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Fleet Degradation Analytics Market Forecasts to 2032 – Global Analysis By Type (Operations Management, Vehicle Maintenance & Diagnostics, Performance Management, Fleet Analytics & Reporting and Other Types), Deployment, Fleet, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Fleet Degradation Analytics Market is accounted for $2.4 billion in 2025 and is expected to reach $8.4 billion by 2032 growing at a CAGR of 19% during the forecast period. Fleet Degradation Analytics is the use of advanced data science, predictive modeling, and IoT-driven telematics to monitor and forecast the wear, tear, and performance decline of transportation or equipment fleets. This approach combines real-time sensor data with historical maintenance records to predict component failure, optimize asset lifecycle management, and minimize downtime. By applying AI algorithms, organizations can make proactive repair decisions, reduce operational costs, and extend fleet longevity.

According to Grand View Research, the Fleet Degradation Analytics Market is expanding as transportation and logistics industries increasingly adopt IoT, AI, and sensor-based analytics to predict fleet degradation, optimize maintenance, reduce downtime, and manage operational expenses.

Market Dynamics:

Driver:

Rising need for fleet optimization

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Rising need for fleet optimization is spurring the adoption of fleet degradation analytics, as companies seek to minimize downtime, extend vehicle lifespans, and improve overall operational efficiency. The growing use of connected vehicles, telematics, and IoT-based monitoring systems is further enabling real-time insights into asset performance. Fueled by increasing fuel costs and strict sustainability targets, businesses are prioritizing predictive solutions that reduce repair frequency and optimize routes. Consequently, demand for advanced analytics in fleet management is accelerating significantly worldwide.

Restraint:

High costs of analytics integration

High costs of analytics integration remain a major barrier to widespread adoption. The implementation of advanced predictive maintenance systems, AI-driven analytics platforms, and telematics sensors often requires substantial capital expenditure. Smaller fleet operators, in particular, face financial hurdles in adopting such solutions, as return on investment may not be immediate. Additionally, ongoing expenses related to system upgrades and training add to the burden. This cost-intensive ecosystem limits market penetration, especially in developing economies with constrained technological infrastructure.

Opportunity:

AI-driven predictive fleet analytics adoption

AI-driven predictive fleet analytics adoption presents immense potential for market growth. Artificial intelligence and machine learning are revolutionizing fleet health monitoring by detecting degradation patterns before failures occur. This enhances decision-making, reduces unplanned downtime, and optimizes lifecycle costs of fleet assets. Furthermore, integration with cloud-based platforms enables scalable and accessible solutions across industries. Spurred by advancements in big data processing, AI-enabled fleet analytics is expected to create significant opportunities for service providers and technology vendors in the years ahead.

Threat:

Volatility in automotive industry demand

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Volatility in automotive industry demand poses a serious challenge to the fleet degradation analytics market. Shifts in global supply chains, fluctuating fuel prices, and economic downturns directly impact fleet expansion and replacement cycles. When vehicle sales or leasing activity slows, investments in advanced analytics tools also tend to decline. Moreover, disruptions in raw material supply and semiconductor shortages have already constrained telematics device availability. This cyclical nature of the automotive ecosystem continues to threaten the consistency of market growth.

Covid-19 Impact:

The Covid-19 pandemic had a dual impact on the fleet degradation analytics market. Initially, global lockdowns, reduced mobility, and supply chain disruptions dampened fleet usage and technology adoption. However, the surge in e-commerce, last-mile delivery, and logistics resilience strategies drove renewed demand for analytics-driven fleet management solutions. Companies increasingly turned to predictive tools to minimize unexpected breakdowns and ensure operational continuity during the crisis. As a result, the pandemic acted as a catalyst for digital transformation within the fleet ecosystem.

The operations management segment is expected to be the largest during the forecast period

The operations management segment is expected to account for the largest market share during the forecast period, owing to its critical role in optimizing fleet performance and ensuring business continuity. Operations management solutions enable predictive scheduling, downtime reduction, fuel monitoring, and real-time reporting, all of which significantly enhance efficiency. Spurred by growing logistics and transportation demands, fleet operators are increasingly prioritizing integrated platforms that streamline management tasks. Consequently, this segment continues to dominate adoption rates in the market.

The commercial fleets segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the commercial fleets segment is predicted to witness the highest growth rate, impelled by rapid expansion in e-commerce, logistics, and shared mobility services. Rising demand for real-time monitoring and predictive maintenance in delivery vans, trucks, and rental fleets is accelerating the adoption of analytics-driven

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solutions. Furthermore, strict regulatory compliance for emissions and safety standards is pushing commercial operators toward advanced technologies. Consequently, the segment is poised to record robust growth across global markets.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold largest market share, driven by expanding logistics infrastructure, rising vehicle ownership, and government-led smart transportation initiatives. Countries such as China, India, and Japan are witnessing exponential growth in fleet operations across e-commerce, retail, and manufacturing. Fueled by rapid urbanization and digital transformation, fleet operators in this region are embracing predictive analytics to minimize costs. This strong demand positions Asia Pacific as the global leader in market share.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR attributed to strong technological adoption, well-developed transportation networks, and significant investments in AI-driven analytics. The U.S. and Canada are leading in telematics integration, big data platforms, and advanced fleet monitoring systems. Furthermore, rising emphasis on sustainability and electrification of fleets is accelerating demand for predictive maintenance tools. Consequently, North America is expected to record the fastest expansion in fleet degradation analytics adoption.

Key players in the market

Some of the key players in Fleet Degradation Analytics Market include AT and T Inc., Avrios International AG, Bridgestone Corp., Chevin Fleet Solutions, Donlen Corp., Element Fleet Management Corp., Fleetio, Geotab Inc., GPS Insight, GURTAM, Holman Inc., MiX Telematics Ltd., Motive Technologies Inc., NetraDyne Inc., Samsara Inc., Solera Holdings LLC, JSC Teltonika, TomTom NV, Trimble Inc. and Verizon Communications Inc.

Key Developments:

In August 2025, AT&T Inc. introduced enhanced telematics connectivity solutions aimed at improving real-time fleet monitoring accuracy and bandwidth, enabling lower latency data transfer for advanced analytics in commercial fleets.

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In July 2025, Avrios International AG rolled out an AI-powered fleet management platform update, integrating predictive maintenance analytics and automated compliance tracking to optimize fleet uptime and reduce operational costs.

In June 2025, Bridgestone Corp. launched new tire health monitoring technology embedded with sensors that provide real-time degradation analytics to fleet operators, improving safety and maintenance scheduling.

Types Covered:

- Operations Management
- Vehicle Maintenance & Diagnostics
- Performance Management
- Fleet Analytics & Reporting
- Other Types

Deployments Covered:

- Cloud
- On-premises

Fleets Covered:

- Commercial Fleets
- Passenger Car Fleets

End Users Covered:

- Transportation & Logistics

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- Retail
- Oil & Gas
- Construction
- Government
- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan

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China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032

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- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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