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**SUBSTRATES CREATED
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**HEADS OR TAILS?
BOTH!**

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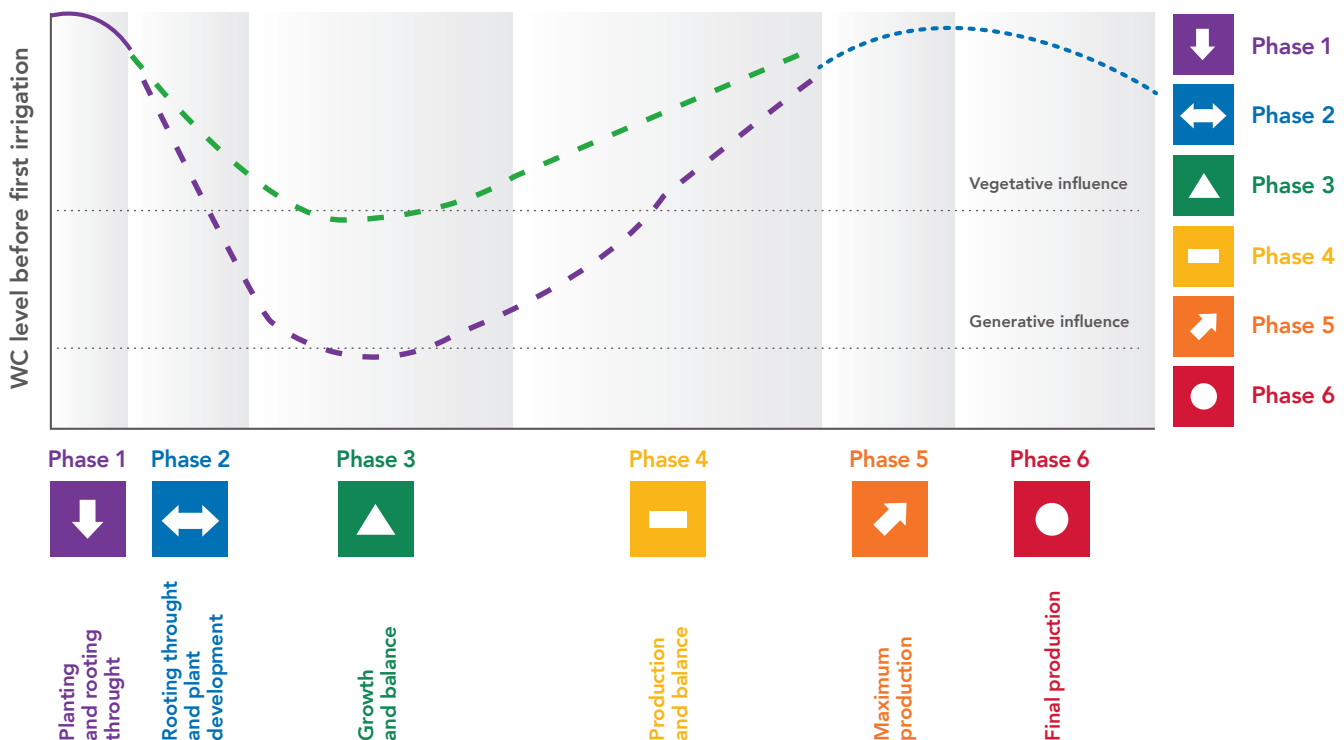


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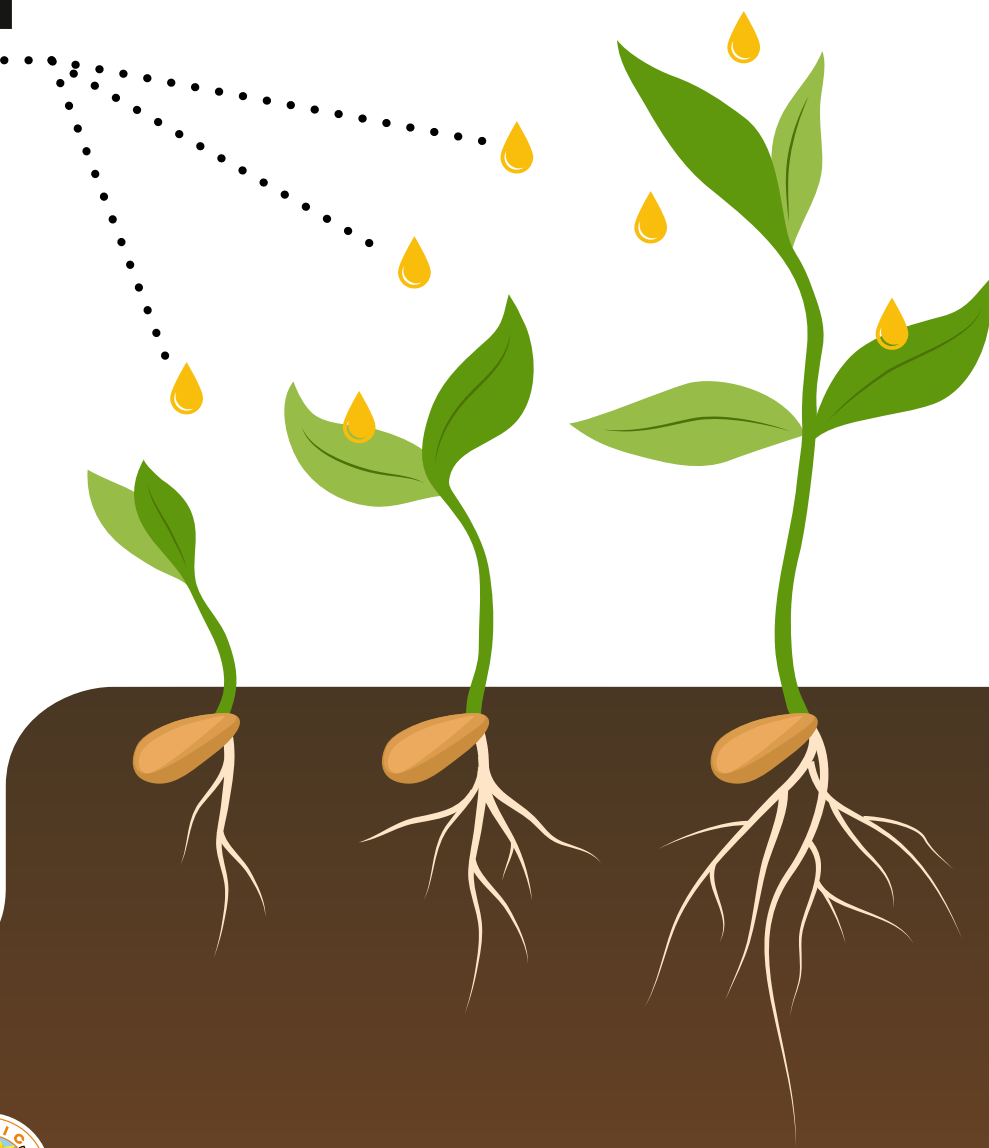


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H.E. ABDULLA BIN TOUQ AL MARRI UNVEILS KEY PILLARS FOR TRANSFORMING UAE FOOD AND AGRICULTURE SECTOR INTO GLOBAL POWER

The UAE Minister of Economy, H.E. Abdulla bin Touq al Marri, affirmed the UAE's commitment to transforming its food and agriculture sector to grow its contribution to GDP by \$10 billion and creating 20,000 jobs in the next five years and unveiled the seven key pillars of the strategic direction in achieving it. The key strategies include localising innovation, fostering a UAE-first culture and food supply chain, and providing farmers with the necessary support and resources to make them a global leader in agri-food innovation and sustainability.

Closing the fifth Future Food Forum on 21 September, H.E. Al Marri praised the

country's F&B sector initiatives in skill development and digital-infrastructure capabilities achieved through various programmes to reshape how food is produced, distributed, and consumed in the region and globally. He commended the UAE Food Platform's (launched during the Forum) ability to enable public-private collaboration in food security and optimising the F&B ecosystem with digital infrastructures to drive the sector growth and attract investments and trade opportunities.

The two-day events on 20-21 September, held in Le Meridien Dubai Hotel delved into the growing role of the food sector

in UAE's economy and well-being and the industry's future. Present for driving the UAE's economic development and industrial growth is promising and crucial to our future. The UAE, today, is considered one of the most important hubs of global food logistics. Everybody knows it's the most accessible port for shipping containers between the source and the destination, easing for food supply and consumption. Food is also an important aspect of overall trade. Food products trade amounted to AED 130 billion in 2022 alone compared to AED 105 billion in 2021, registering a growth of 24% in one year; food trading was 5.7% of the UAE non-oil trade.



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Atul

URBAN CROP SOLUTIONS DEMONSTRATES EXCEPTIONAL QUALITY AND FUNCTIONALITY IN EXTREME CLIMATES

An indoor farming solution designed, manufactured, and installed in Saudi Arabia by Urban Crop Solutions once again demonstrated its quality and functionality through its purpose-built climate system. Despite extreme temperatures of +50°C measured in the shade, the innovative climate system performs remarkably well.

With increasing awareness of climate change and the limited availability of natural resources like water and fertile land, farmers and producers around the world are nowadays continuously looking for sustainable and efficient ways to grow produce in extreme weather conditions. Urban Crop Solutions has attracted

attention for its advanced technologies that allow crops to be grown in controlled environments regardless of external conditions.

In a recent project in Saudi Arabia, the climate system was subjected to unprecedented challenges due to exposure to a maximum temperature of +50°C in the shade. Despite these extreme conditions, the climate system exceeded expectations by continuing to function flawlessly and to maintain optimal growing conditions for the crops in the indoor farm.

Urban Crop Solutions strength lies in the tailored approach that it brings to every project. It does not bring a one-size-fits-all offer but instead its process engineers listen to

their customers and use their in-house knowledge, expertise, and tools to develop a tailor-made solution for every project. Urban Crop Solutions is a partner during the entire process: from the conceptional design to the detailed engineering, procurement and manufacturing, up to the installation and commissioning, and even training and maintenance if required. One of the main advantages of working with Urban Crop Solutions that was also demonstrated in the project in Saudi Arabia is the fact that it works supplier independent. Therefore, vendors are chosen based on the customer's requirements, offering the best guarantee for every tailor-made installation.



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DANISH AGRICULTURE & FOOD COUNCIL TO LEAD THE WAY TOWARDS A SUSTAINABLE AGRICULTURE AND CLIMATE-NEUTRAL FOOD PRODUCTION AT COP28

The Danish Agriculture & Food Council, representing Denmark's farming and food industry, is set to create a significant impact at the 2023 United Nations Climate Change Conference (COP28) in Dubai. The Danish Agriculture & Food Council is eager to showcase how innovative practices, efficient research, and a commitment to sustainability can lead the way towards climate-neutral food production.

The Danish Agriculture & Food Council's CEO, Ms. Merete Juhl, highlighted the global recognition of agriculture and food systems in addressing the climate crisis, marking COP27 as a pivotal moment towards sustainable food production. She stated, "COP27 was the first of COP where we truly saw a global recognition of the importance of

agriculture and food systems in addressing the climate crises. As part of the largest Danish business delegation ever at a COP, the Danish food industry is ready to continue the momentum in Dubai and show the world how good agricultural practices, innovative companies, and efficient research can lead the way towards climate-neutral food production.

Ms. Merete, a former Danish ambassador to several nations, including Lebanon, Jordan, Syria, the United Arab Emirates, Qatar, Ukraine, Georgia, and Armenia, brings extensive diplomatic experience to the council.

On the other hand, the Danish Agriculture & Food Council represents a vital sector of Denmark's economy, employing

approximately 186,000 people and exporting agricultural products, food, and equipment valued at around €20 billion annually. With the world's population projected to reach 10 billion by 2050, meeting the increasing demand for food while addressing climate challenges necessitates innovative solutions and new technology.

Additionally, the Danish food industry has set an ambitious vision of achieving net-zero emissions by 2050, committing not to emit more greenhouse gases than they absorb. It aligns closely with the United Nations' Sustainable Development Goals and demonstrates Denmark's dedication to showcasing an economically and environmentally sustainable path to climate-neutral food production.



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SUPERSOIL

BRAZIL TO HOST FORUM TO UNITE GLOBAL HALAL INDUSTRY STAKEHOLDERS

The Arab Brazilian Chamber of Commerce (ABCC), in collaboration with the certification entity FAMBRAS Halal, will host the second edition of the Global Halal Brazil Business Forum (GHB), Brazil's most prominent event dedicated to halal industries. The event will provide a unique platform for networking and collaboration among professionals and business leaders in the niche.

Scheduled to take place on October 23 and 24, 2023, at the World Trade Center in São Paulo, GHB is expected to draw over 400 participants from various sectors - including business, academia, government, and sector associations, both from Brazil and countries with significant Muslim populations, including Arabs.

Osmar Chohfi, President of ABCC said: "GHB is the only space with a

biannual program bringing together all these links. Today in Brazil, no other major event focuses on halal with this dimension, providing both the discussion of the subject and the meeting of these players. The forum will feature speakers from across the halal ecosystem, scholars, and specialized consultants who are in contact with the big brands supplying the halal market and know the issues and concerns and what works better in this market. It's a ripe time to approach them and learn a little more about the opportunities in the global halal market."

The global halal market is spread around 60 countries with a population of about 1.97 billion and an economic turnover of USD 5.7 trillion annually. Chohfi called upon Brazilian exporters to

recognize the immense potential of this market. "The sooner participants in the export value chain - including exporters, logistics operators, service providers, and others involved in foreign trade - understand the size of this market and the importance of being a part of it, the better. Close to a third of the global population will be Muslim in the coming years," he said.

Brazil has already established itself as a significant supplier of halal-certified animal protein, and the GHB will serve as a platform for discussions and networking in this thriving sector. Halal products, produced in accordance with Islamic practices, cater to Muslim consumers worldwide and have also gained popularity among non-Muslims who seek high-quality and ethically produced products.



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Later, the nursery was inaugurated; it currently produces about 12 million plants annually: standard, grafted and organic ones.

Over time, the need for high quality seeds has arisen to the creation of Southern Seed S.r.l., which deals with the development and genetic improvement of new varieties through traditional selection and Marker Assisted Selection (MAS), production, processing and sale of seeds.

