



SIWAL NDT & TECHNOLOGIES



SIWAL CLOUD DRIVEN INTELLIGENCE



Sector 62, Gurugram, Haryana
SIWAL NDT & TECHNOLOGIES PVT. LTD.

2025



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ABOUT COMPANY

Siwal NDT & Technologies Pvt. Ltd. is at the forefront of autonomous vehicle control, delivering cloud-based solutions that seamlessly manage and monitor air, water, and land vehicles.

Our cutting-edge dashboard eliminates the need for traditional ground control stations, ensuring real-time oversight, seamless data integration, and enhanced operational performance. With a focus on reliability, security, and efficiency, Siwal is revolutionizing autonomous mobility.

Siwal was made with an objective to spearhead the development of this one-of-its-kind dashboard based control when the integration of autonomous systems presented challenges, including data management complexities, the need for real-time decision-making, and ensuring robust security protocols. The design team worked relentlessly to address these challenges by leveraging cloud-based solutions that offer scalable, secure, and efficient control mechanisms for unmanned vehicles across all terrains.

The autonomous vehicle industry has witnessed exponential growth, with market valuations soaring from approximately \$87.56 billion in 2021 to a projected \$614.87 billion by 2030, reflecting a compound annual growth rate (CAGR) of 24.7%

This surge is driven by advancements in artificial intelligence, sensor technologies, and the increasing demand for efficient and safe cloud control solutions.



VISION & MISSION

Vision

Siwal's long term objective is to become the global leader in cloud-driven autonomous vehicle solutions, ensuring seamless and efficient vehicle management without ground control intervention.

Mission

To empower autonomous vehicle operators with a robust, cloud-based control system that enhances real-time monitoring, operational efficiency, and safety, setting a new industry standard.

"Self Driving Vehicles with Cloud Control and Management are Natural Extension to Active Safety, Yielding Desirable Outputs"





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WELCOME MESSAGE

Director's Desk

Siwal envisions a future where autonomous vehicles operate seamlessly without the constraints of traditional ground control systems. Our cloud-driven platform is designed to provide:

- **Scalability:** Accommodating a growing number of vehicles and diverse operational scenarios.
- **Interoperability:** Ensuring seamless integration with various vehicle types and existing infrastructure.
- **Intelligence:** Utilizing advanced analytics and machine learning to enhance decision-making processes.

To establish and maintain market leadership, we are committed to:

- **Continuous Innovation:** Investing in research and development to stay ahead of technological advancements.
- **Strategic Partnerships:** Collaborating with industry leaders, regulatory bodies, and academic institutions to foster a collaborative ecosystem.
- **Customer-Centric Approach:** Tailoring solutions to meet specific client needs, ensuring high satisfaction and loyalty.
- **Global Expansion:** Extending our reach to international markets, adapting our solutions to diverse regulatory and operational landscapes.

WHY CLOUD CONTROL?

Autonomous vehicles are increasingly integrated into industrial, defense, and commercial operations. However, current fleet management systems suffer from:

- Data Silos – Fragmented data across multiple platforms reduces operational clarity.
- Limited Real-Time Oversight – Inability to track vehicle performance and safety efficiently.
- Complex Integrations – Difficulty in merging existing fleet management systems with autonomous operations.

“Integrating Speed with Accuracy is the Backbone of Modern Vehicular Development”



Siwal’s cloud-based control dashboard solves these challenges by offering a unified, real-time, and intelligent control system that optimizes performance across different terrains.





PRODUCT UTILITY VALUE PROPOSITION

Real-time monitoring & Oversight

- Live tracking of speed, location, and battery status.
- Instant alerts for potential safety concerns.
- Performance analytics for predictive maintenance.

