

Safe tunnels, controlled from one screen.

Turnkey tunnel management systems: ventilation, lighting, traffic control, safety and communication integrated into one SCADA — engineered, installed, tested and commissioned by one partner, for new and existing tunnels.

One supervisory system

Every installation in the tunnel monitored and controlled from one SCADA.

Faster incident response

Automatic detection starts the right scenario in seconds — ventilation, signals and alerts together.

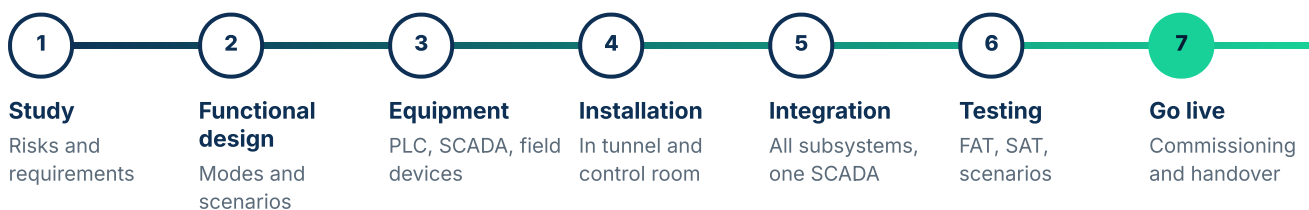
Safe by design

Redundant architecture and fail-safe behaviour when it matters most.

Lower operating cost

Lighting and ventilation that follow real conditions, and equipment health in view.

YOUR PROJECT, END TO END



In a tunnel, every second of an incident counts. We engineer the systems so that the right response starts on its own — and the operator stays in control.

Seven steps, one team, no gaps between them.

01

Study & risk analysis

Tunnel characteristics, traffic, safety requirements and existing equipment are analysed with you and the safety officer.

Requirements that are clear and shared

03

Equipment selection

PLCs, SCADA, sensors, cameras, lane signals and message signs, chosen for reliability and maintainability.

One bill of materials, one supplier to talk to

05

Integration

Ventilation, lighting, traffic control, safety and communication systems linked to one SCADA and to the traffic centre.

One system instead of many islands

07

Commissioning & handover

We commission the tunnel, train the operators and hand over the documentation and operating procedures.

A tunnel that is safe to open

02

Functional design

Operating modes, incident scenarios, control philosophy and the operator interface are designed and agreed.

Every situation thought through in advance

04

Installation

Field equipment, cabling and control-room systems installed during planned closures, often at night.

Closures kept as short as possible

06

Testing

Factory and site acceptance tests, integrated scenario tests and exercises with the emergency services.

Proven scenarios, documented tests

+

After go-live

Support, software updates and renovation of existing tunnels — with the team that knows the system.

Same partner, same knowledge

What we supply and install

- SCADA and PLC control
- Ventilation and air-quality sensors
- Lighting control
- Lane signals and message signs
- Automatic incident detection
- Fire detection and SOS stations
- Radio, public address and communication
- Power supply and UPS

The exact scope is agreed per project — from a single site to a complete network.

Typical applications

- New road tunnels
- Renovation of existing tunnels
- Underpasses and covered roads
- Movable bridges and locks
- Control rooms and traffic centres

Building or renovating a tunnel?

Tell us about the project. We come back with an approach, a planning and a fixed scope.



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