Our laboratories are equipped with the most modern equipment and formed by a young and professional team characterized by technology, innovation, respect for the ecosystem and always attentive to sustainability, like energy production mostly through solar panels and zero waste of water, one of the primary and essential sources.

Beyond laboratories, our research stations are another strength: there, new varieties are selected, our customers are welcomed to view products and the relationships with them are improved.

Our modern technologies gave birth to varieties that have made Southern Seed S.r.l. an important company within the international landscape.

Southern Seed deals specifically with: *Solanaceae*: tomato, eggplant, pepper, tomato rootstock, *Cucurbitaceae*: melon, watermelon, zucchini and *Brassicaceae*.

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FRUIT LOGISTICA 2024: THE FRESH PRODUCE INDUSTRY'S HEARTBEAT GROWS STRONGER

FRUIT LOGISTICA which takes place from 7 to 9 February 2024, recorded a major increase in requests for exhibition space at its upcoming event.

And while there is still time for late exhibitor registrations, next year's stand bookings have already exceeded this year's result. A hopeful sign, it seems, that the global economy has started to recover.

Demand from fresh produce suppliers in Africa and Asia is

especially strong: Kenyan companies, for example, have booked twice as much exhibition space as they did in 2023; while China has doubled its presence to more than 1,000 sq ft.

The fruit and veg industry continues to face cost pressures and distribution challenges around the globe. For FRUIT LOGISTICA director Kai Mangelberger, this explains why interest in technological and logistical solutions is even higher.

"This is something reflected in our

increasing exhibitor registrations in the Logistics, Machinery & Technology segments," he comments. "The logistics segment in Hall 26 in particular has seen an increase in international exhibitors."

In the show's Machinery & Technology segment, the topic of Controlled Environmental Agriculture (CEA) continues to gain importance, Mangelberger adds. "So, in Hall 3.1, the Greenhouse and SmartAgri areas provide space for these exciting new technologies."

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ARAG Group is pleased to announce that it has been acquired by Nordson Corporation (Nasdaq: NDSN), a global diversified precision technology company. ARAG will become a division within Nordson's Industrial Precision Solutions segment.

Commented Victor Gottardi, vice president and division leader of ARAG Group, "For ARAG, this deal is a confirmation of the extraordinary work of our founders and ARAG employees. Since the company was founded in 1976, we have served the needs of agricultural customers through an expansive portfolio of spraying solutions. Now, as a new division of Nordson, we will be empowered to expand our innovation pipeline and offer precision spraying solutions to a

larger audience of customers around the world. This is a very exciting time for ARAG, our employees and our customers."

ARAG is a global market and innovation leader in the development, production and supply of precision control systems and smart fluid components for agricultural spraying. Its portfolio consists of three key product families: smart components that measure and control the flow, quantity and location of the dispensed fluid; control systems that provide a greater variety of input and functionality to the customer and fluid components such as filters, nozzles and pumps. ARAG's broad product portfolio is further supported by differentiated software and data capabilities.

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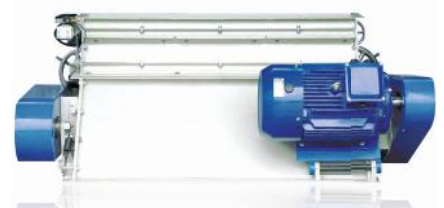
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DUBAI, STAKEHOLDERS FROM 30+ COUNTRIES UNITED TO MAKE THE 4TH GLOBAL VERTICAL FARMING SHOW - A MASSIVE HIT!

The two promising days in Dubai at the 4th Global Vertical Farming Show under the patronage of Ministry of Climate Change and Environment ended on a highly exceptional and praiseworthy note. With attendees and stakeholders from more than 30+ countries - the event hosted the top players from the entire vertical farming value chain that connected, collaborated and cultivated the seeds of unity towards scaling this emerging sector to new heights.

The event, brought together esteemed guests, including His Excellencies, key government officials, and industry experts, turning it into a remarkable platform for knowledge exchange and product showcase.

The exhibition floor abuzz with back-to-back business meetings

where leading companies like Vertical Future, Foshan GrowSpec, GreenState, Multivac, Al Aliyo Hydrofarms, Total Grow, Danfoss, Skytree, etc. along with vertical farm owners like Bustanica, Pure Harvest, Uns Farms, Elite Agro, Veggitech etc. and retail chains like Barakat, Sharjah Coop, etc. were extremely satisfied exhibiting their best products and solutions at the show.

Key government officials present at the event reaffirmed their commitment to promoting food security within the region. The valuable presence from organisations like UAE's Ministry of Climate Change and Environment, ADAFSA, AAAID, World Green Economy Organization, Emirates Development Bank, Food Tech Valley, top vertical farming

companies, various other governing bodies and stakeholders underlined the importance they accorded to sustainable agricultural practices that ensure a sufficient and reliable food supply for the future.

The insights and expertise shared by the government representatives and VF leaders paved the way for fruitful discussions and collaboration between public and private entities.

Attendees had the opportunity to explore cutting-edge technologies, innovative farming methodologies, and the latest advancements in vertical farming solutions. With a strong focus on promoting food security in the region, the Global Vertical Farming Show proved to be a significant milestone in shaping the future of sustainable agriculture.

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PURE HARVEST EYES FURTHER GROWTH WITH \$150M STRATEGIC RICHEL GROUP PARTNERSHIP

Pure Harvest Smart Farms (Pure Harvest), a world-leading, sustainable technology-enabled agribusiness, has entered into a three year, exclusive strategic partnership with Richel Group (Richel), the unparalleled organization providing worldwide turnkey mid-to-high tech greenhouse solutions. With an immediate focus on the Middle East and Asia, the partnership aims to deploy over \$150 million worth of smart growing systems with the flexibility to expand the

partnership into new geographies.

Sharing a vision for the industrialization, standardization, and professionalization of the Controlled-Environment Agriculture (CEA) industry, Richel will support the design and construction of smart farms across the Middle East and Asia while Pure Harvest leverages its extensive experience in challenging climates. The partnership is currently working on projects in Singapore, Kuwait

and Saudi Arabia.

Sky Kurtz, Founder and Chief Executive Officer of Pure Harvest, commented: "Richel has distinguished itself as among the top CEA system integrators in the world demonstrating an openness to embrace an innovative, mutually exclusive partnership model - which will help us to achieve our long-term growth objectives while at the same time consolidating project timelines and working together to reduce build costs."

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ARAB YOUTH HACKATHON INVITES YOUNG MENA INNOVATORS

PepsiCo and the Arab Youth Center (AYC) have opened applications for young Arab innovators to apply for the Arab Youth Hackathon, a regional entrepreneurship program aimed at creating smarter solutions to climate-related issues in the areas of agriculture, circular economy, water security, and renewable energy and efficiency.

According to recent research, 65% of Gen Z members in MENA are concerned about the world, but a higher proportion - 66% are hopeful about the change they can deliver. 50% are also actively striving to make a change through social, political, or environmental means.

The hackathon will run in the UAE, Saudi Arabia, Egypt, Jordan, and Lebanon, and is seeking applicants, including university students and early-stage entrepreneurs who either are looking to ideate or have a preliminary existing idea at the testing phase, which will evolve during the hackathons. In the UAE, the hackathon will take place at the Sharjah Research Technology and Innovation Park from 7th to 9th October.

HVLS FANS FOR DAIRY FARMS

Boosting Animal Productivity with Large Ceiling Fans and THI Control

Increasing animal productivity is key to boosting business profitability in agriculture. We spoke with Shukhrat Narmetov, the project manager at Vetromaster, to discover how the use of big ceiling fans can enhance productivity and profits, while also introducing the crucial concept of THI (Temperature and Humidity Index).

Q: Where are big ceiling fans used in agriculture, and why are they necessary?

A: Big ceiling fans, which are also known as High Volume Low Speed (HVLS) fans, find their primary application in dairy farming. They have been proven to enhance profitability by creating comfortable conditions for animals. Cows often experience heat stress in high temperatures, leading to decreased milk production due to reduced feed intake. HVLS fans can mitigate this, resulting in an average milk yield increase up to 20%, or 4-8 liters per day. Additionally, they help prevent heat-related health issues and improve reproductive capacity.



Q: How do fans affect the indoor environment?

A: HVLS fans are increasingly popular in dairy farms because they improve the microclimate. They reduce ammonia vapor concentration near the floor, which can negatively impact animal health and productivity. These fans are also almost silent, ensuring they don't cause noise stress in animals. They are highly economical, with low power consumption.

Q: What types of HVLS fans are available, and how do you choose the right size?

A: Vetromaster offers HVLS fans in various diameters, ranging from 3 to 7 meters. The choice of fan size depends on the room's parameters and the desired air circulation. Generally, larger fans are more efficient, covering a larger area.

Fans can be adjusted for speed and direction to ensure optimal performance.

Q: Can you tell us about fan control, especially automatic modes and THI?

A: Vetromaster employs a unique fan control system, which not only automates fan operation but also takes into account the Temperature and Humidity Index (THI). This index is a key factor in determining animal comfort. The system calculates THI and selects an operating mode that proactively prevents heat stress, addressing the cause rather than the consequence. You can also program the fans to operate at specific settings by time or day of the week. Manual control is available for those who prefer it.

Q: Do you offer calculations for specific facilities?

A: We recommend trying out our fans through a test drive program. We install a fan for 14 days so that companies can assess its efficiency before making a decision.

Q: What is the geographical reach of your company?

A: Currently, we have a strong presence in Russia, Belarus, Uzbekistan, and Kazakhstan. We have also expanded into the UAE market, with plans to serve the Gulf region. Our comprehensive services include delivery, installation, warranty, and maintenance. Our HVLS fans are low-maintenance and come with a warranty of up to 5 years, with a lifespan exceeding a decade.

In conclusion, Vetromaster's HVLS fans are a valuable tool in improving animal productivity and farm profitability by creating a comfortable and efficient microclimate in agricultural settings. With the added benefit of THI control, these fans are at the forefront of modern farming technology.

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SAUDI EXPERTS EXPLORE EXPERIENCE OF GANSU DESERT CONTROL RESEARCH INSTITUTE IN CHINA IN COMBATTING DESERTIFICATION

In a collaborative effort to combat desertification, the Food and Agriculture Organization of the United Nations (FAO) and the National Center of Vegetation Cover and Combating Desertification (NCVC) embarked on a study visit to the Gansu Desert Control Research Institute in China (GDCRI). This visit comes after an extensive online exchange capacity-building programme focused on land degradation control, forest management, rangeland preservation, and the establishment of national parks. The study visit aimed to gain practical insights and knowledge from the GDCRI expertise in tackling desertification and promoting sustainable land management practices.

Land degradation and desertification pose significant threats to ecosystems, biodiversity, and food security

worldwide. Recognizing the urgency of addressing these challenges, FAO and NCVC have been actively working together to enhance capacities in combating land degradation and promoting sustainable land management in Saudi Arabia.

The online exchange capacity building programme, organized by FAO and GDCRI, provided a platform for knowledge sharing and collaboration among global experts, researchers, and practitioners in the field. The programme focused on land degradation assessment methods and techniques, best practices in land degradation control, forest management practices and technologies, sustainable rangeland preservation methods, and the establishment and management of national parks among others.

Following the successful

online exchange programme, FAO organized a study tour to China in close collaboration with GDCRI to explore China's extensive experience, best practices and advanced technologies in combating desertification and reducing sand encroachment. Located in China, the Gansu Desert Control Research Centre is renowned for its pioneering work in desertification control, ecosystem restoration, sustainable land management and monitoring desertification. Fourteen participants, representing FAO, NCVC and non-governmental organizations (NGOs), gained valuable knowledge of innovative approaches in combating and monitoring desertification, which improved their technical skills and inspired them to implement pilot projects in their respective regions.

CERTHON AND DENSO: A NEW COOPERATION FOR THE MEA REGION

Certhon and DENSO are working together since 2020. Whilst Certhon has the horticultural knowledge and experience, DENSO brings their technical expertise and worldwide network to the table. It turns out to be the perfect mix. Both companies are happy to announce the official start of the commercial collaboration between Certhon and DENSO Sales Middle East & North Africa FZE. This addition to the collaboration the companies already have together is sharing expertise and networks in the MEA territory.

Certhon representatives Damion Schwarzkachel and Don Kester travelled to Dubai for the annual DENSO MEA distributors conference. During this conference, all distributors come together to discuss strategy and receive

updates. Don Kester provided insight in the collaboration between DENSO and Certhon, with a presentation. "This logical next step of the collaboration with DENSO gives us the possibility to go deeper into the business in this particular region", Don Kester, Business Development Manager at Certhon, explains. Both Certhon and DENSO are looking forward to bringing the best horticultural solutions to the Middle East and Africa. By this commercial cooperation strategy for DENSO Sales Middle East & North Africa FZE and their partners, a new

technology sector and business opportunity will be rolled out throughout the whole region with the technologies of Certhon. Commercial coordination will be approached from out of the regional HQ of DENSO in Dubai next to Certhon HQ in The Netherlands.



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Micro Vertical farms

MERISTEM ANNOUNCES NEXTGEN BIO-CAPSULE TECHNOLOGY™

Keeping microbes alive and vigorous is bringing big benefits to crops and farmers. Recently, Meristem Crop Performance® unveiled the next generation of their patented BIO-CAPSULE TECHNOLOGY™ delivery system. The reveal came in front of nearly 300 dealers attending Meristem's Breakthrough to Excellence Dealer/Partner event in Delavan, Wisconsin.

"Massive roots, more nutrients – farmers are seeing great results on the 3.1 million acres applied this season with REVLIN HOPPER THROTTLE™ powered by the BIO-CAPSULE microbial delivery system," said Mitch Eviston, Meristem's Founder and CEO as he held up the new BIO-CAPSULE. "With our next generation system, we will be ready to help farmers win on more than 8.5 million acres in 2024."

BIO-CAPSULE TECHNOLOGY (BCT) powers Meristem's REVLIN® HOPPER THROTTLE™, a full collection of multiple biological agronomic solutions safely packaged for convenient deployment at planting. The REVLIN HOPPER THROTTLE BIO-CAPSULEs are charged with Terrasym® and a powerful consortium of N-fixing microbes released at planting time into a unique ion encapsulated zinc-rich micronutrient blend. It's carried to the furrow in a talc/graphite seed fluency agent. In-field research has demonstrated up to 10 times the number of live microbes can be delivered through the planter box when compared to seed treatment or liquid starter.

