



STRAT & IOT
CONSULTING



SECURE ACCESS

RENEWABLE
ENERGY



SMART LIGHTING



GEOLOCATION & FILLING

LEVEL + 85%
OPTIMAL FILLING



GEOLOCATION &
FILLING



Turnkey projects to validate our performance commitments



ACCESS

TRACEABILITY

LIGHTING

RENEWABLE

PARTNERSHIP

Access Control

Turnkey project management

The implementation of a **turnkey access control system** for employees and logistics flows aims to secure the site, control movements, and ensure compliance with operational and HSE requirements.

It is based on a comprehensive approach integrating **assessment, design, deployment, and commissioning** of a reliable solution tailored to the constraints of an **industrial environment**.

1. Conceptualization

Employees requirements

- Identify and authenticate each individual
- Manage **access rights** by schedule and access level
- Automatically **block access** in case of non-compliance
- Ensure full **traceability** (who when, where)
- Manage **emergencies** with a real-time list of personnel
- Provide controlled **access for authorities**

Logistics truck requirements

- **Pre-registration** and gate control
- Full **traceability**: arrival and departure times, etc.
- Control of **traffic flow**

2. Translation of Requirements

- **Personnel access control**
- Management of **zones with varying criticality levels**
- Control of **trucks and logistics flows**
- **Real-time traceability and monitoring**
- **Emergency management**
- **Service continuity** (mining environment)
- **Cybersecurity and data protection**
- **Interoperability** within the security ecosystem

More information on the next page

3. Deliverables

- **Technical audit** to define hardware and software requirements
- **Full turnkey project management**
- Presentation of the selected **technical and operational scenario**
- **Equipment supply**
- Management of **installation and commissioning**
- **Supervision training**
- **First-level maintenance training**
- Provision of a **local support team** under an annual maintenance contract

Project management assistance and project steering

Co-develop the solution with the client

The launch phase includes a **technical audit** to define **deliverables aligned with the operator's expectations**.

Turnkey project management

It offers significant value given the complex **logistical, regulatory, and environmental constraints**. With a **single point of contact** for the project, the operator reduces **coordination risks**, secures **project timelines**, and benefits from a **coherent solution** tailored to local realities and high standards of **safety and operational continuity**.



ACCESS

TRACEABILITY

LIGHTING

RENEWABLE

PARTNERSHIP

Access Control

Translation of technical and operational requirements

Our **Access Control** approach is structured around a rigorous methodology centered on the precise **translation of technical and operational requirements** into secure, scalable, and performance-driven solutions. A detailed analysis is launched for the **site constraints, risk exposure, regulatory framework, and operational workflows** to ensure full alignment with business objectives. This enables us to transform complex security needs into an integrated architecture combining **identity management, physical access control, real-time supervision, and system interoperability**.

By bridging **security strategy and operational execution**, we deliver solutions that strengthen **risk mitigation**, ensure **service continuity**, and support long-term **operational resilience and performance**.

Traceability and real-time monitoring

🎯 Ensure immediate visibility of individuals present on site, through **real-time traceability** enabling secure and responsive operational management.

👉 A key function for **crisis management, incident investigations, and regulatory compliance**.

Staff access control

🎯 Ensure that only **authorized and qualified personnel** enter the site by verifying **certifications, mandatory training, and valid access authorizations**.

👉 **Automatic access denial** in case of expired credentials.

Management of areas with varying levels of criticality

🎯 Prevent access to **hazardous areas** by applying **role-based access rights**, ensuring **personnel safety** and the protection of **critical assets**.

👉 **Logical site segmentation** with full **entry logging** for each access point.

Truck control and logistics flows

🎯 Control **truck entry and exit flows** to reduce risks of **theft, errors, and intrusions**, while ensuring full **traceability and compliance** of logistics operations.

👉 **Conditional access authorization** based on predefined validation criteria.

