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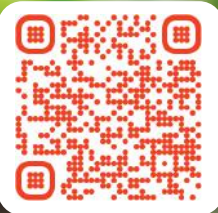
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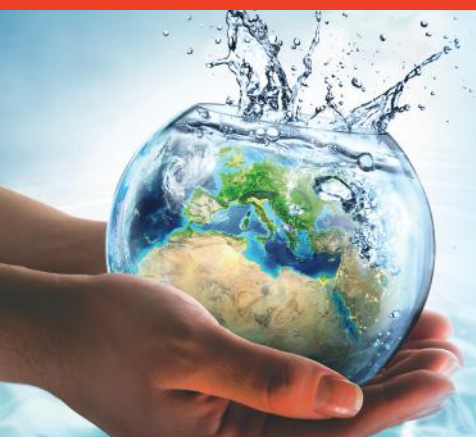
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ABCC COMMENDS BRAZIL'S TRANSPARENT AND SWIFT RESPONSE TO BIRD FLU ISSUE

The Arab Brazilian Chamber of Commerce (ABCC) has commended the Brazilian authorities and companies for their swift, clear, transparent, and organized response to the recent cases of Highly Pathogenic Avian Influenza (HPAI A H5N1) in wild birds within the country. The Chamber affirmed that the disease has not infected any commercial poultry.

Tamer Mansour secretary-general & CEO of ABCC said: "The Brazilian Ministry of Agriculture and Livestock and poultry-exporting enterprises' stance has been 'clear', 'transparent', and 'organised', which is why the disease has not affected production units. No Arab country has requested a formal or official consultation for this issue. This is due to Brazil's transparency in

providing information. As a result, the Arab countries' position is to monitor the situation."

Mansour further stated that he has been scrutinising the incidents at the request of the Arab countries, as the chicken exports to the Arab world amounts to 32 per cent of the nation's exports.

The Brazilian Ministry of Agriculture is still monitoring farms within a 10-kilometer radius of the outbreaks. It also established an extraordinary credit line of BRL 200 million (approximately USD 40.32 million at the current exchange rate) to monitor the sickness, which has so far had little effect on exports.

In the case of Arab states, the ABCC already verifies the health certifications of goods exported to Arab League countries on a regular basis. According to the entity, the process is proceeding regularly, suggesting that shipments are being accepted in Arab ports, which received

506,200 tonnes of chicken from Brazil from January to May 2023, a number comparable to the same period in 2022.

BEATING THE HEAT: HOW DNATA KEEPS PERISHABLE GOODS FARM FRESH IN DUBAI

dnata, a leading global air and travel services provider, handled 135,000 tonnes of perishable goods through its advanced cool chain facilities in Dubai in the 12 months up to 31 March 2023.

The most popular imported products handled into Dubai included fruit and vegetables such as mangoes, strawberries, tomatoes, avocados and cherries, primarily from locations in Europe, the Far East, South Asia and Africa. dnata also managed the export of a significant quantity of local UAE perishable goods, including large shipments of frozen fish to Ethiopia, bread and yoghurt to Djibouti, and

FPS FOOD PROCESS SOLUTIONS OPENS MIDDLE EAST/AFRICA HUB IN MOROCCO

FPS Food Process Solutions ("FPS"), a global leader in turn-key freezing and cooling equipment, opens a new Middle East/Africa

(MEA) office in the port facility of Tanger Med, Morocco. The FPS MEA office will act as a hub for business activities as it offers full logistics and operational efficiency for the Middle East/Africa region – a value-added benefit for FPS customers. This includes the provision of sales, parts, service and retrofits.

"Capitalizing on this entry point into the market gives both FPS and customers world-class hub services and huge savings that only the Tanger Hub Port Facility can provide. By utilizing the Hub's

infrastructure, we can reduce costs, provide greater efficiency and still meet world class standards. This will only help to meet customer expectations, a massive benefit for both sides," stated Jeffrey Chang, President, FPS Food Process Solutions Corp.

Established in 2010, FPS has a combined 640,000 sq ft (59,458 sq. meters) of space in 16 locations including its Canadian headquarters, manufacturing and warehouse facilities as well as international sales offices across five continents. For more information, go to www.fpscorp.ca





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fresh milk to Somalia.

dnata continues to make significant investments in infrastructure and equipment to ensure efficient and safe handling of perishable goods. With ambient temperatures rising to over 40° Celsius during the summer in Dubai, dnata's cutting-edge facilities are equipped to maintain all IATA standards for temperature control ranges at all stages of the cargo handling process. This includes transportation to and from the aircraft in high-tech 'cool dollies', specially designed to serve perishable and pharmaceutical industries with a closed temperature-controlled system.

dnata's cool chain facilities at its Dubai World Central (DWC) hub provide a total of 22 separate storage areas, offering a range of temperatures from

-20°C Deep Freeze through to Refrigeration and 25°C Controlled Room Temperature.

LIVETEC LAUNCHES NEW APP FOR POULTRY FARMERS TO GET AHEAD OF BIRD FLU

An industry-first app from biosecurity leaders, Livetec launched with a promise to help poultry farmers and backyard keepers get ahead of the spread of bird flu amid the UK's ongoing outbreak.

The Livetec Systems App is a disease management mobile app which helps farmers get ahead of the spread of AI and provides the tools they need to manage and protect their livestock. It comes amid the worst ever outbreak of avian influenza in the UK, with tough

laws imposed by government to try and curb the devastating spread.

Designed as an easy-to-use tool which can accompany farmers throughout their day-to-day activities, the Livetec Systems App has been created using Livetec's signature lab to farm philosophy to bring contemporary technology to over a decade's real-world experience on farm.

Calling on its extensive knowledge of avian influenza, the Livetec Systems App empowers early detection and quick response to animal health issues with a wealth of intuitive, practical features including real-time outbreak notifications and reporting: Real-time outbreak notifications, Outbreak reporting, and Disease outbreak monitoring.

GET YOUR TICKETS TO ASIA FRUIT LOGISTICA

ASIA FRUIT LOGISTICA, the leading trade show for Asia's fresh fruit and vegetable industry, returns to AsiaWorld-Expo in Hong Kong on 6-8 September 2023.

Thousands of high-quality trade visitors and top buyers from fresh produce industry supply chain will attend ASIA FRUIT LOGISTICA to discover an array of products and services, including fresh produce, technology, machinery, and logistics.

Exhibitors from 38 different countries and regions have already registered to showcase their products and services at the show. Big brands and key players from across the global fresh produce business all gather in ONE place – ASIA FRUIT LOGISTICA.

Some 22 industry associations and entities will have national or

regional pavilions, including Australia, Belgium, Brazil, Canada, Chile, China, Ecuador, Egypt, France, Germany, Italy, Malaysia, Moldova, the Netherlands, New Zealand, Peru, South Africa, South Korea, Spain, Turkey, USA and Vietnam.

ASIA FRUIT LOGISTICA brings together leading players from across the global fresh produce business and every step of the value chain. The exhibitor line-up features top names and brands in the business, including Aomori, BayWa Global Produce, T&G Global, Capespan, ClemenGold, Costa, Del Monte, Dole Asia, Goodfarmer, Jingold, Joy Wing Mau, Mission Produce, Pagoda, Pink Lady, Rockit Apple, Rijk Zwaan, Valleyfresh, WayCool Foods and Zespri among others.

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GREENTECH AMSTERDAM REALISED GROWTH OF 7% MORE VISITORS

According to the public media, exhibitors, visitors and the many country delegations, GreenTech Amsterdam proves to be the place to be for product launches and quality meetings. The remarkable growth of 7% in visitors numbers to 11,500 (compared to 2022) underlines the increasing interest and investments in greenhouse technology. GreenTech was held from 13–15 June at RAI Amsterdam.

A total of 11,500 professionals from 128 (2022:121) countries

attended the trade show. The top 5 countries represented were Germany, China, the United Kingdom, the Republic of Korea and the Netherlands.

Some more facts: 60% of the stand space is already booked for 2024, more than 100 knowledge sessions with 220 speakers in 3 theatres were fully attended, 17 country delegations visited the show floor, and many subevents such as Meet the Xpert and the Power Day took place.

The next edition of GreenTech Amsterdam will take place on 11-13 June 2024 at RAI Amsterdam. The exhibition is a global meeting place for all horticultural technology professionals with the focus on the early stages of the

horticultural chain and the current issues growers face.

GreenTech is supported by AVAG, the industry association for the greenhouse technology sector in the Netherlands.

NEW METHODOLOGY TO SLASH METHANE EMISSIONS FROM RICE CULTIVATION AND EMPOWER SMALLHOLDER FARMERS

Globally, around 8% of agricultural greenhouse gas emissions are produced by growing rice. If rice production was a country, emissions associated with it would be larger than the total footprint of Canada,

INDEPENDENT RESEARCH CONFIRMS VALUE OF BAYER'S SMALLHOLDER FARMING INITIATIVES



Smallholder farmers say livelihoods have improved after participating in initiatives led by life sciences company Bayer. This is the result of research by independent social impact measurement company 60 Decibels on four Bayer smallholder projects in India, Bangladesh, Kenya, and Mexico/Honduras. In each of the four surveys, a clear majority of participants states that the programs have increased their yields and farming income and improved their

smallholders worldwide in ensuring food security in low- and middle-income countries and for more resilient and sustainable agricultural systems. In 2019, the company set the goal to support 100 million smallholder farmers in low- and middle-income countries by 2030. To ensure that the implemented smallholder farming strategy contributes to that goal and delivers measurable positive impact, Bayer

way of farming as well as their quality of life, ranging from around 70 percent in Mexico and Honduras to around 90 percent in Kenya.

Bayer recognizes the critical role of the 550 million

asked 60 Decibels to examine four projects as a starting point.

"The positive results are encouraging because they validate the objectives of Bayer's smallholder and regenerative agriculture strategy, with its focus on sustainable production and improving the social and economic well-being of farmers and their communities," said Frank Terhorst, Head of Strategy and Sustainability of Bayer's Crop Science division. "The results underline the importance of access to innovation and modern technologies for smallholders, along with knowledge transfer and market linkage."

