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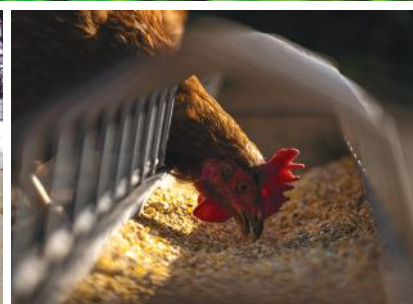
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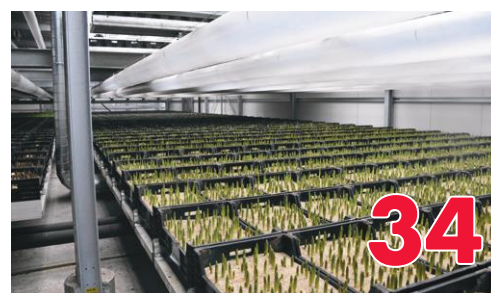
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UTRIX OPENS SUBSIDIARY IN ABU DHABI

UTRIX s.a.l. is pleased to announce the incorporation of a new subsidiary in Abu Dhabi (Al Ain), UTRIX Animal Nutrition for the Trading L.L.C/ S.P.C. This new subsidiary, referred to as UTRIX Animal Nutrition, will serve as a platform to disseminate UTRIX's innovative feed solutions and expert technical services across the GCC countries.

Michel Daher, Business Development Director, commented on the announcement: "As a key producer of feed solutions in the Middle East region, opening this subsidiary in the UAE was a natural move for UTRIX to better support our customers in the UAE and other GCC countries. We are in the process of successfully registering our key solutions for poultry and ruminant nutrition in the UAE and are now ready to commence sales."

The new subsidiary,

based in Al Ain, will feature both warehouse and office facilities to ensure efficient operations and expert technical support to our local customers. It will be managed by Mr. Sameh Al Khouly, Regional Sales Manager, who brings extensive experience in the animal nutrition and health industry and a deep understanding of the regional market dynamics.

The Compound Feed market in the GCC countries is highly consolidated and dynamic, expected to grow at a CAGR of 7% between 2024-2029, with the poultry feed market being the dominant segment. This trend, coupled with increased consumer demand for quality food products, presents significant opportunities for UTRIX's innovative solutions designed to enhance productivity as well as food quality and safety.

VECTOR VACCINES HELP SOLVE GLOBAL IBDV CHALLENGES

The diversity of infectious bursal disease virus (IBDV) strains worldwide poses a challenge to the poultry industry, but vector vaccines are helping producers successfully manage flock health, said Angela Hartman, PhD, research director, Zoetis.

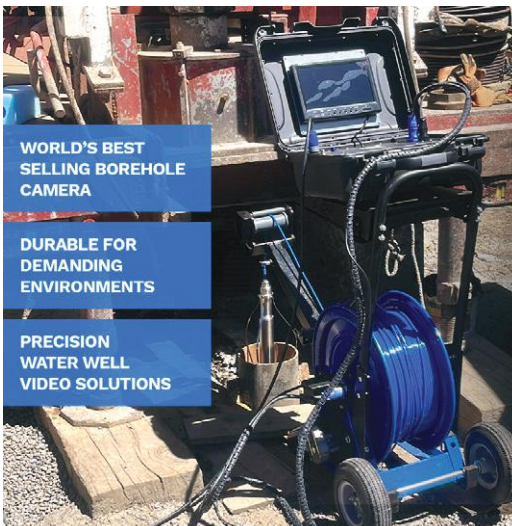
For background, very virulent IBDV (vvIBDV) strains have been circulating globally for decades. However, in the United States, while high mortality can rarely occur, the bigger problem has been performance issues due to immune suppression caused by variant strains, she said.

Recently, more complex issues have arisen in the Asia-Pacific region, where live vaccine-virus strains have recombined with field strains, posing questions over

continued vaccine efficacy.

"In some of those cases, the vaccines aren't able to work as effectively, because the epitopes needed for vaccine efficacy have changed where they have recombined. Unfortunately, we're now actually seeing even additional recombination of those isolates with very virulent strains," Hartman said.

In the face of such field challenges, herpesvirus of turkey (HVT) vector vaccines may provide a solution. They bring several key advantages – including compatibility with both in ovo and subcutaneous application and the way the HVT vector replicates within the bird – to provide both early onset of immunity and lifelong protection in broilers, she said.



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BEST AGROLIFE LTD WINS PMFAI 2025 AWARD FOR INNOVATION AND CHEMICAL SYNTHESIS LEADERSHIP

Best Agrolife Ltd, has been awarded the "Outstanding Innovation and Chemical Synthesis Award" at the recently concluded Pesticides Manufacturers and Formulators Association of India (PMFAI) Awards in Dubai. This recognition highlights the company's efforts in chemical synthesis and innovation in the agrochemical industry.