High-Speed, Reliable Data Channels

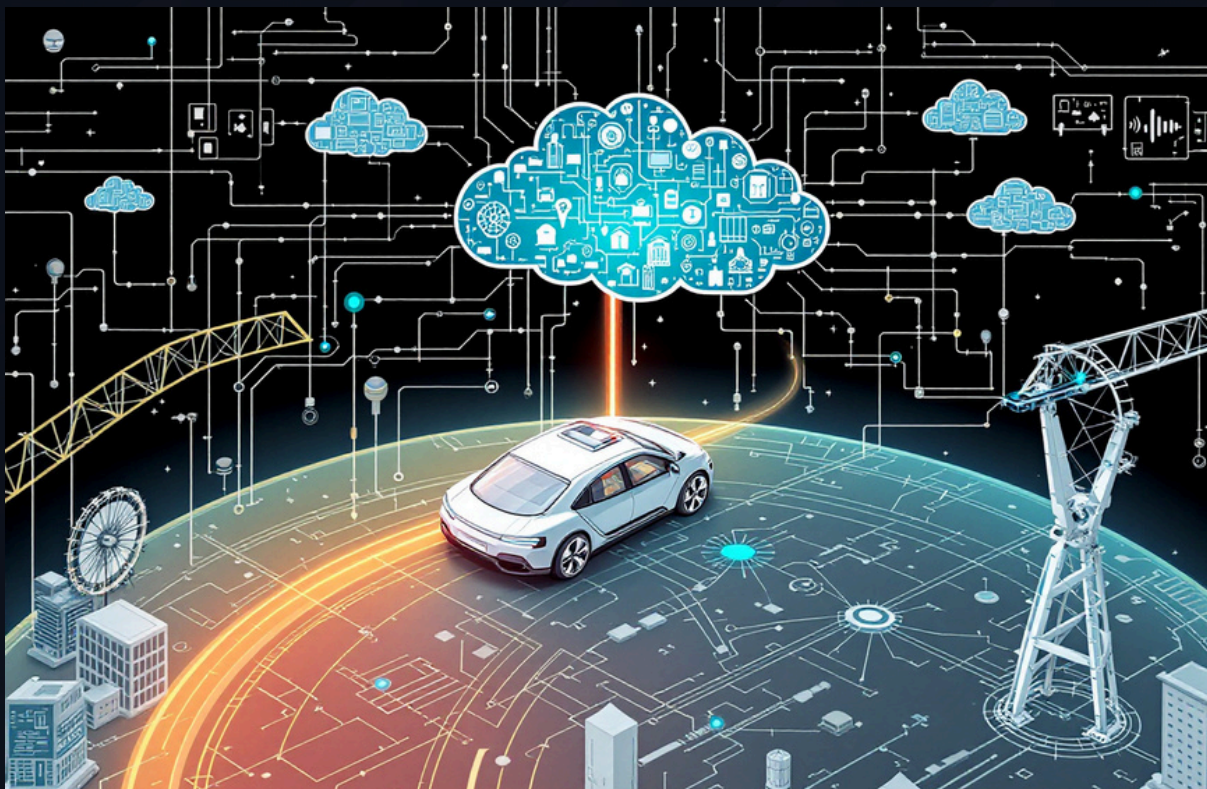
- Low latency for time-critical decisions.
- High throughput to process large-scale vehicle data.
- Redundant infrastructure for uninterrupted connectivity.

