



Leading the Digital Transformation of the Infrastructure Industry

A Generational Shift is Underway

ProStar Holdings Inc.
TSXV: MAPS • OTCQX: MAPPF • FSE: 5D00

Investor Education White Paper | September 2026 (rev.260915)

Contents

- Executive Summary
- An Industry Ready for Change
- ProStar's PointMan Precision Mapping Solutions
- The Cost of Inaccurate and Incomplete Information
- Converging Forces Driving Adoption
- The First Mover Phase
- PointMan's Adoption by Industry Leaders
- ProStar's LinQD open API Platform
- Our Strategic Partnership Ecosystem
- ProStar's Growth Strategy
- About ProStar
- Cautionary Statements Regarding Forward-Looking Information



Executive Summary

For more than a decade, ProStar has been pursuing a single mission: to become a leader in the digital transformation of the infrastructure industry. The industry sectors responsible for building, managing, and maintaining the world's critical infrastructure have remained among the least digitized in the world. For more than fifty years the industry has continued to rely heavily on paper records, static maps, legacy systems, and manual processes. But today that is all changing as the industry has now reached a critical tipping point, driven by an unsustainable rise in utility damages alongside mounting economic and regulatory pressures.

A major challenge and growing concern are the rising number of damages to buried infrastructure caused by construction activities. Every excavation is a direct threat to the nation's underground utility network comprised of an estimated 50 million miles of pipe, cable, and conduit. Not knowing exactly where the buried infrastructure lies below the ground has become a major and growing economic and safety concern.

Every minute of every working day an underground utility is damaged. The financial impact and safety concerns associated with damages to utilities is substantial and has continued to increase each year and is simply unsustainable. The number of utility strikes increased from 196,977 in 2024 to 221,717 in 2025 which represents an increase of 12.6%. The annual cost of excavation-related utility damages in the U.S. alone has risen by over \$50 billion in just six years, which is nearly triple the prior benchmark, and that number continues to rise.

An industry that has remained reliant on incomplete, outdated and fragmented records, is experiencing the unprecedented surge in utility strikes due to aging infrastructure and increased construction activities as demand for replacement and installation of new infrastructure continues to escalate. Consequently, the industry is now transitioning from a culture of being reactive to being proactive by integrating modern technologies into improve operational workflows and to safeguard infrastructure, reduce costs, and improve safety. At the same time, several other converging forces are driving the industry toward digital workflows faster than at any point in the industry's history.

ProStar was first to market with a precision digital mapping solution and, as such, faced several standard hurdles. These included completing the early development required, identifying first movers, refining the product and proving measurable return on investment. Today, PointMan is commercially deployed by some of the largest and most demanding companies and government agencies across multiple industry sectors, including Fortune 500 companies, national construction and engineering firms, utilities, municipalities, and state Departments of Transportation. We have proven that PointMan can reduce utility strikes by over 97%, and adoption is increasing throughout all the industry sectors.

The Company has also established more than 20 OEM integrations with the industry's leading hardware and software providers, allowing PointMan to work alongside the equipment, positioning technologies, systems of record, and other emerging technologies already used throughout the infrastructure industry. By integrating PointMan with leading utility-locating equipment, GNSS (Global Navigation Satellite System) and RTK (Real-Time Kinematic) technologies and systems of record, ProStar has extended PointMan's functionality and leveraged established distribution channels, dealer networks, and customer relationships.

The public sector also represents a major opportunity for expansion, and adoption of PointMan in this sector is growing. ProStar currently reports four state agencies as customers, with several more evaluating the platform. Expansion into government agencies is supported by our strategic partnership with Carahsoft Technology Corp., the leading government technology distributor and Master Government Aggregator®.

ProStar is now focused on increasing market penetration and driving mainstream adoption. Our growth strategy is built around expanding deployments within existing enterprise customers, acquiring new customers, increasing adoption among government agencies, and leveraging strategic partnership distribution channels to accelerate growth in the U.S. and internationally.

This next stage will require ProStar to strengthen its operations with a focus on sales and distribution across a substantially larger customer base. As such, the Company recently made operational changes, including new leadership. The recent appointment of Michael Wolff as CEO is the first step toward meeting ProStar's objective of expanding its commercial reach and advancing its long-term goal of establishing its technology as a global standard for critical infrastructure mapping and management.

We believe ProStar has reached the stage it has been building toward: moving from innovation, validation, and first-mover adoption into a new phase focused on broader market adoption, commercial execution, and scale. The long-awaited transformation has created the opportunity we have been working toward for years.

