AT&T Network Edge
Use Case Library

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AT&T Network Edge and Retail

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Accelerate retail experiences and profitability

Consumer expectations of retail experiences are ever-increasing, with new technology fueling innovative ways for customers to engage with, purchase, and receive their products.

See how AT&T Network Edge can meet your customers evolving demands and create revenue streams for your business.

Scenarios

From virtual try-on experiences to immersive training to near real-time inventory monitoring, it's time to get real about connecting to the edge.

Solutions	Benefits
Immersive, personalized experiences powered by AI/ML	Increase your sales by enabling immersive try-on experiences and providing personalized promotions—all backed by an informed understanding of your customers shopping behavior through AI/ML
AR/VR training experiences	Consistent, immersive training for your staff can motivate them and increase overall onboarding satisfaction
Checkout-free shopping solutions	Eliminate long and frustrating checkout lines for your customers and staff while minimizing store operating costs
Holistic inventory tracking	Always know where your inventory is and how much you have to make more informed decisions and to replenish stock faster
Autonomous Robots	Improve your warehouse performance and increase product and pallet matching accuracy through autonomous robots and smart cameras
AI Camera Analytics for Near Real-time Insights	Leverage cameras and computer visioning to unlock near real-time insights into your customers in-store traffic patterns, product engagements, check out behavior and more

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AI Camera Analytics for Near Real-time Shopper Insights

With the help of store cameras and computer vision, businesses can gain new insights into customer preferences and behaviors through AT&T Network Edge.

Process data from live videos

Capture valuable insights and trends. (e.g. what time customers arrive to the store, what kind of transport is being used, number of customers and customer demographics at any given time)

Capture key metrics

By measuring product interactions, customer walking paths, and checkout behavior, informed decisions can be made to improve merchandising strategy, employee utilization, development of in-store promotions, and more

Benefits

Holistic understanding of customer behavior, preferences, and demographics

Optimized merchandising strategy

Increased Sales

Data-backed allocation of resources and staff

AT&T Network Edge and Manufacturing

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Automate manufacturing processes for increased productivity

New technologies have changed the way manufacturers work. With new sensors, computer visioning, cameras, and other large data-producing applications, manufacturers are facing new pressures for achieving peak connectivity performance.

See how AT&T Network Edge can not only meet those demands— but create new efficiencies and opportunities for enterprise automation and cost optimization.

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Scenarios

From immersive training experiences to visual inspections to improved asset management, it's time to get real about connecting to the edge.

Solutions	Benefits
Remote assistance when and wherever it's needed	Enable front-line, manufacturing workers to connect with first class experts for inspections, support, and troubleshooting –no matter where those experts are, all in near real-time
AR/VR training experiences	Deliver immersive training experiences that engage your team, provide consistency, and minimize inefficiencies across all manufacturing locations
Safer and reliable visual inspections	Maintain safety of manufacturing structures and equipment by using reliable autonomous machines for visual inspections and processing the data captured at the edge
Improved worker safety and compliance	Minimize time spent on monitoring PPE compliance and safety protocols to increase employee safety and reduce health hazards and overall absenteeism
Asset management	Save time on unproductive tool location searches by implementing asset tracking and traceability systems that leverage 5G capable sensors to transmit data to centralized management systems
Advanced Predictive Maintenance	Process data from sensors, cameras, and computer visioning to pre-emptively detect when a machine will fail and help avoid costly workflow failures

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Optimize Productivity with Advanced Predictive Maintenance

By processing data from sensors, cameras, and computer vision through AT&T Network Edge, enterprises can prevent the unexpected through predictive maintenance.
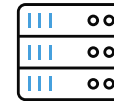
Leverage 5G devices

Preemptively detect when a machine will fail or even when a piece of equipment is out of place to avoid damage, injuries and even theft

Create automatic alerts

When issues are detected, send out alerts in near real-time to ensure the machinery or equipment is examined to avoid large system breakdowns and reduce overall downtime

Reduce the need for on-premise servers

Save valuable space by offloading data to the network edge.

