

Disclaimer

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Investment risks

- **Risk of Israeli company political, economic and military:** The company is incorporated and based in Israel. Accordingly, political, economic and military conditions in Israel and the surrounding region may directly affect the company's business. Additionally, the Company is prone to the applicability of Israeli law and Israeli Government grants.
- **Intellectual property:** Although most of the existing IP owned or licensed to the company are granted, there is a risk that other manufacturers may decide to attack the validity of the existing or newly filed IP. In such case the Company will have to defend its IP in lengthy and costly legal procedures.
- Slow penetration rate in the agricultural industry: Agriculture is a conservative sector and adoption speed of new technologies is slow. Disruptive technologies, such as those developed by the Company may not be subject to such a slow rate of penetration however, this is an existing risk that must be taken into account.
- **Competition:** There is a risk that competitors will introduce into the market place new and better technologies and will undermine the success and penetration rate of the Company's technologies and products. Additionally, there is significant competition in the agricultural technology industry generally, more so in greenhouse heating technologies and less in cooling technologies.
- New technology with limited feedback and lengthy testing cycles: The Company's technologies are new in the agricultural sector and as such require lengthy testing cycles (usually a year) on its own and in new territories. This may delay achieving sales and revenue forecasts contemplated by the Company.
- **Limited commercial sales to date:** There are limited commercial sales to date. This is due to the experimental nature of the technology, slow adoption rate of new technologies by the agricultural sector and the limited funds available to allocate to sales efforts to date.
- **Reliance on key personnel:** Success of the business will depend on the Directors and the officers of the Company to develop the business and manage operations, and on the ability to attract and retain key quality staff and consultants.
- Liquidity Risk: A substantial number of shares are classified as restricted securities by ASX which comprises a percentage of the issued share capital on an undiluted basis.
- General Market Risk.



Corporate overview

Roots, founded in 2012, is a graduate from the Israeli Office of the Chief Scientist's Incubator program.

Operations across Australia, Israel, China, Italy, US, Spain, Canada and South Korea and planned geographic expansion.





Corporate overview

An Agricultural Technology Innovator



Roots is focused on developing, producing and commercialising technologies addressing food production security, quality enhancement and access to irrigation water

The only two-in-one, low energy, root zone heating and cooling system world wide

One technology provides water for irrigation by condensation in an environmentally sustainable manner

Combined experience and unique know how in agronomy, engineering and remote data management and control



Board of Directors



Boaz Wachtel
Co-Founder
CEO & Exec Director

- Mr Wachtel is Roots CEO, Co-Founder and the inventor of Roots' core technologies
- Co-Founder of two ASX listed medicinal cannabis companies; Creso Pharma Limited and MMJ Phytotech Limited
- Masters in Management and Marketing from the University of Maryland
- Former assistant army attaché to the Israeli Embassy in Washington DC
- Guest Lecturer at the UN Conflict Resolution conference
- Published 25
 publications on water
 and he is a frequent
 lecturer on Ag-Tech,
 Middle East water
 issues and sustainability



Dr Sharon Devir Co-Founder Non-Exec Director

- Dr Devir is roots Co-Founder.
- Co-Founder of Rimonim, an Ag-Tech fund and Sailcrop, an abiotic stress seed treatment
- Former CEO of NGT, a technology incubator which sold to Colgate for USD\$100m
- Former CSO of AFIMILK dairy management systems
- Agriculture faculty lecturer at the Hebrew University
- Awarded Channel 2's "Man of the Year", Israel
- Ph.D. in Agriculture and Environmental Sciences from Wageningen University, the Netherlands
- Bachelor of Science and a Masters of Science from the Technion Institute of Technology, Israel



Dafna Shalev-Flamm Non-Exec Director

- Ms Dafna Shalev-Flamm is a Non-Executive Director of Roots
- Currently the CFO of Destiny Group, which owns Giron Development and Building Ltd, a publicly traded real estate company
- Former Director of MTI Computers and Software Services Ltd, Plasson Industries Ltd and Polyram Plastic Industries Ltd
- A Certified Public Accountant in Israel since 1994
- Bachelor of Accounting & Finance and a Masters of Business Administration from Ben-Gurion University, Israel