An Industry Ready for Change

The infrastructure industry encompasses a vast ecosystem of organizations that design, build, locate, and maintain essential physical systems. It is among the largest and most essential industries in the world, yet one of the most resistant to change. For more than fifty years, the industry has seen little operational change, relying on largely the same tools: paper records, static maps, legacy databases, and institutional knowledge held by a shrinking pool of experienced workers. The management consulting company, McKinsey & Company ranks construction, the industry's largest segment, among the least digitized major industries, noting that it produced roughly \$13 trillion in gross annual output globally in 2023 and could grow by about 70 percent by 2040. That scale together with rising labor costs, project complexity, and surging demand for new and rebuilt infrastructure is intensifying pressure to modernize on a sector that has long underinvested in technology.¹

A major challenge and growing concern are the rising number of damages to buried infrastructure caused by construction activities. Every excavation is a direct threat to the nation's underground utility network comprised of an estimated 50 million miles of pipe, cable, and conduit. Not knowing exactly where the buried infrastructure lies below the ground has become a major and growing concern.

ProStar's PointMan Precision Mapping Solutions

ProStar's patented PointMan cloud and mobile precision mapping solutions was specifically developed to reduce damages to utilities caused by construction activities and improve the asset management and maintenance lifecycle.

PointMan provides the ability to capture and record the precise geographic location of underground infrastructure assets and create a persistent digital record that can be accessed, managed, and updated throughout the asset lifecycle in real-time on a standard smart phone device.

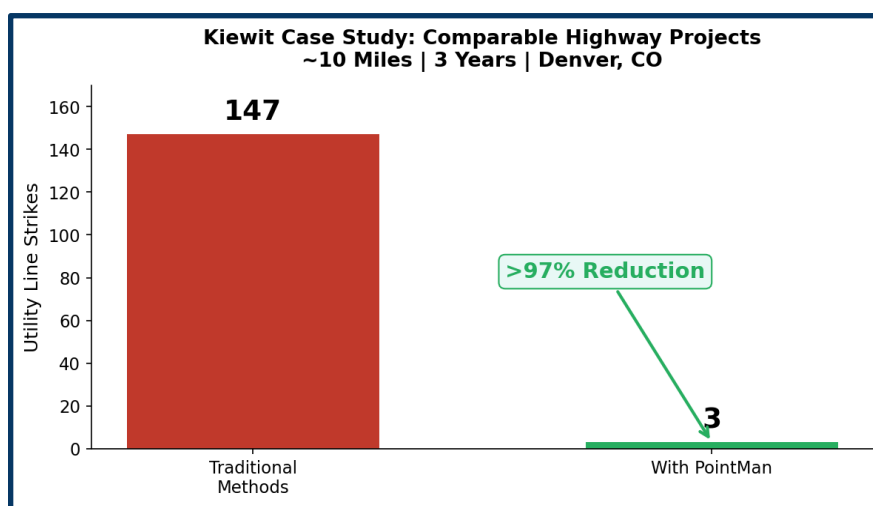


The PointMan is a cloud & mobile solution offered as a SaaS mode

By replacing paper records, static maps, fragmented databases, and other legacy practices with precise geospatial data, PointMan has proven to reduce uncertainty in the field, improve coordination among stakeholders, increase operational efficiency, and reduce costly utility strikes, project delays, damages, and injuries that can be fatal.

Demonstrated ROI: The Kiewit Case Study

A comparative case study involving Kiewit on two similar infrastructure construction projects demonstrated the significant impact PointMan can have on reducing utility damages and associated costs. Both projects involved approximately 10 miles of highway construction over a three-year period in Denver, Colorado, under similar conditions.



The project that incorporated PointMan during the design and construction phases experienced only 3 utility line strikes, compared with 147 line strikes on the project that relied on historical records and traditional locating practices — a reduction of more than 97%.