John Gertz, Meristem's Chief Operating Officer said knowledge gained across those acres and farmers using the product ignited several distinct improvements to

the Bio-Capsule delivery system itself for the coming year. "With what we learned, we quickly improved the design and are currently building our inventory to meet the demand we know is coming in 2024." Gertz listed several key improvements:

- A larger pail provides positions for six potential BIO-CAPSULEs to carry more technology.
- Each BIO-CAPSULE is larger with more space for microbes to eliminate clumping, caking or sticking.
- More dispenser teeth mean easier material release.
- Self-locking nuts ensure BIO-CAPSULEs stay fixed in the lid.
- Larger, easier to push buttons improves comfort and convenience to release microbes.
- Larger robust pail with a clear pour side, metal handle and pour-assist grip.

KHALED BIN MOHAMED BIN ZAYED TOURS MARINE RESEARCH VESSEL JAYWUN

His Highness Sheikh Khaled bin Mohamed bin Zayed Al Nahyan, Crown Prince of Abu Dhabi and Chairman of the Abu Dhabi Executive Council, has visited Jaywun, the UAE's first marine research vessel of its kind, which was commissioned by the Environment Agency – Abu Dhabi (EAD).

During the visit, His Highness reviewed the vessel's cutting-edge research equipment and laboratories, and met with Emirati crew, marine

scientists and researchers who are conducting research as part of EAD's Ocean World Discovery project - which will monitor and assess marine biodiversity to address the effects of climate change, contribute to strengthening the UAE's marine science capabilities, and serve as a scientific platform to advance marine research locally and globally.

His Highness was accompanied by Her Excellency Razan Khalifa Al Mubarak, Managing Director of EAD; and Her Excellency Dr Shaikha Salem Al Dhaheri, Secretary General of EAD.

Named after one of the most valuable pearls found in the Arabian Gulf, Jaywun is the most advanced research vessel in the Middle East. The

50-metre craft will operate in the UAE's territorial waters and allow EAD to study marine environments and fisheries in waters deeper than 10 metres. The vessel will berth approximately 30 people and features a remotely operated submarine vehicle as well as six fully equipped laboratories to study marine samples.

Her Excellency Dr Shaikha Salem Al Dhaheri, Secretary General of EAD, said: "Jaywun is testament to the commitment of Abu Dhabi's leadership to supporting science in the study of oceans, the sustainability of marine environments, and the preservation of healthy aquatic ecosystems. It will also contribute to understanding the impacts of climate change, in order to develop appropriate solutions to address this pressing challenge."



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THE AVR PYTHON: THE NEW INDISPENSABLE, FLEXIBLE LINK IN YOUR CROP HANDLING LINE

AVR continues to invest in the development and modernization of a full range of equipment for potato farming, including storage and crop handling machinery.

The AVR Python is AVR's latest generation of twin conveyor belts. This twin conveyor offers a high capacity and is extremely potato-friendly thanks to features such as the moving raised edges. Moreover, the AVR Python is easily transportable and very easy to operate.

Fast, product-friendly, flexible and easy to control: all of this makes the Python your ideal partner during the crop handling process.

One of the typifying features of the AVR twin conveyor is a stable and robust frame that also offers a high degree of

maneuverability.

The machine has been designed to allow both conveyors to be positioned at all possible angles relative to each other. Thanks to the independent height adjustment of the product intake and discharge outlets and the electronic length adjustment, the Python can be installed in every position on the line.

A tandem construction with four casters and the 360° rotatable main wheels allow the machine to be moved by only one person.

The AVR twin conveyors are designed to relieve the user's work. The extensive features they are equipped with as a standard include a frequency converter, electronic length adjustment, and a belt control system that makes

readjustments completely unnecessary. Additionally, the installation of AVR Line Control software allows the Python to communicate with all other AVR machines in the line.

Strengths

- An extensive package of standard features, including a frequency controller, electrically powered intake/discharge controls, automatic conveyor alignment, etc.
- Unprecedented flexibility thanks to the independent height adjustment of the intake and discharge outlets, length adjustment, large swivel angle, etc.
- A tandem wheel construction for sturdy and stable positioning
- Perfect synchronization of conveyor belt speed for both belts.

NKK INVESTMENTS AND URBANKISAAN COLLABORATE TO TRANSFORM AGRICULTURE IN OMAN, UAE & SAUDI

Nailesh Kanaksi Khimji (NKK) Investments, a visionary company in the AgriTech, Green Hydrogen, and Sustainability sectors, has announced a strategic partnership with UrbanKisaan, an acclaimed Agri-tech startup from United States, with its research center in India. This alliance is set to transform hydroponic farming practices in Oman, UAE, and Saudi Arabia.

Under the umbrella of this joint-venture, NKK Investments aims to introduce UrbanKisaan's advanced hydroponic and vertical farming technology to Oman. The focal point of this venture is to popularize UrbanKisaan's innovative farming techniques, rendering them more affordable and accessible to Omani farmers. By harnessing the power of hydroponics and vertical farming, the joint-venture seeks to empower local agriculturalists to cultivate higher yields with significantly fewer

resources, consequently enabling them to invest wisely in the future of farming.

A key facet of this collaboration lies in the intent to extend UrbanKisaan's revolutionary technology across Oman's borders, to benefit farmers in the UAE and Saudi Arabia. This technology, proven to be environmentally conscious and resource-efficient, allows crops to flourish with minimal water and land utilization in comparison to conventional methods. The result is not only a reduction in the carbon footprint but also the production of highly nutritious crops that contribute to a healthier populace.

The core mission of this partnership is to equip Omani farmers with state-of-the-art hydroponic and vertical farming technology to allow them to



grow more produce with far fewer costs. By offering access to cutting-edge solutions, the collaboration aims to amplify agricultural output while keeping investments within reach.

By revolutionizing traditional farming practices, NKK Investments and UrbanKisaan are steering Oman towards a greener and more self-sustaining agricultural future, fostering positive impacts on both the environment and the local community.



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ABU DHABI AGRICULTURE AND FOOD SAFETY AUTHORITY STRENGTHENS UAE FODDER MARKET SUPPLY CHAINS

Abu Dhabi Agriculture and Food Safety Authority (ADAFSA) has announced that Al Dahra Agriculture and Elite Agro Holding have joined the Fodder Market agreements. The agreements are designed to ensure the provision of high-quality grass and concentrated fodder to the UAE's livestock sector.

The agreements were signed by His Excellency Saeed Al Bahri Al Ameri, Director General of Abu Dhabi Agriculture and Food Safety Authority, Arnoud van den Berg, Group Chief Executive

Officer of Al Dahra Agriculture, and Dr Abdul Moneim Al Marzouqi, Chief Executive Officer and Managing Director of Elite Agro Holding.

Al Dahra Agriculture is a leading company in the cultivation, production, and supply of animal fodder and food crops, with land bank in excess of 400,000 acres of owned and leased lands across 20 countries, and 15 feed factories producing more than 40 feed products. By joining the Fodder Market agreement, Al Dahra Agriculture will supply animal feed on a large scale

through 15 outlets within the Fodder Market and aim to meet the requirements of the livestock sector in various emirates.

Elite Agro Holding, a local agricultural investment entity, operates four farms within the UAE and multiple farms worldwide, producing fodder, vegetables and fruits. The entity's participation in the Fodder Market agreement will see Elite Agro Holding provide an array of high-quality animal feed through four dedicated outlets within the Fodder Market.

DISCOVER THE COMPLETE SEED TO FOOD CHAIN AT VIV MEA AND HORTI AGRI NEXT MEA 2023 IN ABU DHABI

The animal farming, agricultural, and horticultural sectors are gearing up for transformation at an unprecedented pace. Against this backdrop, VIV MEA 2023 and Horti Agri Next MEA 2023 (HAN MEA) are poised to emerge as pivotal events within the Abu Dhabi Agriculture Food and Security Week. Scheduled for November 20-22, 2023, at the ADNEC Venue in Abu Dhabi, these co-located events aim to revolutionize agriculture across the Middle East and Northern Africa by offering a platform for professionals, enthusiasts, and industry leaders to connect, learn, and thrive.

Animal Protein Production meets Cultivation: A Fusion of Possibilities

The co-location of VIV MEA 2023 and HAN MEA 2023 offers a unique opportunity to explore the entire agribusiness industry's spectrum. These events emphasize the interconnectedness of animal production, precision farming, rural cultivation, and advanced horticultural techniques. By showcasing how advancements in

one sector can catalyze innovations across the entire food production supply chain, the two trade shows hold particular significance in a region striving to enhance food self-sufficiency.

A Showcase of Innovation: VIV MEA 2023

VIV MEA 2023 serves as a platform for agricultural innovation, with a specific focus on the animal livestock value chain. This event highlights cutting-edge technologies and solutions, ranging from automated processes that streamline production to sustainable practices that contribute to a healthier and more sustainable future.

Cultivating Connections: Horti Agri Next MEA 2023

The first edition of HAN MEA 2023 offers a unique opportunity for attendees to delve into the world of advanced horticulture. The event explores precision growing, smart irrigation, vertical farming, and more, fostering collaborative



connections between researchers, growers, and technology providers to drive the horticultural industry forward.

Both events feature extensive speaker and expert programs. Industry thought leaders, researchers, and pioneers will share insights through seminars, workshops, and panel discussions. Notable speakers include Henry Gordon-Smith, CEO of Agritecture, moderating AgritectureXchange, a panel discussion series addressing agricultural hot topics in the region. Additionally, experts from Dutch Green House Delta, Hub Orange, and Wageningen University will provide invaluable insights.



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THE SUSTAINABLE FUTURE OF VERTICAL FARMING IS POWERED BY DANFOSS, DELIVERING SAVINGS AND EFFICIENCY IN HVAC SYSTEMS

In the dry landscape, such as the GCC region, a solution lies in Controlled Environment Agriculture (CEA) and vertical farming. Danfoss, as a silver sponsor at GVFS 2023, presented its solutions for higher energy efficiency and better performance in HVAC systems.

CEA and vertical farms create controlled ecosystems where light spectrum, temperature, humidity, airflow, CO₂ levels, and nutrients are meticulously balanced to optimize crop yield. This precision is key to achieving maximum output at minimal cost, a vital factor for competing with imported goods and securing profitability.

Energy consumption is a significant concern in indoor farming, with lighting and HVAC systems being major contributors to operational costs. While strides have been made in lighting efficiency, HVAC systems' energy-saving potential has been overlooked.

Designing an HVAC system for indoor farming is complex. Heat loads fluctuate throughout the day, night, and crop growth cycles. De-humidification is also critical.

An efficiently designed HVAC system, leveraging energy-saving technologies, can reduce energy consumption by up to 30%. It not only cuts costs but ensures consistent growth conditions for crops.

Tremendous resources in the CEA industry are spent to research crops' optimal growth conditions. Often, research is done in smaller research facilities, and farms are facing the

unable to reach the optimal conditions when they scale to commercial production, resulting in a lower production output than expected.

Danfoss, with 90 years of expertise in energy-efficient climate solutions, and strong presence in the MENA region, is ready to

support the GCC's journey towards sustainable food supplies. By applying its expertise and technologies to the CEA industry, Danfoss contributes to the region's food security and sustainability efforts.

For more information, visit www.danfoss.com

Danfoss participated at the Global Vertical Farming Show as a silver sponsor



The team presented Danfoss vertical farming solutions at a dedicated booth



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Central Cooling: Chiller / Heat Recovery



- High efficiency variable load compressors
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UP TO
30% savings

Air Handling Unit



- High efficiency axial fans
- High efficient motor
- Variable frequency drives

UP TO
25% savings

Network Balancing



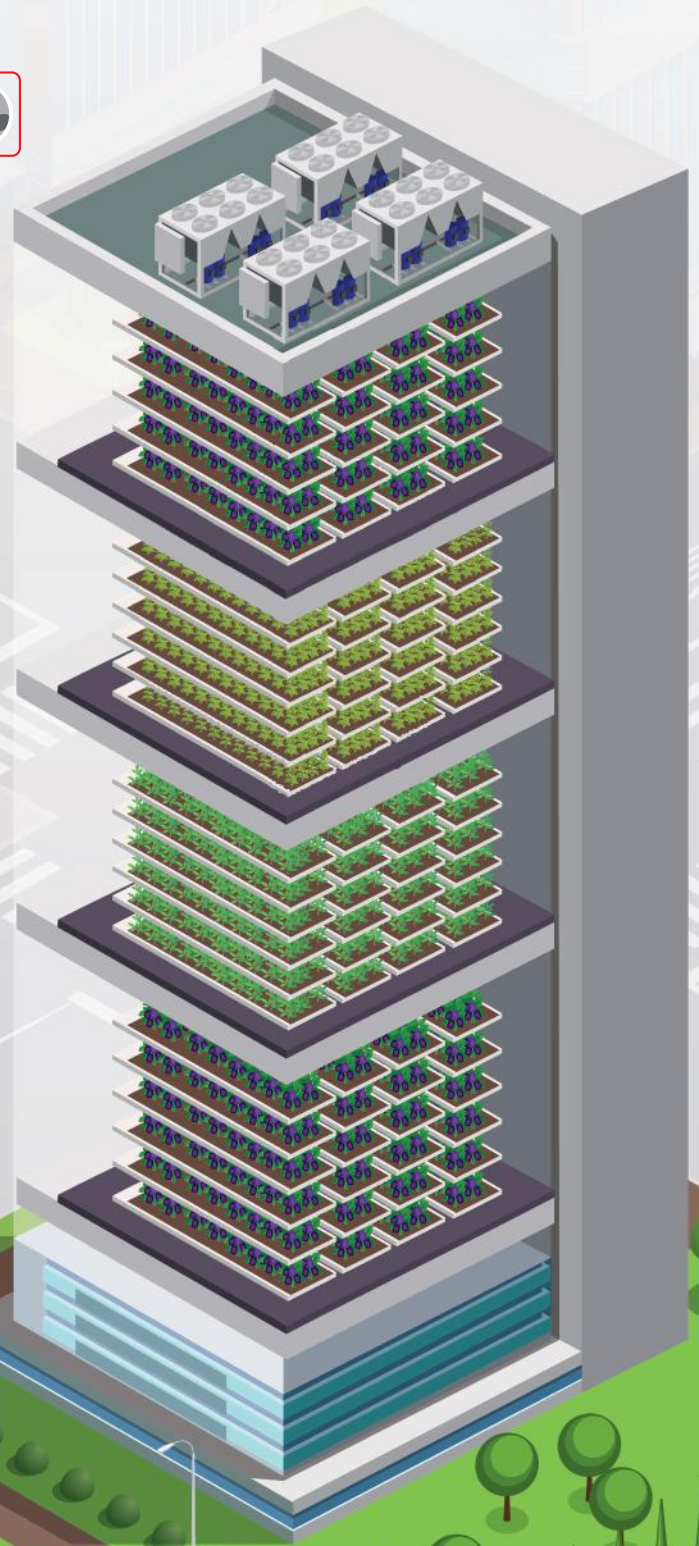
- Variable frequency drives for pumps
- Network pressure balancing and flow control

UP TO
10% savings

Danfoss Supports



- Heat Load Calculations
- Energy Efficiency Simulations
- End-to-end application expertise
- Integrated Solutions



IEEE SIGHT AUS CHAPTER LAUNCHES HYDROPONIC FARMING ON CAMPUS

American University of Sharjah (AUS) has launched a sustainable hydroponic farming project that enables students to explore advancements in agricultural technology and benefit from the farm's nutritious food.