60 Decibels surveyed between 275 and 700 randomly selected smallholders in each of the projects from October 2022 to April 2023. The core set of questions are based on longstanding sector research by 60 Decibels and are an integral part of each impact survey they conduct.

Saudi Arabia, or France and the UK combined. The grain is also the world's most important staple food-crop, helping to feed over four billion people.

Most of the emissions associated with rice production are methane, a particularly potent greenhouse gas. The Global Methane Pledge, launched at COP26 in November 2021 to catalyse action to reduce methane emissions, has set a commitment to reduce methane emissions by at least 30% below 2020 levels by 2030.

Margaret Kim, CEO of Gold Standard, said: "At Gold Standard our vision is climate security and sustainable development for all. By not only delivering a quantifiable

reduction in the emissions of a potent greenhouse gas, but also providing a source of income to farmers this new methodology will bring us closer to that goal."

Methane is produced when organic matter decomposes in flooded rice fields without access to oxygen. The new methodology will reduce the emission of methane by:

- changing the water regime during the cultivation period from continuously to intermittently flooded conditions and/or a shortened period of flooded conditions;
- using the alternate wetting and drying method;
- adopting aerobic rice cultivation methods; and
- switching from transplanted to direct-seeded rice (DSR).

As with all Gold Standard

methodologies any reductions will be verified by an independent audit before any carbon credits are issued.

The new methodology will open a new source of income from the sale of carbon credits. Around 140 million smallholders in Asia who produce most of the world's rice.

INTRODUCING AGRIBITS: THE NEW EVENT FOR THE AGRI FOOD DIGITALIZATION COMMUNITY

AgriBITs, the new agrifood digitalization community, announces its inaugural event, set to take place from September 4th to 6th, 2024, at

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the vibrant city of Utrecht in the Netherlands. This game-changing knowledge and business platform will bring together Agrifoodtech companies, digital solution suppliers, governmental bodies, investors, and industry experts, providing an ideal setting for networking, exchanging of ideas, and industry advancement.

AgriBITs aims to bridge the gap between Agrifood technology suppliers and digital solution providers, offering a unique opportunity to explore cutting-edge technologies, establish meaningful connections, be educated and get inspired. By facilitating deep

networking sessions, AgriBITs will enable the cultivation of fruitful collaborations that drive the digitalization revolution in the agrifoodtech sector.

The event will feature a comprehensive two-day conference and exhibition program. Participants can look forward to immersive sessions focused on data security, policy setting, and the development of standards across all agricultural production sectors, including arable, indoor and livestock farming, as well as feed and food processing. In addition, AgriBITs will host an informal gathering on the evening before the main event, fostering a relaxed

environment for engaging conversations and relationship-building. Moreover, a high-level event will take place on the second evening, creating an exclusive platform for industry leaders to engage in strategic discussions.

INVICTUS TO INVEST AED 1 BILLION FOR EXPANSION FOR DIVERSIFYING INTO AGRO-FOOD TRADING

Invictus Investment Company Plc (ADX: INVICTUS), announces plans to expand into North and East Africa through acquisitions and joint ventures with leading local entities in the

DUBAI MUNICIPALITY INAUGURATES BLOOM MARKET DEDICATED FOR VEGETABLES AND FRUITS

His Excellency Dawoud Al Hajri, Director General of Dubai Municipality, has officially inaugurated "Bloom Market", an integrated area for selling and purchasing vegetables and fruits. The market, located at Dubai Fruit and Vegetable Market, extends over 66 thousand square meters, providing an ideal environment to preserve the quality and safety of the products. The opening of the market comes in line with the Municipality's efforts to promote Dubai's attractiveness by implementing vital and integrated projects that ensure quality of life.

Mohammed Faraidooni, Director of the Markets at Dubai Municipality, said: "Bloom Market is one of Dubai Municipality's key projects, which aims to provide access to fresh products directly from the source, especially since the market will have exclusively imported fruits that are not found in other markets, to establish itself as a distinctive shopping hub. In

addition, the Municipality aims to enhance investment and economic opportunities that are still available to investors by providing them with products at the supplier's rate. The project also aligns with the Municipality's goal of establishing marketplaces, entertainment hubs, and tourist destinations in the emirate and thus boost Dubai's appeal and quality of life while ensuring its prosperity in life."

"The market is designed to be a comprehensive destination, which

is equipped with cutting-edge services and logistic facilities. Additionally, it provides top-notch services to consumers by adhering to global standards, offering premium products, in addition to containing a section for organic products at competitive prices, as well as implementing advanced technologies that guarantee the quality and validity of vegetables and fruits in accordance with Dubai's food safety regulations," Faraidooni added.



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region. Headquartered in the UAE, Invictus is a prominent trader with growing business in the African markets. The planned inorganic expansion will see it significantly increase its presence with focus on various markets, potentially including: Morocco, Algeria, Kenya, Tanzania, and Mozambique among others.

Invictus' decision to expand its operation and presence is not only in line with its overarching strategy to leverage on its core

competency in agro-food and grains trading but also to diversify into logistics and food processing. In October 2022, Invictus entered into a strategic partnership with AD Ports Groups' Safeen Feeders to launch an international dry bulk shipping service with an initial investment commitment of approximately USD 126 million by both parties. In 2023, Invictus is focusing on building its presence by investing into food processing space in Africa to further

strengthen its trading business and build access to consumers in the region.

Amir Daoud Abdellatif, CEO said: "Our planned partnerships and acquisitions will allow us to expand across the value chain to also include final consumables such as finished products, such as flour mixes, pasta, noodles, poultry and animal feed among others. In an increased globalised world, there is an immense need to continue to connect, and deliver food to ensure

AGRICULTURAL MACHINERY: TURNOVER OF ITALIAN INDUSTRIES ON THE RISE

The world market for tractors, agricultural machinery and components for agriculture grew substantially in 2022, and with it Italian exports, which will push production to an all-time high. The value of machinery sold globally totals 160 billion euro, up 10% from 145 billion in 2021. The increase in the agromecanics business - which stems from a high level of demand combined with a sharp rise in prices - rewards Italian industry, which has always been competitive on foreign markets. Istat data on Italian exports in 2022 indicate for the items "tractors", "agricultural machinery" and "incomplete tractors and parts" a total value of 7.3 billion euros, an increase of 16.7% compared to 2021.

Driven by exports, the national industry achieves a turnover of 15.5 billion euros (+13.3% on 2021) - given by the sum of the production of tractors (2.4 billion), agricultural machinery (7 billion), incomplete tractors and parts (1.3 billion), plus components (3.8 billion) and gardening and landscaping (950 million) - which represents an all-time high for the sector. "The record figure does not correspond to an actual increase in profitability for the sector's industries," explained FederUnacoma President Alessandro Malavolti during the Federation's General Meeting, held this at Palazzo Varignana (BO), "since the growth in list prices has essentially covered the increase in

production costs due to raw materials, energy and logistics. In presenting the market and production data, Malavolti noted how

the agricultural machinery trade has grown steadily since 2001, overcoming even the most difficult economic situations, including those caused by the 2020 pandemic and last year's inflation. The tractor market - which reached a total of 2.5 million units in 2021 - is also expected to grow in the four years from 2023 to 2026, at an average annual rate of 4.5 per cent, while the market for other agricultural machinery is expected to grow at an annual rate of 5 per cent in the 2023-2026 period. "In the long term," explained the President of FederUnacoma, "the demand for agricultural machinery is set to grow further if we consider that in 2050 the world population will reach almost 10 billion people, and that this will entail an increase in the demand for foodstuffs estimated at between 50 and 70%". "In the coming years, Italian industry will still be a leading player," concluded Malavolti, "despite competition from emerging countries offering low-cost mechanical equipment, in a context in which agricultural incomes do not always allow for investments in new-generation technologies".



safety and security of a nation and its people. Central to our ambition is to ensure we diversify across products and markets. In each of these markets, we have identified leaders who can help us elevate our offerings while setting us on a growth trajectory. Our investment interests further reiterate our commitment to Africa and the rest of the world.”

Invictus recently reported completing over one million metric tonnes of agro-commodity exports to Egypt during 2023.

HAMLET PROTEIN APPOINTS OPERATIONS DIRECTOR

Hamlet Protein, global producer of specialty

ingredients for young animal nutrition, announced the hiring of Operations Director Lars Petersen. Based out of Hamlet Protein’s headquarters in Horsens, Mr. Petersen will be responsible for the plants in Denmark and US, procurement, and laboratories and help drive the company’s sustainability agenda.

Mr. Petersen a graduate from the University of Southern Denmark, alumnus of the Copenhagen Business School, and MBA graduate from Brunel University comes with an international background and a broad experience in operational functions with companies like Good Food Group, Rynkeby Foods, and Harboefarm.

“Joining Hamlet Protein

allows me to be close to the business and make a direct impact through continuous improvement initiatives. I am thrilled to be joining a strong and passionate team and look forward to helping them drive the various strategic projects that are on the agenda,” stated Petersen.

“Hamlet Protein has always been focused on optimizing production processes and driving efficiencies throughout our supply chain. With Lars’ support, we will be able to increase our focus on a range of projects to maintain our competitive advantage in the market through the production of premium products at optimum cost levels. Next to that the operations function plays an important role in

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reaching our sustainability goals.” commented Hamlet Protein CEO Erik Visser.

FARMERPTO BOOST CASSAVA PLANTATION THIS SEASON WITH ITS AI, ML AND DEEP-TECH-ENABLED PLATFORM

FarmERP, the next-generation farm management platform, brings a specialised focus on helping Cassava farmers by extending the crop life & bringing plant mortality in Cassava plantations up by 40% through its tech-enabled platform. The platform aims to unlock the true potential of the Cassava plantation for the farmers to improve productivity, profitability and predictability. The company has successfully deployed this in Nigeria and shall further expand it to Thailand, Indonesia, Angola, Ghana.

