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Drone Pioneer Soars to the Next Level with Agricultural Big Data Initiative

Vancouver, B.C. – InDro Robotics Inc, a global leader in drone technology is partnering with Semios, a leading precision farming platform, in an expanded project to help growers increase crop yields while reducing water and chemical usage. Semios has received $9.9 Million in additional funding from Sustainable Development Technology Canada (SDTC) to support the second phase of the Semios-InDro project allowing for wider data integration and more sophisticated analytics.

The backbone of the project is Semios' proprietary, wireless IoT network of in-canopy sensors, machine learning algorithms, and big data analytics. With this network, Semios captures and analyzes microclimate data to help growers make data-driven decisions on pest, disease, frost, and irrigation events in real-time.

"As our chosen Unmanned Aerial Vehicle (UAV) partner, InDro will gather aerial data from multiple sensors mounted on drones flying over the farm sites", says Semios Director, Strategic Partnerships, Tess Trethewey. "That data is combined with Semios' in-canopy sensor data and fed through our algorithms to assist in the early identification of disease and stress modeling".

"Drones excel at collecting high resolution data across a wide spectrum of bands, and allow timing control that other aerial methods simply can't match" says InDro Robotics Inc. Founder, CEO, and President, Philip Reece. "To be effective at scale in agriculture, UAVs also have to be able to cover large parcels of land, without specialist pilots, that's our strength. By using pre-planned missions controlled from remote command centres, InDro is able to bring remote and autonomous complex flights to the forefront of agriculture.

About InDro

InDro Robotics provides a full-range of unmanned aerial, water and land services as well as a range of mission specific sensor packages to address the unique needs of the world's most complex issues. Our team consists of seasoned drone and manned aviation pilots, Ph.D.'s in remote sensing, GIS/IT professionals, engineers, and other specialists all versed in effective unmanned services who work with a network of partners to compliment our in-house skill set. Our Mission is to expand the responsible use of UAV technology into a new and viable sector, working with clients to identify and deliver, best-in-class service, products and training. For more information, see our website at indrorobotics.ca. For images and videos, and to arrange interviews, please, contact: media@indrorobotics.com.

About Semios

Semios offers a precision farming platform that provides real-time crop data and pest management tools for tree fruit and nut growers. Leveraging a proprietary, in-orchard IoT wireless network, machine learning, and big data analytics, Semios helps growers manage insect pests, disease, frost and irrigation. The Semios analytics engine draws on multiple sources of data and information including a robust, wireless network of in-canopy IoT sensors on every customer farm measuring climate, soil moisture and insect and disease pest activity. For more information or an interview with Semios CEO, Dr. Michael Gilbert, please contact Laura Ehman: lehman@semios.com or 604-229-2044.

About Sustainable Development Technology Canada

Sustainable Development Technology Canada (SDTC) is a foundation created by the Government of Canada to advance clean technology innovation in Canada by funding and supporting small and medium-sized enterprises developing and demonstrating clean technology solutions.