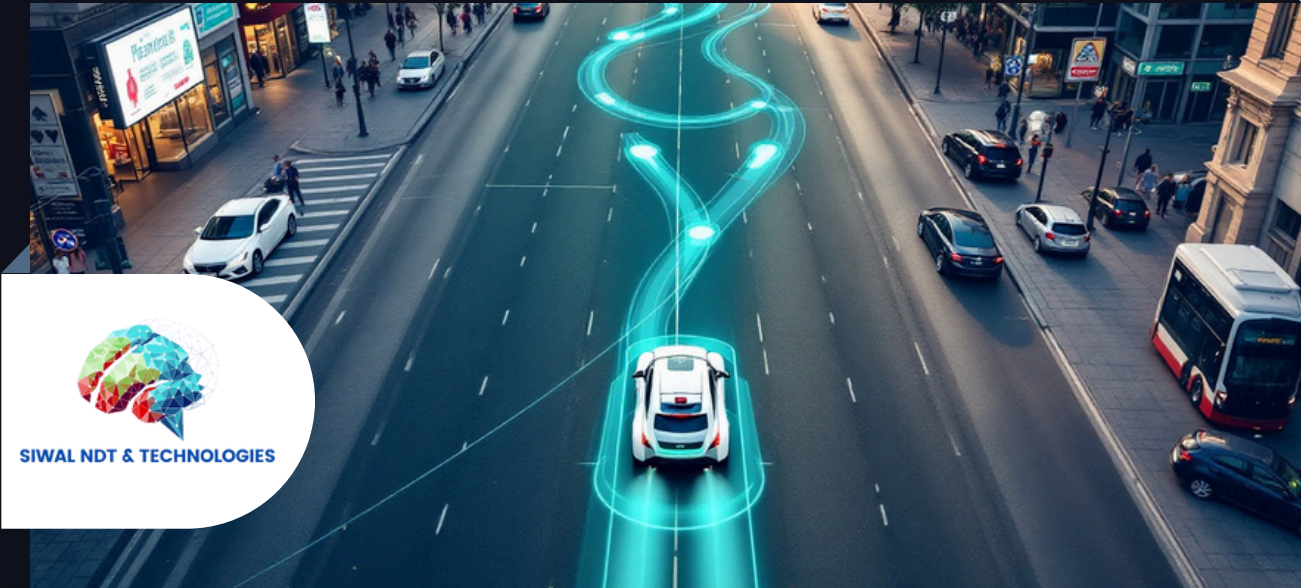
Fleet Management & Optimization

- Smart route planning for efficient operations.
- Automated resource allocation to minimize downtime.
- Seamless cloud-to-vehicle data synchronization.

Security & Compliance

- End-to-end encryption for secure cloud communication.
- Industry-standard data compliance protocols.
- Client data security layering



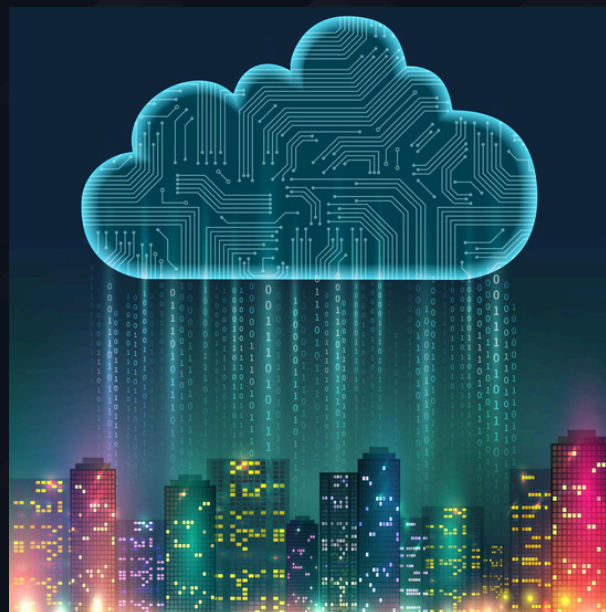


COMPETITIVE EDGE

1. 100% Cloud-Driven Autonomy – Eliminates the need for traditional ground control stations.
2. Multi-Terrain Compatibility – Supports autonomous vehicles in air, water, and land applications.
3. Data-Driven Intelligence – Predictive analytics ensures smarter decision-making.
4. Robust Security Framework – Protects vehicle-to-cloud communication.
5. Scalable Infrastructure – Adapts seamlessly for small to large fleet operations.

MARKET INSIDER

Companies like Skylift UAV, Flytbase and groundcontrol.com are prominent players in Indian market acquiring 90% of market share with more than 250+ enterprise grade customers. Siwal's customer centric approach offering scalability and flexibility for academic institutes will fetch high demand, volume and brand recognition to its platform. More than 13 lakh+ institutes with on-going small to medium scale unmanned vehicle development are operating in India which is a high ticket niche for Siwal's platform.



MEET THE VISIONARY TEAM

Siwal's leadership team comprises visionaries and industry experts with years of experience in aligning and organising industrial subsystems. Our engineering team is a powerhouse of talent, driving product excellence through continuous R&D, system optimization, and integration of cutting-edge technologies. This synergy enables Siwal to lead innovation in autonomous mobility, ensuring that our solutions remain at the forefront of scalability, security, and performance.



