

Plymouth Rock Technologies to Deploy First Commercially Available 5G Drone

Plymouth, Massachusetts--(Newsfile Corp. - June 18, 2020) - **Plymouth Rock Technologies Inc. (CSE: PRT) (OTCQB: PLRTF) (FSE: 4XA (WKN# A2N8RH) ("Plymouth Rock", "PRT", or the "Company")** a leader in the development of cutting-edge threat detection technologies, is pleased to announce that its X1 platform will begin initial production with integrated 5G command and control modules as standard. Airbus Industries first showcased the 5G UAS technology in 2019 as a proof of concept.

In many tests, cellular networks have proven to be capable of serving drones in the low-altitude airspace, a perfect fit since drones fly rather low and cell coverage above buildings and trees is exceptionally good. With most of the ground clutter below, performance over 4G and 5G delivers an effective and efficient connectivity for drones while maintaining the performance of mobile devices on the ground.

The three major methods for connecting drones by means of 5G cellular data are Unmanned Aircraft Systems Traffic Management (UTM), Beyond Visual Line of Sight (BVLOS) flights, and Sensor Data Transmission (SDTX).

UTM, the system under definition by the FAA in unison with the European U-Space, will deliver a globally standardized technology, allowing these cellular networks to be integrated with drone traffic management systems to enhance the safety and security of commercial drone operations. Current global regulations are usually restricted to low-altitude operations (below 120m or 400ft) and within the visual line of sight of a human pilot who is in permanent control of the drone. With BVLOS, drone applications are capable of flying beyond the visual line of sight or when it flies autonomously, and still be in direct control of the pilot. SDTX is a critical application and is important when data is transmitted to ground stations beyond the remote-control station of the pilot. This could be either live broadcasting of the drone's camera or saving time for data processing. Since it is often a large amount of data and AI processing, a data connection with a large bandwidth is required, which will be 5G-network coverage.

"Our mission centric focus on the X1 system has been evident in the capability and performance metrics demonstrated already," stated Carl Cagliarini, Chief Strategy Officer of PRT. "Almost all non-military drone remote control systems are based on radio connections similar to Wi-Fi frequencies with a limited range, usually under 2-3 miles. The X1 has both short-range capabilities, along with an optional military-grade system that enables BVLOS up to 60 miles. The addition of operational 5G capabilities using cellular networks will deliver command and control connections over unlimited distances provided that the drone has cellular network coverage around it. This also enables the X1 to be controlled, deliver and receive information in real time from and to anywhere in the world.

"The key advantage is that this addition elevates the operational capability of the PRT unmanned aviation platform as an unrivalled place holder for the state of the art in the UAS industry. Further, the addition of 5G adds another layer of safety, should a pilot utilizing the X1 become incapacitated or the manual control device be damaged," added Dana Wheeler, President & CEO of PRT.

About Plymouth Rock Technologies Inc.

We are on a mission to bring engineering-driven answers to the most critical problems that threaten our safety. We work with government, law enforcement and military to innovate solutions for national security, defense and space systems.

The Company is developing the next generation of threat detection solutions, The PRT X1 is a purpose built multirotor Unmanned Aircraft System (UAS). The unit contains an integrated sensor package that combines Thermal detection with 4K HD real-time air-to-ground streaming. Our advanced threat detection methods fuse artificial intelligence with augmented reality interfaces to eliminate human operating error. Plymouth Rock products, both airborne and land-based, will scan for threat items at greater "stand-off" distances than current existing technologies. Our unique radar imaging and signal processing technology creates new opportunities for remotely operated, none intrusive screening of crowds in real time.

Plymouth Rock's other core technologies include: (1) A Millimeter Remote Imaging from Airborne Drone ("**MIRIAD**"); (2) A compact microwave radar system for scanning shoe's ("**Shoe-Scanner**").

www.plyrotech.com

ON BEHALF OF THE BOARD OF DIRECTORS

Dana Wheeler
President and CEO
+1-603-300-7933

info@plyrotech.com

Investor Information:
Tasso Baras
+1-778-477-6990

Forward Looking Statements

Certain information set forth in this news release may contain forward-looking statements that involve substantial known and unknown risks and uncertainties. All statements other than statements of historical fact are forward-looking statements, including, without limitation, statements regarding future financial position, business strategy, use of proceeds, corporate vision, proposed acquisitions, partnerships, joint-ventures and strategic alliances and co-operations, budgets, cost and plans and objectives of or involving the Company. Such forward looking information reflects management's current beliefs and is based on information currently available to management. Often, but not always, forward-looking statements can be identified by the use of words such as "plans", "expects", "is expected", "budget", "scheduled", "estimates", "forecasts", "predicts", "intends", "targets", "aims", "anticipates" or "believes" or variations (including negative variations) of such words and phrases or may be identified by statements to the effect that certain actions "may", "could", "should", "would", "might" or "will" be taken, occur or be achieved. A number of known and unknown risks, uncertainties and other factors may cause the actual results or performance to materially differ from any future results or performance expressed or implied by the forward-looking information. These forward - looking statements are subject to numerous risks and uncertainties, certain of which are beyond the control of the Company including, but not limited to, the impact of general economic conditions, industry conditions and dependence upon regulatory approvals. Readers are cautioned that the assumptions used in the preparation of such information, although considered reasonable at the time of preparation, may prove to be imprecise and, as such, undue reliance should not be placed on forward-looking statements. The Company does not assume any obligation to update or revise its forward-looking statements, whether as a result of new information, future events, or otherwise, except as required by securities laws.



To view the source version of this press release, please visit <https://www.newsfilecorp.com/release/58116>