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COPTICEPT TECHNOLOGIES

Game-changing Technology For A Sustainable world





About our company





Moving from research and development to commercialization and growth

ý V **DIVERSE TEAM** FOUNDATION MERGER 20+ employees with Founded in 2011 by Opticept Technologies several different researchers at Lund was formed by a merger nationalities, competences University and ArcAroma between ArcAroma and and backgrounds Pure AB Optifreeze AB in 2021



Listed on Nasdaq First North Growth Market

PARTNERSHIPS

Strong partnership for rapid market penetration as the Company enter the growth phase for its technologies







Timeline



The Challenges



45% ~

45% ~ of the world's fruits and vegetables grown are thrown away annually.

30%

Nearly 30% of the world's agricultural land - 1.4 billion hectares (!) is used to grow products that are never consumed.

43 000 000 000

Approximately 43 billion cut flowers are produced annually. It is estimated up to 20% of this is waste.



990 000 000 000

Food losses and food waste are estimated at approximately € 680 billion in industrialized countries and € 310 billion in developing countries.



Low quality/unhealthy processed food

Food processed by heat contains less nutrients and sugar is added to compensate for loss of flavours.



Energy consumption

The food sector accounts for around 30% of the world's total energy consumption.



During Valentine's day alone, approximately 360 000 tons of carbon dioxide is produced from flower transports. This equals the emissions from 78 000 cars during a year.

Wasted food is responsible for 8-10% of human-made greenhouse gases.





"More from less"



Increase extraction – more product out of less raw material



Better efficiency – decrease time and energy consumption



Improved sustainability – less waste, extended shelf-life and higher quality

How does OptiCept contribute to solve and fight these issues?





Contributing to the transition towards a sustainable future



OptiCept minimizes waste

OptiCept's technology significantly extends shelf life of food, drinks and flowers, consequently reducing vast number of products that get thrown away



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OptiCept reduces energy consumption

OptiCept's technology reduces the process time in production, implying substantial energy savings

OptiCept increases health benefits

OptiCept's technology increases the number of vitamins, polyphenols and other nutrients in the treated products

OptiCept reduces CO₂ emissions

Wasted food is responsible for 8-10% of greenhouse gas emissions . With OptiCept's technology that can be reduced by up to 50%

OptiCept allows more sustainable use of transportation

OptiCept's technology extends the durability of the treated products, consequently allowing for more optimal transportation choice and route planning

SUSTAINABLE G ALS





⑦ Technology



FoodTech applications - PEF (Pulsed Electric Field)

The CEPT[®] platform is a high voltage generator combined with treatment chambers. The technology is primarily used within food production to increase extraction and extend sustainability



PlantTech applications - VI (Vacuum Infusion)

The vacuum infusion method impregnates natural ingredients into the flower's stem and green leaves. The technology and the machine, used during the process are unique and designed for treating plant materials







The art of creating, controlling and applying pulsed electric fields







More olive oil at better quality



Increased Extraction

The oliveCEPT® offers increased extraction up to 15% yield with the same amount of raw material. Secured extraction volume and improved oil yield.

Better Efficiency

Reduced operational cost and improved productivity. Reduced malaxation volume – less malaxers. Increased production volume during the same time.



Improved Quality

Increase of polyphenols and other quality compounds. Improved taste, color and nutrition. Reduced oxidation and better oil stability.