Graeme SmithNon-Exec Director

- Mr Smith is a Non-Executive Director of Roots
- Highly awarded industry expert
- Published over 50 works over the last 20 years
- Former President,
 Chairman, Board Director
 and Memberof both local
 and international
 Greenhouse, Hydroponic,
 Cropping and Horticultural
 groups
- Current MD of Graeme Smith Consulting (www.graemesmithconsulting.com)
- Current equity partner and greenhouse horticultural technical advisor for Nectar Farms with plans for a 40ha climate resistant glasshouse in VIC and NSW, Australia
- Certified Practicing Agriculturist (CPAg) from the Australian Institute of Agricultural Science and Technology



Dr James EllingfordNon-Exec Director

- Dr Ellingford previously served as International President of a multi-billion dollar NASDAQ software business Take-Two Interactive Software with its headquarters in Geneva and New York.
- He has vast international experience in the software industry
- Has close ties with financial institutions and governments throughout the world.
- Dr Ellingford has had ample experience over the last several years in the Cannabis space as well as living for a period in West Coast of USA.
- Dr Ellingford holds a Postgraduate in Corporate Management, Master's in Business Administration and a Doctorate in Management.
- Dr Ellingford has lectured MBA students in Corporate Governance, ethics and marketing at a leading Sydney University which are areas he has a keen interest in.



Adam Blumenthal Non-Exec Director

- Mr Blumenthal is a Non-Executive Director of Roots
- Brings over a decade of corporate finance and investment banking experience
- Director of multiple
 ASX listed companies
- Bachelor of Commerce and Masters of Commerce from UTS and RMIT university
- Masters of
 Business
 Administration
 from Australian
 Catholic
 University



Increasing demand for food & water, combined with supply constraints, leaves Roots well positioned for growth...

Problems facing humanity and agriculture:



Demand for food outstrips supply



Water shortages



Severe weather conditions and global warming



Ecosystem degradation



High usage of chemicals in fertiliser



High energy prices



Roots' two innovations helping modern farmers

1. Sustainable optimising of plant's root temperatures and yield











2. Water shortages in areas with no access to water grids, wells or rain



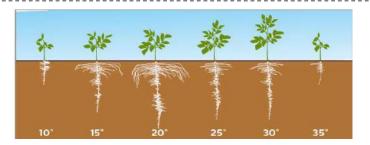


Root Zone Temperature Optimisation (RZTO) control system

Root temperature is the most influential factor in plant physiology for growth, productivity and quality:

- An optimum root temperature generally ranges between 12-28°C
- The optimum range is essential for a plant's robust growth, productivity and output

Roots' technology cools and heats root zone temperatures to stabilise the optimum temperature range all year round



Effects of Soil Temperature on Root Development

Results:



Increase of yield quantity and quality



Shortening growing



Substantial energy savings



Additional profitability premium prices



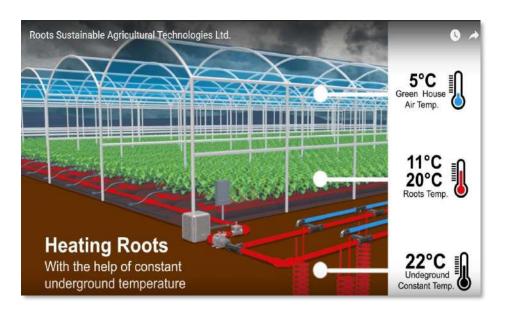


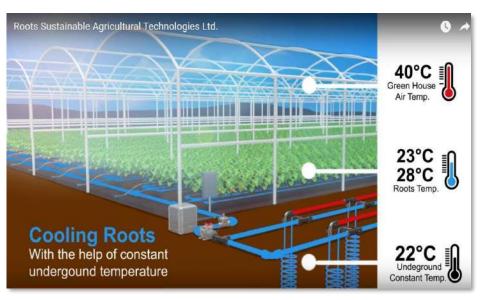
RZTO for heating & cooling

Ground Source Heat Exchange principles for the smart control and management of root-zone temperatures all year

Targeting the roots and not the canopy:

Saving approx. 90% of heating energy costs compared with traditional air heating (Israeli Agricultural ministry analysis)