Called Harvesting Hope, the project was initiated by the AUS student chapter of the Institute of Electrical and Electronics Engineers Special Interest Group on Humanitarian Technology (IEEE SIGHT) in collaboration with The Big Heart Educational Center in Sharjah —an educational institute that offer pro-active educational solutions aimed at empowering underserved students from a cross-section of

nationalities in the UAE, by offering a first of a kind program which focuses on illiteracy.

"The significance of hydroponics lies in the ability to cultivate plants in nutrient-rich water solutions, eliminating the need for soil. The establishment of hydroponic systems on the AUS campus enables workshops that educate students on optimal plant growth practices, covering topics such as system assembly, potential hydrogen testing, light-emitting diode and water pump configurations and nutrient solution management. The resulting produce will serve as both a hands-on learning tool and a source of fresh, nutritious

vegetables, enhancing daily meals," said Sara Walid, a senior mechanical engineering student, Chair of IEEE SIGHT and student project leader.

Having received funding from the IEEE Humanitarian Technologies Best Practices and Projects Committee, the project tracks its progress through regular assessments and engaging Kahoot quizzes, ensuring students at The Big Heart Educational Center grasp and apply the presented concepts effectively.

Harvesting Hope aligns with the UAE Net Zero by 2050 strategic initiative and is in line with the objectives of the upcoming COP28.





COCPEAT LOW -EC

LOW - EC Washed Grade	<0.5 mS/cm (1:1.5 Method)
PH	5.5 -6.8 Range(1:1.5 Method)
Particle Size	1-6 mm range
Block Size	30 x 30 x 15(+/- 2 cm)
Weight	5 Kg (+/-200gms)
Expansion Volume	16-17 Litres per kg of compressed cocopeat
Roots Growth quality	Avg. 4 cm/ seed in a period of 4 days under 26 Degree (C)

5 KG BLOCKS

BEST-SELLER



GLOBALAGRICO COCOPEAT BLOCKS ARE PREFERRED BY



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HORTICULTURE FARMS



ORGANIC FERTIZER &
POTTING SOIL MANUFACTURERS

As a potting mix:

Coir pith blocks can be used as a potting medium. It can be mixed with required fertilizers and nutrients according to the type of plant.

For mushroom growers:

Coir pith blocks are being used by a lot of mushroom growers around the world for the large-scale production of edible mushrooms.

As a soil supplement:

Re-hydrated coir block mixed with soil improves water holding capacity and aeration.

For germinating seeds:

Coir dust in starter containers speeds up germination and profuse rooting of the seedlings.

For tissue culture plants:

Wetted coir brick in poly bags encourages the initial growth phase of tissue cultured plants and grafted seedlings.

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BIOGROW: “SUBSTRATES CREATED BY GROWERS FOR GROWERS”

French farmers at the service of growers all over the world



Today, Biogrow is one of the leading producers of cocopeat substrates. Farmers across the world have been using our organic substrates for over 40 years. SARL VILA - a company belonging to French fruit and vegetable growers in the South of France - was at the origin of the brand Biogrow.

In the south of France, where our head office is located, our primary activity for decades has been growing fruit and vegetables. It's thanks to this long-established experience that we've been able to develop our substrate range over the last 25 years. Our production sites situated in India, Sri Lanka, Brazil and the Philippines, produce ecological and efficient substrates for soilless culture systems across the world. Our presence in Europe, the Americas and Asia enables us to work closely with growers from all over the world in order to supply them with efficient substrate solutions whatever their growing practice or individual requirements.

Biotechnology – the engine of our development

Our substrate producers have been enriched by the practice of

hydroponic culture and the use of organic substrates. On their own production sites in Brazil, India, Sri Lanka and the Philippines they are developing efficient and completely renewable substrates in collaboration with biotechnology researchers. These substrates satisfy consumers' growing requirements for eco-responsibility since they are the cleanest and most renewable substrates to be found in the market.

Demanding quality approach

We create innovative substrates derived from biotechnology that comply with very demanding quality criteria. Rigorous and standardized quality controls are applied by Biogrow to ensure that the substrates deliver the same level of performance in all the sites. From production to shipping through to planting, samples are regularly collected by our Quality Control inspectors, and then transferred to the laboratory of each site for analysis. Humidity levels, levels of conductivity of materials, and the conformity of each order are checked.

Sustainability

The world is changing and consumers are becoming more and more demanding with regard to ecologically responsible products that are eco-friendly, sustainable, pesticide free, organic, etc. It's a big challenge for growers to change their ways of working and becoming sustainable can be a synonym of “big investment”. That being said, in spite of the current challenges it's a really exciting time to be a part of the substrates industry and see all the positive changes that are happening, especially within the hydroponics sector, which is what we specialize in.

Growers all over the world are now looking for solutions to help them respond to this growing demand for planetfriendly food and that's where we come in. Biogrow produces substrates that come from a sustainable resource and respect the environment. And with a number of new and exciting projects in the pipeline the future is looking bright.

For more information, visit
www.bio-grow.com

GENIUS: DISCOVER THE FERTILIZERS THAT MAKE PLANTS CLEVER IN NUTRIENT ABSORPTION

Genius series of fertilizers contain water soluble macronutrients (N, P, K) combined with trace elements and an organic agent. The organic agent contained in Genius helps in the chelation of trace elements and the better absorption of macronutrients. Genius fertilizers are made of high purity raw materials, which do not contain impurities and heavy metals. When diluted in water, they are perfectly dissolved and they do not create sediment in the tank. They are available in various N-P-K formulations, in order to cover the nutritional needs of all crops and to offer growers the possibility to choose the most suitable fertilizer for their crop.

Benefits of Genius fertilizers:

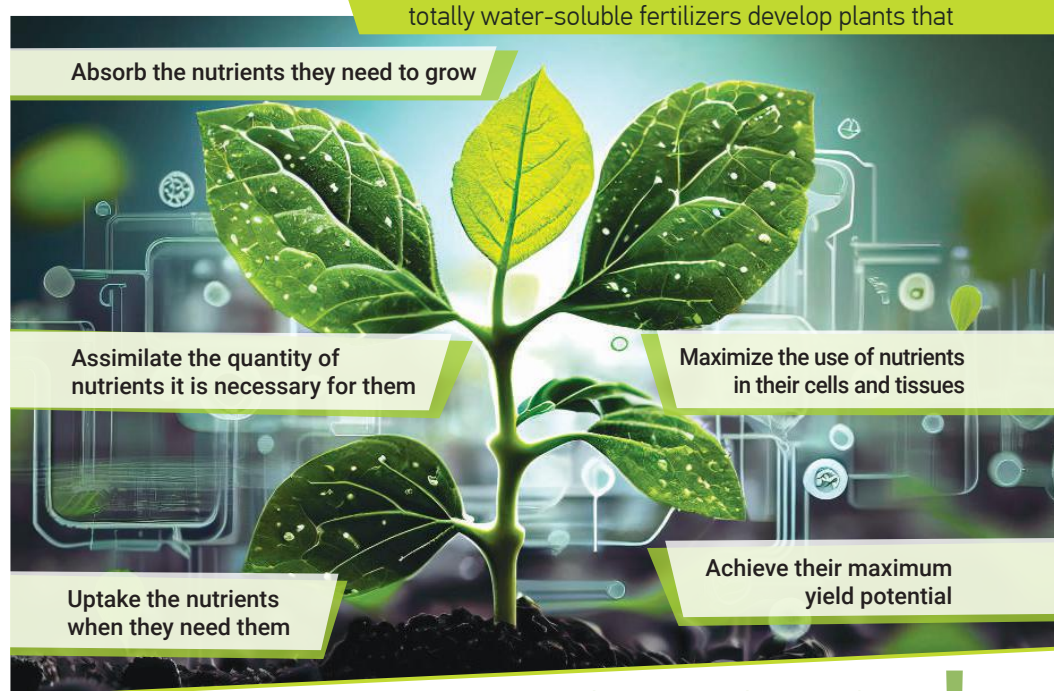
- They give plants exactly the nutrients they need to grow
- Help each plant assimilate the right quantity of nutrients necessary for it, on the best time
- Maximize the use of nutrients in plant cells and tissues
- Achieve the maximum yield potential

For more information, visit
www.humofert.gr

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19-19-19
5-10-40
30-10-10
6-6-43
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Peat Moss and Peat Substrates for the professional horticulture

For more than 100 years the Floragard Vertriebs-GmbH in Oldenburg has successfully been developing, producing and distributing products for the professional horticulture. Since then we let this knowledge flow into our hobby potting soils. Because of that we nowadays refer to innovative premium recipes with a high standard from which the trade and hobby gardeners benefit equally. Regardless of whether indoors or outdoors, in a bed, on the balcony, in

the greenhouse or in a winter garden, whether magnificent blossoms or delicious harvest of vegetables and herbs – when using Floragard you will always find the ideal base for your project.

Floragard employees are horticultural professionals and put all their knowledge at the service of their clients. Our know-how is fully at the service of your growth company thanks to the Premium substrates from Floragard.



Our professional customers demand high-quality service and reliable product quality at the highest level. Among others, the consistent high quality is monitored by the Gütegemeinschaft Substrate für Pflanzen e. V. (Quality Assurance Association Growing Media for Plant Cultivation). The umbrella organisation is the RAL Deutsche Institut für Gütesicherung und Kennzeichnung (German Institute for Quality Assurance and Certification e. V.). Here the institute intensively investigates substrates for plants and continually studies the substrates' chemical, physical and biological properties. A company is only awarded the RAL seal of approval subsequent to the successfully concluded approval procedure, and following this, it is constantly monitored.

In this regard, the quality assurance does not only include the quality control of the finished substrates, but also continually inspects the basic materials and additives received. The consistent high quality provides a foundation for crop safety and the commercial success of your company – secured by Floragard and the Gütegemeinschaft Substrate für Pflanzen e. V. (Quality Assurance Association Growing Media for Plant Cultivation) under the umbrella of the RAL.

Our high-grade range of substrates satisfies virtually every customer's needs. In the meantime, however, the requirements and technical circumstances of numerous crops are frequently just as special and unique as the great variety found in the horticultural industry. For this reason, Floragard offers mutual cooperation with our substrate field experts and the Technical Department of Horticulture. The purpose is to work on crops, growing methods, technical equipment and climatic conditions of the horticultural business and to develop individually tailored special substrates. To determine the optimal recipe for your substrates with regard to the composition, structure, fertilization and pH-value, there are numerous possibilities.

Our products

Peat mixture for propagation: Of German origin:

- **Floradur® Seed S:** with good water retention capacity, it is a special blend of white and black peat with a superfine structure for vegetable seedling trays.
- **Floradur® B Cutting:** special mixture of white, black peat and perlite with a superfine structure for universal sticking, with high aeration capacity; also for sowing.

- **Floradur® A Block:** special mixture of black and white peat with a fine structure for pressed vegetable clods

Of Baltic origin:

- **Florabalt® Seed 2:** special mixture of white and black peat with a fine structure and water retention capacity; ideal for summer cuttings.
- **Florabalt® Seed SB:** special mixture of white and black peat with a superfine struc-

ture for vegetable seedling trays with a high-water retention capacity

- **Florabalt® B Cutting:** special mixture of white, black and perlite peat with a superfine structure for universal transplanting with a high air retention capacity, also suitable for sowing

- **Florabalt® A Block:** a special mixture of black and white peat with a fine structure for pressed vegetable clods



Note: we have more than 4,000 compositions in our database, which illustrate the long experience of Floragard experts and the need to offer customers the most suitable solution for their particular case. Our goal is to develop a perfect product adapted to the particular requirements of our customer.

Peat moss potting substrate for horticultural production

Of German origin

- **Floradur® B Pot Medium:** Germain potting substrate for small pots starting at from 7 to 9 cm; for bedding and balcony plants
- **Floradur® B Pot Medium Coarse:** Germain potting substrate for medium-size pots of approx. 8 - 11 cm; for bedding and balcony plants
- **Floradur® B Pot Coarse:** Germain potting substrate for large pots starting at approx. 12 cm; for bedding and balcony plants, for plants sensitive to salinity

Of Baltic origin

- **Florabalt® B Pot Medium Coarse:** Baltic potting substrate for medium-sized pots of approx. 8 - 11 cm
- **Florabalt® B Pot Coarse:** Baltic potting substrate for large pots starting at approx. 12 cm; for bedding and balcony plants, for plants sensitive to salinity

Note: it is possible to add to these products perlite, clay or other preferred minerals. There are also mixes available for potting specific crops.

Potting mixtures for perennials and plants in nursery containers.

Of German origin

- **Floradur® Pot Container:** special mixture for cover plants, shrubs and conifers: pots > 3 L
- **Floradur® Pot Perennial:** special mixture for perennial plants in pot; for spring and summer repotting (Pots > 12 cm).

Of Baltic origin:

- **Florabalt® Pot Container:** Special mix for container based on Baltic blonde peat for nurseries.
- **Florabalt® Pot Anthurium:** special mixture for Anthurium repotting
- **Florabalt® Pot Bromeliad:** special mixture for Bromeliads repotting

Note: it is possible to add to these products perlite, clay or other preferred minerals. They are also available mixtures for potting specific crops. Our goal is to develop a perfect product adapted to the particular requirements of our customer.