The Cost of Inaccurate and Incomplete Information

Every year, unintentional strikes on buried utility lines cause billions of dollars in damage, service disruptions, and injuries, nearly all of them preventable. The Common Ground Alliance, the industry's leading damage-prevention association, reported 221,717 unique damages to buried utilities in 2025, up from 196,977 in 2024. That is an 12.6 % rise in a single year, a trend moving the wrong way.ⁱⁱ

A major issue is that much of the existing underground infrastructure network was installed fifty to a hundred years ago, and most of the infrastructure was never properly mapped. Where any underground records do exist, they are often on paper, scattered across files, or held in the memory of long-tenured employees, making it hard to give crews a complete, verifiable picture of a utility location before excavation occurs. As construction demand increases, so does the risk of damage, and the financial toll is steep: industry estimates place the annual cost of excavation damage, repairs, service restoration, medical expenses, and property damage in the US has risen to over \$83 billion annually.^{iiiv}

In the United States, a utility line is damaged every minute of every working day, often with costly and dangerous consequences. The root cause is simple, the industry lacks reliable, accurate records of what lies beneath the surface. It is the problem PointMan was built to resolve.¹¹



Current Damages Prevention Practices

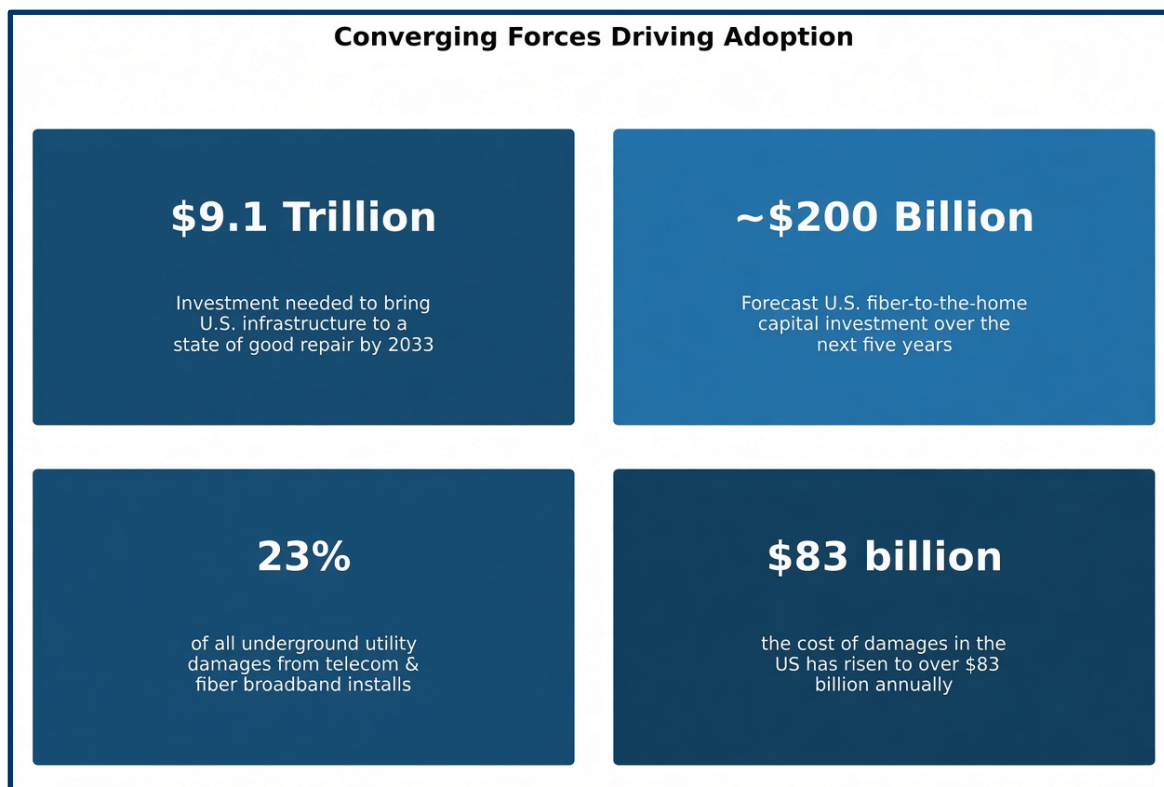
811 "Call Before You Dig" is a free national service in the United States that connects anyone planning to excavate with local 811 One-Call notification centers. The 811 system was formalized in the late 1970s after a series of fatal pipeline strikes and has changed very little since.^v

Under the current damage prevention practices, utilities are identified using a utility locating device and the approximate location is marked with spray paint or flags. These location markings are temporary by nature and without meaningful geospatial accuracy. In fact, each locate carries a legal margin of error, a "tolerance zone" that typically extends 18 to 24 inches on either side of the mark; the line can lie anywhere within it, with no guarantee of its exact position or the depth.^{vi}



Converging Forces Driving Adoption

The industry has reached a critical tipping point, driven by an unsustainable rise in utility damages alongside mounting economic and regulatory pressures. Historically reliant on outdated, fragmented records and physical paint marks, the industry is experiencing an unprecedented surge in utility strikes due to aging infrastructure, increased excavation density, and severe labor shortages. Several converging forces are driving the industry toward digital workflows faster than at any point in the industry's history.



Aging Infrastructure and Rising Repair Needs

The nation's water, sewer, and gas systems are aging faster than they are being replaced. Americas Society of Civil Engineers' (ASCE) 2025 Infrastructure Report Card estimates that \$9.1 trillion is needed across all categories of U.S. infrastructure to reach a state of good repair.

Our water and sewer infrastructure has reached a critical point, with the majority of these systems installed 60 to 100 years ago and now deteriorating to the point that significant repair or replacement is urgently needed. At the same time, aging and deteriorating water systems are contributing to the loss of an estimated 6 to 6.75 billion gallons of treated drinking water every day—more than 2.1 trillion gallons annually. This is not only a significant waste of a critical natural resource, but also a substantial financial burden, costing utilities more than \$6.4 billion each year in lost revenue from water that is treated but never delivered to customers. These figures demonstrate a growing national crisis that threatens the reliability, efficiency, and financial sustainability of essential water services.^{viiviii}

The Fiber Boom

Demand for fiber-optic connectivity is intensifying pressure on underground infrastructure, driven by cloud computing, 5G densification, and the rapid expansion of AI data centers. These data centers consume electricity at a staggering rate, and the fiber and power networks needed to support them are being built just as fast.

The massive nationwide expansion of high-speed broadband has increased trenching and boring activity in crowded, poorly mapped underground easements, raising the risk of accidental strikes on water mains, gas pipes, and electrical lines. Data compiled by the Common Ground Alliance indicate that telecommunications and fiber-broadband installations account for nearly 25 percent of all underground utility damage incidents, making this one of the highest-risk construction activities.^{ix}

A Shrinking Skilled Workforce

Labor availability is one of the strongest catalysts for change. In their 2025 Workforce Survey, the Associated General Contractors of America and NCCER found that 92% of construction firms that were hiring had difficulty finding qualified workers, and 45% said labor shortages were delaying projects. Technology will not solve every workforce challenge, but digital tools help existing teams do more with less, improving field productivity, reducing errors, cutting repeat site visits, and putting accurate data in front of crews at the point of work.^x

New Regulatory Requirements

Regulators are raising the value of precise, auditable location data. The Pipeline and Hazardous Materials Safety Administration's (PHMSA) National Pipeline Mapping System requires covered operators to submit and update geospatial and attribute data describing the location and characteristics of their pipeline assets. Federal pipeline-integrity rules also require operators to analyze spatial relationships among nearby infrastructure, crossings, and encroachments that can increase risk, meaning a pipeline can no longer be evaluated in isolation from what surrounds it.

Technology Has Become More Accessible

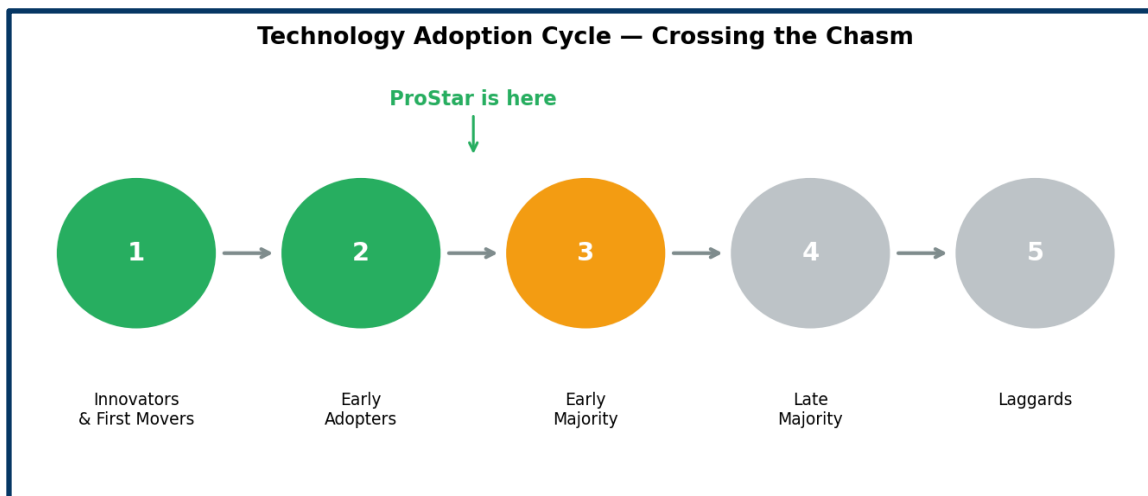
Capabilities that once required specialized survey crews, expensive equipment, and complex data processing are becoming more accessible as new providers enter the market, and tools become easier to use. Lower costs, simpler deployment, and better interoperability reduce the challenges associated to change and that impact the adoption cycle: as technology becomes easier to buy, use, and integrate, the industry is more receptive to change.

A Generational Workforce Transition

As experienced workers retire, decades of institutional knowledge are leaving the field just as a younger, more digitally fluent workforce arrives. Those workers expect information to be digital, mobile, reliable, and available in real-time, and they readily adopt mobile apps, cloud platforms, and connected devices in daily work. As the workforce grows younger and more technology-driven, the barriers that long slowed technology adoption across the infrastructure industry are beginning to ease.

The First Mover Phase

ProStar was first to market with a precision digital mapping solution and, as such, has faced several standard hurdles. These included completing the early development required, identifying first movers, refining the product, proving measurable return on investment, and continuing to build a referenceable customer base to give the next wave of early adopters confidence in ProStar's PointMan solution. This is the standard adoption cycle for disruptive technologies.



Based on Everett Rogers' Diffusion of Innovations and Geoffrey Moore's Crossing the Chasm

The standard technology adoption cycle was first described by Everett Rogers's Diffusion of Innovations model and later expanded by Geoffrey Moore in his book Crossing the Chasm. It begins with an innovation. If that innovation shows promise, the next step is identifying a small group of first movers willing to test an unproven product. Once it has been proven to provide value, the next phase is early adopters also seeking an operational advantage. If the technology survives the difficult transition Moore calls "crossing the chasm," adoption begins to spread from early adopters to the early majority to the mainstream market.

The challenge for any disruptive technology is that during this adoption cycle, the growth curve can be slow and even appear stagnant, even as customer references, partnerships, and deployments continue to grow. We believe we have now successfully navigated the most difficult phase in the adoption cycle and that we have successfully transitioned from proving that the PointMan solution provides measurable value to a broader phase of adoption with a growing number of enterprise clients and our expanding partnership ecosystem.

PointMan's Adoption by Industry Leaders

PointMan is no longer a novel concept in search of a market, it is currently utilized in the field by a growing number of customers around the world. Some of the most recognized names in the construction, maintenance and management of critical infrastructure rely on our solution every day to improve efficiency, reduce costs and address safety concerns.

Today, our client base includes some of the largest and most recognized construction companies, engineering & surveying firms, utility locating service providers and government agencies throughout the critical infrastructure industry. Companies such as Kiewit, Whiting-Turner, Garney, KCI, T2, Penhall, Groundbreakers, Kokosing, HKS, Kraemer and large government agencies that include CDOT and ODOT comprise a growing list of early adopters helping to reshape the industry and drive broader adoption.



ProStar's LinQD open API Platform

LinQD™ is an open API data exchange platform that was developed to integrate fragmented legacy systems and emerging technologies into a single unified PointMan ecosystem. To better support the integration of our strategic partners' products and services, we developed LinQD, a next-generation, open API integration platform, designed to connect our partners' technologies into a seamless and centralized operating system.

The LinQD ecosystem's value is that it lowers the barrier to adoption and creates a seamless solution that combines legacy systems with emerging technologies. That means that our customers do not have to abandon the existing equipment and legacy systems they already depend on. PointMan's vendor-neutral architecture captures, standardizes, visualizes, manages, and shares information from other existing solutions in one connected workflow, so new tools and technologies work alongside legacy systems rather than forcing a costly reinvestment.

Our Strategic Partnership Ecosystem

A growing number of the leading hardware and service providers have strategically partnered with ProStar to significantly enhance their core offerings and deliver greater value to their customers. Our expanding ecosystem of partners highlights PointMan's critical role in modernizing operational workflows across the entire industry. Together, these alliances provide access to expansive distribution networks and further accelerate adoption.



ProStar has strategic partnerships and integrated PointMan with the leading hardware manufacturers of utility locating equipment and Global Navigation Satellite Systems (GNSS).