Emergency management

🎯 Enable **rapid evacuation and real-time headcount** to ensure effective **emergency management** and secure rescue operations.

👉 **Significantly reduced verification time**.

Continuity of service

🎯 Operations impose strict **availability and reliability requirements**, making **service continuity** essential to ensure both **safety and operational performance**.

👉 The system must remain fully operational even in the event of a **network outage**.

Interoperability with the security ecosystem

🎯 An effective **mining access control system** must be fully **interoperable** with the **broader security ecosystem** to ensure enhanced **operational effectiveness**.

👉 A single integrated **platform** enables clearer **risk visibility and management**.

STRAT & IOT
CONSULTING



ACCESS

TRACEABILITY

LIGHTING

RENEWABLE

PARTNERSHIP

Geolocation and fill control

Turnkey project management

Geolocation and truck load control must secure the transport chain, optimize production flows, and ensure full material traceability from the loading point to the final destination.

Geolocation and load monitoring should be fully integrated with the access control system, ensuring consistency, enhanced security, and end-to-end operational visibility.

1. Conceptualization

- Real-time truck tracking to improve coordination between **extraction, loading, and transport**
- Ensure **load compliance** and reliability of declared **tonnage**
- Secure material transport through a complete **traceability chain**, supporting **audits and investigations**
- Improve **operational performance** by reducing **cost per ton transported**
- Strengthen **safety** by lowering accident rates
- Withstand the harsh constraints of **critical environments**

2. Translation of Requirements

- Vehicle tracking and positioning
- Load control and verification
- End-to-end transport traceability
- Securing operations
- Logistics performance optimization
- Service continuity in mining environments

More information on the next page

3. Deliverables

- Technical audit to define hardware and software requirements
- Full turnkey project management
- Equipment supply and procurement
- Management of **installation and commissioning**
- Supervision training
- First-level maintenance training
- Provision of **local maintenance support**
- Deployment of a **dedicated local team** under an annual maintenance contract

Project management assistance and project steering

Co-develop the solution with the client

The launch phase includes a **technical audit** to define **deliverables aligned with the operator's expectations**.

Turnkey project management

It offers significant value given the complex **logistical, regulatory, and environmental constraints**. With a **single point of contact** for the project, the operator reduces **coordination risks**, secures **project timelines**, and benefits from a **coherent solution** tailored to local realities and high standards of **safety and operational continuity**.



STRAT & IOT
CONSULTING



ACCESS

TRACEABILITY

LIGHTING

RENEWABLE

PARTNERSHIP

Geolocation and fill control

Translation of technical and operational requirements

Our approach to **Geolocation and Load Control** is grounded in a rigorous methodology focused on the precise **translation of technical and operational requirements** into an integrated, high-performance solution.

By analyzing **production constraints**, **logistics workflows**, **safety standards**, and **regulatory expectations**, we design a system that combines **real-time vehicle tracking**, **load verification**, and **end-to-end traceability**.

This structured approach ensures alignment between **operational performance**, **risk mitigation**, and **compliance**, delivering measurable impact in complex and high-risk environments such as mining operations.

Vehicle tracking and positioning

🎯 Ensure **continuous fleet visibility** through onboard **GPS devices** with **real-time positioning**, **dynamic supervision mapping**, **route history** and **playback**, and **configurable geofencing alerts** for route deviations.

👉 Enable the **immediate detection** of any **movement anomaly**.

Loading control

🎯 Ensure **transported tonnage compliance** through **weighbridge and/or onboard weighing systems**, **load or volume sensors**, and **automatic reconciliation** between **theoretical and measured loads**, with **alerts or blocking mechanisms** in case of abnormal deviations.

👉 Logical **site segmentation** with full **access logging** at each control point.

Transport chain traceability

🎯 Track materials from **loading point** to **unloading point** through **timestamped events** (loading, departure, arrival, unloading), **consolidated data linking truck, driver, origin, and destination**, **exportable operational logs**, and **rotation monitoring dashboards**.