Mixtures suitable for organic farming of German origin:

Seedling / transplanting

- **Floradur® Block Bio:** special mixture for pressed clods and for growing seedlings
- **Floradur® Pot Herbs Bio:** special mixture for growing aromatic potted plants, tomatoes, cucumbers, peppers and other potted vegetables (7-13 cm buckets).

Potting / Container

- **Floradur® Pot Bio:** special mixture for horticultural plants and perennials in pots; for repotting in pots or buckets of 7-13 cm.
 - **Floradur® pot Container Bio:** special mixture for horticultural plants for repotting in 12-14 cm pots. (Pots > 14 cm)
- Peat mixture for the cultivation of small fruits:**

Strawberries and raspberries

- **Floradur® B Cutting:** special mixture of white, black peat and perlite, with a superfine structure for universal transplanting with a high air retention capacity, also suitable for sowing
- **Floradur® Pot Medium-Coarse Berries:** special mixture of white, black peat and

perlite for medium coarse potting, pots 8-13 cm

- **Floradur® Pot Coarse Berries:** Potting peat substrate for containers, boxes and ridge planting.
- **Floradur® Pot Container Berries:** extra coarse-fibrous peat substrates for containers, boxes and ridge planting

Blueberries

- **Floradur® Pot Blueberries:** Potting peat moss substrate for containers > 1L
- **Floradur® Pot Container Blueberries:** Extra coarse-fibrous peat moss substrate for large containers > 3L

Peat specialities

- **Hansatorf® 0-40 mm:** Baltic Blond Peat for soil improvement and growing on teens.
- **Florabalt® 0-5 mm:** finely sieved blonde peat of Baltic origin for the manufacture of fine growing substrate and pot
- **Florabalt® 0-7 mm:** finely sieved blonde peat of Baltic origin for the manufacture of fine growing substrate and pot
- **Florabalt® 7-20 mm:** medium-sieved Baltic blond peat for medium-sized and pot substrate
- **Florabalt® 10-20 mm:** medium-sieved Baltic blond peat for medium-sized and pot substrate
- **Florabalt® 10-30 mm:** coarsely sifted blond peat of Baltic origin for the manufacture of coarse structure growing substrate and pot
- **Florabalt® 20-40 mm:** coarsely sifted blond peat of Baltic origin for the manufacture of coarse structure growing substrate and pot

For more information:

sassi@floragard.de
+49 152 2267 2961
www.floragard.de

LAMBERT PEAT MOSS INC.:

95 YEARS OF EXCELLENCE IN PEAT-BASED HORTICULTURAL SOLUTIONS

For 95 years, Lambert Peat Moss Inc. has been offering a wide range of peat-based products from various grade of Canadian Sphagnum Peat moss to one of our assorted ready to use professional mixes. Lambert Peat Moss has been dedicated to meet the special needs of professional horticulturists, nursery growers, greenhouse growers, vegetable producers or amateurs.

Because we want to meet and exceed the expectations of our customers, we make sure we choose only high-quality ingredients after a rigorous selection on the bench test by our quality control department. By selecting the best available components, it's a good start to produce "no worries" products for our customers!

In addition of our regular

product line, Lambert Peat Moss also offers commercial growers its exclusive EcoPeatPlus[®], a highly fibrous natural wood fiber collected from our peat bogs. Depending on the characteristics you're looking for, choose from our EcoPeatPlus[®] as a stand-alone product or from our complete line of ready-to-use EcoPeatPlus[®] Mixes (EPM). If you want exceptional balance of air space and water retention capacity, with superior structure longevity and minimal shrinkage, EPM mixes will be the best products to look for. The different formulations are suitable either for interior or exterior production.

With our special way of screening and then blending our professional peat grade with those selected

components, we can achieve a unique consistency for the professional growers. Lambert wants to make sure that your mix is always exactly the same, batch after batch, year after year. That consistency allows you to keep the same formula on site so you can produce successful crop. The best way to solve a problem is to make sure it will not appear!

That's why quality is our top priority. Our quality control department performs continuous sampling and analysis during the production of your mix. Each sample is analyzed for pH at three different incubation stages and the same for the electrical conductivity. Particle size distribution, moisture content and yield complete the criteria we constantly evaluate. We make sure that each cubic foot of your



mix is in total conformity with all our specifications. If one of these points is not completely encountered, it will not be released for delivery by the laboratory staff. Only top-of-quality product will leave our yard!

However, as each nursery and greenhouse experiences various environment and each season are different, some “problem” or specific conditions can occur. Again, you can rely on Lambert’s team to help you resolve your issues. By customizing your mix for a specific rate of CRF formulation, incorporating a biofungicide or producing a specific pH order, to name a few, it makes your production easier. We own a complete on-site lab so we can perform soil analysis for you at different stages of your crop to see the evolution of the situation and target what’s going on.

Wherever you are located, one of our sales representative



team isn’t far away. With most of them experienced growers or nurseries owners themselves, in the past, they will be able to listen about what you’ve been experiencing and help you gather information to find the perfect solution and resolve any issue.

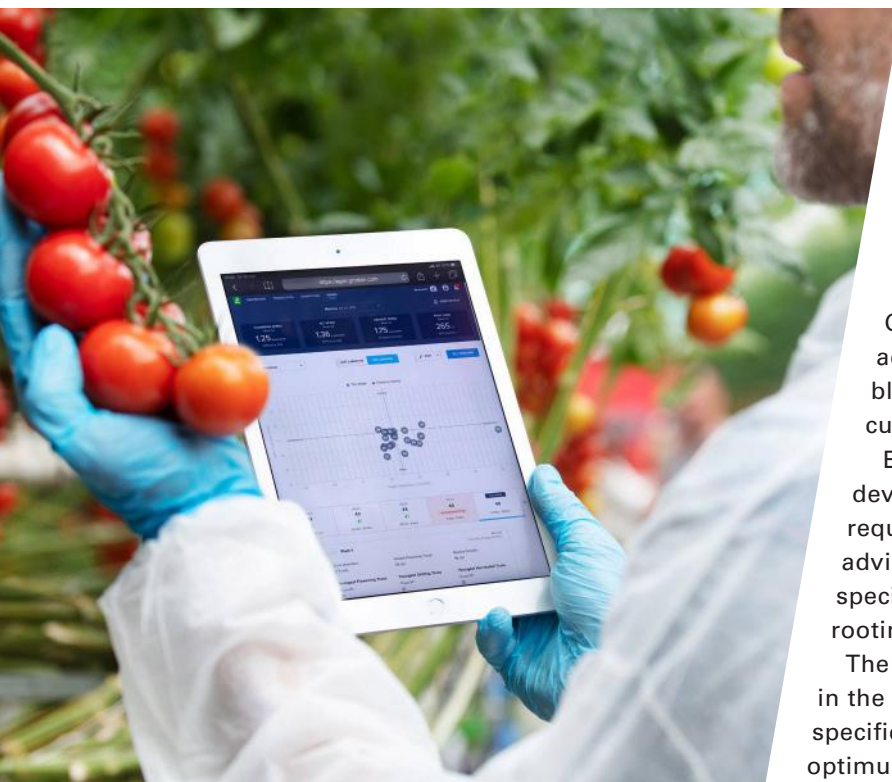
Moreover, Lambert Peat Moss Inc. has developed a large efficient and versatile distribution network ready to make the impossible to deliver the product at your door in an incomparable timeframe. The

constant commitment to improve and optimize its customer service allows Lambert Peat Moss Inc. to adapt quickly to the requirements of its customers. The skilled workforce and dedication of its staff ensure that it remains competitive, at the cutting edge of the technology and at the forefront of markets by offering incomparable quality products.

For more information, visit
www.lambertpeatmoss.com



THE GRODAN 6-PHASE MODEL



Growers' needs for structured cultivation information are continually increasing due to the improved insights into cultivation, development of new cultivation systems and the continuing increases in the scale of horticultural operations.

Besides innovative stone wool growing media, Grodan offers its customers tailored cultivation advice through the 6-phase advice model, a blueprint for optimal crop results during both each cultivation phase and the entire cultivation period.

Each phase is characterized by a specific development of the crop that imposes specific requirements in that phase. Consequently, the advice for each phase needs to be tailored to the specific stage and to take into account the crop and rooting climate.

The Grodan 6-phase model not only assists growers in the selection of the appropriate substrate slab for a specific crop, but also helps them to determine the optimum watering strategy for the specific type of slab in each cultivation phase. The model can also assist in the determination of schedules for the plant load, temperature regimes, fertilization schedules, and CO₂ and lighting levels.

To further enhance the 6-phase model service Grodan launched a series of User Instruction Videos, to enrich and visualize the advice provided. In total seven videos have been developed, which cover related topics.

The videos are available via Grodan YouTube channel.

Interested to learn more about the 6-phase model and read advice based on your crop and slab type? Just download the 6-phase model brochures for you.



SCAN ME

For more information, visit
www.grodan.com

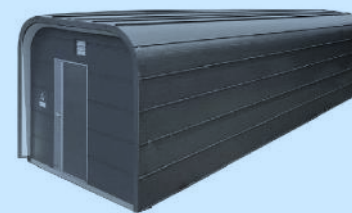




QIECO AGRO SIGNS MOU WITH DREAMFARM CO LTD. KOREA



Smart Farm Technology



Future Agriculture Smart Farm New Technology

QIECO Agro took a significant step towards advancing agriculture practices and bolstering food security with the signing of Memorandum of Understanding (MoU) with Dream Farm Co Ltd., a distinguished smart farm manufacturing and agriculture product Distribution Company based in Korea. The MoU Signing ceremony was held at the Dream Farm Co Ltd. Headquarter in the Republic of Korea. Solidifying a collaboration effort to promote innovative and sustainable agriculture solutions within the GCC.

The MoU was formally signed by Mr. Nouman Butt, Commercial Manager of QIECO AGRO, and Mr. Park Hyang Jin, CEO of Dream Farm Co Ltd. The signing ceremony was graced by the presence of esteemed witnesses, including M. Kang Hyeon Chul, Vice president of Dream Farm Co Ltd. Ms. Song Ulim, Mr. Kim SooKeun, and Mr. Moiz Ahmed General Manager QIECO AGRO.

Dream Farm is a smart -farm manufacturing company and an agriculture product distributor Dream Farm smart farm cubes is an indoor vertical-hydroponic farm system that is not affected or changes by the surrounding environment. New Eco-friendly farming method develop by Dream Farm sustainable crop system suited for GCC Climate.

Producing clean and safe yield free from pollution and pesticides inside the farm to cultivate sustainably.

Dream Farm contributes to increasing the productivity of farms by applying ICT (Information and Communication technology) it is an agricultural system that remotely automates agriculture by applying ICT to green house, and livestock houses.

We can control the integrated facilities with our mobile phone anytime anywhere.

The facilities are LED Lighting, water supplier, Ventilation, and Air & heating system.

Dream farm's Business Model

- LED Smart-farm cube, Mixed smart-farm cube, Day-lighting smart-farm cube and Solar Panels smart cube.

- Manufacturing smart farm Development and production

- Smart farm Solar Cube

Next generation smart farm solar cubes using solar power. Where Electricity is not supplied solar panels can be installed, an Eco-friendly energy. Will be able to installed and operate in remote mountainous areas and island.

- + Sales
- + Distribution
- + Building & Construction
- + Agricultural research & Development
- ✓ Cost reduction, market development,
- High -Quality food, reasonable price
- ✓ OVER 100 types of crops possible---
- ✓ Organic, Leaf Vegetables, Herbs, sprouts, fruits and Flowers

Anyone can easily farm anytime, anywhere

Smart farm cube is a smart farm agricultural facility developed by Dream Farm Co. LTD. Republic Korea.

It Is a smart farm model that has overcome the practical limitations of smart farms such as accessibility and practicality. Because it artificially controls environmental conditions such as light, temperature, and humidity inside the facility that are blocked from the outside, continuous crop cultivation is possible regardless of season and place.

Dream Farm Co., Ltd started in 2012 with concerns about agriculture which was in crisis due to global climate warming and the aging rural population.

To improve the agricultural environment, Dream Farm developed smart farm cubes through the supply of seeding, cultivation research, farm education, and securing distribution. it goes through all the processes until the farmhouse is settled stably. It also supplies healthy crops to the market and secures stable farm sales. Through this process, we aim to create the right agricultural ecosystem that coexists, it leads the agriculture market where farmers, consumers, and companies are all satisfied.

Please contact QIECO AGRO at moiz.ahmed@qiecoqatar.com for further details

WANGARA HORTICULTURAL LAUNCHES REBRAND AS GROWINNOVATE

You may know us as Wangara Horticultural, or WHS Australia, the trusted supplier of high-quality Easy-Fill™ bags to the MENA region for over 25 years. It is a name that has served us well, and built the foundation for our brand.

There comes a time for a thriving global company to match its mission and future vision to a name and logo that reflect their values. Over the past year, we have been sowing seeds of our own, behind the scenes, and working away at the next evolution of our business. Now, we are excited to announce the launch of our new look and company brand.

Welcome to Growinnovate

Growinnovate is the exciting next step in our company's journey. The new name elevates our business, taking a holistic view of our company's operations, while at the same time creating a powerful, eye-catching difference in the market. It aligns the innovation, quality, and service that our loyal and valued customers know us for with a bold new direction.

Owner and company director Rick Pares says: "We worked with a leading digital branding agency to create a new look and name that combines our mission and vision in one. We empower our customers' growth, while delivering innovative solutions to the industry. The name Growinnovate strikes that balance perfectly."

Along with a new company name, you will notice a distinct new brand mark.

"Our new brand brings together the key elements of what Growinnovate represents: our expertise in

horticulture, our global reputation, and our culture of innovation and focused approach to developing new products," says Pares.

Discover GrowinBag™: The original and the best

The original and revolutionary growbag, previously known as Easy-Fill™, is now presented under the new name GrowinBag™. This name allows our customers to easily identify our quality product, while having the peace of mind, that they are securing authentic Growinnovate products.

Driving the industry forward

Standing alone as leaders in the field, Growinnovate remains the #1 choice for quality, eco-friendly grow bags, delivering innovative horticulture solutions that are designed to enhance plant health and boost growth, year-round.

We are proud to bring our new brand, Growinnovate, to the world, and are excited for you to join us in the next step of our journey.

**GROW
INNOVATE**



A NEW BRAND. A NEW LOOK. THE SAME MANAGEMENT TEAM.



GROWING
A GREENER
TOMORROW

While our company name and brand has changed, our exceptional management team has not.

You receive the same unrivalled knowledge, passion, and business acumen, built on a foundation of unwavering values and unrivalled commitment to customer service.

We would like to take the opportunity to introduce the people behind the company, that our customers and clients have come to know and trust over the years.



Geoff Stowe

Mr Geoff Stowe, Owner and Director of Growinnovate has been guiding the business through its global expansion, he plays a key part in the knowledge and culture transfer inherent in the new brand.

With family roots in the Swan Valley wine region of Western Australia, Geoff has been involved in the agriculture, horticulture, and tourism industries. This has enabled him to branch out beyond Growinnovate, holding a number of commercial interests in adjacent industries.

Horticultural innovation runs in his blood, and Geoff is excited to steer Growinnovate into its next stage of business evolution.



Rick Pares

Mr Rick Pares, Owner and Director, oversees Growinnovate's activities in the MENA region. As the personal contact for our customers, Rick is not just a voice over the phone, or the sign-off on an email. He takes an active interest in what our clients are achieving, visiting their sites to personally review growing conditions, and providing advice and insight on how to utilise our products to improve the business' operations.

Rick attributes this interest in our customer and client wellbeing to his family's farming background. Growing up on a broadacre farm in the Western Australian Wheatbelt, he knows what it takes for nurseries and growing businesses to thrive in even the toughest of conditions.



Lina Stowe

Mrs Lina Stowe is the marketing specialist at Growinnovate. A driving force in building the company's future direction, she is a passionate advocate for regenerative agricultural practices, and brings this focus and innovation to her position.

With a deep love of the land, agriculture, and organic growing, born from her strong family ties to farming and food production in her native home, Colombia, she is also a farm owner herself. This ensures she understands the challenges that our customers face in terms of growing thriving plants and gardens. She uses this knowledge to share best practices and what is happening in the horticultural world in articles and blogs.

When you contact our team, you know exactly who you are working with, and that peace of mind is worth its weight in gold.

**GROW
INNOVATE**

Contact Growinnovate to discuss utilising a GrowinBag™ solution to help your business thrive.

+61 438 834 379 | info@growinnovate.com.au | growinnovate.com.au

7 STRATEGIES FOR OVERCOMING WATER SHORTAGES AND REDUCE OPERATIONAL COST WITH FIELDNET™ BY LINDSAY

Most growers have, at one time or another, faced a water shortage. Perhaps it was from a drought, a temporary pump issue, loss of access to a shared water source or any number of other reasons. But today, the latest advancements in precision irrigation and technology can help growers overcome these challenges.

In fact, efficient irrigation solutions like our FieldNET™ remote irrigation management technology can help you get the most out of every drop of water that's available—whether there's a shortage or not.

But how does it do this? Let's break it down!

How automated irrigation and scheduling helps you overcoming water scarcity.

Pivots are the ideal irrigation solution in times of scarcity because of their efficiency and precision, but they can be made even more effective through careful automation and scheduling. For example, our FieldNET platform combined with FieldNET Advisor™

allows you to manage, control and even analyze your irrigation operation from the palm of your hand—which means greater peace of mind and performance.

Here are several strategies you can implement with the help of FieldNET during times of water scarcity:

1. Identify your water usage habits

With FieldNET, you can track your historical irrigation practices and generate reports. This gives you a clear idea of how much you're irrigating and where, at any given time.

2. Implement smart monitoring and metering

FieldNET monitoring solutions help you get the most out of your water by giving you constant visibility into how your irrigation system is performing—even when running errands or out with the family.

FieldNET-ready digital flow meters give you even greater insight into how much water is flowing. And, with them,

FieldNET can even alert you of potential issues, like a drop in cubic meters per minute, to alleviate some of the stress that comes with water management and to boost efficiency—something grower Jacob Andersen experienced firsthand.

3. Optimize existing water supply by using advanced controllers

While flow metering is one way to manage water more effectively, control panels are another. Advanced controllers allow you take complete command of your pivot irrigation operation, turning on and off irrigation at scheduled intervals or based on a programmed schedule.

In fact, Zimmatic advanced control panels come FieldNET-ready and are super intuitive to make managing your controllers—and your entire operation—easier and more convenient than ever before.

4. Real-time monitoring and control

A key feature of FieldNET is the ability to, at a moment's notice, access data on

how each of your pivots is performing in real-time. As mentioned above, that includes how much water the pivots are using, as well as current position, status, direction and speed. Not only can this help you pinpoint performance issues—and therefore potential crop damage—earlier, but it can also help you save time from needing to manually check every pivot.

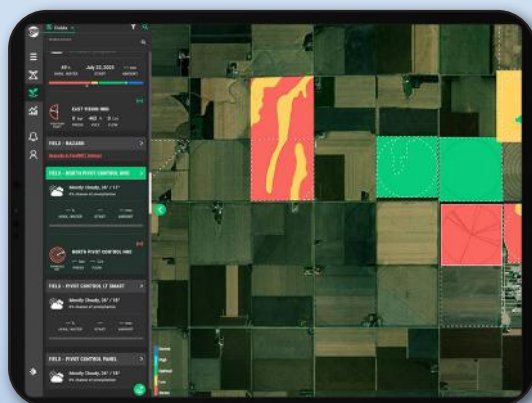
Another feature that can be a real game-changer is You can take what you learn from monitoring in real-time and implement those changes right away. For example, switching off pivots instantly when it starts raining.

5. Integrate weather data and predictive analytics

If you want to do more than track data, FieldNET Advisor is here for you. It uses current and historical field data, cloud-computing capabilities, machine learning, and more than 40 years of crop and irrigation research to provide daily, field-specific irrigation recommendations. It also incorporates weather forecasts (all the way down to individual fields) to determine when rainfall is likely.

Zimmatic VRI™ (variable rate integration) is another solution that can be fully integrated with FieldNET and work in conjunction

with FieldNET Advisor to create tailored irrigation prescriptions or plans—customized down to the individual sprinkler level. With VRI, every sprinkler will spray exactly the amount of water necessary, no more, no less. With that level of control, getting through water shortages becomes a whole lot easier.



Of course, Zimmatic VRI is only the start. As the industry embraces more AI-based solutions, your irrigation system will be even better-positioned to predict your needs and plan out irrigation choices.

6. Manage water pressure

System pressure is critical to efficient use of water. Lindsay's Bruno Perroni points this out by saying: "If the pressure is too low, the sprinklers and pressure regulators will not operate correctly, leading to uneven application rates. If the pressure is too high, it's

wasting energy." With FieldNET, you can monitor pressure and flow at all times, managing your pressure to ensure you never use too little, or too much, water. All without any trips to check gauges in the field.

7. Utilize leak detection and repair systems

Even a tiny leak can exacerbate a water shortage. Gauges on your pivots can tell you when pressure is low—or you can rely on FieldNET, which sends alerts if pressure drops unexpectedly which could indicate a leak. That way you (or your local Zimmatic dealer) can make any necessary repairs or conduct maintenance sooner than later.

Weather is unpredictable. While some growers have endured especially tough drought conditions in recent years, others have seen record monsoon seasons. Whatever the weather, one thing remains constant: growers have to be prepared for anything. Monitoring flow and moisture, irrigating at the right times and gaining remote control over pivots when necessary are all crucial to getting more yield with less water—and Zimmatic equipment and FieldNET technology are available to help your operation do just that.

For more information, visit www.brandfolder.com

GROWERS MAKING MAJOR SAVINGS WITH NEW CROP SOLUTION

With a growing demand for sustainability and food security across the Middle East, many growers are turning to an innovative new technology that is saving growers thousands of dollars a month.

Developed in the UK by Engage Crop Solutions, the new water saving technology called Aqualatus is cutting water, electricity and fertilizer use by as much as 50% while still increasing crop yields.

Aqualatus will be on show at AgraME in Dubai from October 9-10, allowing growers to learn how it can help them improve sustainability and their profits.

Alfredo Garcia is a director and technical manager of Agroliner Agricultura Avanzada and supplies CASI, the largest tomato growing group in Europe with Aqualatus, and says the technology is transforming growing in hot climates.

He says: "In these conditions, Aqualatus is saving up to 30%-50% of water, electricity and fertilizers in Spain, because we have a monthly expense per

hectare of between \$2,750 and \$3,045, if we save between 30% and 50%, the farmer can save between \$825 and \$1,523 per hectare a month."

Some growers are reporting up to 65% savings in water use while still seeing yield increases and a trial with the Municipality of Dubai proved the city could save as much as \$152m (560 million dirham) a year when they used Aqualatus in irrigation systems for landscaped areas.

Aqualatus is applied to irrigation systems and is a sophisticated blend of liquid polymers which contain billions of microscopic structures that adhere to soil particles and slow the gravitational movement of water and promotes lateral movement, thereby increasing the moisture-holding capacity of the soil and also improving soil quality.

Surface runoff and evaporation are significantly reduced and gravitational movement is dramatically slowed. Reducing this natural water loss allows for irrigation volumes to be much lower and timings to be shorter as the soil is more retentive.

Aqualatus has been successfully trialled in the Middle East and around the world and is environmentally safe, completely breaking down in the soil after use.

Agronomists are also backing the technology. Leading agronomist Inmaculada Martinez Membrive is working with growers across Spain. She says: "I recommend Aqualatus mainly for its soil conditioning power, in both sandy and heavy soils."



"The product is capable of increasing the holding capacity of both water and nutrients in light soils and also filtration and oxygenation in heavy soils."

"The benefits in crops go from an improvement of the root development to an increase in crop yield. It is all thanks to Aqualatus's ability to improve plant nutrition and make it optimal."

Founder Director of Engage Crop Solutions, Peter Blezard, adds: "Aqualatus is transforming growing in hot climates. It's a proven technology that is saving growers thousands of dollars and is improving their profitability and, perhaps more importantly, their sustainability."

"Reducing water use in agriculture while improving food security is a key challenge for the Middle East but Aqualatus is proving to be part of the solution. We are working with growers around the world and helping to ensure they can meet these challenges while remaining profitable."

For more information about Aqualatus or to learn how it can benefit your growing operations, contact Peter Blezard at peter.blezard@engagecropsolutions.com or visit www.engagecropsolutions.com



Find out more about Aqualatus at AgraME in Dubai

Engage are also looking for partners in the region, contact Peter for an informal discussion.



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GROWERS
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SUSTAINABLE AGRICULTURE: KUWAIT FUND'S EFFORTS TO ACHIEVE A GREENER AND MORE SUSTAINABLE FUTURE

Agriculture is of great importance and unprecedented vitality as it represents a bridge between environmental protection, economic growth and social stability. It is the pulse of life that enhances the strength of our planet and constitutes an ideal platform for achieving a more prosperous and sustainable future, thus reflecting the vital basis for sustainable development.

In the midst of environmental challenges and changes facing our contemporary world, the Kuwait Fund for Arab Economic Development continues its efforts to support agricultural innovations by contributing to the implementation

of sustainable environmental projects around the world.

Agriculture: the cornerstone of sustainable development

The United Nations Sustainable Development Goals highlights the importance of agriculture as a fundamental pillar of the health and prosperity of our planet. In addition to its ability to provide food, sustainable agriculture is an effective tool in reducing poverty, protecting biodiversity, and mitigating climate change. In view of the recent exacerbation of negative environmental effects such as pollution and water scarcity due to unsustainable traditional agricultural practices such as deforestation and

soil erosion, the need has become more urgent than ever to shift towards sustainable agriculture that achieves a balance between green growth and food production.

Kuwait Fund: supportive of sustainable agriculture

In the face of these pressing challenges, The Kuwait Fund For Arab Economic Development is committed to promoting green agriculture efforts throughout the developing world. This commitment is evident in the Fund's objectives and its various development projects, which include financing agricultural infrastructure, initiatives aimed at capacity building for farmers, and support for innovative agricultural technology solutions.

The financing of the Mahaweli Ganga River Development Project in Sri Lanka is a prime example of the global reach of the Kuwait Fund.

The project spans over 65,000 hectares and focuses on lowland rice cultivation and human settlement. The project has significantly contributed to enhancing food security in Sri Lanka and increasing annual food production, including 0.25 million tons of rice, 1.5 million litres of fresh milk, and 0.150 million tons of various food crops. About 130,000 families benefited from this project and also provided basic social infrastructure facilities.

In addition, the project reinforces the Kuwait Fund's commitment to preserving the environment, by establishing national reserves and conserving 260,000 hectares of land. The Fund's contribution, amounting to about KWD 14 million, confirms its continued commitment to promoting sustainable agriculture and improving the well-being of communities around the world.

For more information, visit www.kuwait-fund.org

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HIGH-TECH FOR LARGE SQUARE BALERS: NEW HOLLAND INTELLISENSE™ BALE AUTOMATION BRINGS BIG BENEFITS FOR BALING PROCESS



A new option for New Holland's BigBaler range offers the potential for greater productivity, bale quality, fuel efficiency and operator comfort by automating key baler and tractor functions.

Operating a Big Baler manually demands long hours of continuous operator focus, with regular steering adjustment to follow the swath, plus observation of swath density and crop flow to prevent overloads and blockages, changing tractor speed to match. In addition, to ensure production of consistent bales the driver must observe the bale fill indicator and correct the tractor steering accordingly, while also monitoring bale slice numbers and weights.

By proactively automating tractor steering according to

the swath path, and speed adjustment with regard to swath volume, IntelliSense™ bale automation relieves the driver of these demands.

At its heart is a LiDAR (light detection and ranging) sensor located at the front of the tractor cab roof. This emits a laser pulse several meters ahead of the tractor which is reflected off the swath. The system will automatically adjust the steering, which is then fine-tuned not only to follow the swath, but also according to the baler's plunger load sensors, ensuring even filling of the chamber.

This is the best available technology with single sensor setup. It can work in daylight or at night and is prepared to deal with dusty conditions, low contrast targets delivering great bale quality, saving fuel and granting great operator

comfort for long working days and even night. The swath cross-section measured by the LiDAR is also used to govern tractor speed control, reducing it when necessary to avoid overloads, and increasing it in thin swath areas. This will significantly increase the productivity, as the system adjust the forward speed always to its optimum – even during long harvesting days.