Roots have developed the first and only commercially viable roots zone cooling technology in the world



Root Zone Technology Optimisation (RZTO)

The technology is comparable to the revolution of drip irrigation, which means targeting the root zone area and not the canopy

Advantages over existing options including:

- Pioneering of a two-in-one system able to both heat and cool plants at the root zone area
 - There is no known company with RZTO optimization technology that uses sustainable low energy ground coils heat exchange system both for heating and cooling
- Increased yield and quality, with reductions in growing cycles
- Energy efficient, saving up to 90% of energy compared with air heating
- Faster ROI than competing solutions, which are expensive to run
- Addresses climate management problems
- Real-time results tracking via smartphone and PC software
- Eco friendly competes favorably with fossil-based air heating companies and air cooling mats for plants





Herbs | heating basil roots





66% additional yield, 35% size increase



Increased profitability due to premium prices



Very low energy consumption



Quick return on investment*



Israeli Government 30% subsides basil farmers





Un-Heated









^{*} In US prices - 18 months | Spanish prices - 2 years | Israeli prices - 2-3 years

Vegetables | stabilising nutrient temperatures of lettuce





Yield increase in ground cooling



Protects against excessive heat



Shortened growing cycle in NFT¹



Rapid ROI (depending on price of product per kg sold)



The global hydroponics market is expected to reach *US\$12.1 billion by 2025, up from US\$6.9 billion at* present. Europe is the largest hydroponic segment and is expected to account for around 41% of the global market by 2025. Asia-Pacific forms the second largest market for hydroponics, which is also expected to grow at a steady pace during the forecast period.

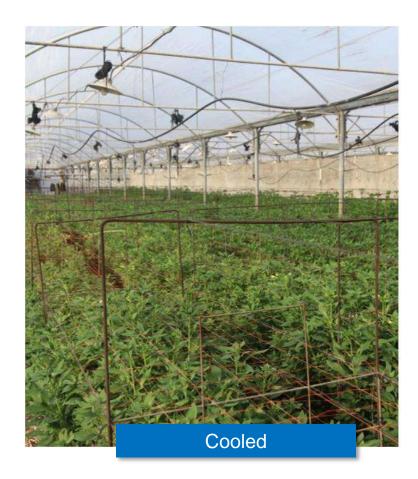
Source: PR Newswire Article

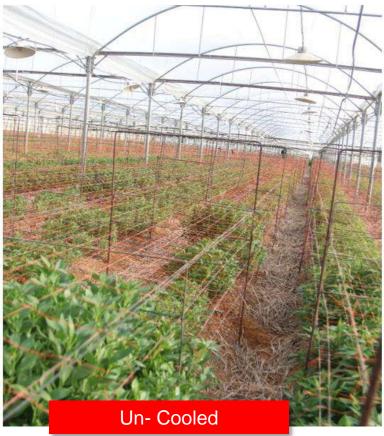


¹ Nutrient Film Technique

Flowers | cooling Alstroemeria roots







- Growth and cultivation of flowers with cooled roots started seven weeks earlier than control plants with non-cooled roots
- This early blooming accounted for a 20 percent increase in production the equivalent of 150,000 to 200,000 flowers per hectare.
- The extended growing season also allowed the farmer to obtain a premium price of more than double the standard rate for out of season flowers.



Cannabis | Outdoor



World-first heating of cannabis roots







Roots released successful Root Zone Temperature Optimization (RZTO) heating results on cannabis in an open field, showing an increase in yield by 40-270% * compare to un-heated control crop .



^{*} Depending on the different strain and different agricultural configuration installation.

