

## TARGETING THE ROOTS' ZONE INSTEAD OF THE CANOPY:



HEATING AND COOLING ROOT ZONE TO INCREASE YIELD, SAVE ENERGY, SHORTEN GROWING CYCLES AND IMPROVE FARMER'S PROFITABILITY





Australian-listed and Israeli based, Roots Sustainable Agricultural Technologies Ltd (ASX: ROO) is commercialising worldwide its disruptive, modular, cutting-edge technologies.



#### LEADING TECHNOLOGIES

- ★ Root Zone Temperature Optimisation (RZTO): Two- in-one root zone heating and cooling
- Irrigation by Condensation (IBC): Electric or solar powered irrigation by condensation technology



#### **ROOTS' VISION**

ROOTS' vision is to help farmers increase yield and provide production security to meet the growing global demand for food and water.



# ROOT ZONE TEMPERATURE OPTIMIZATION (RZTO) TECHNOLOGY

\*CLICK HERE TO VIEW TECHNOLOGY'S VIDEO

Root temperatures influence all parameters of the plant's physiology and an optimum RZT range is essential for a plant's robust growth, productivity and quality.

The RZTO technology is a closed loop system exchanging heat in water flowing between underground inserted coils and root zone area. The results of RZT optimization: significant yield increase (20-80% in most cases), better quality, shorter growing cycles, off season planting, reduction in air climate control expenditures, low environmental signature.

\* NOTE: At times, a hybrid system with GSHE coils and efficient heat pump is used in conjunction.

### TECHNOLOGY'S ADVANTAGES



INCREASE OF YIELD QUANTITY AND QUALITY



FASTER GROWTH CYCLES



SUBSTANTIAL ENERGY SAVINGS



ADDITIONAL PROFITABILITY PREMIUM PRICES



IMPROVES
UNIFORMITY AND
SUPPLY SECURITY