IntelliSense™ offers the operator two assisted baling modes which can be used combined or independent from each other. Feedrate can be controlled via IntelliCruise II, in which the maximum speed limit and number of slices per bale can be set, with a low number equating to thicker slices and a higher throughput. The tractor will then continuously adjust its forward speed to match the target slice number.



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HEADS OR TAILS? BOTH!

“When it comes to Gain PRO, I really do think that exclamation marks are called for.” OddGeir Oddsen, managing director of ProChaete, can hardly contain his enthusiasm for the feed additive Gain PRO.

“With its unique blend of ingredients and nutritional benefits, Gain PRO is not only a high-quality protein source for feed, but also a great example of the kind of product the world needs right now to provide a growing population with healthy food.”

Full circle

As the world’s population grows and climate change challenges us, the need for more efficient use of our resources is more important than ever.

“When you eat shrimp, you only eat about half of it. The rest (head and shell) is usually discarded. By-products of shrimp farming are by and large regarded as waste – which means you’re throwing away half of your product. That’s just bad business, both for the company and the planet.”

Gain PRO is the result of ProChaete’s philosophy. “I am proud to work at a company whose core values are innovation and sustainability. This is very inspiring and motivates me to focus on finding ever better ways to develop healthy and sustainable business that’s also profitable.”

Fresh, functional and future-proof

Gain PRO is a powder made from the by-product of shrimp production that can be added to feed. There are many varieties in the feed market that use by-products from food



OddGeir Oddsen,
Managing Director of ProChaete

production, but what sets Gain PRO apart is that the raw material is fresh.

“Shrimp deteriorates quickly, especially in hot climates. Fermentation and rot start almost immediately, causing a loss of nutrients. But if you harvest the heads and shells while they’re still fresh, you have a raw material that is a valuable and versatile resource for feed manufacturers.”

Gain PRO has many functional qualities that other feed additives lack. Minerals and vitamins are essential of course, but Gain PRO also contains high levels of antioxidants and natural pigments. It also has a pro-biotic effect that helps digestion and nutrient intake, providing a healthier feed for the fish or animal.

“I hope that feed manufacturers will discover the positive effects of Gain PRO and that it will inspire them to use by-products more effectively. While Gain PRO is a great the solution to more sustainable food production is something that requires a collective effort across the entire business.”

“With its unique blend of ingredients and nutritional benefits, Gain PRO is not only a high-quality protein source for feed, but also a great example of the kind of product the world needs right now to provide a growing population with healthy food.”

For more information, visit
www.prochaete.com

Gain PRO

Functional proteins for chicken



Gain health

Positive effect on the immune system provides better survival rate and weight.



Gain taste

Great taste results in higher feed intake. With a higher feed intake, more biomass is produced.



Gain pigmentation

Natural pigmentations/ antioxidant provide great benefits for the animal and final consumer.

Make your feed more valuable

Meet Gain PRO, our innovative feed ingredient crafted from residual shrimp raw material. Not only does it deliver essential minerals, vitamins, antioxidants, and natural pigments, but it also boasts a pro-biotic effect for improved digestion and nutrient absorption.

The science is clear: Gain PRO significantly boosts animal performance, growth, and feed efficiency, making it a game-changer in sustainable food production.

Gain PRO — where sustainability meets profitability.

REVOLUTIONIZING POULTRY PRODUCTION: NEW TECHNOLOGY FOR SALMONELLA PREVENTION

Introducing double-encapsulation technology: a groundbreaking solution against pathogens to optimize performance & profits

Salmonella, a bacterial infection with the potential to harm both humans and animals, is of particular concern in broiler chicken production. Its presence can result in food contamination and the risk of foodborne illnesses. Consequently, it is crucial to establish robust biosecurity protocols to prevent Salmonella contamination. Emerging technologies offer encouraging strategies for preventing Salmonella by targeting the pathogen within the birds' digestive systems. When stringent biosecurity measures are combined with the use of effective feed additives, broiler producers can ensure the production of safe and top-quality broilers while simultaneously reducing the likelihood of Salmonella infection.

A double-encapsulation technology to target specific pathogens

Recently, a biotech company developed a new technology, based on an exclusive formulation and a new double encapsulation



Dr Stéphanie Ladirat
R&D Director, NUQO

approach (NUQO®SAFE). The company worked on one advanced concept: a double micro-encapsulation with one layer made of phytogenics and phycogenics (active molecules from plants and algae) and one inner core containing multiple organic acids. The new product enables an accurate and precise controlled release of ingredients in the gut; active compounds are released specifically between the duodenum up to the colon, with a sequenced release of the different ingredients, so that

every compound gets released on spot to enhance digestive functions and control gut microflora.

High efficacy in reducing salmonella colonization

Multiple trials have confirmed a positive effect. One recent trial was performed at Ridgeway Research in

UK. Ross 308 female day-old chicks were brought into the facility on day 0, weighted and randomly allocated to different treatments. At day 14, all chicks were inoculated with 0,1 ml containing 1 x 10⁸ CFU of Salmonella enteritidis suspension. The animals were separated in 2 groups: One control group (NC) and one group fed with this new technology (NQ) at 400 g/t.

Prior to infection, no birds were infected with Salmonella. Post-infection, 63% and 38% of the birds in the NC group were infected at day 21 and day 35, respectively. The number of Salmonella positive samples was reduced by half at both time points for the animals from the NQ group. From the birds that were positive at day 21, one part naturally recovered from the infection ("previously positive"). The recovery rate is similar in both treatment group (~60%). From the birds positive at day 35, a part was already positive at day 21 and a part turned positive between day 21 and day 35 ("new positive"). The NQ group had much less 'new positive' than the NC group, which

Figure 1:
Double-Encapsulation Technology

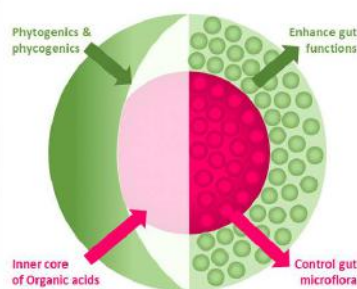
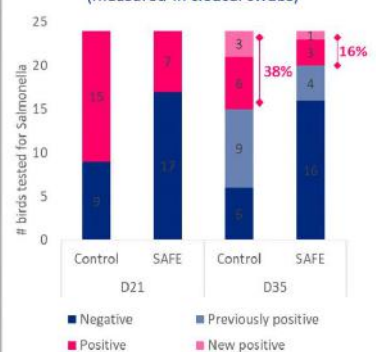


Figure 2:
Number of Salmonella positive birds
(measured in cloacal swabs)





indicates a stronger support against salmonella, not only shortly after the infection but during the whole production cycle. Overall, there were fewer birds ever infected with Salmonella for the NQ group (33% total infection rate vs 75%) and, at day 35, there were much fewer positive birds in the NQ group than in the control (16% vs 38%).

In parallel, scientists measured the immune response via the concentration of Salmonella IgA in blood. Prior to infection, the base level of IgA was around 15ng/ml in both treatment groups. At day 21, the blood IgA concentration increased to about 40 ng/ml in the NC group, showing the immune response of the birds to the Salmonella infection. Birds from the NQ group had 11% more blood IgA at day 21 than birds from the NC group, which indicates a better immune response. Finally, scientists measured the impact of both treatments on performance. The birds from the NQ group had a 1-point improvement in feed conversion ratio, which shows the effects of some of its components on digestibility and gut integrity.

Rapid Adoption of Innovative Technology: Benefits and Testimonials

This cutting-edge technology is rapidly gaining traction in the market and attracting a wide range of new customers. Among these customers, one has been incorporating NUQO®SAFE into their existing product portfolio since 2022 and offers their testimony: "Initial results have indicated a favorable response on the farms that have adopted this product. Starting in December 2022, all newly introduced flocks have been receiving NUQO®SAFE as part of their dietary regimen."

Furthermore, the technical manager involved in this initiative has commented on the positive outcomes, noting that the birds settle more quickly after being transferred from rearing farms, display excellent early body condition, achieve improved production yields, can reduce feed specifications without increasing daily intake, and exhibit increased vigor and vitality. This customer is implementing the technology on a large scale to ensure consistent high performance and promote optimal gut health.

Discover an Exclusive Breakthrough: Advanced Technology for Salmonella Control in Poultry Farming

Unveiling an exceptional innovation rooted in the power of phytogenics, phycogenics, and organic acids, enhanced with a double encapsulation structure. This cutting-edge solution offers both safety and effectiveness in the quest to minimize Salmonella in poultry farms. The double encapsulation design guarantees that the active components are only released once they reach the bird's intestines, ensuring optimal impact. This remarkable technology is precision-targeted to combat the pathogen directly while bolstering the bird's natural immune response. By significantly reducing the risk of Salmonella infection, this revolutionary solution not only enhances the overall well-being of your poultry but also plays a vital role in preventing food contamination and foodborne illnesses. Embrace this innovation for a healthier flock and safer poultry products.

For more information, visit
www.nuqo.eu

PREMIER 44,000 HA FREEHOLD & 46,000 HEAD OF CATTLE, GRASS-FED BEEF OPERATION IN GRAN CHACO REGION, PARAGUAY

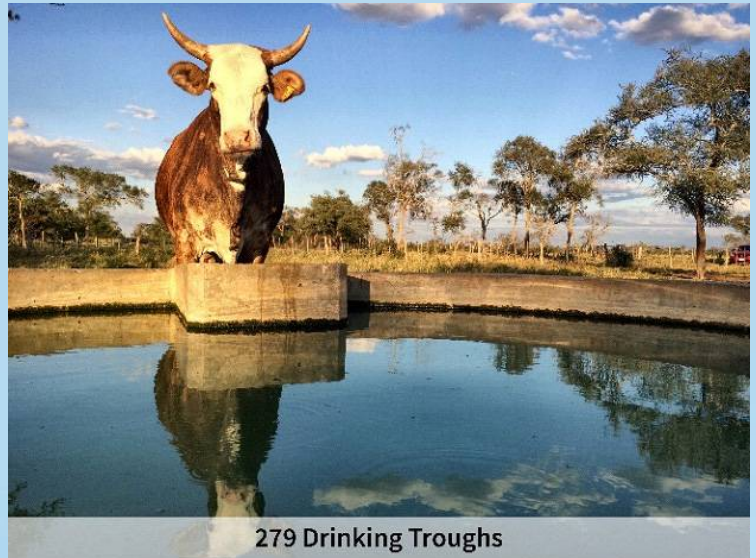
A unique opportunity has arisen to secure scale with an institutional quality 44,000 ha Freehold, premier grass-fed beef breeding and fattening operation in the heart of the Gran Chaco, Paraguay

With continued growth and development since its initial acquisition in 2008, the business has developed into one of the premier beef operations of its kind in Paraguay. Carrying capacity has continually improved and current stock numbers (both on the main holding and leased land) are currently c. 46,000 head of predominantly high-quality Brangus cattle.

Charles Whitaker, Managing Partner of Brown&Co, said: "The scale this opportunity presents is rare in the current climate, particularly in an operating environment where freehold land ownership is possible – combined with a low cost, low carbon operation that is immune to grain price volatility.

"Our view is this is a unique opportunity in a rapidly developing part of the world which both food security mandates, beef supply chain and institutional investors are finding increasingly compelling."

In addition to 44,000 ha of



279 Drinking Troughs

freehold land – there is a further 16,000 ha of leasehold land together with established and profitable share farming operations. The business has a successful track record of establishing, operating and managing some 46,000 head of cattle across a fast-growing pasture and cell grazing platform with adoption of leading innovation, technology and genetics at the core of the operation.

With approximately 18,500 ha of forest reserve (included in

the 44,000 ha freehold land), the business is well positioned to maintain and build on strong ESG practices including animal welfare, low carbon impact, high efficiency water capture and use, active wildlife and biodiversity nature conservation programmes and potential for carbon sequestration alongside efficient cell grazing practices.

For more information, please contact caw@brown-co.com or a.oliver@brown-co.pl

Map of the Corredor Bioceánico

AGRA ME 2023: BRIDGING INNOVATION AND AGRICULTURE FOR A SUSTAINABLE FUTURE

Agra ME, the premier international agriculture and agribusiness exhibition, is thrilled to announce the return of its highly anticipated event in 2023. This year's expo promises to be a groundbreaking convergence of cutting-edge technology, sustainable practices, and industry expertise, aiming to shape the future of agriculture for a more resilient and sustainable world.

The EU Financed campaign EU Fresh Fruit Gift participates in the AGRA ME 2023 expo where the visitors can meet representatives of the participant organizations at Booth No H4-P032, at the Dubai World Trade Centre. At the booth the visitors will be able to get informed about the superior quality European products, the strict superior quality and food safety production standards, and discuss the possibility of further business collaboration.

The EU financed campaign EU FRESH FRUIT GIFT aims to promote the European fresh cherries and blueberries from Greece and Romania to consumers in India, UAE and UK. The participant

organizations are Agricultural Cooperative of Rachi Pieria "Agios Loukas" (AC Rachi) from Greece -coordinator and The Association of South Fruit Producers

-FRUCTPROD from Romania.

To discover more about the program, visit the website
www.eufreshfruitgift.eu

Crave the Freshness! Savor the Juicy Delights of the European Nature

Cherries from Romania & Greece – **Blueberries** from Romania



EU FRESH FRUIT GIFT

www.eufreshfruitgift.eu

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EXPECTING OVER 250 EXHIBITORS, AGRAME WILL SHOWCASE INNOVATIVE SOLUTIONS TO REGION'S FOOD SECURITY PROBLEM

Innovative crop technologies that could revolutionise the Middle East's agricultural landscape will be showcased in Dubai this October at AgraME, the region's largest and most advanced agriculture event taking place at the Dubai World Trade Centre from October 9-10.

AgraME, which is organised by Informa Connect, is set to be the largest in the event's history, with more than 250 exhibitors from 150+ countries packing the 8,280sqm show. The exhibitor line-up includes some of the industry's most prominent and innovative contributors, including

Al'Dhara, Cultivat'd, Flora Engineering, FoodTech Valley, AquaBioTech, Maag, Montel, the Indoor Farm Company, and Emirates Development Bank.

