

# *Delta TCV*

*Wireless systems since 1995*

## **Focused on:**

- **Health, environment, safety and QA**
- **Energy consumption**
- **Flexible solutions**
- **Easy and quick installation**

## **Your solution for:**

- ❖ **Tracking of vehicles and persons**
- ❖ **VOD, On-demand ventilation control**
- ❖ **Digital voice communication**
- ❖ **High speed data communication**

## **System highlights:**

### **Access**

**Real time tracking of persons and equipment**

- **Long life tag battery, 10 years of operation**
- **Active and passive tags for tunnel and gates**
- **Detection and logging of persons and vehicles passing without tag.**
- **Rescue App, mobile unit, records all movements in and out of the tunnel, on-line.**

### **Ventilation**

**VOD, Ventilation on Demand.**

- **Controlling the underground environment and reduce ventilation cost by 25-50%**
- **Ventilate according to air contamination or by manual operation**
- **Logging of environmental data and power consumption**
- **Mobile operators panel, for high efficiency operation**

## Communication

- **WLAN, Wireless high-speed data, covering all Underground areas**
- **Digital UHF voice communication**
- **VoIP, voice over IP, using standard smart phones**
- **Self-surveillance system, warning of power failure or lost communication.**
- **Integrated warning system for Fire, Blast and high water level**

## Partners:



## Reference projects:

- **E16, Lærdalstunnelen, Road tunnel; 24,5km long. 1995 to 1998. NCC**
- **FP2, E6 and Dovrebanen. Road tunnel; 5,6km. Railroad tunnel; 6,8km. 2012 to 2016. Veidekke – Hochtief.**
- **UFP Farriseide-Porsgrunn, Railroad tunnel; 14,5km. 2012 to 2018. NCC, Veidekke, Skanska and Implenia.**
- **Rv13 Ryfast, dual road tunnel, 14,3km long under water tunnel. 2012 to 2019. Marti IAV TUCON and AF Anlegg.**
- **Plus 14 other installations in operation.**

## Customers:

