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Canadian Drone Technology to Revolutionize Airspace, Healthcare, and Infrastructure: Variable Pitch Inc. Chosen to Innovate Change

TORONTO, ON—Drones are no longer just a futuristic concept—they are actively transforming how we deliver life-saving medical supplies, inspect critical infrastructure, and manage the air traffic for remotely piloted, unmanned aircraft systems.

With groundbreaking technology that makes drone operations safer and more efficient, Transport Canada and NAV CANADA have selected Canada’s Variable Pitch Inc. and its consortium to participate in Phase 2 of the Remotely Piloted Aircraft Systems (RPAS) Traffic Management trials.

“As advancements in drone technology continue to redefine aviation, air traffic management must also evolve for the safe and successful integration of RPAS into Canadian airspace,” said Ryan Coates, Executive Director of the RPAS Task Force at Transport Canada.

This innovative project unlocks immediate, real-world applications poised to revolutionize healthcare logistics and infrastructure maintenance while laying the foundation for the safe and scalable use of drones in Canada’s airspace.

“The second phase of trials will offer crucial experiential learning for the development of the Canadian RPAS Traffic Management system, enhancing the safe integration of Remotely Piloted Aircraft Systems,” said Alan Chapman, co-chair of the Trials Executive Steering Committee (TESC) and Director of RPAS Traffic Management at NAV CANADA. “Integrating third-party services and capabilities with NAV CANADA’s centralized services will ensure airspace safety while collaboratively advancing new use cases, including those that require Beyond Visual Line of Sight (BVLOS) operations.”

Changing the Skies: A New Era in Airspace Management

As the number of drones in our skies increases, managing air traffic safely and efficiently becomes more challenging. Traditional systems were built for piloted aircraft, but drones fly farther, faster, and navigate through complex airspace like densely populated cities, remote communities, and hard-to-reach infrastructure. Variable Pitch Inc. is leading a consortium focused on developing advanced systems to safely integrate drones into existing airspace, enabling them to operate seamlessly alongside planes and helicopters.

These new solutions will allow drones to avoid collisions and navigate complex environments using advanced radar, real-time weather data, and AI-driven traffic control. This technology will unlock the full potential of 'Beyond Visual Line of Sight' (BVLOS) drone operations, allowing longer, more sophisticated missions. It marks a turning point for industries like logistics and surveillance that rely on drones for their efficiency and speed.

Transforming Healthcare: Faster, Smarter, Safer Deliveries

In healthcare, drones can save lives by delivering essential supplies to remote or hard-to-reach areas. In emergencies, drones with medical supplies, including blood, vaccines, and medications, can bypass roadblocks, providing urgently needed items faster than ground transportation. This technology is especially critical in rural regions or during natural disasters when traditional logistics are disrupted.

“Drones can bridge the gap between urban healthcare centres and remote communities,” said Richard Brown, Chief Operating Officer of Variable Pitch Inc. “The potential to deliver life-saving treatments within minutes can dramatically change outcomes in emergencies.”

Drones will revolutionize access to critical healthcare supplies by dramatically reducing delivery times and enhancing efficiency. They will modernize healthcare logistics and extend the reach of medical services, transforming healthcare delivery across Canada and worldwide.

Revolutionizing Infrastructure: Immediate, Safer Inspections

Drones are also set to transform how we inspect and maintain critical infrastructure like bridges, power lines, and railways. Traditionally, these inspections require manual labour, often involving high costs and risks to human safety. With drones, inspections can be conducted more quickly, accurately, and without endangering workers.

Drones with high-resolution cameras and sensors can access hard-to-reach locations, gather real-time data, and detect potential issues like cracks or corrosion before they become serious problems. This proactive approach ensures safer, more reliable infrastructure while reducing long-term maintenance costs.

“By speeding up inspections and improving accuracy, drone technology will help prevent costly repairs and improve the safety of our roads, bridges, and energy grids,” added Brown.

A Game-Changing Opportunity for Investors

This technology represents a multi-billion-dollar opportunity for investors. As drone use expands and governments seek safer, more efficient ways to manage air traffic, Variable Pitch Inc. and its partners are positioned to lead this emerging market. With applications across

industries from healthcare to logistics to infrastructure, the impact of this innovation will be felt worldwide.

The Ontario-based trials will demonstrate these real-world applications, including medical supply deliveries and infrastructure inspections. Variable Pitch Inc. is supported by a consortium of leading companies, including High Lander Aviation (Israel), Accipiter Radar (Canada), TruWeather (USA), InDro Robotics (Canada), Dimetor (Austria), Speedbird.Aero (Brazil), and Viasat Inc.(USA). Together, they are developing a comprehensive system that will shape the innovative potential of drone operations.

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About Variable Pitch Inc.

Variable Pitch Inc. is a leader in advanced drone technology and air traffic management systems. In partnership with industry leaders, Variable Pitch Inc. is pioneering the future of safe, efficient, and scalable drone operations across Canada and beyond.

About the Viable Pitch Inc. Consortium

Highlander: Highlander’s Vega UTM is a leading unmanned traffic management platform providing autonomous RPAS traffic management. Proven in the field and compliant with international regulatory standards, Vega UTM plays a key role in airspace safety by supplementing air traffic management systems and enabling airspace authorities and commercial operators to manage RPAS at all scales and in the most complex airspaces.

Accipiter Radar Technologies: A global leader in radar surveillance solutions, Accipiter provides advanced radar systems to enhance air traffic safety, including detecting and tracking low-level airborne objects. Their expertise supports real-time awareness and safety in suburban and high-density areas.

Viasat Inc: a global communications company that offers high-speed satellite and wireless connectivity solutions. Its technologies ensure continuous communication, command, and

control for RPAS operations, enabling secure, reliable, and uninterrupted RPAS operations in remote and suburban areas.

[TruWeather Solutions](#) : Specializing in micro-weather forecasting, TruWeather provides highly accurate and real-time weather data to ensure RPAS operations can navigate safely in varying environmental conditions. Their technology is critical for mitigating weather-related risks and enhancing operational efficiency.

[Dimetor](#): Analytics, data, and service platform that enables drone operations beyond visual line of sight (BVLOS) in mobile networks. It is a High-performance computing solution connecting the aviation and telecommunication industries.

[Speedbird Aero](#) : Founded in Brazil, with offices in Portugal and the United States, Speedbird is a global leader in uncrewed aerial logistics solutions. Speedbird designs, manufactures, and operates an advanced platform for safe, efficient, and sustainable air cargo transportation, supporting clients and partners across diverse industries worldwide.

[InDro Robotics](#): A leading Canadian robotics and drone technology company, InDro Robotics specializes in creating innovative RPAS solutions for industrial, governmental, and commercial sectors. Their work beyond visual line-of-sight (BVLOS) operations and logistics ensures reliable and safe drone deployments.