Cassava is a vital crop for millions of people globally. With its versatile applications in food, feed, and industrial sectors, Cassava is crucial in

ensuring food security, livelihoods, and economic growth. However, Cassava plantation farm faces several challenges, namely Pest and disease management, weather extremes as the crop requires adequate moisture to grow and develop, and most essentially, detecting mortality during the early stage of the crop and planning replanting activity as this is time-consuming & labour-intensive work. To address the same, FarmERP, with its tech-enabled platform, aims to digitalize the Cassava growth journey.

FarmERP’s FarmGyan – AI, ML, Computer vision, and deep learning shall help users to make well-informed decisions. Using drone imagery, an intelligent model powered by AI will count the number of plants and identify weed infestation. Making informed decisions about crop management, such as re-plantation and organising weed control strategies, is made easier with the help of this information. Additionally,

it will promote the use of sensors, agribots, drones, and other IoT devices in precision farming. Crop and soil moisture detection, crop water requirements, and irrigation practise management are all made possible by satellite-based crop health monitoring tools. This enables prompt response to crop stress. Overall, FarmGyan will help to achieve efficient and effective crop management and support FARM ERP’s 3Ps to Cassava Plantation Management, ultimately resulting in higher yields and increased profitability.

TESSENDERLO KERLEY CELEBRATES 30 YEARS OF ITS FERTILIZER SOLUPOTASSE®

Tessenderlo Kerley’s flagship SOP (sulfate of potash) fertilizer, branded SoluPotasse®, is celebrating its 30th birthday this year. For three decades, SoluPotasse® has been providing farmers

HORTI AGRI NEXT MEA 2023: THE COMPLETE SEED TO FOOD SHOW

The first edition of Horti Agri Next MEA 2023 is set to take place from November 20-22 at the ADNEC venue in Abu Dhabi.

Horti Agri Next is a new premier trade show for horticulture and agriculture industries. It offers comprehensive educational conferences, highlights the latest products, innovations, and advancements in various fields including food production, landscaping, crop harvesting and processing, and new enhancing technologies.

Co-located with VIV MEA 2023, the



premier show in livestock production, animal husbandry, and related sectors, this event offers a comprehensive representation of the entire agriculture industry supply chain, both vertically and horizontally.

Don’t miss this opportunity to experience the full spectrum of the agriculture industry and expand your network of contacts. Register your visit now! Your entry badge will give you free access to both Horti Agri Next MEA 2023 and VIV MEA 2023.

with the highest quality and sustainable water-soluble grade of SOP. In 1993, when SoluPotasse® was introduced into the market, Tessenderlo Kerley was the first SOP manufacturer worldwide to develop a fully soluble grade of SOP. This was launched in response to an increasing demand from growers wishing to use SOP in fertigation systems. Since its introduction, SoluPotasse®, which is produced in Belgium, has become the leading global brand of soluble SOP, with sales in more than 100 countries around the world and over 3 million tons have been sold since its launch. This makes 'the pink bag' the most-sold water-soluble SOP globally.

SoluPotasse® is the original

and best-in-class, water-soluble grade of SOP. It provides a highly soluble form of potassium and sulfur in the sulfate form and can be used for fertigation in a wide variety of crops. Developed and subsequently enhanced by a team of expert scientists and agronomists, SoluPotasse® has set new standards. Its unique formulation ensures efficient nutrient uptake by plants, delivering superior results compared to traditional potassium fertilizers. This high-grade product continues to be valued by professional growers throughout the world and is considered a versatile and sustainable water-soluble fertilizer, especially for use in chloride sensitive crops and areas at risk from salinity to boost crop yield and quality.

DOMESTICATING SALTWATER CROPS FOR FUTURE FOOD NEEDS

Climate change, rising sea levels and depleting freshwater reserves are causing a rapid increase in soil salinization, resulting in higher levels of salt in the ground. As staple crops almost exclusively rely on freshwater, increased soil salinity threatens future food security. The Foundation for Food & Agriculture Research (FFAR) is providing a \$985,000 Seeding Solutions grant to the King Abdullah University of Science and Technology (KAUST) to assess the domestication potential of *Distichlis palmeri* (D. palmeri), a saltwater-loving plant traditionally consumed in the



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tidal plains around the Gulf of California in Mexico, which would help transition salt-degraded lands into productive, sustainable agriculture ecosystems. KAUST provided matching funds for a total investment of \$1,984,237.

“Rising sea levels threaten coastal agriculture just as much as coastal cities, and meeting our nutritional needs in the face of increasingly salinized farmland requires us to expand production of underutilized crops,” said Dr. Angela Records, FFAR chief scientific officer. “This research will allow us to develop new agriculture possibilities in seawater-inundated and salt-degraded land.”

With over 50% of irrigated

land affected by soil salination, tens of millions of hectares of land are abandoned annually. Researchers have attempted to breed saline tolerance into commonly consumed crops, but this work has yielded limited success. *D. palmeri*, known by Indigenous peoples as nipa, has grain characteristics and nutritional content similar to rice and wheat, and was an important food for the Cocopah nation in the Rio Colorado delta. While it could be a suitable crop for soil and irrigation water with high saline levels, not enough is currently known about the species to allow large-scale breeding and develop improved

varieties for production.

TANMIAH SECURES SAR 200MN INVESTMENT IN SAUDI ARABIA

Tanmiah Food Company has been implementing its strategic growth plans since early 2020, by expanding its operations and investing in modern equipment and technologies from renowned Dutch companies such as Marel BV, Mavitec BV, Ottevanger Milling Engineers, Van Aarsen International, Prinzen BV, Colubris Cleantech BV, GEA Netherlands, JBTC Netherlands, Viscon Group and Meyn Food Processing, for delivering high-quality

PEPSICO ANNOUNCES THE SIX START-UPS SELECTED FOR THE 2023 GREENHOUSE ACCELERATOR PROGRAM: MENA SUSTAINABILITY EDITION

PepsiCo announced the six companies that will be a part of the second cohort of its Greenhouse Accelerator Program: MENA Sustainability Edition, focused on sustainable agriculture. Following a rigorous multi-stage selection process, this year's cohort brought forward innovative ideas across five key criteria: alignment to PepsiCo's sustainability strategy – PepsiCo

Positive (pep+) – strategic synergy with PepsiCo, scalability, relevance to MENA, and breakthrough potential.

Reigniting the partnership with UAE's Ministry of Climate Change and Environment and Food Tech Valley, PepsiCo's Greenhouse Accelerator Program intends to unlock innovative and disruptive agricultural solutions in partnership

companies, Dooda Solutions, NoorNation, RoboCare, SmartWTI, Smart Green, and YY ReGen, were selected from over 180 applications across the MENA region. Each of the companies bring a unique level of expertise and innovative solution to the table from all aspects of the agriculture value chain from water preservation to soil cultivation.

Each will receive an initial grant of \$20,000 to support their business and help scale up their innovation, along with guided mentorship from regional subject matter professionals, as well as PepsiCo and Food Tech Valley experts. At the end of the six-month program, one winning company will be awarded an additional \$100,000 in funding to continue its expansion and have an opportunity to extend its collaboration with PepsiCo to further expedite its growth.



with purpose-driven start-ups from the region that share PepsiCo's vision for a more sustainable food system. The six shortlisted

products. These investments totalling SAR 200m, are expected to support the Company's growth plans.

Recently, the Company signed agreements with several Dutch companies valued at nearly EUR 48mn through Sharia-compliant financing from Rabobank, a Dutch multinational banking and financial services company. The agreement strengthens the partnership, knowledge sharing, innovation, investment, and trade ties between KSA and the Netherlands, in line with the Kingdom's Vision 2030 to achieve food security and self-sufficiency.

A delegation from the Dutch Embassy, led by Agricultural Counsellor Erik Smidt, Agricultural Advisor

Sophie Hollanders, and Agricultural Officer Ismail Adam, visited Tanmiah's headquarters in Riyadh. During their visit, Ahmed Osilan, Board Member and Executive Director and several officials from Tanmiah presented the Company's 2030 plan of entering the global halal food market to offer innovative and high-quality products that meet international standards.

The delegation discussed ways to strengthen cooperation and transfer local expertise, such as Saudi Good Agricultural Practices (GAP), halal certification, and SAUDI MADE, on a global scale. Tanmiah is committed to achieving its ambitious goals and becoming a major

global halal food market player.

The delegation also visited and planted local trees as part of Tanmiah's One Million Tree initiative in the Shaqra governorate, which uses treated water from poultry waste and treated bio-organic manure to plant and irrigate trees. The project seeks to create a sustainable circular approach that recycles wastewater from its facilities, turning waste products into fertilizer, reducing regional carbon emissions and contributing to the Saudi Green Initiative. Tanmiah's community participation plan through the distribution of seeds as part of an upcoming campaign will be announced at a later stage.

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EXPANSION OF EVONIK'S DL-METHIONINE PRODUCTION CAPACITY IN SINGAPORE MOVES TO NEXT STAGE

Evonik is making progress with the expansion of its DL-methionine production plant in Singapore: In order to reach an important milestone in the construction process, production at the Singapore plant on Jurong Island will be reduced for three months in Q4/2023, followed by another three-month tie-in shutdown in the first half of 2024.

This shutdown is part of the implementation of Evonik's

methionine asset strategy to safeguard long-term global supply security. The expansion is proceeding as expected and the planned production stops in Q4/2023 and H1/2024, which are necessary for maintenance and safety reasons, will allow modifications to be made that would not be possible during day-to-day operations.

Earlier this year, Evonik announced a high double-digit million-euro investment to boost production capacity of MetAMINO® (DL-methionine) on Jurong Island, Singapore, by 40,000 metric tons per year to around 340,000 metric tons per year. The expansion will improve the efficiency of the facility's processes and reduce

the carbon footprint of all Evonik's MetAMINO® production in Singapore by six percent (Scope 1+2+3).