Benefits

Avoid costly workflow failures and damages

Optimize manufacturing output through better maintained machinery

Improve monitoring of vehicle and equipment placement to avoid injuries and even theft

AT&T Network Edge and Healthcare

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Embracing the future of care with edge computing

Healthcare as we know it is being transformed by new technologies that elevate situational awareness, data sharing, and treatment potential.

See how AT&T Network Edge can accelerate your healthcare facility's ability to evolve with increasing training proficiencies and technologies for better patient outcomes.

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Scenarios

From AR/VR distraction therapy to remote workstation optimization to patient monitoring, it's time to get real about connecting to the edge.

Solutions	Benefits
Remote workstation flexibility and optimization	Increase workplace flexibility and enable a consistent desktop experience across your enterprise to decrease needs for installation maintenance
AR/VR training experiences	Deliver immersive training experiences that engage your healthcare team, increase proficiency, and provide consistency in skills—even when teams are remote
Empower those who are visually impaired with A/R	Enable visually impaired individuals to better navigate new spaces both indoors and outdoors through A/R visual aids and applications
AR/VR distraction therapy	Reduce anxiety of undergoing even routine medical procedures through tailored AR/VR distraction therapy that may increase patients' abilities to cope
Patient monitoring in and out of healthcare facilities	Reduce in-patient visits, free-up hospital beds, and monitor medication adherence at scale through 5G-connected devices that increase visibility inside and outside of healthcare facilities
Connected ambulance technology	Enable life saving technologies and communications that can be leveraged by paramedics in ambulances to increase patient outcomes

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Connected ambulance technology for better patient outcomes

Reduce delays caused by long hand over times, miscommunications, and data blind spots to enable faster and more accurate diagnosis and treatment by on-site paramedics.

Increase visibility and data sharing capabilities

Enable paramedics, doctors and other healthcare providers to better communicate about the status and location of incoming patients, as well as access critical information in the patient's EHR

Utilize new, cutting-edge healthcare tools

Unlock new diagnosis and treatment capabilities through 5G devices like AR glasses to better provide life-saving measures in near real-time