ProStar partnerships include integration with the leading providers of RTK corrections services providing PointMan with global correction services.



PointMan is seamlessly integrated into the leading Systems of Record.



ProStar formed a strategic alliance with Carahsoft Technology Corp., the largest government partner, distributor, and master government aggregator. Being an approved Carahsoft vendor provides ProStar has access to procurement channels serving the public sector across all 50 states, Puerto Rico, and the District of Columbia.

ProStar's Growth Strategy

After more than a decade of development, market education, product validation, and first-mover deployments, we believe ProStar and the infrastructure industry have reached a pivotal inflection point. The economic, regulatory, workforce, and technology forces outlined throughout this paper are accelerating the industry's transition away from paper records, temporary markings, fragmented legacy systems, and institutional knowledge toward precise, connected, real-time digital infrastructure data. At the same time, advances in mobile, cloud, GNSS, RTK, AI, augmented reality, and data integration have made technologies that were once complex and expensive increasingly practical for everyday field operations.

We believe this transition represents a significant opportunity for ProStar. PointMan has moved beyond the product-validation stage and is now deployed across the major sectors responsible for constructing, locating, managing, and maintaining critical infrastructure, including Fortune 500 companies, leading construction and engineering firms, utilities, municipalities, and state Departments of Transportation. These deployments provide the demonstrated use cases and customer validation necessary to support the Company's progression from first-mover adoption toward the broader mainstream market.

ProStar's strategic partnership ecosystem provides an additional path to scale. By integrating PointMan with leading utility-locating equipment, GNSS and RTK technologies, and emerging capabilities such as AI and augmented reality, and using LinQD to connect these technologies and existing systems, ProStar can extend the functionality and reach of its platform while leveraging established distribution channels, dealer networks, and customer relationships.

The Company's focus is now on growth and execution. Our strategy is centered on expanding deployments within existing enterprise customers, acquiring new customers across the broader market, using strategic partnerships and distribution channels to accelerate adoption in the U.S. and internationally, and continuing to establish PointMan and LinQD as foundational technologies for digital infrastructure management, globally.



Leadership Aligned with the Growth Strategy

ProStar's progression from technology development and early adoption toward broader commercial scale also requires leadership aligned with this next stage of the Company's evolution. The appointment of Michael Wolff as CEO reflects that transition.

Wolff's background spans several areas central to ProStar's strategy, including underground utilities, critical infrastructure, geospatial technology, software, hardware integration, product management, and international markets. As the former leader of Digital Solutions at Radiodetection, Wolff was responsible for data- and software-driven products serving many of the same infrastructure markets ProStar is targeting.

His experience is particularly relevant as ProStar shifts its emphasis toward disciplined commercial execution. Having established its core technology, intellectual property, enterprise deployments, and integrated technology ecosystem, the Company's next objective is to build a repeatable commercial model capable of supporting broader customer adoption and recurring revenue growth. Wolff's experience connecting software strategy, hardware platforms, distribution channels, and infrastructure markets is closely aligned with those priorities.

This next stage will require ProStar to strengthen the sales, distribution, customer-success, and partnership capabilities needed to replicate successful deployments across a substantially larger customer base. It will also require closer integration of PointMan into the workflows and technology ecosystems used by equipment manufacturers, utility locators, engineering firms, construction companies, utilities, and government agencies. Wolff's experience in product strategy, operational modernization, and international markets is well suited to ProStar's objective of expanding its commercial reach and advancing its long-term goal of establishing its technology as a global standard for critical infrastructure mapping and management.

Core Growth Priorities

- Expand deployments within existing enterprise customers (land-and-expand).
- Acquire new customers across construction, utilities, engineering, surveying, and locating sectors.
- Increase adoption among government agencies, supported by the Carahsoft partnership.
- Leverage OEM integrations, strategic partnerships, and distribution channels to accelerate growth in the U.S. and internationally.
- Continue establishing PointMan and LinQD as foundational technologies for digital infrastructure management.

We believe ProStar has reached the stage it has been building toward: moving from innovation, validation, and first-mover adoption into a new phase focused on broader market adoption, commercial execution, and scale.

About ProStar

ProStar Geocorp is a leading provider of geospatial intelligence technologies, with a mission to become the global standard for mapping and managing critical infrastructure. The Company delivers a Software-as-a-Service (SaaS) solution and an enterprise integration platform that transform how critical infrastructure assets are identified, managed, and maintained worldwide.