Methionine is used in livestock production to feed animals healthily, efficiently, and sustainably. With its science-based approach, the Animal Nutrition business line of Evonik develops products, services and system solutions that help supply a growing world population with healthy, high-quality and affordable animal protein. Animal Nutrition is part of Evonik's Nutrition & Care Division and contributes significantly to the profitable growth of Nutrition & Care through its self-financing power.

THE RITZ-CARLTON ABU DHABI, GRAND CANAL LAUNCHES ON-SITE VERTICAL FARM, PIONEERING SUSTAINABILITY IN THE HOSPITALITY INDUSTRY

The Ritz-Carlton Abu Dhabi, Grand Canal is proud to announce the launch of its revolutionary on-site vertical farm, a groundbreaking initiative that exemplifies the hotel's commitment to sustainability and farm-to-table dining. Spearheaded by General Manager Christian Hoehn and Executive Chef Vitaly Medvedev, this innovative project marks a significant milestone in the hotel's journey towards offering guests fresh, delicious dishes created with locally sourced ingredients.

Chef Vitaly Medvedev, an esteemed culinary expert, shared his passion for local sourcing and the creative freedom it brings. "To be a chef, especially a modern chef, is about more than just numbers and figures. It's about embracing the freedom and artistic skills that allow us to create incredible culinary experiences," said Chef

Medvedev.

The on-site vertical farm at The Ritz-Carlton Abu Dhabi, Grand Canal is a testament to this philosophy. It not only guarantees the availability of exceptionally fresh produce but also minimizes the carbon footprint associated with long-distance transportation of ingredients. By nurturing a sustainable ecosystem within the hotel's premises, this initiative leads the way in the industry's quest for responsible sourcing.

Chef Medvedev expressed his enthusiasm for the project, stating, "The vertical farm is a passion project for me. I firmly believe in the importance of healthy, nutrient-



rich food. Nowadays, it's challenging to find produce that truly fulfills our daily nutritional needs. Our vertical farm is the first step in the right direction, allowing us to be pioneers within our industry. We can now deliver incredibly fresh products from our garden directly to the table within a matter of hours."

PIF ESTABLISHES SAWANI COMPANY TO UNLOCK THE POTENTIAL OF SAUDI CAMEL DAIRY INDUSTRY

The Public Investment Fund (PIF) has announced the establishment of Sawani Company (Company or Sawani), to enable the growth of the Saudi camel farming industry and actively contribute to its sustainable development. The Company aims to be a leading producer of camel dairy products, supporting Saudi Arabia's wider Food and Agriculture sector and helping to diversify the Saudi economy, in line with Vision 2030.

It will work in partnership with the private sector to boost the production capacity of the camel dairy industry and seek to elevate the standards of the domestic production ecosystem by modernizing operations, improving the localization of knowledge and investing in the sector's latest technologies.

PIF has invested strategically in the Food and Agriculture sector to help diversify the Saudi economy, and support its unique produce industries. Among these investments are its creation of the Saudi Coffee Company, which promotes Saudi Khulani coffee beans and the Halal



Products Development Company, which invests in the halal products sector. Since 2017, PIF has established 84 companies in 13 strategic sectors.

Sawani will place sustainability at the center of all stages of production, distribution, and marketing, and raise awareness of the health benefits of camel dairy products among consumers. It will also showcase the unique history and cultural heritage of camel husbandry within Saudi Arabia. Camel milk is commonly known for its nutritional benefits, including high amounts of minerals and vitamins such as A, B, E and C. It is also rich in calcium, protein and anti-oxidants. Camel milk is also

considered low in cholesterol and is easy to digest.

Majed Al-Assaf, Head of Consumer Goods and Retail in the MENA Investments Division at PIF, said: "Saudi Arabia has extensive experience and knowledge of the camel dairy industry and enormous potential to expand its operational capabilities and wider ecosystem. These factors represent a competitive advantage across the entire supply chain, which, alongside investment, will enable significant growth of the industry, and eventually lead to the export of camel dairy products, which have many nutritional benefits, to regional and global markets."

SYMRISE PET FOOD ANNOUNCES NUTRITION BRAND EVOLUTION WITH NUVIN™

Symrise Pet Food has announced to transform its nutrition ingredients brand into Nuvin™. This includes plans to expand growth and advance sustainability for the complete offering of egg, chicken, hydrolyzed proteins, and health solutions. With this step, the company intends to strategically strengthen its pet food offering for its customers.

With this brand evolution, Symrise Pet Food moves to achieve key aspects of its longer-term strategy. At the same time, it

continues to supply its customers with the fundamental ingredients and collaborative services essential to premium formulations.

The new brand inherits a thriving portfolio in natural pet nutrition: value-added egg in the form of Ovalin™ nutritional products and OvaBind™ binding and emulsification ingredients for functional applications. Pepti'One hydrolysates come from a range of select, single-source animal proteins. Premium-quality chicken protein, broth, and fat for dry and wet formulations also add to the portfolio as well as health solutions.

"Clearly, the initial brand served us well in establishing a footing in

the global marketplace. It also helped us setting the tone for our authoritative position in quality, safety, and sustainability," explains John Tiedeman, General Manager, Nutrition Business Line at Symrise Pet Food. "Now, Nuvin™ picks up where Nutrios™ leaves off. This reflects our determination to elevate the existing brand equity with greater innovation as we move into an intensified strategic phase of growth and vitality."

These industry-leading product lines will retain their existing individual branding. Nuvin™ advances its ingredients and associated capabilities in service to customers, consumers, and their pets.

SPACE 2023: HIGH-LEVEL PARTICIPATION & HIGH-QUALITY CONTENT

SPACE 2023 is preparing in a context of rising energy costs, of generational renewal, of unprecedented high prices for agricultural products, and of climate change. In such a shifting environment and in the face of the structural changes within our agricultural sector, SPACE is becoming an ever more essential event for all professionals to gather information, exchange ideas and find new synergies to continue to develop and adapt animal farming in the regions of Western France.

The international context is also evolving significantly. The war in Ukraine has had a strong impact on the agricultural policies of countries that are dependent on Ukrainian and Russian supplies. The question of food sovereignty has become crucial for many countries, and particularly for developing countries. Our companies and organisations are well equipped to position themselves on these markets. The international scope

of SPACE, which welcomes more than 120 countries every year here in Rennes, is a clear demonstration of our ability to offer solutions to this global food challenge. Many delegations from all over the world are expected to attend again this year, in particular from Europe, the Middle East and of course Western and Central Africa.

A range of exhibitors

The number of exhibitors registered at SPACE is always very high. On 16 May, almost 1,100 exhibitors from 36 countries, including 177 new ones (76 of which are international companies) were expected to attend the Exhibition.

These companies from all over the world will share their expertise and innovations to inspire and open up new perspectives for animal farming professionals.

To accompany the dynamic of

the registrations and the evolving stand requests, the layout of the stands will be reorganised this year to meet the needs of companies in terms of both surface area and sectors of activity. SPACE has the capacity to organise the activities in such a way as to make it easier for visitors to find what they are looking for and to find their way around the stands. Therefore, Hall 4 will be entirely dedicated to energy and environmental solution providers. Hall 3 will be dedicated to Research and Development, start-ups and to the Espace for the Future. In Hall 7, alongside equipment suppliers for pig farming, visitors will find livestock building suppliers who were previously located in Hall 3. The area dedicated to sheep (previously located near Gate B) will also be relocated, as this year it will be located between Hall 1 and Hall 7 for better visibility.

Let's meet at SPACE 2023: from Tuesday 12 to Thursday 14 September, at Rennes Parc-Expo – France

SPACE



Discover
the exhibition
in video

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THE INTERNATIONAL EXHIBITION FOR ANIMAL FARMING

POISED TO BECOME THE LEADING VERTICAL FARMING SHOW IN THE MIDDLE EAST, GVF 2023 IS GEARING UP EXCEPTIONALLY

The 4th Global Vertical Farming Show is the Middle East's Largest and Only Exclusive Vertical Farming Event bringing together the entire vertical farming value chain under one roof for 2 consecutive business networking days on the 13th and 14th of September at Movenpick Grand Al Bustan, Dubai.

The show is held under the patronage of the Ministry of Climate Change and Environment, UAE - which itself is a testament to the value this event holds in strengthening the contemporary agriculture industry.

"The theme of the 4th Edition of the Global Vertical Farming Show in Dubai is aimed at Transforming Food Systems to achieve better nutrition, enhance Food Security and improve climate change outcomes - via vertical farming integration in Agriculture."

GVF Dubai promises to be an excellent platform for attendees to showcase their brands, establish new connections, and forge long-term strategic partnerships.

Why Middle East? Here are 7 reasons why!

1. UAE has 1,000 hydroponic farms fully functional.
2. Over 35,000 farms are reported to exist in the Middle East.
3. UAE intends to be "the world's best in the

Global Food Security Index by 2051 and among the top 10 countries in Future."

4. Dubai Home to ECO 1 by Bustanica - World's Largest Vertical Farm.
5. Aerofarm AGX is the first R&D Indoor vertical farm that has recently begun its production in Abu Dhabi.
6. Abu Dhabi Investment Office invested \$100 mn in Agritech companies aligned with the R&D goals.
7. Food Tech Valley Project Dubai Promoting Vertical Farming in the Region.

The Middle Eastern

government recognises the importance of AgTech in achieving food security goals and official backing paves the way. It has always been open to foreign investment to develop the vertical farming sector in the next few years, opening up tremendous economic prospects for new or established firms.

Through the 4th Global Vertical Farming Show, aims to build an excellent hub of commercial networking where international brands get a space, and immense commercial opportunity to strike a deal and find the right channel partner.



AGrame 2023: TO EXPLORE MENA'S PATH TO FOOD SECURITY

Under the patronage of the UAE Ministry of Climate Change and Environment; AgraME, the region's most advanced agriculture event, will explore the Middle East and North Africa's pathway to food security.

