Tunnel and Traffic Solutions
We set standards

STRABAG Infrastructure & Safety Solutions, or SISS for short, is a 100% subsidiary of STRABAG AG that offers communication and safety solutions for public institutions, public and private transport, industry and companies in a variety of sectors. Our range of services includes everything from highly available products and systems to the installation and operation of end-to-end solutions as general contractor.

Everything from a single source

As general contractor for transport and tunnel technology as well as communication and safety systems, SISS goes through every step of a project hand in hand with its clients – from the needs analysis to planning and systems development all the way to installation, service and maintenance. SISS offers solutions for the control, optimisation and evaluation of the efficiency and quality of all communication and safety equipment.

In every area of business, we place great importance on perfect implementation of the individual solution – from analysis of the infrastructure to on-site development, construction and systems planning up to the definition of the software. Within the STRABAG Group, SISS is responsible for electro-technical infrastructure and safety solutions worldwide. In its field, the company is among the leading in Europe.

The proof is in our service portfolio

ENGINEERING

Requirements management | System design and specification | Software and hardware engineering | Plant engineering and assembly | Service and maintenance | Updates and upgrades | On-call service | Radio measurement and propagation analysis | System integration

SERVICE PORTFOLIO

Traffic & Tunnel Solutions – Systems for the registration, control, influencing and management of private transport | Environmental data and road ice warning systems | Video-based traffic and incident surveillance | Complete safety technology for road and rail tunnels incl. lighting and ventilation as well as emergency call systems | Fire water supply systems and fire alarms, fire-fighting systems

Critical Communication & Safety Systems – VoIP communication systems | TETRA dispatcher | Digital radio gateways | Process control systems, remote and SCADA systems | Complete public safety answering point systems incl. installation | Warning and alarm systems, infrastructure, terminals and alerting encoders | Video surveillance, recording and passenger information systems for public transportation | Digital train radio systems for GSM-R and TETRA infrastructures | Public announcement systems | Mobile data terminals for emergency vehicles | Command vehicle equipment

Rail & Radio Systems – Voice and data radio systems | Tunnel and building radio systems | Large-area communication systems | Fixed, mobile and portable end devices | Highly available modules and components for analogue, digital, optical and high-frequency systems

Construction Site Logistics – Safety and communication systems for construction sites with emergency call systems, access control, control rooms and video/PA/radio

Public Lighting – Lighting systems for public areas incl. expansion to system lighting points with WiFi, video and e-mobility
Tunnel Equipment, Traffic Systems, Electrical Plant Engineering

As a general contractor, we offer complete solutions in the areas of tunnel equipment, traffic systems and electrical plant engineering. Top quality, on-time delivery, effectiveness and teamwork - these values have priority not only at SISS but also for the entire group.
We are a service provider

Since its establishment in 2001, STRABAG Infrastructure & Safety Solutions has equipped approximately 173 km of tunnel with electrical systems and implemented telematic infrastructure along approximately 1,100 km of important road network. All-round service provides for punctuality and efficiency before and after delivery.

STRABAG Infrastructure & Safety Solutions has many years of expertise in the area of service and maintenance and is able to offer on-the-spot reaction times from 1 hour, 24 hours a day, 365 days a year. It also offers analyses and optimization, replacement parts management and accident damage processing – supported by comprehensive reporting with availability calculations and quarterly, status and damage reports.

Complete Solutions

- Project management
- Planning
  - Execution planning
  - New planning/value engineering
  - Optimization
- Software
  - Control
  - Visualization
  - Remote maintenance
  - SCADA Systems
- Assembly
- Service, maintenance (24h/day)

1 A23 motorway expansion stage 2, Austria, traffic management system, steel structures and traffic engineering / 2 Gräbern Tunnel, A2 motorway, Austria, electrical mechanical systems / 3 S10 expressway, Austria, jet fans/cross flow ventilation / 4 Herndorf Tunnel, B1 state road, Austria, ventilation system
We have the expertise

Efficient construction, reliable technology, perfect operation – STRABAG Infrastructure & Safety Solutions supplies tunnel equipment, traffic systems and electrical plant engineering from a single source. As a result of being incorporated into one of Europe’s leading construction groups, we have detailed knowledge of the variety of requirements. We are familiar with both country-specific standards and guidelines and local technical conditions.

Public and private highway construction companies and regional authorities have an all-round competent partner in STRABAG Infrastructure & Safety Solutions. By removing all interfaces within a project – between the technical areas and suppliers, as well as in the chronological sequence – they can exploit new dimensions in the total costs to total benefit ratio.

Organization

Concentrating on customer and order, STRABAG Infrastructure & Safety Solutions is a streamlined structure, organized according to clear points of focus.
Our comprehensive services

We offer our clients a full and complete range of services. Ask our team for custom solutions to fit your project.

Traffic Systems
- Traffic control systems
- Traffic signs
  - Changing signposts
  - Lane change traffic signs
- Traffic management
- Traffic monitoring
- Video traffic and event observation
- Light signal systems
- Weighing systems

Energy Distribution
- Open line construction
- Transformer stations
- Generators
- Medium voltage
- Low voltage
- Emergency power supply
- Alternative energy:
  - Wind turbines
  - Solar plants

Process Control Engineering
- Traffic and Tunnel Control Centres
- VoIP based Voice Communication System with graphical user interface
- Station control equipment, furniture and working position equipment
- SCADA systems
- Controls
  - PLC systems
  - Telecontrol systems
- Transmission and network systems
- Distributed control systems
- Fiber optic infrastructure
- Visualisation and media systems
- Network management systems
- Alerting systems
- PA systems
- Intercom and access control systems

1 Niklasdorf Tunnel, S6 expressway, Austria, emergency telephone / 2 S1 outer ring expressway, Vienna, traffic management system / 3 transformer / 4 M6 motorway, Hungary, tunnel monitoring and control system / 5 message sign / 6 maintenance bus / 7 Buchenberg Tunnel, B31 state road, Waidhofen, Austria, operating and safety systems / 8 road lighting
Tunnel Technology

- Illumination
  - Roads
  - Tunnels
  - Escape routes
- Standard ventilation
  - Shutter flaps
- Ventilation in the event of fire (incident)
  - Longitudinal ventilation (jet fan technology)
  - Transverse ventilation (portal, axial fans)
- Air quality measurements
  - NOx
  - CO
  - Hazy vision
  - Wind speed
- Video
  - Image recording
  - Image transmission
  - Detection
  - Image evaluation
- Acoustic irradiation
- Emergency alarm systems
- Fire alarm systems
  - Manual
  - Automatic
- Pipes for fire-fighting water
- Radio systems
  - Tunnel radio
  - Radio link system routes
- Cable laying
  - Optical wave guide
  - Energy and telecommunication cable
- Fire extinguishing systems

Service and Maintenance

- Complete maintenance of all kinds
- Defect elimination
- Remote maintenance

Rail Systems

- Electro-technical systems

Electrical Systems for Environmental Technology

- Sewage treatment plants
- Solar plants
- Pumping stations
- Lifting / hoisting equipment
- Water treatment

Public Lighting

- External lighting of all kinds
- Airport lighting systems
- Contracting
- Reduce costs
- Sustainability
- Safety