Under the Patronage of the Ministry of Climate Change and the Environment, the trade show is dedicated to forging long term food security in arid landscapes. As the largest agricultural exhibition in the Middle East, the show attracts over 5000 industry visitors from across the world. The event is sponsored by the world's largest agri-tech innovators including Abu Dhabi's Al'Dhara, and Canada's Cultivat'd and will feature stands and free seminar

sessions on the most pressing topics in the sector including; animal health and nutrition, aquaculture, apiculture, fresh produce, hydroponics and aeroponics, governance and leadership, horticulture, mechanical, and agratech.

The exhibition stands will showcase cutting-edge agricultural technology and processes in arable farming, horticulture, aquaculture, and animal farming. In addition to meeting over 250 industry leaders in one place, visitors will also have access to two seminar streams AgraME and HortiME which will delve into the most challenging issues facing the agricultural sector today including

AgraME

Featuring



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Dubai World Trade
Centre, UAE

CREATING SUSTAINABLE FOOD SUPPLY IN ARID LANDSCAPES

AgraME is largest gathering of agriculture and trade professionals in the Middle East



5,000+
visitors and buyers



77% of exhibitors stated that
participatin helped them to
establish new business contacts



100+
Exhibitors



If you are a solution provider in Agriculture, Horticulture, Indoor Farming, Livestock Nutrition and Health, Agtech, and Aquaculture, don't miss the opportunity to tap into the vast potential for growth in the Middle East's agriculture sector!

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the adoption of modern processes to increase crop yields, advanced bio-stimulants, and regenerative agriculture practices for enhanced crop production.

Engage Crop Solutions (ECS), an exhibitor hailing from Lancashire in the United Kingdom, will be showcasing its latest 'Aqualatus' technology. Peter Blezard, the company's Founding Director, said the innovative solution can improve soil's moisture-holding capacity, saving water and increasing

yields and profits.

"Sustainability must lie at the very heart of agriculture, particularly in the Middle East where food security is key, but resources are becoming scarce," said Blezard. "Growers need support and innovative solutions to ensure they can grow crops in a more sustainable way, while still feeding a growing population. When applied to irrigation systems, Aqualatus technology means growers can cut irrigation cycles by half and still see exceptional results

without any loss of crop development, yield, and quality. It also delivers further savings both in fertiliser and energy costs."

Blezard added the technology could go a long way to addressing a pressing local challenge, as well as help reposition the sustainability credentials of the agricultural sector, famously the world's largest consumer of water. ECS has already worked with Dubai Municipality to trial the technology.

"When Aqualatus was applied in a year-long trial at the Al Warqa Park, it showed the Municipality could reduce water usage by 50 per cent while still maintaining the lush landscapes," Blezard said. "It cut daily water usage from 87,000 litres a day to just 43,500 litres and moisture levels remained consistently high in the root zone throughout. When applied across the city, Aqualatus will save the Municipality of Dubai Dh560 million a year and, crucially, provide water security.

"At AgraME, we will showcase how Aqualatus will be a key part of the solution to overcome the water crisis in the Middle East."

Meanwhile, the US-Chinese technology company 4D Bios Inc is making its regional debut at the show to promote vertical farming solutions. Leon Cao, the company's Overseas Project Director, says the Middle East is ripe for vertical farming.

"We think the Middle Eastern market would be one of the best suited for this kind of technology, especially after the pandemic as the

rising awareness for food security and local production ratio is a key subject for most governments and public consumers," said Cao.

"Vertical farming technology itself is a sustainable agriculture solution with its water saving and non-chemical pesticide and herbicide pollution. The potential incorporation with solar energy solutions will maximise this technology to be even more environmentally friendly."

Brent Crosbie, Exhibition Director of AgraME, added: "The response this year has been swift and determined from all parts of the globe stretching from the Gulf to Africa, Asia, Europe as well as North, Central, and South America. This is now a truly international showcase for a world that is intensely focussed on sustainability and food security. We anticipate an audience as equally geographically diverse and outcomes that could change the face of agriculture in the Middle East for generations to come."

Three dedicated vertical exhibitions will be located alongside AgraME to ensure 360-degree coverage of the sector. AquaME is the region's premier event for aquaculture professionals; the HortIME Exhibition and Conference is the region's premier event for vertical farming and greenhouse professionals, which, for the first time, will be specifically focused on products and technologies from within the horticulture and controlled environment sector; and AgroFarm, the largest livestock exhibition in the Middle East.



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SAUDI AGRICULTURAL SECTOR ATTRACTS GLOBAL ATTENTION THIS MONTH

The 40th edition of the Saudi Agricultural Exhibition, under the patronage of the Ministry of Environment, Water, and Agriculture, is set to commence on October 23, 2023. This exhibition, considered a vital gateway to the Gulf and Middle East region, stands as the largest and most prestigious in the area. It is certified by the Global Association of the Exhibition Industry (UFI) and organized by Riyadh Exhibitions Company Limited.

The exhibition showcases the latest innovations, technologies, cutting-edge solutions, and advanced agricultural engineering developed over four decades. It has established itself as the foremost platform shedding

light on the advancements in Saudi Arabia's agricultural sector and its future prospects and aspirations.

In this regard, international participants have expressed their admiration for Saudi Agriculture and their eagerness to participate in this year's edition.

Raid Madanat from Syngenta remarked, "Saudi Agriculture serves as Saudi Arabia's gateway to the agriculture sector," adding that his company received tremendous feedback from all participants, professionals, investors, and decision-makers.

American agricultural engineer Matthias Levarik stated, "We have participated in several exhibitions in the region, but we must express our admiration for Riyadh

Exhibition. We are excited to return to the Saudi Agriculture Exhibition in Riyadh," describing it as an "exceptional professional exhibition."

Saudi Agriculture serves as an ideal platform bringing together agriculture industry leaders and decision-makers from the Kingdom and other countries under one roof.

This year, the exhibition boasts record-breaking numbers with the participation of 380 companies and entities from 38 countries.

The exhibition will cover a wide range of sectors, including agricultural technologies, organic foods, poultry, livestock and dairy, and mills, in addition to aquaculture, food processing and packaging, animal health, and veterinary services.





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BIGGEST-EVER GULFOOD MANUFACTURING 2023 TO TAKE GLOBAL FOOD PRODUCTION IN A SMARTER, MORE SUSTAINABLE DIRECTION

2,000+ leading F&B manufacturing brands confirmed, with green and sustainable manufacturing firmly in the spotlight as Dubai prepares to host COP28

Dubai World Trade Centre (DWTC) has announced that Gulfood Manufacturing, the most influential annual F&B manufacturing event in the world, will take place from 7-9 November 2023. This year's edition - the largest ever - will bring together 2,000+ exhibitors, including the biggest global brands in F&B production, to fill 15 halls. Away from the exhibition floor, over 100 of the F&B industry's decision makers and the world's leading experts will be exploring the very latest trends in the industry, and setting out strategies to capture

business opportunities and address the challenges the industry faces.

The industry leading trade event, approaching its milestone 10th anniversary next year, continues to garner interest from top production players across sectors in processing, packaging, ingredients, supply chain solutions and control & automation, to chart a course towards a more sustainable, resilient, agile and efficient future.

With COP28 taking place just weeks after the show, Gulfood Manufacturing is set to redouble its long-standing focus on how the F&B manufacturing industry is integrating sustainable

practices and processes (such as sustainable packaging), reducing food waste, introducing energy efficient machinery with a smaller carbon footprint, and driving traceable, ethical and transparent food production.

Gulfood Manufacturing 2023 will deep dive into themes examining how AI, robotics and automation are spurring an evolution in efficiency, the digitalisation of the F&B manufacturing sector, stimulating revolutionary innovation, and those raising the benchmark of excellence across the industry.

Trixie LohMirmand, Executive Vice

President, Dubai World Trade Centre commented, “Gulfood Manufacturing is the leading industry event in the MENA region, sitting firmly in the top tier of global industry events, and the only annual event of its kind in the world. The event comes at a critical point for the global F&B industry, as it tries to balance rising inflation and input costs, against downward price pressure from retailers and consumers – whilst meeting the imperative to make food production more sustainable. By leveraging innovative technologies and driving efficiencies, the industry can strike this balance and continue to evolve and reach new heights.”

Reflecting Gulfood Manufacturing's position at the pinnacle of the food production industry, many of the world's top ingredients brands have already confirmed participation for this year's edition, including Apical (Gulfood Manufacturing 2023 Platinum Sponsor), Cargill, Givaudan, Wilmar, Kerry, Dohler, Orkila, Fanar, Takasago and many more. Meanwhile from the packaging and processing segment, global powerhouses from the likes of Tetra Pak, GEA, Kronos, Husky, Sidel, Ishida, TNA, SIG, Rieckermann will also be in attendance.

Gulfood Manufacturing 2023 will be a powerful platform to present their products, services, and solutions to prominent buyers from across the globe, with countless opportunities to build new professional relationships, strengthen existing ones, and execute high-value business deals over the three days. This year's edition will see a bigger presence from European manufacturers from Italy, Germany, Netherlands, and Spain. The show will also see the Chinese Pavilion back in full force,

taking up a dedicated bespoke hall.

A focus area of this year's event will be Dubai's Green and Sustainable Manufacturing initiative, part of the Dubai Economic Agenda. As the plant-based F&B industry grows and innovates, there is a corresponding need for new plant-based food manufacturing facilities. The initiative will bring together leading businesses in the plant-based F&B industry with co-manufacturers, equipment, and solution providers to explore challenges and opportunities in effectively scaling up plant-based production and manufacturing in Dubai. The Dubai Economic Agenda, or D33, aims to double the size of Dubai's economy over the next decade and consolidate its position among the top three global cities, and includes 100 transformational projects, including the Green and Sustainable Manufacturing Initiative.

At the heart of this year's event once again, the FoodTech Summit will convene the global industry's most dynamic and engaging experts, decision-makers and thought leaders, to offer fresh new perspectives, insights and inspiring strategies on topics ranging from cost

hikes, through to innovation economics, green solutions and smarter manufacturing, to alternative products, functional foods, food safety and much more.

Three other DWTC food and beverage events will be co-located with Gulfood Manufacturing from 7-9 November 2023. The Speciality Food Festival is the MENA region's only dedicated gourmet and fine food trade show, offering buyers a platform to network and find the right premium or niche product, and visitors the opportunity to uncover the latest news and emerging trends in the market. ISM Middle East is the region's largest trade fair for sweets and snacks, connecting visitors with the most influential brands in the industry and giving them the opportunity to discover the latest products and innovations. Private Label Licensing ME - MENA's only event where buyers can source cost-effective customisable products, branding and packaging solutions, bringing together food and non-food suppliers, private label & contract manufacturers under one roof. Attendance is free and gives registrants access to the entire ecosystem of four events with a single pass.



BASUSAD SECRETARY GENERAL NURI GÖKTEPE: “PRESSURIZED IRRIGATION SECTOR RAISED THE BAR IN EXPORTS”

Nuri Göktepe, Secretary General of Pressurized Irrigation Industrialists' Association (BASUSAD) stated that

the effects of global warming are felt more across the whole world and said that conscious consumption of water as a sine qua non of agriculture sector is gaining importance.

Drawing attention to the importance of saving water in agricultural irrigation Nuri Göktepe expressed that BASUSAD works for expanding in Türkiye the scope of pressurized irrigation systems that bear importance in combating drought.

Stressing that with its 33 members BASUSAD represents 80 per cent of the sector continues on its stable growth trend in exports Göktepe said that they built great commercial connections and grew their target markets.

Stating that they export commodities to over 40 countries in South America, North Africa, Russia, Europe, and the Middle East Nuri Göktepe added: “We have realized once again the importance of food supply due to the effects of Covid-19 pandemic and global warming. Water is one of the most essential inputs of the agriculture sector. Contrary to common belief, water is a restricted



ENGİN ER



NURİ GÖKTEPE

source and thus saving water plays a crucial role in the agriculture sector. 77% of the water used in our country, in other words 3/4 of it is utilized for agricultural irrigation purposes. 3/4 of agricultural irrigation is conducted via the uncontrolled method of traditional flood irrigation method. This system helps the irrigation of the field not the plant. This is because half of the consumed water is wasted. It is of vital importance that traditional flood irrigation method be prohibited in respect of countering drought in our country.”

Growtech offers global opportunities to the sector

Stating that every year they witness at Growtech new success stories of the Turkish pressurized irrigation systems sector at international arena, Engin Er the Fair Director said they have been expecting this trend to continue this year.

Pointing out that the fair gains strength every year with new participants, Engin Er added: “We are grateful to see that the fair is

enriched with national participation. Every single year the number of national and international participants are on the rise. Last year we hosted participants from 27 countries. Furthermore, Germany, the Netherlands, Spain, France, Africa, China, and South Korea were represented with national participation at the Growtech bringing together international agriculture sector professionals. China managed to engage in a growth trend again in the wake of the pandemic. China alongside with participants from over 120 countries participating at Growtech aims at accessing global agriculture via the Growtech. China will leave its mark on Growtech 2023 with the help of around 100 Chinese companies. International demand to participate in the Fair is on the rise. Germany, Spain, Italy, China, the Netherlands, and South Korea will participate in Growtech 2023 with national representation.”

Growtech, the world's biggest exhibition in the greenhouse industry will bring together the global agriculture sector in Antalya for the 22nd time between the dates of 22-25 November 2023.



Growtech

22-25 NOVEMBER 2023

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Together, we're Growing a Greener Tomorrow.

GROWING
A GREENER
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Helping growers cut irrigation cycles by half while maintaining plant health and improving crop yields

Aqualatus is transforming agriculture in the Middle East.

It is a pioneering crop input technology that is applied to irrigation systems and improves the moisture-holding capacity of the soil.

Growers can confidently cut irrigation cycles by half and still see exceptional results without any loss of crop development, yield and quality. It also delivers further savings in fertiliser and energy costs too.

- › Aqualatus can cut agricultural water use by 50%
- › Provide water security for farmers and growers
- › Proven technology across 10 years of trials

Save water, increase your yields and grow your profits with Aqualatus.

To find out how Aqualatus can transform your growing operation, visit engagecropsolutions.com or email our Managing Director Peter Blezard at peter.blezard@engagecropsolutions.com

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9 - 10 October 2023
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We are seeking partners to help deliver the benefits of Aqualatus to farmers and growers.

To talk about working together, email our Founder Director Peter Blezard at peter.blezard@engagecropsolutions.com