More than 4000 global and local industry professionals will meet in Dubai to showcase their products and solutions aimed at achieving self-reliance in food production. Running for 14 years, AgraME will take place on 9-10 October, 2023 at the Dubai World Trade Centre.

Throughout the MENA region, sustainable food production is now a key pillar of national agendas, with industry, governments and

policymakers looking to leverage the power of new technology and financial models, as well as inward investment, to address the issue. The entire industry ecosystem and its multi-verticals will be under the AgraME 2023 spotlight, where new innovations will be on display and experts will provide keen insights into the agricultural and food production of the future.

The exhibition and conference will cover key areas including cutting-edge technologies and innovation, cultivation in controlled environments, seed science, and investment opportunities in the region, the impact of

MENA food-tech hubs and the future of food security.

Last year more than 4,000 local and international industry professionals attended the show. The event was also co-presented alongside AgroFarm and three other key vertical event platforms: AquaME, AgraME Fresh, and the newly launched HortiME, a dedicated exhibition area and conference stream that represents the first vertical farming event in the Middle East, which addressed critical challenges around the arid nature of the land and the technologies and processes which are advancing agricultural processes in the region.





JOIN INDUSTRY LEADERS AT THE CENTER OF THE FASTEST GROWING GLOBAL ECONOMY AND PARTICIPATE IN THE 40TH ANNIVERSARY OF THE LARGEST AGRICULTURE EXHIBITION IN THE MIDDLE EAST REGION

The 40th edition of the international exhibition for Agriculture, Food, Aquaculture, Packaging, Agro-industry, Dairy, Poultry, Livestock, Honey and Dates is the largest B2B event of the agriculture sector in the region showcasing leading technologies and solutions, cutting-edge engineering, and innovations. It is the largest Agriculture B2B event serving in the region showcasing leading products, cutting-edge technologies, and innovations to meet the needs of the high-growth sectors with Unprecedented Sustained Success.

Saudi Agriculture is held under the patronage of the Saudi Ministry of Environment, Water and Agriculture to source the needs of the trade buyers and bring together businessmen, industry professionals, decision-makers, and sellers to develop their businesses at the center of the largest market in the Middle East. The exhibition and related events offer an ideal platform for widespread collaboration between farm owners, local and international business leaders

actively participating to develop and grow the sector.

US\$ 29.72 billion are contributed by the agriculture sector to the kingdom's GDP. Multiple sub sectors, including: Agrifood, Poultry, Livestock, Mills, Animal Nutrition & Health, Dairy, Aquaculture, Food Processing & Packaging and latest Agricultural technologies are experiencing rapid growth. High growth sub-sectors include: Aquaculture, Organic Farming, Honey, Dates, Food Processing and Packaging.

A major expansion is underway in multiple segments in the country. Aquaculture production jumped by 183% during the past 5 years from 30,000 tons to 85,000 tons. During the same period, broiler chickens' production grew to over 60% of domestic demand. Greenhouse's production increased by 58% from 257,000 tons to about 407,000 tons. Organic food farming increased by 18% to 52.800 tons during the same period.

The Saudi Agriculture Trade exhibition is incorporated with 3 more shows being Saudi

Agrofood, The 28th International Trade Show for Agro Food & Organic Food, Ingredients, & Technologies, Saudi Foodpack, The 11th International Trade Show for Food Processing and Packaging, and Saudi Aquaculture, The 5th International Trade Show for Aquaculture.

The latest Advancements in agriculture technologies and solutions are targeted by Saudi Agriculture 2023, Drones & Aerial Imaging are amongst the latest needed technologies invited to participate in Saudi Agriculture 2023. Also invited to participate are Robotics in green houses which are playing a growing role in modern greenhouses along with sensors and agricultural software and applications that enhance planning and control for efficient controlled farming.

The Saudi Agriculture Trade Exhibition includes the participation of over 360 international exhibitors from over 15 countries to be, including the Netherlands, Italy, Turkey, Spain, China, India, UK, USA, Russia, Pakistan, Portugal, Canada, Germany, France, Ireland, Belgium, Denmark and more.

The 40th Saudi Agriculture 2023 is held from 23 – 26 October 2023, from 1:00 pm to 09:30 pm at the Riyadh International Convention & Exhibition Center in Riyadh, Saudi Arabia.

ANCIENT CENTRAL AMERICAN SUPERFOOD THRIVING IN THE MIDDLE EAST

One of the tastiest and most versatile superfoods, the Avocado has become very popular in the MENA region in the last 10 years with imports growing exponentially each year. Originally from “Puebla, Mexico”, this single seeded berry (yes, it’s a fruit and not a vegetable) is actually a relative of the bay laurel as well as the cinnamon trees. Ancient tribes began enjoying this strange, delicious fruit 10,000 years ago, and cultivation started around 5000 years ago. With over 500 varieties available, it is an ideal fruit to enjoy all year long. Different varieties will produce fruit at different times of the year, and it’s also curious how the fruit will not start to ripen until it is picked from the tree. They can hang on the tree, in pairs, for up to 18 months

without going bad.

Why are they considered a superfood? All 10 minerals that are considered essential for human health are contained in an Avocado. They are nutrient dense and contain the good fats that are needed for a healthy heart. Can avocados grow in the MENA region? Yes, absolutely. The warm climate make them ideal for this fruit to prosper. Many growers in Morocco are using GROWinBAG’s™ to cultivate avocados commercially. There are numerous benefits in planting avocados in GROWinBAG’s™. The fruiting tree can receive all the water and nutrients it needs directly without any

loss into the surrounding ground. The light and air pruning qualities of these bags help support a fibrous root system that will in turn make for a fruitful tree.

Next time you enjoy your avocado in puree, salad, toast, chocolate mousse or even as a face mask, consider visiting your local garden centre to grow your own.

**For more information, contact
lina@whsaustralia.com**





ENGAGE
The Power of Nutrition



Aqualatus®

(Multi-polymer water saving technology)

Aqualatus is a unique water saving technology that improves initial wetting and subsequent re-wetting of agricultural/horticultural soils and other growing media. It is formulated to ensure maximum distribution of water in all rootzones.

Aqualatus will provide uniform penetration and lateral movement of root applied water and nutrients and with continued use reduce the water requirement to grow the crops by up to 50%. The unique movement encourages greater root growth leading to increased nutrient uptake and increased plant health.

Benefits

- ▶ Aqualatus will aid the lateral movement and efficacy of water and root applied nutrients.
- ▶ Aqualatus will aid lateral formation of roots especially in restricted rootzones.
- ▶ Aqualatus is proven to maintain yields even with a water reduction of 50%.
- ▶ In substrate grown rootzones Aqualatus will aid uniformity of EC.
- ▶ Aqualatus will aid the movement and efficacy of soil applied beneficial nematodes for pest suppression.
- ▶ Low application rates and frequency mean sustained use is commercially viable.

For use on all crops.

5 litres e

NEW CROP INPUT TECHNOLOGY CUTS IRRIGATION CYCLES BY HALF

A new “transformational” crop input technology has been developed that allows growers to cut irrigation cycles by half and still see exceptional results without any loss of crop development, yield and quality.

Developed in the UK by Engage Crop Solutions, the new water technology called

July-August 2023

Aqualatus could be transformational in delivering water security for the Middle East while also ensuring food security through crop quality, cost savings and profit growth for the growers.

Managing Director of Engage Crop Solutions, Peter Blezard, says:

"Water has been dubbed the new 'blue gold' in the Middle East because the crisis is so severe."

"We have worked for 10 years to develop Aqualatus and we believe it should be a key part of the solution, ensuring agriculture can dramatically cut the amount of water it needs and helping to ensure water remains available to everyone in this region and around the world."

"Aqualatus could save as much as 76 billion litres of freshwater a year alone in the Middle East. This adds up to a potential financial saving of \$135bn for agricultural businesses and it will help to grow profits further by improving crop quality and yields too."

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 almost completely eradicated 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 undergone 10 years of trials in the Middle East and around the world and is completely environmentally safe, breaking down to nothing in the soil after use.

A leading agricultural engineer that works across 14 countries in the Middle East and has used Aqualatus on a range of crops said about the product: "The greatest challenge for agriculture in the Middle East is the water shortage. Aqualatus solves the problem and could be a critical part of the solution needed for this region."

"We are on the brink of a green revolution, but all of the crops we need to feed people in this region require huge quantities of water. Aqualatus will cut the water used by agriculture in half and that will have a massive impact on the future of the region."

Peter adds: "This is a proven technology and there's nothing else on the market that can



Mr. Peter Blezard
Managing Director of Engage Crop Solutions

deliver the same scale of benefits to growers. We are so confident that this can transform growing operations across the Middle East that we're happy to provide free products to anyone so they can see the benefits for themselves."

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

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

MEETING ALL YOUR REQUIREMENTS IN BIOPESTICIDES

Beijing Multigrass Formulation Co., Ltd (Beijing Multigrass), established in 1996, is a leading manufacturer for Biopesticide in China. The company has launched a bio-pesticide series, including plant origin insecticides, like matrine, rotenone, fungous proteoglycan, alginic acid, and animal origin insecticides, like oligosaccharins.

Beijing Multigrass's well-known matrine product, Baicao No.1, is an alkaloid manufactured through a continuous ultrasonic extraction process. Its special formulation enables it to be fast-acting. After numerous tests, it was found that the mortality of red spider/yellow spider, aphid and whitefly were all above 80% within 30 minutes, and above 90% some 24 hours after application.

Its subsidiary Baicao Biotech



is a professional microbial fermentation factory with capacity of high-purity Gibberellic Acid TC and Spinosad TC, which has an annual capacity of 100Tons.

Company has invested heavily in the R&D, so that granted the Pesticide Innovation Contribution Award by the China Crop Protection Industry

Association (CCPIA) in 2017. Company continue to invest in the R&D of other Spinosad-based products, such as Spinosad Bait for fruit flies, Spinosad DP to control insect pests on stored grains, Spinosad sustained-release tablet of mosquitoes.

