

8 May 2018

**Roots to debut two industry-leading innovations at *Agri-Tech Israel 2018* -
one of the key international agriculture conference and exhibitions**

- ***Agri-Tech Israel 2018, 8-10 May, is the key international conference and exhibition for the agricultural technology and food processing industries***
- **Roots will unveil:**
 - **a world-first Irrigation by Condensation (IBC) off-grid system to produce food crops using irrigation sourced only from humidity in the air and energy from the sun or wind;**
 - **an advanced hydroponic nutrient-temperature controlled self-assembly greenhouse using root zone temperature optimisation (RZTO) technology, created in partnership with Teshuva Agricultural Projects (TAP) that is already receiving great feedback about produce quality and shortened growing cycles from farmers using the research and development site.**
- **High level of interest from international delegates in the company's IBC and IBC off grid systems and RZTO technology.**

Roots Sustainable Agricultural Technologies Limited (ASX: ROO, Roots or Company) will showcase a world-first innovative agricultural solution that has the capability of dramatically assisting the world's smallholding farmers at *Agri-Tech Israel 2018*, one of the leading international agri-tech exhibitions, in Tel Aviv this week.

Now in its 20th year, *Agri-Tech Israel 2018* will focus on agriculture in arid and semi-arid regions, providing the ideal opportunity for Roots to unveil its world-first Irrigation by Condensation (IBC) off-grid technology. Designed to enable the production of food crops in remote semi-arid areas with no access to grid electricity or irrigated water, Roots has successfully demonstrated its ability to sustain the full growth cycle of high protein crops using irrigation sourced only from humidity in the air and will show it to industry for the first time.

Roots will also showcase for the first time the hydroponic nutrient-temperature controlled greenhouse, developed in conjunction with TAP. This modular greenhouse utilises Roots' patented RZTO technology and allows farmers to assemble the product themselves. Using hydroponic nutrient film techniques (NFT) where water containing dissolved nutrients is used for crop growth and re-circulated past bare plant roots, it delivers higher yields, significantly lower operating costs, more efficient production facilities and increased profitability to farmers.

The research development site for the TAP hydroponic nutrient-temperature controlled greenhouse has already received high praise from farmers testing the installation over the last four weeks. Growing cycles of the leafy greens tested were shortened by 20 per cent.

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Under normal operating conditions this would allow a farmer to plant and harvest additional growing cycles year-round and produce higher income. In addition, test farmers reported excellent produce quality, even with higher than normal temperatures in the region over the last few weeks.

Dr. Sharon Devir, Roots CEO and co-founder said, "Roots is excited to participate in one of the world's most prominent agricultural conferences. The world needs this new type of thinking to address environmental challenges brought on by ecosystem degradation and pollution, reduced access to water, more severe weather conditions and higher energy prices. *Agri-Tech Israel 2018* is the perfect forum for us to show industry leaders the ways we are looking to improve production efficiency and increase yields to optimise use of arable land for the world's famers."

"We also look forward to updating the world's agriculture and agri-tech leaders about everything Roots has accomplished since the 2017 event. In addition to building the team to keep developing the IBC and RZTO product innovation we're showcasing this year, we listed on the Australian Stock Exchange in December 2017, raising AU\$5 million. We established pilot and demo systems in Spain, Australia and Israel and already have sales in Israel and China.

"We signed distribution agreements in China with Dagan, conditional on \$US19 million in sales on the basis of the agreement continuing for five years, and Australia with Adam Water Solutions Technology.

"And we've continued our proof of concept research on young apricot trees in Australia, mature avocado trees in Israel, basil in both countries, as well as a host of other high-value crops in Spain.

"With international delegates already expressing interest in our cutting-edge technology IBC and RZTO technology, we are confident that this exhibition will provide additional commercial opportunities for the company."

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About Roots Sustainable Agricultural Technologies Ltd:

Israeli-based, Roots Sustainable Agricultural Technologies Ltd. is developing and commercialising disruptive, modular, cutting-edge technologies to address critical problems being faced by agriculture today, including plant climate management and the shortage of water for irrigation.

Roots has developed proprietary know-how and patents to optimise performance, lower installation costs, and reduce energy consumption to bring maximum benefit to farmers through their two-in-one root zone heating and cooling technology and off the grid irrigation by condensation technology.

Roots is a graduate company of the Office of the Israeli Chief Scientist Technological Incubator program.

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