

29 September 2022

## Roots significantly advances major UAE installation

### Highlights:

- **All Heat Exchange Probe (HEP) Systems successfully shipped to EliteAgro’s Coffee House Murmum Project – installation at project now underway**
- **HEPs now being installed across 1.6 hectare greenhouse and will be used on 9000 coffee plants**
- **Completion anticipated in coming weeks with project to highlight how Roots technology can mitigate against rapidly increasing temperatures to mitigate climate change**
- **Roots technology has a major opportunity to mitigate the growing risk associated with climate change of coffee production**
- **Recent studies have shown that climate change has the risk of reducing global Arabica coffee production by 42% and worldwide Robusta production by 23.5%<sup>i</sup>**
- **Ongoing global expansion initiatives progressing well – additional updates pending**

**Roots Sustainable Agricultural Technologies Limited (ASX: ROO, “Roots” or “the Company”)** is pleased to provide shareholders with the following update on activities in the United Arab Emirates (UAE).

Roots advises that it has rapidly advanced the installation and supply of Heat Exchange Probes (HEPS) as part of its recent sales agreement with EliteArgo (refer ASX announcement: 16 August 2022), which is valued at US\$105,000 (~A\$151,530).

EliteAgro is a leading agricultural company headquartered in the UAE, with operations in several regional jurisdictions. Roots has been engaged by the group to facilitate, supply and install the HEPS as part of a root-zone cooling solution for EliteAgro’s Coffee House Murmum Project.

The Company has successfully shipped all parts and systems from Israel to the UAE and commenced installing two HEPS per plant across the 1.6 hectare, 9000 plant greenhouse. The systems will assist in maintaining root zone area temperatures in a favourable range, which is significantly lower than the average air temperature in the region.

Roots expects to finalise the installation in the coming weeks. The initiative will also provide a strong foundation for future opportunities with EliteAgro and further highlights how Root’s technology has the ability to mitigate the effects of rising temperatures and climate change.



**Roots CEO, Boaz Wachtel said:** *“Work in the UAE has continued to progress very well, with all HEP systems being successfully shipped to EliteAgro’s greenhouse. Given the traditional way to grow coffee is in high elevation areas at around a surface temperature between 25 and 30 degrees Celsius, we are very excited to test the modules in much more extreme temperatures.*

*“We look forward to providing further updates on our various installations and pending sales agreements in the short term.”*





**Images:** Operations at EliteAgro's Coffee House Murmum Project

**-ENDS-**

**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 faced by agriculture today, including management of plant's root zone temperatures 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.

More information [www.Rootssat.com](http://www.Rootssat.com)

**About Root Zone Temperature Optimization (RZTO)**

Root Zone Temperature Optimization (RZTO) optimises plant physiology for increased growth, productivity and quality by stabilising the plant's root zone temperature. Using Ground source heat exchange (GSHE) installations either alone, or in combination with heat pumps, or with heat pumps alone, ROOTS is able to provide accurate range of root zone temperatures for farmer and the plants to obtain the multiple benefits.

This significantly increases yields, increases growing cycle planting options, improves quality, mitigates extreme heat and cold stress while significantly reducing energy consumption by stabilising and optimising the ROOTS zone temperature.

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*This announcement was authorised by the Board of Directors of Roots Sustainable Agricultural Technologies Limited.*

**Forward looking statements**

This announcement contains forward-looking statements with respect to ROOTS and its respective operations, strategy, investments, financial performance and condition. These statements generally can be identified by use of forward-looking words such as "may", "will", "expect", "estimate", "anticipate", "intends", "believe" or "continue" or the negative thereof or similar variations.

The actual results and performance of ROOTS could differ materially from those expressed or implied by such statements. Such statements are qualified in their entirety by the inherent risks and uncertainties surrounding future expectations. Some important factors that could cause actual results to differ materially from expectations include, among other things, general economic and market factors, competition and government regulation.

The cautionary statements qualify all forward-looking statements attributable to ROOTS and persons acting on its behalf. Unless otherwise stated, all forward-looking statements speak only as of the date of this announcement and ROOTS has no obligation to up-date such statements, except to the extent required by applicable laws.

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<sup>1</sup> <https://www.sei.org/featured/global-challenge-adapting-coffee-changing-climate/>