For more information, visit
www.chinabaicao.com



Gibberellic acid is a broad-spectrum plant growth regulator with the virtues of safety, high efficacy, and quicker effect. It is increasingly used in cultivate of grape, citrus, dates and other crops worldwide.



HUMINTECH-THE GERMAN ORGANIC FERTILIZER AND HUMIC SUBSTANCE PRODUCERS

By: Dr. Yasser Dergham, Humintech Company, Germany

Humintech is one of the worldwide largest organic fertilizer and humic/Fulvic substance producers, based in Grevenbroich, Germany. The new high technology production line enables Humintech team to maintain and increase the quality of its humic/Fulvic acids based products and to manufacture several new products based on humic acids in combination with other organic fertilizers and biostimulants. Beside the current product line, the company has updated its new product range like following: Powhumus Pro, HS300 Bio, Fulvital, Fulvamin and Biohealth Myco which will contribute to increase the quantity and quality of plant production.

• **BioHealth® Myco WSG**
BioHealth® Myco WSG is a blend of selected Mycorrhiza (VAM) strains, humic acids and seaweed extract. During a culture Mycorrhiza nourishes in the root and thus builds a

biological protective barrier against soil borne pathogens and supports the Plant with nutrient especially Phosphorus.

• **HS300 Bio** (is a suspension of high quality humic material (humic acid and fulvic acid) based on German (Leonardite) produced via micronizing process to get Humic/Fulvic acids small particles < 100 µm. The main ingredients of the suspension are immediately available nutrient humus and high-quality permanent humus, which cannot be easily decomposed by microorganisms of the soil.

• **Fulvagra 25** is bioactive growth promoting liquid based on aquatic Fulvic acids. Fulvic acids stimulate the roots developments and metabolism of plant and increase the plant resistance to abiotic stress. It acts as natural chelator, mobilizing nutrients agent in the soil and improve their ability and their uptake from plant.

• **Powhumus Pro** is a small particle size of potassium humate complex < 100 µm, which can be compatible to the all-new Irrigation system as well as to hydroponic Culture. It can be combined with other Fertilizers and Pesticides, after undertaking a trial mix. It can be applied on to the ground or sprayed over the crop.

• **Fulvamine** is a liquid bio stimulant based on natural biopolymers (fulvates) and amino acids. This finely tuned formula is suitable for the improved absorption of nutrients. The high content of amino acids relieves the plant's metabolism in the formation of proteins: The biopolymers and amino acids with a low molecular weight contained in it can penetrate through the cell membranes of roots and leaves and transport the amino acids into the plant interior.

For more information, visit
www.humintech.com

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FULVAGRA
HIGHLY CONCENTRATED AQUATIC FULVIC ACID

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AUSTRALASIA'S LARGEST GREENHOUSE CONSTRUCTOR SELLS MINORITY STAKE TO DUTCH CEA PLAYER GREENV

Australia and New Zealand's largest commercial greenhouse construction company, Apex Greenhouses, has agreed to sell a minority stake to GreenV B.V., a group of individual companies that work seamlessly together, each delivering the best technology, products and services in their own domain of greenhouse technology. Apex Greenhouses' Australian Chief Executive, Folco Faber, states: "GreenV has taken the minority interest in line with its vision to provide world-leading complete greenhouse projects, along with sharing its knowledge and international experience. It has been a well-considered decision to partner

with GreenV. It enables Apex Greenhouses to leverage GreenV's access to cutting-edge automation and emissions-reducing technologies in a rapidly advancing Controlled Environment Agriculture (CEA) industry."

"Projects are becoming larger and more complex," according to Folco Faber. "Our typical client 10 years ago was a family operation and while they are still an important part of our customer base, we see larger corporate interests entering the space with heavy investment worldwide from PE, super funds and listed companies. High tech greenhouse projects are capital-intensive, so the monetary injection is needed if we are to feed the planet."

Apex Greenhouses constructs large scale commercial structures for the horticultural industry in Australia and New Zealand, including university R&D projects, Botanic Gardens and packing sheds. Its largest project to date has been a

130,000sqm greenhouse in Victoria.

Formerly Faber Glasshouses, Apex Greenhouses was founded in New Zealand by Dutch immigrant Leo Faber in the late 1970s. Leo quickly moved from building greenhouses, to manufacturing steel-framed greenhouses locally, mimicking the Dutch designed 'Venlo' glasshouse structures. Leo's son, Folco Faber, and Mr Harris have led the Australian and New Zealand operations for the past 15 and 12 years respectively.

GreenV has international shareholdings in CEA businesses specialising in climate control, sustainable energy, heating and electrical engineering, including GreenSimplicity, Voshol, Prins Group, Stolze and HT Verboom in the Netherlands, JV Energy Solutions in Canada and Prins USA in the United States.

**For more information, visit
www.greenv.com**



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WATER SAVING AND EXTREME DROUGHT, ARRIGONI COMES OUT TOP IN AN INDEPENDENT TEST

Trials performed in France provide fresh confirmation of the quality and efficiency of Arrigoni solutions, not just for active protection against insects and diseases but also for shading crops and thus saving water. The results of a three-year trial conducted at Biltzheim in the Haut-Rhin département furnish concrete proof that the Arrigoni Prisma® range is the most effective and efficient in terms of the shading factor ensured for crops (tomato first and foremost) thus reducing the need for watering by up to 50%. The temperature inside greenhouses protected with Prisma® was found to be up to 10 degrees Celsius lower than in the control tunnel.

The agriculture of the future will have to respond to ongoing climate change and rising global temperatures. Given this situation, the shading of greenhouses is a technique that is becoming a necessity over larger and larger areas. On the one hand, the adoption of aids of this kind reduces water use and physiological stress on existing crops. On the other, shading helps to keep the temperature below a critical threshold and optimise working conditions inside greenhouses.

The trial was performed during 2022 as part of the Acse programme, sponsored by the Government, ADEME (the French Agency for Ecological Transition), Grand Est and

Climaxion (the ADEME programme which supports energy transition and the circular economy).

The study conducted at Biltzheim in 2022 assessed the efficacy of new whitewashing products, which were then compared with the Arrigoni Prisma® range. Significantly, the trial took place during the hottest, driest summer ever, not only in France but also in Italy, Belgium, Germany, Ireland, Luxembourg, Portugal, Spain, Switzerland and the United Kingdom, as stated in the "State of the Climate in Europe 2022" report published by the World Meteorological Organization (WMO) and the EU's Earth Observation Programme, Copernicus.



"Prisma[®]", the study confirms "was found to be the most beneficial method: it reduces peak temperatures by almost 10°C compared to an unshaded tunnel. It is quick and easy to install and, unlike whitewashing products, it minimises the labour otherwise required for continual whitewashing procedures." Moreover, the figures that emerged during the trial reveal that Prisma[®] may actually be twice as effective as a whitewashing product. "The temperature reduction in whitewashed tunnels", the same study states, "is about 5-7 degrees depending on the tunnel." In other words, well below the 10 degrees provided by the Arrigoni Prisma[®] range.

"We are delighted," underlines Arrigoni CEO Paolo Arrigoni,

"with the findings of this entirely independent test. It proves that our investments in materials and the latest technologies for crop protection produce genuine proactive solutions, able to deliver effective responses even in more and more extreme situations. Prisma[®] is an emblematic example, since it is at least a medium-term investment, having a guaranteed lifetime of up to five years."

At the latest Eima towards the end of 2022, Arrigoni already presented the results of a study of shading and the consequent water saving performed from April to October 2022 in the Group's test field at Putignano, near Bari. This trial was conducted

on the Fructus[®], Protecta[®] System, Prisma[®], Robuxta[®] and Arricover[®] ranges, in other words, all the most widely used coverings produced by Arrigoni. Prisma[®]'s efficacy was also clearly proven in these tests, with water savings on crops of between 40 and 50% compared to the open field.

For more information, visit
www.arrigoni.it



QUALITY YIELDS, QUALITY TIME: HOW PRECISION TECHNOLOGY IS MAKING A DIFFERENCE TO FARM AND FAMILY



For farmers, time is a scarce commodity, but it can be key to a successful harvest. To meet growing demands for farming produce, farmers are facing a further strain on their time, spending longer in the fields and away from home life.

But the question is: how can farmers save time and make processes more efficient, without losing out on end yields?

In the Irish village of Glenbrien, Don Somers has been farming for many years, gaining the knowledge and experience needed to run a successful and efficient tillage farm. Specializing in the production of winter and spring cereals, Don farms a range of heavy clay and sandy soils, which each require a specialized approach for

optimizing soil health.

When faced with a staffing issue that threatened yield results, Don looked for alternative ways to increase the efficiency of his farming processes and made the switch to precision technology in 2018 and has been working with Topcon Agriculture solutions since.

Investing in a partnership

Over the past four years, Don and Topcon product specialist Craig England have worked together to improve the quality and quantity of the yield and soil in an unprecedented way, saving over 5% on labor costs and reducing input costs by 10%.

Reflecting on the partnership, Don Somers said: "Topcon didn't just sell me a product, they wanted to know how I would use it now, and in the



future. Their advice helped me save thousands of Euros on equipment alone."

Topcon's autosteer solution with an X35 console provides Don with accurate positioning data, letting Don position his



tractor exactly as needed, following an x-y positioned path. This reduces fuel usage by cutting down on excess passes, saving money and time.

YieldTrakk yield monitoring

lets Don improve soil health in a cost-effective way. Providing clear data on where his fields are over and underperforming, the precision agriculture solution allows him to make informed decisions based on moisture, cut-rate, and weight, letting him focus his time on the areas that need it the most.

Additionally, Don utilizes CropSpec, Topcon's crop health monitoring solution, to assess the quality of his crops and control his spreading. By scanning the crops with a laser, CropSpec can create accurate maps for true variable-rate prescription application. This means Don can make sure each area of the field gets exactly the right amount of fertilizer, cutting down on the cost of inputs.