Cannabis | Greenhouse

World-first cooling of cannabis roots





Yield increase



Up to 15° C difference between cooled roots and uncooled roots. Stable & optimal temperature range. At 40° C air temp and 33° C control pot temp ROOTS system maintained 20-25° C root temp range at cooled pots





Irrigation by Condensation (IBC) technology

- Electric or Standalone solar, closed loop, solar-operated system
- Irrigates crops by condensing humidity in the air on external surface of pipes with running cold water at night.
- In many cases, no additional irrigation is required to maintain plant survival and harvest quality
- Solar operated Independent from water and electricity grids
- Allows farming in remote locations normally unsuited to food production due to water shortages





Irrigation by Condensation (IBC) | R&D















IBC grown crops



Vine



Pea

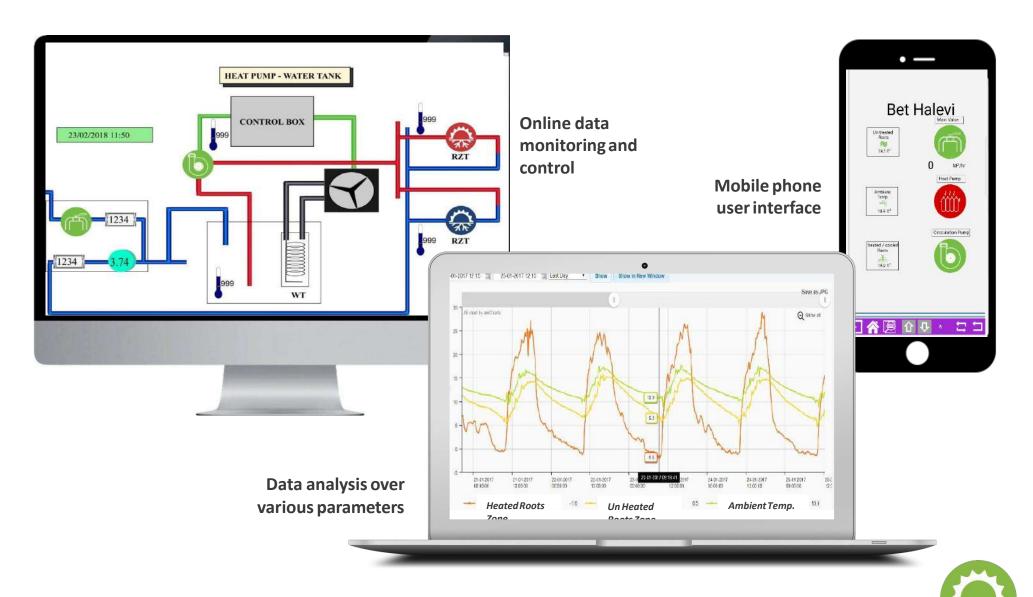
Rice

Avocado

IBC grown crops



Proprietary control & monitoring software



Commercialisation Strategy: RZTO global commercialisation*

RZTO is already in commercial use across Australia, China, Israel, Spain, South Korea and US



^{*}As per ASX announcement/media release on <u>June 7</u>, 2018.



China: ongoing sales*

- Exclusive distribution agreement with Dagan Agricultural Automation signed in 2018
- Exclusivity conditional on \$19 million over a five-year period
- Second order shipped and payment received











Spain: ongoing commercialisation

- Two pilots in Almeria
 - Tomatoes Hybrid system
 - Zucchini GSHE only
- One pilot in Huelva:
 - Strawberry Hybrid









South Korea first sales*

- Non-exclusive reseller agreement signed with Ezfarm in August
- Initial one-year agreement with option for annual extensions
- First commercial order placed in September









^{*}As per ASX announcement/media release on <u>August 8</u> & <u>October 3</u>, 2018.

Italy first sale*

- LOI agreement signed with Cairo & Doutcher in October
- Initial one-year agreement with option for annual extensions
- First commercial order installed in October











New sector | cannabis US & IL

 Washington State, USA: Open field, outdoors, sun-grown pilot in root zone heating for the winter 2018

• California, USA: 4 installation

Israel: Indoor, greenhouse root zone cooling











Investment Summary



Uniquely positioned

 Roots developed and commercialized disruptive technologies attracting significant attention in the rapidly growing Ag-tech investment community



Clear path to commercialisation

- RZTO already commercialised in Israel, China, S. Korea & USA
- IBC proof of concept completed, commercialisation in progress
- Additional products, backed by IP are in R&D and piloting and POC phases



Experienced management and global leaders of Root-Zone Cooling & Heating

• The only known technology with two-in-one heating and cooling ground source heat exchange technology. Directors are well versed in value creation and capital markets.



Substantial progress to date

- RZTO commercialisation and sales are picking pace globally.
- World wide interest in the two innovative technologies is accelerating





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