Olive oil – ongoing projects and customers

Spain is the largest producer and exporter of olive oil in the world (49% of the total market)



- ✓ Local office established
- Scientific results validated by Spanish research institute (IFAPA)
- \checkmark Collaborations with world leading companies











Facts

Variety: Picholine marocaine, Picholine du Languedoc, Arbequina, Arbossana, Koroneiki and Dahbia

Process: Cold extraction process at max temperature of $26^{\circ}C$

Capacity: 6000 t/h

Production: 1,450,000 Kg EV00

Production Season: 3 months

- Three farms located at the foot of the Atlas mountain chain
- High-quality producer
- 1,250,000 kg of excellent extra virgin olive oil with 0.2° maximum acidity is produced and delivered to exclusive dealers worldwide

Atlas Olive Oils invested in an olive CEPT $^{\rm (8)}$ unit type ODIN in October 2019. The effects were already visible after the first season





"We are absolutely happy, with both its function and the extra olive oil it produces. We have gained an extra 10% without compromising quality. We have improved the olive oil taste and increased the polyphenol content of our oil by about 5%"

Othmane Aqallal, Owner & Managing Director





More juice at better quality

Increased Extraction

Improve extraction by micro-scale destruction of cell membranes of the mashed raw material like fruits, berries, and vegetables.



Extended Shelf-life

Minimal heat impact that does not damage color, taste and nutritional values. Maintained quality in taste, color and nutritional values of bottled juices due to the cold process treatment.



Improved Quality

Boost cellular release of minerals, vitamins, colors compounds, and other micronutrients enhancing quality substantially.





Case – Dole





Facts

€ 2,15 million Est. transaction value for this site only

Ongoing validation To adjust application in commercial line

Dole Asia Holdings Pte. Ltd., founded in 1851, has its headquarters in Singapore and is the global operational headquarters of the Dole Group. Dole is one of the world's largest producers and marketers of high-quality fresh fruit with revenues of approximately billion USD 2.5. Dole's operations are conducted in 30 countries by 40,000 employees and include around 162 distribution and manufacturing facilities In February this year (2023), OptiCept entered into an agreement with Dole in order to investigate how the CEPT® platform can contribute to making Dole's production facilities more efficient.

"The juiceCEPT[®] technology has contributed to significantly increased extraction and in addition to showing good values regarding nutritional content and for quality parameters that define taste and aroma."





Brings out the best in dried products

Better Efficiency

With dryCEPT® installed in your production line you increase your processing capacity. Produce more in less time.



Reduced drying time

Significant energy savings can be made as a result of the reduced drying time. E.g. what took 8 hours before, now only takes 6 hours.



Improved Quality

The mild treatment ensures that taste, aroma, color and rehydrating properties are kept intact.







from the solution.







Pro-longed consumer vase life

A significant increase in consumer vase-life is achieved depending on variety, transport and handling conditions.

Better Efficiency

Less waste to manage, reduced impact on our planet and increasing sustainability.



We can control the opening rate of the flowers, with the right recipe we get a more even opening. The treatment affects the leaves as well, producing fresher greener leaves.

Optimizing the cut flower experience













- Dagab, which is part of the Axfood Group, is the leading wholesaler and logistics partner in the service trade in Sweden
- Dagab has entered a commercial agreement with APH for the treatment of cut flowers
- They deliver the grocery assortment to about 600 own and collaborating stores within Axfood

In mid-July 2021 we initiated a trial with the Swedish retail chain Dagab and the wholesaler APH. As of April 2022 they decided to enter a commercial agreement to treat all of their roses with the ambition to treat all of the cut flowers in the future.



"Customer satisfaction and sustainability are key issues for us at Dagab. During the evaluation we carried through, we saw very good results and therefore we now choose to implement the method fully. We look forward to reducing waste and gaining even more satisfied customers."

Daniel Månsson

Category area manager for fruit, vegetables & flowers, Dagab





Boosting cuttings for exceptional survival and rooting



Increased Survival/Rooting

Achieved increase of propagation rate from 5%to 60% depending on genotype. Best improvement achieves for hard/most valuable cultivated clones.



Indicative results of accelerated Growth after planting

Potential for higher photosynthetic ability and nutrient assimilation.

Improved Quality

Appearance less wilted, fewer dying leaves, and better color. Improved plant height/growth rate, root collar diameter.