Connecting all solutions is the Topcon Agriculture

Platform (TAP), which lets Don combine all the data he needs to make truly informed decisions. As Craig England explains: "Don is also up and running with TAP, in which he can bring together all his data from the fields such as that produced by YieldTrakk, as-applied maps and CropSpec data. Based on the insights collected from the cloud-based solution, he can then make the right decisions and VRC-maps for the coming tasks in the field."

Thanks to the data-driven approach, Don has flexibility with how he works, benefiting from the ability to access the data from his fields, right from the comfort of his home.

For more information, visit www.topconpositioning.com/agriculture

THE ROLE OF BIODIVERSITY IN A PROFITABLE AND SUSTAINABLE FARM

Written by:

Dr. Sagi Katz,
VP Agronomy at
Agmatix

When looking to increase crop yields, a stable biological environment is the ultimate goal. Environmental needs vary from crop to crop, but the one constant is that each crop has an optimal environment to support maximum yields and crop quality. Creating and maintaining this environment is key to a successful farm.

The biological environment encompasses many sub-factors, such as soil health, water retention, biodiversity, and chemical composition, just to name a few. With so many factors at play, it can be hard to know where to start, and which should be the priority.

We can't determine what to prioritize without communication. Trees show the value of communication, transferring

food, water, and information with other trees through underground fungus mycelium. To ensure that our businesses thrive, we must also transfer knowledge and communicate more as an industry. What's more, this communication of data on a global scale will enable us to be more sustainable and help us to solve global food poverty.

Just like the trees, farmers have been sharing knowledge through conducting field trials and sharing their results with fellow farmers. Driven forward by the need to comply with new regulations, increase yields in a sustainable way, futureproof the farm and drive profitability, more and more farmers are looking at data as a solution. By considering available research, including data gathered through

individual field trials, we can determine which factors have the largest effect on yield and crop quality. In time, this data can be aggregated on a regional, national or international basis.

Conducting a field trial can be a complex undertaking, leaving one to question where to start, and what factors to prioritize. As the medium in which you grow your crops, and the factor most likely to determine crop quality and yield, soil health is the most important element to consider. When looking to assess this, the best indication is biological activity in the soil - otherwise known as biodiversity. A highly biodiverse environment brings many additional benefits, ultimately improving yield and crop quality.

When looking into soil health,





an important factor to measure is chemical composition. This can be relatively quick and easy to improve through the correct nutrition plan, so it is a great place to start. That said, it does depend on the chemical you're looking to alter. For example, increasing the amount of carbon in the soil is much harder than increasing nitrogen.

Once results are gathered, the most effective way to begin implementing changes towards optimizing your soil nutrient balance is through the use of an agro-informatic tool. These tools can determine the right amount of chemical fertilizer and optimal application time, factoring in all the variables of your specific field.

These tools can also advise growers on farming practices which will aid the development of a highly biodiverse environment, such as no till agriculture, or the cover crop approach. Biodiversity and its benefits vary greatly depending on the organism present. However, one overarching

theme is that the presence of one organism encourages the presence of others, creating a positive 'snowball' effect. A natural bio stimulant, it's an important factor for farmers to consider.

If you get the balance of this ecosystem right, yields will



increase year on year, and carbon emissions will simultaneously decrease. Agro-informatics tools can provide information on the impact these regenerative farming practices, and the biodiversity benefits they bring, will make on yield

and crop quality. Not only this, but they can help to track carbon emissions, allowing farmers to more easily make use of carbon credit schemes.

In agriculture, the decisions you make today will have a lasting impact for months, and even years down the line. So, it's important to drive your decisions with high-quality data, collected through well planned, accurate field trials. There's no better way to obtain specific data about your farm than to conduct your on-farm experiments. Companies like Agmatix can help you to achieve that with minimal disruption to your business and daily routines, with insights that can be easily extracted.

Ultimately, if we are to ensure the long term success of the industry, as well as reduce our impact on the environment in a meaningful way, we must also share this data with fellow researchers and farmers through open data programs – communication is the key!

For more information, visit
www.agmatix.com

TSE'S AGRICULTURAL CANOPIES: PCVUE AT THE HEART OF A SYSTEM OF PHOTOVOLTAIC SHADES

Transitioning to sustainable energy sources is the major challenge of our era. Emission reduction, optimization of consumption, clean energy that is accessible to all, and de-carbonization are some of the challenges to be met in order to preserve the environment and combat energy insecurity.

Faced with these many challenges, a host of initiatives for a new, more robust and sustainable energy model are emerging. One of these is agrivoltaics, a system that produces energy using both renewable energy sources and agricultural crops.

Photovoltaics for agriculture

The concept is simple, photovoltaic panels are

installed on barn roofs and other agricultural structures. They are designed for integration with the grid in a rural environment. Farmers can then produce their own energy at lower cost and without impairing their agricultural production.

TSE is one of the main independent players in solar energy in France. The company was founded more than ten years ago to develop solar power stations and agrivoltaics solutions that transform solar energy into electricity.

TSE supports their customers and partners in building the solar power station's complete value chain starting from design through financing, construction, supervision and operational management.

In 2022, TSE inaugurated its first agrivoltaics pilot site in 3

hectares located in Amance, France. A photovoltaic shading system with a capacity of 2.4 MWp, equivalent to the power consumption of a community of 1,350 inhabitants, it is installed on large-scale crops of soya, wheat, forage rye, winter barley and rapeseed.

The project came into being because of production limitations on the farm. It had been suffering from very hot and arid summers for more than a decade. The agricultural canopy, developed by TSE, was chosen by farmers because it is designed with rotating shades. These shades enable the system to mitigate climatic conditions in the summer season by lowering the temperature under the shade.

For more information, visit www.pcvuesolutions.com



DRONES FOR FARMING SPECIALIST ABZ INNOVATION LAUNCHES SOLUTION THAT COULD OFFER WAY OUT OF FARM LABOUR CRISIS

Hungary-based drones for agriculture pioneer ABZ Innovation is readying its introduction into the UK market following success in countries across Europe with a technology that could help alleviate Britain's farm labour shortage. Already present in five countries, the system offers a revolutionary new use for drones far removed from hobbyists or their use in conflict zones.

Developed and tested together with the University of Gyor, the drone solution offers a lower-cost, highly-efficient means of spraying fields and orchards that allows farmers and growers to benefit from a reduced workload and an easier means of spraying hard-to-access areas.

Cost savings are a key element of the ABZ system, which tests showing that targeted, precise management through drones uses 90% less water than conventional spraying and up to 50% fewer chemicals.

In the case of the UK, the ABZ drone system offers a

potential system to growers and farmers hit hard by the post-Brexit shortage of agricultural labour. According to calculations from the UK's National Farmers' Union, some £60m of fresh produce was left to rot in the fields in 2022 due to a lack of workers.

ABZ chief executive Karoly Ludvigh said: "With the problems with the lack of workforce in crops and orchards in the UK, drones can provide a very cost-effective alternative. They also have the benefit of helping growers use significantly less water and chemicals."

With the cost of rising input materials having a major impact on accuracy, Ludvigh said the pinpoint accuracy of spraying with ABZ drones – within 1.5m – can be a valuable asset in keeping input and water costs down. In fact, in the light of the Ukraine war, food shortages and the rapidly changing weather, Ludvigh believes precision farming is no longer a choice, but the only way to uphold agricultural production.

He continued: "Proper soil and crop management has become paramount to really provide our plants with the kind of soil they require to withstand weather conditions as well as possible."

At the same time, Karoly says drone technology has been accelerating at an incredible rate with as many changes in the 12 months of 2022 as in the previous six years put together. "The pace of these changes has been amazingly fast and I think it will get even faster," he added.

For more information, visit www.abzinnovation.com



BKT ALWAYS BY THE FARMERS' SIDE - THIS IS HOW HAYMAKING COMES WITHIN EVERYONE'S REACH

It is summer in many parts of the world, and agriculture never stands still. In fact, the hottest season of the year is a time of intense work for farmers dealing with multiple activities from soil preparation to planting. A central activity is certainly haymaking. To best handle this job, operators rely

on a wide range of machinery such as mowers, balers, trailers, tractors, and telehandlers. Each piece of equipment requires tires that provide excellent performance enabling users to constantly improve productivity. BKT caters for these needs by developing tires that provide excellent traction,

reduced soil compaction, high load capacity, excellent durability along with great driving comfort. Thus, the Indian multinational company - which has been attentive to listening to, taking up, and meeting the requests of field operators ever since - becomes the best ally for farmers, assisting them during

every haymaking stage with products designed for the wide range of machinery operating in this season.

BKT's main solutions for haymaking include the versatile top-of-the-range product AGRIMAX FORCE that is perfect for being fitted on high-power tractors and combines. The tire features IF technology, i.e., it is able to carry heavy loads at a lower inflation pressure than a standard tire ensuring hence reduced soil compaction. AGRIMAX FORCE provides excellent traction in addition to top self-cleaning properties and best fuel economy making the tire a perfect ally for farmers. Part of the AGRIMAX range, too, is AGRIMAXTERIS, likewise suitable for high-power harvesters. This BKT tire has been

designed for combined operations in which traction and high load capacity turn into outstanding performance. AGRIMAX FORCE has a special sidewall protector and a reinforced shoulder for increased resistance even under difficult conditions and in the presence of stubbles, extending remarkably the product life-cycle. Another important product is AW 711, a radial tire for combine harvesters but also designed to adapt to the usage in modern agriculture, and in particular for soil tillage operations. The special tread compound ensures a long product life-cycle, whether used on soft or hard surfaces. In addition, the low rolling resistance during road transfer ensures significant fuel savings.

For lifting operations, instead,

which are crucial during the final haymaking stages, BKT offers its MULTIMAX range, which includes tires that operate best with telescopic handlers. A perfect example is MULTIMAX MP 522, a tire providing excellent stability and traction along with exceptional puncture resistance. Particularly resistant to cuts and tears is MULTIMAX MP 527 featuring a robust sidewall to ensure extraordinary stability in lift mode providing maximum handling freedom to operators.