Its flagship products, PointMan and LinQD, make infrastructure mapping and management more accurate, accessible, and connected than ever. PointMan is a powerful cloud and mobile precision-mapping solution, while LinQD seamlessly integrates both emerging technologies and legacy systems into a single, unified platform. By streamlining the management of critical infrastructure, ProStar's solutions reduce risk, improve efficiency, and support regulatory compliance in complex, high-stakes environments.

The Company's growing global customer base includes Fortune 500 corporations, leading construction and engineering firms, utilities, municipalities, and multiple state Departments of Transportation. Strategic alliances with global technology leaders further extend its competitive advantage and accelerate adoption.

ProStar also holds an extensive intellectual property portfolio, with 13 issued patents in the United States and Canada, securing its leadership in precision-mapping technologies.^{xi}

Headquartered in Grand Junction, Colorado, ProStar is committed to building a safer, smarter, and more resilient infrastructure future worldwide.

For more information about ProStar, please visit www.prostarcorp.com.

For further information, please contact:

Page Tucker • Founder and Director

970-242-4024

ptucker@prostarcorp.com

Cautionary Statements Regarding Forward-Looking Information

Neither the TSXV nor its Regulation Services Provider (as that term is defined in the policies of the TSXV) accepts responsibility for the adequacy or accuracy of this document.

This document contains forward-looking information within the meaning of Canadian securities laws, including, without limitation, statements regarding the Company's growth strategy, anticipated adoption trends, leadership transition, and expectations regarding future revenue and operating cash flow. Although the Company believes such information is reasonable, it can give no assurance that these expectations will prove to be correct.

Forward-looking information is typically identified by words such as "believe," "expect," "anticipate," "intend," "estimate," "postulate," and similar expressions, or statements that refer to future events. Readers are cautioned that any forward-looking information provided by the Company is not a guarantee of future results or performance, and that actual results may differ materially from those anticipated as a result of various factors, including, but not limited to: the state of the financial markets for the Company's securities; the state of the technology sector; recent market volatility; the Company's ability to raise necessary capital or to fully implement its business strategies; and other risks and factors the Company is unaware of at this time. Readers are referred to the Company's most recent Annual Management's Discussion and Analysis, filed on SEDAR+ on April 24, 2026, for a more complete discussion of applicable risk factors, copies of which may be accessed through the Company's issuer page on SEDAR+ at www.sedarplus.ca.

This document was prepared for investor education purposes and reflects the Company's good-faith understanding of third-party data as of August 2026. Figures drawn from third-party sources should be independently verified against the original publication before external distribution.

Endnotes

ⁱ McKinsey & Company, "Delivering on construction productivity is no longer optional," Aug. 9, 2024, <https://www.mckinsey.com/capabilities/operations/our-insights/delivering-on-construction-productivity-is-no-longer-optional>. McKinsey reports \$13 trillion of global gross construction output in 2023 and says the industry could grow by about 70% by 2040. See also McKinsey & Company, "Construction's digital revolution," June 8, 2023, <https://www.mckinsey.com/featured-insights/charts/constructions-digital-revolution>, which describes architecture, engineering, and construction as historically among the slowest industries to digitize and innovate. Accessed Sept. 1, 2026.

ⁱⁱ Association of Equipment Manufacturers and Common Ground Alliance, "AEM and CGA Partner to Expand 811 Safety Messaging Across New Equipment Sold in the U.S.," Aug. 2026, <https://www.aem.org/news/aem-and-cga-partner-to-expand-811-safety-messaging-across-new-equipment-sold-in-the-us>, reports an estimated 213,985 U.S. damages in 2025. Common Ground Alliance, 2024 DIRT Report, <https://dirt.commongroundalliance.com/Portals/9/Common-Ground-Alliance-DIRT-Report-2024.pdf>, reports 189,052 unique U.S. damages and 7,925 Canadian damages in 2024, for 196,977 combined. On a like-for-like U.S.-only basis, 213,985 versus 189,052 is an increase of approximately 13.2%, not 12.6%. Source required for the stated 12.6% year-over-year comparison as written because it compares the 2025 U.S.-only figure with the 2024 U.S.-plus-Canada total. Accessed Sept. 1, 2026.

