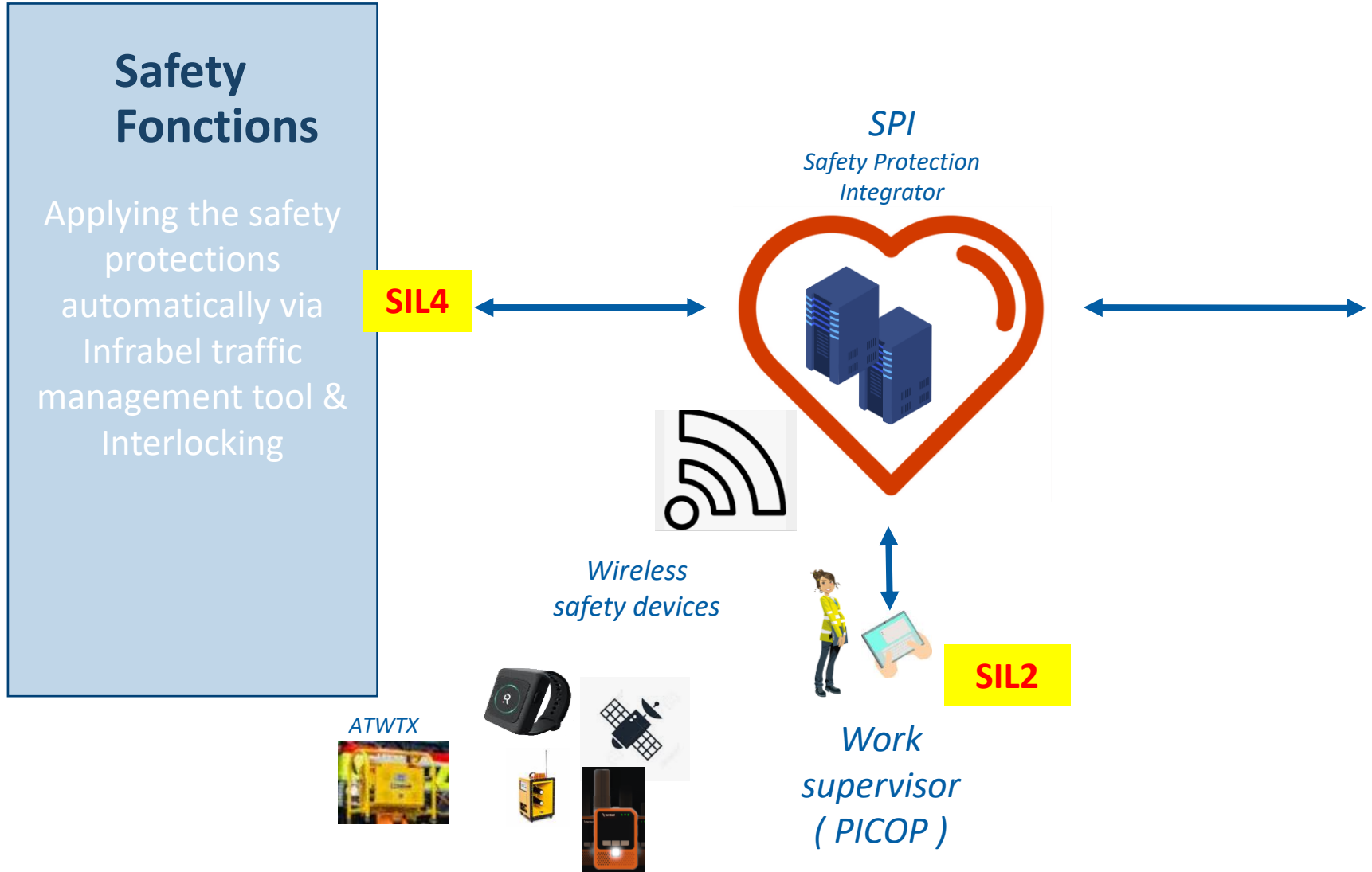
# Our vision: an “ETCS” for worksite protection

**SPI: the Safety Protection Integrator**

**The SPI project is the new track workers protection system. The drivers for this project are :**

- Allowing track workers to be responsible for their own safety by applying the safety protections through a mobile device.
- Managing the protections immediately in the signalling systems.
- Offering a standard solution following the Cenelec standards in different cases of railway infrastructure in Belgium.