Not to be missed is AS 504, a tire to be fitted either on telehandlers or trailers boasting exceptional durability and traction, as well as top self-cleaning properties.

For more information, visit
www.bkt-tires.com

From Cattle Farm to Boutique Resort

From Feed Formulae to Multi Cuisine Menu

Two decades ago, the success story of Mohammed Haneef and Dr. Zeena Haneefa, prominent leaders in the agrifood industry, began to unfold. Their journey expanded with the establishment of their third venture, 'The State Beach Resort & Spa,' which is a part of Payyambalam Beach Resort Pvt Ltd. This exquisite resort is located along the Arabian Sea in Kannur, Kerala, India.

The inspiration for The State Beach Resort & Spa originated from Mr. Mohammed Haneef and his family's deep love for travel and their unforgettable experiences from their decades of exploration around the world. Their vision was to infuse the rich diversity of

world cultures into their venture. With utmost integrity, they have successfully incorporated their international tastes, evident in the resort's design and interiors, crafted to emulate the charm of an old building remodeled to resemble a luxurious cruise ship. Ever dreamt of going on a Cruise? The State Beach Resort & SPA is a door in your dream.

The resort's architecture is highly detailed, and its interior decor and furnishings offer a unique Cruise Ship experience. It boasts a blend of Colonial and Victorian construction styles, providing a charming ambiance for its guests. Additionally, the resort features a Harbour restaurant offering

global cuisine, a delightful Cafe, an Ayurvedic Spa, a Gourmet store, and even a fashion boutique. All these elements combine to provide their customers an unmatched and unforgettable living experience that they have never had before.

Let's take a pause here and rediscover.

About the Agro Food Industry

The first venture, Nutriplus Commodities FZCO, has established itself as a prominent leader in the agro commodity industry in the United Arab Emirates. This well-established company has become a major supplier of feed ingredients and raw



Muhammed Haneef



July-August 2023

materials in the Middle East. They are actively engaged in trading, indenting, and representing reputable producers of feed commodities from the USA, Europe, Turkey, Malaysia, etc.

During the past years, the second venture, Emirates Gourmet General Trading LLC, offered as a premier specialty food import and distribution company in the Middle East. It also offered an extensive range of high-quality food products, covering everyday meals and kitchen essentials.

The primary focus on all Middle East as their main market has been successful, and their dedication to expansion into new industries remains an ongoing and promising endeavor. Their commitment to excellence and innovation bodes well for their continued growth and success in the future.

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LOOKING FOR HIGH-QUALITY PEAT MOSS BEDDING FOR YOUR POULTRY?

Etepek is a leading export company that offers top-quality bedding for poultry use. Our company is based in Latvia, which is a country that boasts abundant natural

resources such as wood and peat. In fact, over 60% of Latvia's land is covered in forests and bogs, giving us extensive experience in exporting these resources.

Benefits of Organic Bedding for Poultry

At Etepek, we take pride in offering a professional bedding solution that caters to the specific needs of poultry farmers.



Our Bedding for poultry use is a mixture of peat moss and wood shavings, which provides several benefits that make it an excellent choice for poultry farmers. The product is 100% organic, reusable as fertilizer, cost-effective, natural, and sustainable. Moreover, organic bedding delivers excellent thermal properties, has a low pH level, and reduces bad smells, making it a healthier option for chickens.

Customizable Blends of Peat Moss and Wood Shavings

Etepek understands that every farm has unique needs, which is why the company offers customized blends of peat moss and wood shavings. We offer several options for the mixture ratio, such as 50:50, 60:40, 70:30 (peat moss: wood shavings), ensuring that poultry farmers can choose the optimal ratio for their farm. Our bedding also comes in Big-Bale packaging up to 6500L, providing convenience in handling and storage for our clients.



Why Choose ETEPEK for Professional Poultry Bedding Solutions?

At Etepek, we prioritize our customers' satisfaction by offering a personal approach to doing business. Our company's reputation is built on friendly terms with our clients, and we take pride in building long-term relationships with them. As a result, our customer reviews reflect our excellent customer service and high-quality product offerings.

In conclusion, if you're looking for a reliable supplier of professional poultry

OUR 100% ORGANIC MIXTURE OF PEAT MOSS AND WOOD SHAVINGS PROVIDES NUMEROUS BENEFITS FOR YOUR FLOCK. WITH HIGH ABSORPTION, LOW PH LEVELS, AND THE ABILITY TO REDUCE BAD SMELLS, OUR BEDDING DELIVERS A COMFORTABLE AND HEALTHY ENVIRONMENT FOR YOUR BIRDS. AFTER USE, THE PEAT MOSS CAN BE REPURPOSED FOR OTHER AGRICULTURAL APPLICATIONS, MAKING IT A SUSTAINABLE AND ENVIRONMENTALLY FRIENDLY CHOICE FOR POULTRY FARMING.

bedding, look no further than ETEPEK. With our customized and sustainable product, excellent customer service, and competitive pricing, we are confident that we can meet your needs and exceed your expectations. Contact us today to learn more about how we can help you achieve healthier, more productive flocks with our natural and cost-effective bedding solutions.

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CONTROLLING MASTITIS WITH AWARD WINNING TECHNOLOGY

The Teatwand Parallel has smart cup sensors that contribute to accurate and speedy teat spraying. Jamie Spyker, Mechatronics Engineer of Onfarm solutions has given us some details on how they work:

As the milking cups fall off the cows' teats, the robot needs to immediately know which cow requires spraying. If we spray the cow as soon as the cups fall off, we get immediate application of teat spray as well as significant time savings.

To achieve this, we incorporated

cup detection into the system, which monitors in real-time when cups have attached or detached from a cow. We continually monitor these sensors throughout milking and use smart algorithms to determine the best order to spray cows.

The system adapts to various situations. If the cups accidentally come off halfway during milking, you can reattach them without the robot interfering.

If you attach cups onto a cow before it is pre-sprayed by the robot, it will be skipped (perhaps a

cow that needs additional milking time with the cups being attached early). If a cow is not present, the system will know to skip that stall altogether. The result is an efficient system that fits around cow flow and how your milkers work, with minimal intervention.

Onfarm Solutions provides efficient and smart teat spraying solutions that give farmers more time to do the things they love.

For more information, visit
www.onfarmsolutions.com

HOW TO MAKE A GOOD CALF ENTRY TO THE FEEDLOT?

The entrance to the feedlot is a time of high stress for the animal, which has a negative impact on its productive performance. It is essential to implement all possible measures to mitigate the effects of handling, climate, fasting, mixing of animals and, especially, the effects of transport.

Although sanitary programs may vary from one feedlot to another, a standard can be established, considering the priorities in terms of management and products to be applied.

Rehydration

This is the most important because dehydration causes the mucous membranes of the respiratory and digestive tract to be dry and lose effectiveness in fulfilling their filtering function against pathogens. So if we do not comply with this step it is possible that in a few days we can see symptoms of disease either digestive as diarrhea or respiratory problems. It should be applied

to all animals, regardless of their weight and the distance traveled at the entrance to the fattening area, with the objective of correct the level of dehydration suffered by the animal during transport and handling, adapt the digestive system after the fasting period, and to provide energy, especially to suckling calves.

For this, it is important to be able to offer the calves a good rehydrating agent that allows reestablishing the hydric and electrolytic balance, recovering the normal and functional characteristics of the mucous membranes and the digestive system. The next step is to establish a good sanitary protocol at the entrance to the feedlot to prevent parasitic and infectious pathologies.

Prevention and control

A vaccination plan that includes enterotoxemias and vaccines for viral diseases to all animals entering the feedlot, reducing the percentage of animals with infectious pathologies. This

translates into an improvement in GMD and carcass quality. On the other hand, there are also intestinal parasites such as coccidia that, at this stage of life, can cause great losses due to diarrhea. Phytobiotic products can be used via feed or water that have antiparasitic activity, such as COCCI CERO or BILANTUL RUM, which also have a modulating effect on the microbiota.

Calf distribution

In the phase of entry to the feedlot, it is advisable to divide the animals, forming lots mainly on the basis of sex and weights or sizes. The distribution in uniform lots is important, since it reduces the competition between animals.

Calf weighing

Another important point to take into account is the weighing of calves, individually or by batches.

For more information, visit
www.ambiotecsolutions.com



RUMINIX: THE MOST COMPREHENSIVE RUMINANT BALANCING SOFTWARE ON THE MARKET

The new ration balancing software Ruminix was developed and perfected by A-Systems after many discussions with professional users. This competitive and innovative software benefit from unparalleled ergonomics and ease of use appreciated by all ruminant nutrition professionals.

Intuitive and effective ration work thanks to the Ruminix software

Ruminix offers multiple nutritional requirements models for dairy cow, beef cow, and sheep. Where other ration balancers often require users to rely on a fixed model,

this software allows users to use their own knowledge and technicality to adjust the open requirements models. Therefore users can configure the software with the information they think are most relevant to their own technical and economical context. This ration balancing software combines therefore both efficiency and flexibility in order to cover all needs and knowledge of the professionals.

For field technical or commercial users, using Ruminix is very intuitive: they can calculate the optimal rations for their client in just a few steps. Graphical indicators also allow the relevance of the

ration to be validated at a glance. These key indicators can be adapted, and allow each user to shine a light on the most important results, and ease the creation of spot on feeding programs.

From any given ration, it is possible to calculate a rationing plan that will account for changes in animal productions when working with dairy cow.

The customised feed creation module allows the creation of customised complementary feed based on the forages available at the farm.

The highly customisable reporting tool allows the advisor to leave their client with a concise, relevant, and aesthetically pleasing document.

The distribution plan is a very convenient document that the farmer can use to know the quantity of ingredients to mix based on the size of their mixer and on the number of meals to prepare for the herd.

A forecast of ingredients consumption allows the user to plan the raw material quantities that will be needed and can help in anticipating shortages.

For more information, visit www.a-systems.com

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