👉 Enable the **full reconstruction** of each **logistics cycle**.

Continuity of service

🎯 Ensure **reliable operation in harsh conditions** through **ruggedized equipment** (dust, vibration, high temperatures), **resilient data transmission** even with limited network coverage (degraded mode / delayed synchronization), **secured power supply**, and a **redundant system architecture**.

👉 **Significantly reduced verification time**.

Optimizing logistics performance

🎯 Improve **transport cycle productivity** through analysis of **cycle times** (waiting, loading, transit), **truck utilization indicators**, **bottleneck identification**, and **advanced reporting and decision-support tools**.

👉 Reduce **operating costs** through better **resource allocation**.

Securing operations

🎯 Reduce risks of **fraud, diversion, and accidents** through **geofencing with real-time notifications**, **alerts for unauthorized or prolonged stops**, **monitoring of speed and driving behavior**, and **integration with security or mining dispatch systems**.

👉 Enable the **rapid detection** of any **high-risk situation**.



ACCESS

TRACEABILITY

LIGHTING

RENEWABLE

PARTNERSHIP

Public lighting

Turnkey project management

First of all, public lighting within an operational site must all ensure **personnel safety**, **operational continuity** (often 24/7), and the **reduction of accident risks**, while remaining suited to a demanding **industrial environment**. Its intelligent management must also support **energy efficiency** to avoid contributing to rising **fixed operating costs**.

1. Conceptualization

- Secure **movements and work areas** by ensuring sufficient visibility to prevent accidents
- Maintain **operational continuity** by avoiding production slowdowns
- Strengthen **site security** by deterring intrusions and enhancing surveillance
- Withstand **environmental constraints** such as heat, dust, and heavy rainfall
- Optimize **energy consumption and costs** by reducing operating expenses

2. Translation of Requirements

- Traffic flow security
- 24/7 operational continuity
- Enhanced **site security**
- **Resilience** to environmental constraints
- **Energy performance and cost control**
- **Operability and maintenance**

More information on the next page

3. Deliverables

- Technical audit to define hardware and software requirements
- Full turnkey project management
- Equipment supply and procurement
- Management of **installation and commissioning**
- Supervision training
- First-level maintenance training
- Provision of **local maintenance support**
- Deployment of a **dedicated local team** under an annual maintenance contract

Project management assistance and project steering

Co-develop the solution with the client

The launch phase includes a **technical audit** to define **deliverables aligned with the operator's expectations**.

Turnkey project management

It offers significant value given the complex **logistical, regulatory, and environmental constraints**. With a **single point of contact** for the project, the operator reduces **coordination risks**, secures **project timelines**, and benefits from a **coherent solution** tailored to local realities and high standards of **safety and operational continuity**.

**STRAT & IOT**
CONSULTING



ACCESS

TRACEABILITY

LIGHTING

RENEWABLE

PARTNERSHIP

Public lighting

Translation of technical and operational requirements

Our **Public Lighting approach** is built on a structured methodology focused on the accurate **translation of technical and operational requirements** into a reliable, energy-efficient, and scalable infrastructure.

Through a detailed assessment of **site constraints**, **HSE standards**, and **operational needs**, we design integrated solutions combining **industrial-grade equipment**, **intelligent control systems**, and **centralized supervision**.

This ensures enhanced **safety**, guaranteed **24/7 operational continuity**, and optimized **energy and cost performance**.

Securing traffic flow

🎯 Prevent accidents caused by insufficient visibility through industry-compliant **lighting levels**, optimized **light uniformity** to reduce shadows and glare, appropriate **color temperature** to enhance obstacle perception, and strategic pole placement aligned with traffic flows.

👉 Enable safe driving and clear situational awareness of the environment.

24/7 operational continuity

🎯 Ensure productivity, including during night operations, through properly dimensioned lighting for critical areas, high-availability long-life equipment, secured electrical redundancy in strategic zones, and rapid restoration in case of failure.