Prem Prakash Verma

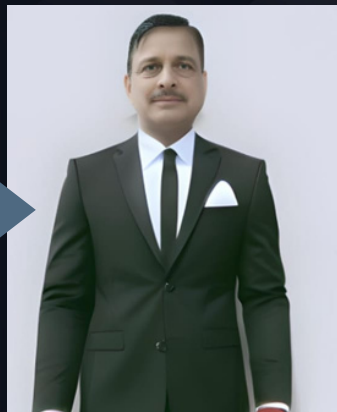
DIRECTOR

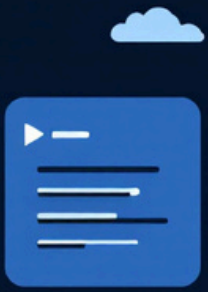
Prem Prakash Verma is a seasoned Supply Chain Management professional with 7+ years of experience in procurement, vendor management, and strategic sourcing, excelling in SAP HANA, cost negotiation, and inventory optimization.

Sanjeev Kr. Saxena

DIRECTOR

Sanjeev Kumar Saxena holds an eclectic experience in managing the process cycle of production and service and holds a perfect blend of experience and knowledge to focus teams towards organisational goals and vision.





KEY HIGHLIGHTS

USER ACCESS CONTROL

Level 0 (Pilots & Co-Pilots)

- Highest priority users who control data collection and execution.
- Direct access to real-time telemetry, vehicle health, and mission-critical commands.
- Immediate data transmission to ensure swift decision-making.

Level 1 (System Engineers)

- Monitor QGC (Ground Control Station) and system stats for vehicle performance.
- Focus on vehicle diagnostics, maintenance logs, and backend performance monitoring.

Level 2 (Evaluators & Auditors)

- Analyze historical performance data, compliance logs, and operational efficiency.
- Access restricted to read-only insights for non-intrusive assessments.

Level 3 (Decision Makers)

- Strategic users who oversee operations and policy implementations.
- Review mission reports, compliance data, and resource allocations.

Level 4 (Guests)

- Limited access to basic mission reports and public data for stakeholders.
- Restricted view of mission summaries without access to live telemetry.

The Siwal Cloud-Based Control Deck provides a system which leverages TCP/IP-based communication, supporting high-speed, reliable data transmission across multiple levels of users, ensuring mission-critical operations function seamlessly





OUR EXPANSION PLAN

As industries worldwide transition towards automation and AI-driven mobility, Siwal's scalable SaaS platform is well-positioned for high adoption rates.

Model 1 (Software as a Service)

Target Customers:

- Logistics companies managing autonomous delivery fleets.
- Defense organizations integrating multi-terrain autonomous operations.
- Smart city planners deploying AI-driven fleet coordination.

Revenue Moat:

- Recurring revenue stream ensures predictable cash flow & long-term client retention.
- Custom API monetization allows third-party integrations, expanding Siwal's ecosystem lock-in.

Model 2 (Enterprise Licensing)

Target Customers:

- Military & Defense Agencies: Securely managing autonomous drones, UAVs, and maritime systems.
- Airports & Seaports: Optimizing aircraft ground movements & autonomous vessel operations.
- Mining & Industrial Plants: Deploying autonomous inspection & logistics.

Revenue Moat:

- High switching costs for enterprises ensure long-term contracts.
- Custom infrastructure deployments create an exclusive B2B market.

Model 3 (Data as a Service)

Target Customers:

- Urban mobility planners designing autonomous infrastructure.
- Fleet operators optimizing predictive maintenance schedules.
- Governments implementing AI-based traffic flow monitoring.

Revenue Moat:

- Continuous data accumulation creates a high-value, AI-driven analytics product.
- Strategic industry partnerships establish long-term scalability.

Global Market Entry Strategy

Strategic Partnerships:

Collaborating with global fleet operators, defense contractors, and city governments.

Localized Sales Teams:

Hiring regional business development managers for on-ground execution.

Regulatory Adaptation:

Ensuring compliance with international safety standards for autonomous vehicle operations.





CONTACT INFORMATION

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