OptiBoost for cuttings – Customers and ongoing projects





The world of cuttings



NorthMerge

• Sales agents with global reach and extensive experience in the forest industry

syngenta

- Partner in method development
- World-leading supplier of ornamentals



- Research and development with Guangxhi Academy of Forestry in China
- In-house R&D



"High value" plants



Yearly recurring market potential for prioritized business areas

9





New

New market entry - solids



FPS PROCESS SOLUTIONS

- A global leader in turnkey equipment for freezing, cooling, frying, and food handling
- Headquartered in Vancouver, Canada
- International sales offices on six continents and manufacturing on several continents.







€ 31 billions

Dried vegetables, fruits and herbs



€ 215 billions

Frozen Food



€ 33 billions

Processed potatoes



279 billions





Exceptional development potential











Ulf Hagman Chairman

More than 30 years of experience from leading positions in the flower, fruit and vegetable industry. Previously worked as CFO at Euroflorist, Europe's largest flower distributor. Extensive experience as a management consultant and working with various board assignments. Ulf was the CEO of OptiFreeze AB before the merger with ArcAroma



Michael Kester Board Member

B.SC. in horticulture and an MBA from NIMA. Previously Michael had a long career in Syngenta, where he started in plant protection and then shifted towards marketing and sales. Michael has been active in multiple management positions in Syngenta, and most recently actively worked as a member of the group's management team



Elisabeth Yllfors Board Member

Elisabeth Yllfors manages a consultancy firm specialized in business development and management. Yllfors has board experience from the food industry and was previously Nordic Marketing Director and CEO at Findus. She also held management positions at Unilever and within Nestlé



Petr Dejmek Board Member

Dr. Dejmek is professor emeritus at Lunds University, an engineer and doctor of technology. He studied mechanical engineering in former Czechoslovakia, process engineering in Germany, and food technology in Sweden. Dr. Dejmek is the founding innovator and originator of the patented technology that was the foundation of OptiFreeze



Anders Hättmark Board Member

Anders Hättmark has many years of experience in the management of the majority of companies, including OptiFreeze and ArcAroma. He also has an extensive experience in business development and improving profitability and competitiveness of companies. He is also a major shareholder and board member of Veg of Lund







Thomas Lundqvist CEO

Born 1969, CEO since 2022

Education: Executive MBA from EFL, at Lund University and master's degree in industrial economics at Linköping University of Technology

Previous positions (last five years): Global Service Director, Ecolean AB, Operations Director, John Bean Technologies AB.

Holdings in the Company (including related parties): As of today, Thomas Lundqvist holds 24,268 shares and 52,658 warrants.



Fredrik Cedmert

Born 1967, COO since 2021.

Education: Studies in economics and law at university.

Previous positions (last five years): COO ArcAroma AB (publ).

Holdings in the Company (including related parties): As of today, Fredrik Cedmert holds 13,268 shares and 70,400 warrants.



Fredrik Sundberg

Born 1971, CCO since 2023.

Education: Studies in economics at university

Previous positions (last five years): Region Manager Scandinavia, EuroFlorist, Region Manager Central Europe, EuroFlorist

Holdings in the Company (including related parties): As of today, Fredrik Sundberg holds 466 shares and 20,000 warrants.



Déspina Georgiadou Hedin CFO

Born 1986, CFO since 2023.

Education: M.Sc. in Business and Economics at Linneaus university, Växjö/Kalmar

Previous positions (last five years): CFO, Ascelia Pharma AB, CFO och HR-chef, Bioglan AB

Holdings in the Company (including related parties): -



Adeel Khan Chief Technical Service & Support

Born 1989 Head of technical support & service since 2022..

Education: Master's in electrical engineering at the University of Management & Technology Lahore in Pakistan.

Previous positions (last five years): System specialist, Ecolean Pakistan, Technical Coordinator and Global Manager Technical Support at Ecolean AB.

Holdings in the Company (including related parties): As of today, Adeel Khan holds 2 957 shares.

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