ⁱⁱⁱ Common Ground Alliance, "Between the Lines: The True Cost of Damage to America's Buried Utilities," released Aug. 13, 2026, <https://commongroundalliance.com/Publications-Media/Economic-Impact-Report>. CGA estimates the annual U.S. economic impact of underground utility damage at \$83.2 billion. The CGA release is also distributed at <https://www.einpresswire.com/article/933922254/new-report-underground-utility-damage-costs-america-83-2-billion-a-year-nearly-triple-previous-estimate>. Accessed Sept. 1, 2026.

^{iv} The American Water Works Association states that most buried U.S. water infrastructure was built 50 or more years ago and that some urban water mains are a century or more old: <https://www.awwa.org/resource/water-main-rehabilitation/>. The Alliance for Innovation and Infrastructure documents substantial unmapped, undocumented, private, and abandoned underground facilities, but does not establish that a majority of all underground infrastructure was never properly mapped: <https://www.aai.org/measuring-the-underground/>. Accessed Sept. 1, 2026.

^v National 811 system was formalized in the late 1970s after a series of fatal pipeline strikes. PHMSA states that 811 was designated as the national one-call number in 2005: "PHMSA Recognizes April as National Safe Digging Month," Apr. 12, 2022, <https://www.phmsa.dot.gov/news/phmsa-recognizes-april-national-safe-digging-month-0>. PHMSA materials also describe the national 811 number as coming into use in 2007. Accessed Sept. 1, 2026.

^{vi} National Conference of State Legislatures, "How States Protect Pipelines from Excavation Damage," <https://www.ncsl.org/energy/how-states-protect-pipelines-from-excavation-damage>. NCSL states that every state establishes a tolerance zone and that it generally consists of the width of the marked underground facility plus an additional 18 to 24 inches on either side, with some states using larger zones. NCSL describes the tolerance zone as an excavation-safety buffer; it does not define the zone itself as a measurement of geospatial accuracy or as a guarantee regarding utility depth. Accessed Sept. 1, 2026.

^{vii} American Society of Civil Engineers, "Policy Statement 299 - Principles of Infrastructure Investment," <https://www.asce.org/advocacy/policy-statements/ps299---principles-of-infrastructure-investment>. ASCE states that the 2025 Report Card estimates \$9.1 trillion in total investment needs for all 18 categories to reach a state of good repair, with \$5.4 trillion in projected public and private investment from 2024 through 2033, leaving a \$3.7 trillion gap. Source required for the separate statement that a majority of U.S. water and sewer systems were installed 60 to 100 years ago. The American Water Works Association states that most buried U.S. water infrastructure was built 50 or more years ago and that some urban water mains are a century or more old: <https://www.awwa.org/resource/water-main-rehabilitation/>. Accessed Sept. 1, 2026.

^{viii} American Society of Civil Engineers, "Imagine a Day Without Water," <https://infrastructurereportcard.org/imagine-a-day-without-water/>, reports approximately 6 billion gallons of treated water lost daily in the United States. Bluefield Research, "Water Losses Cost U.S. Utilities US\$6.4 Billion

Annually," Apr. 28, 2025, <https://www.bluefieldresearch.com/ns/water-losses-cost-u-s-utilities-us6-4-billion-annually/>, reports approximately 6.75 billion gallons of treated drinking water lost daily and more than \$6.4 billion in uncaptured annual utility revenue. Six billion gallons per day equals about 2.19 trillion gallons annually, supporting the "more than 2.1 trillion gallons annually" statement. Accessed Sept. 1, 2026.

^{ix} Common Ground Alliance, 2024 DIRT Report, "Work Performed: All Damages," p. 14, <https://dirt.commongroundalliance.com/Portals/9/Common-Ground-Alliance-DIRT-Report-2024.pdf>. CGA reports Telecom/CATV as 23% of the "work performed" category across reported 2024 damage events. The source category is "Telecom/CATV"; it is not labeled specifically as "fiber-broadband installations." Accessed Sept. 1, 2026.

^x Associated General Contractors of America and NCCER, "Construction Workforce Shortages Are Leading Cause of Project Delays as Immigration Enforcement Affects Nearly 1/3 of Firms," Aug. 28, 2025, <https://www.agc.org/news/2025/08/28/construction-workforce-shortages-are-leading-cause-project-delays-immigration-enforcement-affects>. The 2025 nationwide survey reports that 92% of construction firms that were hiring had difficulty filling open positions and 45% reported project delays due to worker shortages. See also NCCER, "AGC/NCCER 2025 Craft Workforce Survey," <https://www.nccer.org/research/2025-workforce-survey-agc-nccer/>. Accessed Sept. 1, 2026.