👉 Prevent any operational disruption caused by lighting failure.

Strengthening site security

🎯 Enhance surveillance and deter intrusions through perimeter and access-point lighting, adequate illumination levels compatible with **video surveillance systems**, automated activation based on detection or schedules, and glare control to optimize camera performance.

👉 Increase the overall effectiveness of the security system.

Operability and maintenance

🎯 Streamline the technical management of the lighting fleet through centralized supervision with fault reporting, secure maintenance access, standardized equipment for easier replacement, and up-to-date technical documentation and plans.

👉 Enable fast and structured maintenance operations.

Energy efficiency and cost control

🎯 Reduce operating costs without compromising safety through high **energy-efficient technologies**, intelligent **control systems** (dimming, scheduling, centralized management), optimized **power-to-area ratios**, and long-life equipment minimizing maintenance needs.

👉 Deliver high-performance lighting with controlled total cost of ownership.

Resilience in the face of environmental constraints

🎯 Ensure reliable operation in harsh conditions through high-protection luminaires (dust, humidity), equipment resistant to high temperatures, vibrations, and corrosion, mechanically reinforced structures for strong winds, and designs minimizing fouling and easing cleaning.

👉 Sustain long-term performance with minimal failures.

STRAT & IOT
CONSULTING



ACCESS

TRACEABILITY

LIGHTING

RENEWABLE

PARTNERSHIP

Renewable energy (solar)

Turnkey project management

Photovoltaic generation on an operational site must primarily contribute to **securing the power supply**, reducing **energy costs**, and lowering the **environmental footprint**, while integrating safely within an industrial environment. This energy production can also complement **public lighting systems**, particularly through the deployment of **solar-powered streetlights**.

1. Conceptualization

- Produce **local, reliable, and cost-competitive energy** to reduce dependence on **diesel generators** or unstable grids, often one of the highest cost drivers on operational sites.
- Secure the **power supply** to ensure **operational continuity**.
- Reduce the site's **carbon footprint** to meet **ESG requirements** and international standards.
- Adapt to **mining constraints** to ensure long-term performance and durability.

2. Translation of Requirements

- **Energy stability and power quality**
- **Energy monitoring and management**
- **Economic performance and cost control**
- **Safety and regulatory compliance**
- **Resilience to environmental constraints**
- **Hybridization with existing energy sources**
- **Reliable, demand-aligned energy production**

More information on the next page

3. Deliverables

- **Technical audit** to define hardware and software requirements
- **Full turnkey project management**
- **Equipment supply and procurement**
- **Management of installation and commissioning**
- **Supervision training**
- **First-level maintenance training**
- **Provision of local maintenance support**
- **Deployment of a dedicated local team** under an annual maintenance contract

Project management assistance and project steering

Co-develop the solution with the client

The launch phase includes a **technical audit** to define **deliverables aligned with the operator's expectations**.

Turnkey project management

It offers significant value given the complex **logistical, regulatory, and environmental constraints**. With a **single point of contact** for the project, the operator reduces **coordination risks**, secures **project timelines**, and benefits from a **coherent solution** tailored to local realities and high standards of **safety and operational continuity**.



ACCESS

TRACEABILITY

LIGHTING

RENEWABLE

PARTNERSHIP

Renewable energy (solar)

Translation of technical and operational requirements

Our **Renewable Energy (Solar) approach** is based on a structured methodology focused on the precise **translation of technical and operational requirements** into reliable and scalable energy solutions.

Through a detailed analysis of **site constraints**, **load profiles**, **grid integration**, and **HSE standards**, we design optimized solar architectures integrating **generation**, **storage**, and **energy management systems**.

This ensures enhanced **energy resilience**, reduced **carbon footprint**, and optimized **cost performance**.