# SPI Concept



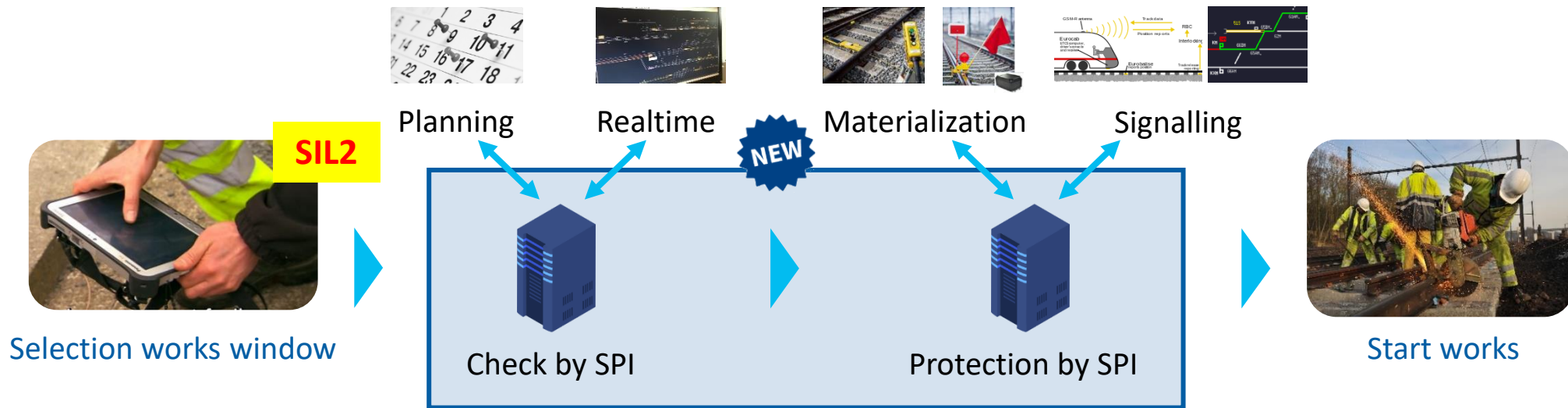
## SPI interfaces

- **Signalling**

IL PLP/SIMIS, EBP, ETCS
- **Planning ( UPM, Digiform )**
- **Maintenance & IT interfaces** (EVA, SAM, ...)

# Our vision: an “ETCS” for worksite protection

SPI: the Safety Protection Integrator






## Advantages of SPI:

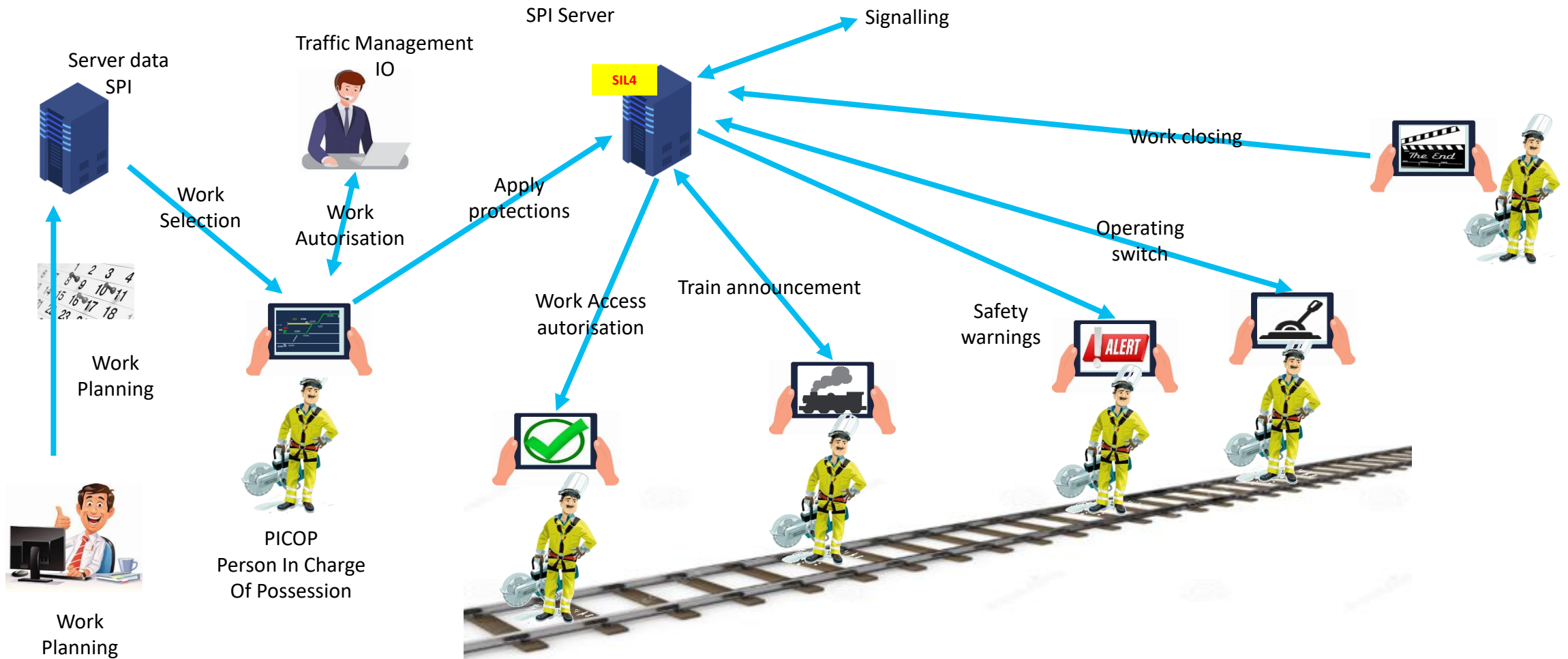
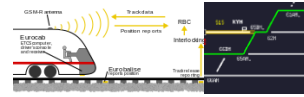
- ✓ One unique interface for the end users
  - ✓ Decrease of mistakes in safety procedures
  - ✓ Increased feeling of safety among track workers
  - ✓ Reducing the timing of the manual interactions.
- Faster installation (and removal) of safety measures > less impact on traffic

# From 2030 : protection via SPI

## SPI operationnal process

**Forces :**

-  *General approach*
-  *Innovative*
-  *Digitalisation*



# Our vision: an “ETCS” for worksite protection

The SPI solution evolves in different stages:

- Baseline 1 (# releases)
- Baseline 2
- ...

