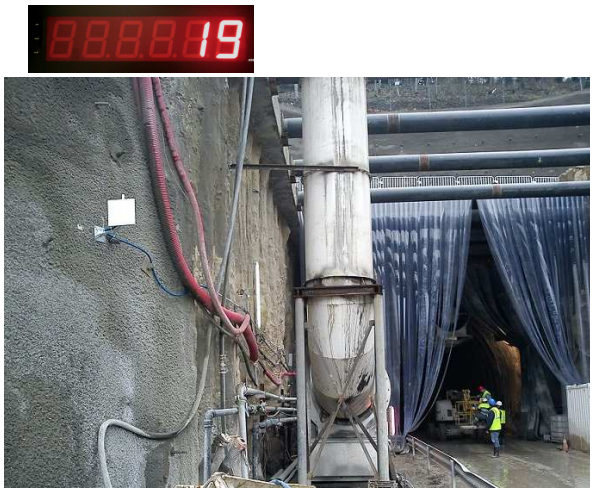
Active RFid

Active radio-frequency identification

Automatic people counting system

- ✓ **Active RFID identification solution**
- ✓ **Designed for personnel security managers**
- ✓ **Counts number of people present on-site**

Always know the exact number of people present at a site in real-time



A long-range RFID tag fixed to people's helmets can be used to detect the direction of their movement as they pass in front of the reader terminal, without any action on their part.

This solution uses a wireless reading technology that detects tags worn by people on foot or in vehicles without disrupting traffic flow.

The RFID reader terminal is networked via TCP/IP to a computer running the entry/exit counter software. A large, easy-to-read display shows the number of people present at the site.

ELA Innovation has developed a high-performance RFID identification tag:

- Long-range detection: > 50 meters
- Robust: waterproof, compact
- Autonomous: ID code transmitted periodically

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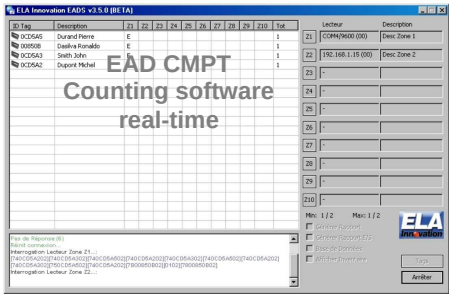
Counting software



The software continually records people entering and exiting the site and stores the information in its database. The number of people present on-site is shown on the display.

The screen shows people's badge numbers and associated ID in real-time. The system can be monitored locally or remotely via a TCP/IP network.

Leveraging patented RFID technology

Each RFID tag has a unique identifier that enables the EADS CMPT software to keep accurate count at all times.

Customers who chose ELA Innovation

Our automatic counting system is being used today at several underground construction sites, including tunnels and subway projects by major public works companies, such as Vinci Construction, Dodin Campenon Bernard, Razel Bec, Eiffage, and FAYAT.

RFID tag	
Frequency	433 MHz
Reading range (line-of-sight)	80 m
Operating temperature	-30°C to +70°C
Main features	Waterproof, anti-vibration tag White Delrin casing (∅36 mm x 10 mm thick)
Battery life	2 years (based on 1 transmission every 1.3 secs.)
Standards	CE, IETS 300-220
Reader terminal	Dual-antenna RFID module to process directional movement: **UTP DIFF2**
Software	View tag movement, count, and history: **EADS CMPT**

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