

SECTORS CATALOG

Sectors

Where we deploy technology that sustains critical operations.

Contents.

SUBSOIL AND CIVIL WORKS

04 Underground mining

05 Tunnels & Civil Works

INDUSTRY AND BUILDINGS

06 Process industry

07 Critical buildings and government

Four sectors. One same demand.

Subsoil, civil works, industry, and buildings. Very different realities with one common denominator: the technology has to hold up where there is no room to improvise. This is the summary. Each sector has its own detailed catalog.

At SATIC we integrate the layers that critical projects rarely deliver together. Twenty years deploying technology in sectors where availability and security leave no room to improvise. No shortcuts, no subcontracting what's critical, and a single point of contact from the first conversation to continuous operation.

Each entry in this catalog summarizes **what it includes**, **how we apply it**, and **where it adds real value**. The selection keeps the technical — and operational — language we work with on site. If you want to go deeper into any of them, the individual catalog is downloadable from its URL on satic.es.

The whole operation, a single responsibility: what we design is what we deliver and what we then sustain over time. That technical continuity from the first day to the last is the difference.

Communication, identification, and monitoring where not even light reaches.

Underground operation demands a technology infrastructure that withstands humidity, dust, vibration, and kilometers of galleries. We design it and operate it as if it were our own.

SIX LAYERS THAT KEEP UNDERGROUND OPERATION RUNNING.

- **Underground communications**

Digital radio, telephony, and data covering entire galleries. Wireless repeaters, control-room fiber, operational priority for evacuation.

- **Environmental Monitoring**

Gas, ventilation, temperature, and process variables at every critical point. Technical alarms integrated with frontline communication.

- **Automation and remote control**

Pumps, conveyors, fans, and gates operated from the control room and supervised from the field.

- **Real-time personnel counting**

Active identification of every worker. Listed by shift, by section, and by gallery. Available at the surface instantly.

- **Video and monitoring**

IP cameras at entrances, technical rooms, and critical points. Unified operation with identification and alarms.

- **24/7 continuous operation**

Managed infrastructure service, with measurable SLAs and specialized response. The mine never stops at month-end.

FOUR PHASES SO THE MINE RUNS ON TECHNOLOGY THAT DOESN'T FAIL.

- **Design**

Site survey, coverage assessment, risk analysis, and regulatory requirements. We come away with an executable project aligned to your shifts and your production system.

- **Integration**

Identification, communication, monitoring, and supervision talking to each other from day one. Our own platform connecting everything.

- **Deployment**

Installation coordinated with mining activity. No stopping production wherever that can be avoided. Provisional and final layers designed from the very first plan.

- **Operation**

24/7 support, preventive maintenance, expansions, and continuous improvement. The infrastructure stays running, not just installed.

Underground communication that holds up for a full shift?

From the TBM to operation: the tunnel that communicates.

Communications, monitoring, and safety for road and rail tunnels under construction. We satisfy both the regulations and the operation. No pauses to rewire from scratch.

SIX LAYERS THAT KEEP THE TUNNEL RUNNING DURING CONSTRUCTION AND IN OPERATION.

- **Communications on an active site**
TBM, crews, shift supervisor, and offices connected with voice and data. Coverage coordinated with the advance of the face.
- **Occupancy and access control**
Who comes in, who goes out, in which vehicle, and under what authorization. Real-time roster for any incident.
- **Video and perimeter monitoring**
IP cameras at portals, service galleries, and technical rooms. Onboard analytics and unified operation.
- **Environmental Monitoring**
Air quality, ventilation, and technical variables in every bay. Integration with SCADA and with the operation.
- **Optical and radio infrastructure**
Our own backbone fiber, radiating cable in the gallery, wireless connectivity where the line doesn't reach.
- **RD 635/2006 compliance**
Communication with the control center, emergency public address, redundancy where the regulation requires.

FOUR PHASES SO THE TUNNEL COMPLIES AND OPERATES.

- **Design with an auditor**
Coordination with the tunnel safety manager from day one. An executable project that meets the regulations and the project budget.
- **Phased deployment**
Provisional infrastructure for construction, permanent for operation. Without scrapping the cabling between the two.
- **Integration**
Communication, supervision, occupancy control, and regulatory compliance talking to each other from the first test.
- **Operation**
Maintenance, periodic drills, expansions, and support for any incident. Your tunnel is never left on its own.

Does your tunnel meet what the regulations require and what your operation needs?

Plants that never stop, technology that doesn't negotiate.

Shift communication, electronic security, and supervision integrated with control systems. For plants where every minute counts and every stoppage is a technical decision, not an operational accident.

SIX LAYERS THAT KEEP THE PLANT RUNNING WITHOUT STOPPING IT.

● Industrial communications

Fieldbuses, industrial wireless connectivity, priority switching. The network supports voice, video, telemetry, and control without collisions.

● Video and monitoring

IP cameras with onboard analytics, integration with control, and operator-guided procedures.

● Environmental Monitoring

Leaks, technical variables, air quality, and consumption integrated with central supervision.

● Shift communication

Digital radio, telephony, public address, and paging to coordinate shift changes and emergencies in every zone of the plant.

● Access and occupancy control

Identification of personnel and vehicles at every entrance. Real-time roster in case of an incident or evacuation.

● Integration with control systems

Gateways to existing systems with open standards. We don't replace what works: we connect it.

FOUR PHASES SO THE PLANT OPERATES WITH TECHNOLOGY THAT HOLDS UP.

■ Design

Plant survey, EMI analysis, applicable regulations, ATEX zoning requirements where relevant.

■ Integration

Communication, security, monitoring, and SCADA talking to each other from day one.

■ Deployment

Installation coordinated with production. Prior bench testing. No surprises during the maintenance shutdown.

■ Operation

24/7 support, preventive maintenance, phased expansions. Measurable SLAs and continuous reporting.

Does your plant have the technology its pace requires?

Buildings where availability and security are demanded, not requested.

Data centers, hospitals, public offices—buildings where the network, video, and access control are part of compliance. We design the infrastructure for environments where regulations rule and the user does too.

SIX LAYERS THAT KEEP THE CRITICAL BUILDING RUNNING.

● Optical networks and data center

Robust design of networks and technical rooms. Certified cabling, redundancy, monitored climate control.

● Unified communications

IP telephony, public address, and internal messaging integrated. Service continuity in any scenario.

● Technical room monitoring

UPS, climate control, leaks, presence, temperature. Alarms that don't get lost in email.

● Video and access control

Personnel identification, visitor management, video at entrances and technical areas, with traceability for auditing.

● Electronic Security

Intrusion, evacuation, technical alarms, and operator-guided procedures from a single console.

● ENS and regulatory compliance

Documentation, traceability, and procedures audit-ready by design.

FOUR PHASES SO THE BUILDING COMPLIES AND OPERATES.

■ Design with an auditor

Early coordination with the security and IT managers. An executable project aligned with regulations and operation.

■ Integration

Network, video, access, communication, and supervision talking to each other. Our own platform connecting everything.

■ Phased deployment

Without affecting service. Work in time slots, provisional redundancy, staged validation.

■ Operation

Measurable SLAs, 24/7 support, drills, and continuous auditing. Living documentation.

Does your building meet what the regulations require and what the user expects?

08 · NEXT STEP

Let's talk about your project.

If you want to go deeper into any of the previous pages, download the individual catalog or get in touch directly. No strings attached.

Let's talk.

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Full online catalog

Where the catalog falls short, we build it.