Energy stability and quality  Protect sensitive industrial equipment through voltage and frequency regulation, management of transients and rapid load variations, harmonic filtering when required, and dispatchable power reserves (batteries or thermal generation).  Ensure power quality fully compatible with mining installations.	Energy monitoring and control  Ensure full visibility of production and consumption through supervision dashboards (output, coverage rate, performance), automated alerts in case of faults or abnormal drops, historical data analysis, and integration with the site's energy management systems.  Enable granular control of the energy strategy.	Economic performance and cost control  Sustainably reduce operating costs through optimization of the levelized cost of energy (LCOE), reduced generator fuel consumption, low-maintenance and long-life equipment, and a structured preventive maintenance plan.  Enable performance-driven and cost-controlled operations.
Resilience in the face of environmental constraints  Ensure sustainable energy production in harsh conditions through equipment resistant to high temperatures, humidity, and dust, mechanically reinforced structures for strong winds and heavy rainfall, anti-corrosion protection, and optimized module cleaning strategies to limit efficiency losses.  Preserve long-term performance and reliability.	Hybridization with existing sources  Avoid any power supply interruption through integration into a hybrid architecture combining photovoltaic, generators, and potentially the public grid, supported by an energy management system with source synchronization and optional battery storage to solar intermittency.  Ensure service continuity even without solar production.	Reliable energy production tailored to needs  Cover a significant share of electrical demand without compromising operational continuity through load-aligned plant sizing, optimized yield studies, high-efficiency equipment, and a scalable architecture for future expansion.  Deliver stable and predictable energy supply.



STRAT & IOT

ACTIVITIES

SKILLS

PARTNERSHIP

A consortium of experienced entrepreneurs



**STRAT & IOT
CONSULTING**



- ❑ Specialist in smart technologies across energy, mobility, transport, and access control
- ❑ Strat & IoT Consulting operates in Ivory Coast, France, and India.



A complementary collaboration for a commitment to results

- ❑ Supplier of high-tech equipment in video surveillance, access control, fire detection, automation, and electrical networks
- ❑ Installation and commissioning of equipment



- ❑ Supplier of photovoltaic equipment for decentralized energy production
- ❑ Installation and commissioning
- ❑ Construction of high-voltage (HV) / low-voltage (LV) substations



**STRAT & IOT
CONSULTING**



STRAT & IOT

ACTIVITIES

SKILLS

PARTNERSHIP

Our differentiate know-how

Our **differentiated know-how** is built on a unique combination of **international expansion expertise**, deep understanding of **hazardous and process-driven environments**, and proven experience in delivering **large-scale IoT digital transformation programs** across industry, energy, and transport.

Through strong **local partnerships**, strategic collaboration with **leading academic institutions**, and an operational footprint in Africa and internationally, we combine **execution agility**, **talent development**, and structured **change management** to deliver sustainable, high-impact transformation outcomes.



A strong understanding of process-driven and hazardous environments

This expertise, inherited from the **gas sector**, enhances **mine safety**, anticipates **critical risks**, and improves the **reliability of operations**



Local partners

A strong network of **operational partners across multiple countries** enables the delivery of **turnkey projects**, from installation to supervision



International expansion

An **international strategy** differs fundamentally from a national one, and strong **local market knowledge** is a critical success factor



Change impact mitigation

Implementing software or introducing digital processes can disrupt teams, making structured **change management** essential to ensure adoption and performance



Indian subsidiary, our international hub in Asia

Beyond contributing to the local economic and social ecosystem, a subsidiary acts as a catalyst for faster **decision-making** and more agile **execution**



Management of large-scale IoT digital transformation projects

Leading complex, multi-sector programs across **industry, transport, and energy**, including highly regulated and process-intensive environments



Partnership with leading Ivorian institutions for talent management

Strengthening consultants' skills and creating value for industrial clients through strategic partnerships with top Ivorian schools



STRAT & IOT CONSULTING



Office locations

INDIA – Hyderabad – Regus Asian Suncity - Level 15 - Kothaguda Village

IVORY COAST – Abidjan

FRANCE – Paris (Headquarter)