Benefits

Increase situational intelligence

Help diagnose and treat patients faster and more accurately

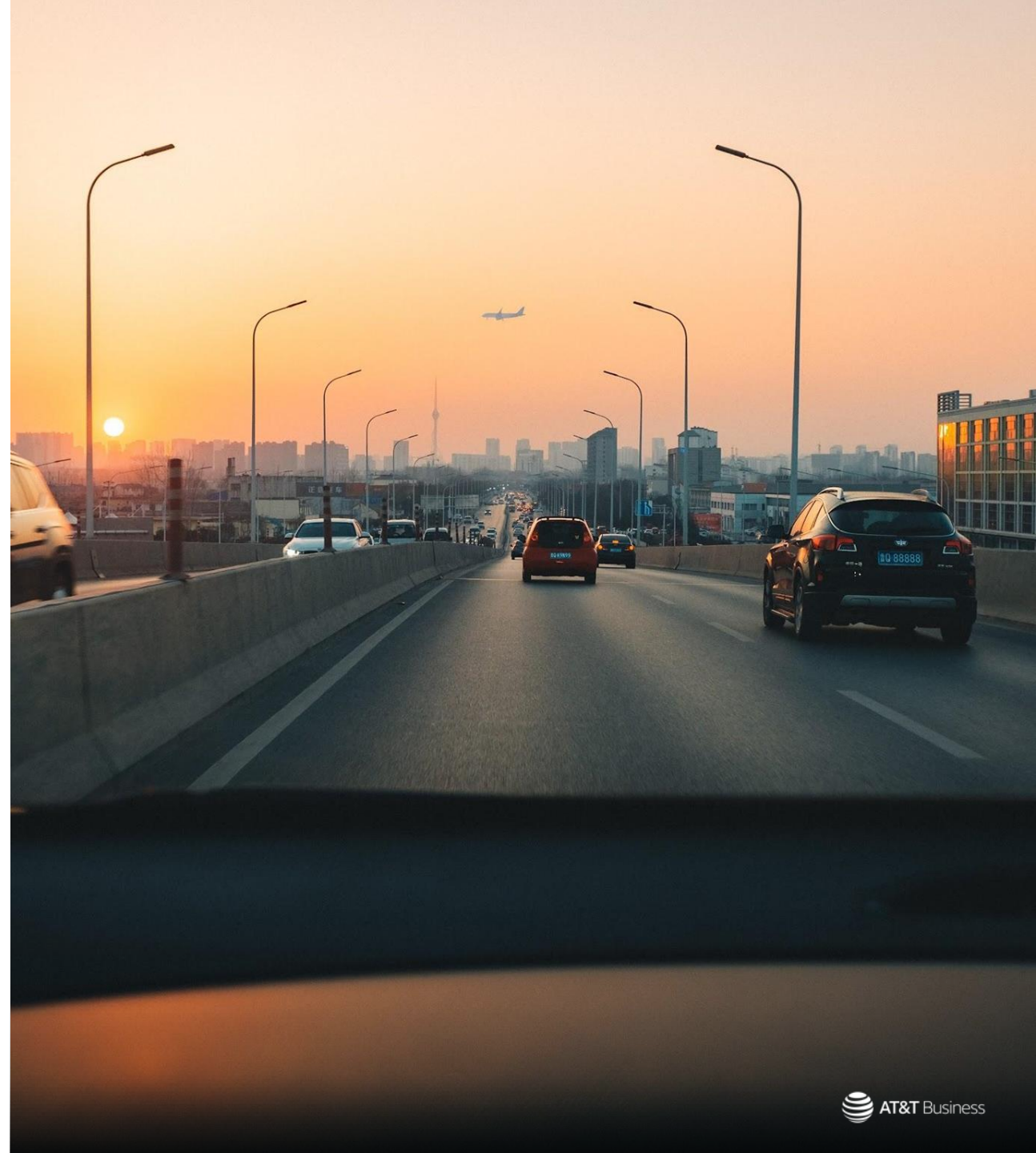Ability to leverage new, lifesaving diagnostic tools and treatments

AT&T Network Edge and Automotive

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Increase automotive intelligence while on the move

Road infrastructure is evolving. Street lights, cars, bridges and more are transforming travel with smart 5G compatible sensors and devices that increase roadside safety and intelligence.

See how AT&T Network Edge can enable OEMs to tap into the smart transportation ecosystem to improve driver satisfaction and safety.

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Scenarios

From vehicle maintenance to collision avoidance,
it's time to get real about connecting to the edge.

Solutions	Benefits
Remote vehicle software maintenance	Deploy or test FOTA updates over-the-air quickly and reliably to provide updates and/or fixes to both new dealership vehicles and used vehicles without the need for a physical connection
Collision avoidance	Leverage the exchange of information among vehicles, pedestrians, and road infrastructure to help vehicles reliably react to hazards happening on the road in near real-time
Smart Parking	Harness computer visioning to monitor both parking availability and safety hazards within defined parameters
Autonomous vehicles	Connect autonomous vehicles to the edge to improve safety, enhance efficiency, reduce accidents and decrease traffic congestion
Safer and reliable visual inspections	Maintain safety of automotive manufacturing structures and equipment by using reliable autonomous machines for visual inspections and processing the data captured at the edge
Monitoring driver performance for increased safety	Increase overall safety on the roads by leveraging sensors and cameras on vehicles and road infrastructure to identify driver behaviors, trigger alerts to possible hazards, and more

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Monitoring driver performance for improved safety

Creating road transparency and increase situational awareness is possible by using video analytics and sensor data to monitor driver **behavior** as they are on the go—with AT&T Network Edge.

Detect hazards and generate alerts

Data like speed, level of distraction, sudden movements, and even obstacles on the road can be detected with an assortment of 5G devices to trigger safety alerts in near real- time

Improve overall road safety

Develop tailored driving training content according to driver skill level, demonstrate liability in accidents, and track driver decision making for more accurate insurance rate renewals

Benefits

Improve overall safety

Increased visibility into driver behavior and compliance

Deeper insights for insurance and liability issues through new sources of data