Best Agrolife has led the development of new synthesis technologies for agrochemicals, focusing on products suited for both Indian and global markets. The company's R&D team is working to replace conventional methods with safer chemical reactions that offer higher yields. This approach has led to

multiple patents and the development of products with lower toxicity.

One significant achievement is the backward development of Diafenthion, a widely used insecticide in India. Originally invented by Ciba Geigy, Diafenthion is a broad-spectrum systemic and contact pesticide known for its ecological friendliness as it breaks down into non-toxic metabolites.

In line with the Aatmanirbhar Bharat and Make in India missions, Best Agrolife developed a novel process to synthesize Diafenthion without relying on imported intermediates. The company synthesizes all precursors using an integrated, efficient, and

environmentally friendly process. Over 400 tons of Diafenthion have been successfully produced using this novel process, which is now recognized as one of the most cost-effective and environmentally sustainable in the world.

Best Agrolife's product Ronfen, based on Diafenthion, has seen strong market success and earned the trust of farmers. In addition to Diafenthion, the company's R&D teams are working on developing common intermediates and scaling lab-based technologies for mass production. The focus remains on reducing effluent generation, improving atom economy, and maintaining sustainable practices in agrochemical manufacturing.



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ICE DUBAI 2025: SHAPING THE FUTURE OF AGRICULTURAL COMMODITIES, SUSTAINABILITY AND BIOFUELS

ICE Dubai 2025 is set to position Dubai as the global hub for agricultural commodities, sustainability, and biofuels, with the prestigious Intercontinental Commodity Exchange (ICE) returning on February 19-20, 2025.

This event will unite industry leaders, policymakers, and visionaries to discuss the challenges and opportunities

shaping the future of the sector. ICE Dubai 2025 will focus on three key pillars:

- Geopolitical Outlook: analyzing world trends and their impact on businesses.
- Market Trends: uncovering evolving commodity demands and navigating global supply chain complexities
- Sustainability: addressing crucial topics such as carbon

taxes, carbon credit trading, and the role of biofuels in a greener future.

Additionally, it delves into the latest trends in supply and demand, offering critical insights into market dynamics. The theme of sustainability focuses on both voluntary and mandatory initiatives to promote a greener, more sustainable future for the industry while unlocking new revenue streams for participants. Through these core themes, ICE Dubai positions itself as a vital forum for shaping the future of global agricultural commodities.



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MINISTRY OF CLIMATE CHANGE, FAO LAUNCH UAE FOOD CONTROL SYSTEM ASSESSMENT

The Ministry of Climate Change and Environment (MOCCA) and the Food and Agriculture Organisation of the United Nations (FAO) have launched the Food Control System Assessment in the UAE.

The launch came during a five-day inception and training workshop held at the ministry's headquarters in Dubai.

More than 50 focal points from the UAE's Competent Authorities (CAs) participated in the workshop, marking the beginning of a comprehensive evaluation of the national food control system.

The workshop brought together senior officials and technical staff from the various federal and governmental entities in the UAE, with FAO experts guiding them through the FAO/WHO Food Control System Assessment Tool.

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AL ISLAMI FOODS LAUNCHES PREMIUM EXTRA-LARGE SHRIMPS, WILD-CAUGHT & HEALTHY WITH NO ADDED HORMONES & ANTIBIOTICS

Al Islami Foods, a UAE pioneer in the wholesome food products sector and a global leader in halal poultry and meat products, is excited to announce the launch of its Extra-Large Shrimps range with three products. Sourced from pristine waters and meticulously prepared to ensure quality, this premium offering underscores Al Islami's commitment to delivering healthy, sustainable, and flavourful seafood options for discerning consumers.

The new Extra Large Shrimps bring together exceptional taste and impressive nutritional benefits, making them a standout choice for families and food enthusiasts alike as they are wild-caught, free from added hormones, free from antibiotics, keto-friendly, and a rich source of protein.

Aligned with Al Islami Foods' reputation for quality and trust, the Extra Large Shrimps cater to a variety of dietary preferences, including keto and high-protein diets. The natural flavour and texture make them ideal for diverse recipes, from grilled delicacies to hearty curries and fresh salads. The launch of Extra Large Shrimps reinforces its promise to bring premium, ethically sourced, and nutritious products to households across the region.

"Consumers today are increasingly looking for wholesome and sustainable meal options that are least processed, and our Extra Large Shrimps are a perfect fit. With no added hormones or antibiotics, these shrimps are as natural as the ocean and frozen to lock all nutrients, delivering a

superior culinary experience for our customers."

The Extra Large Shrimps will be available at leading retail stores across the UAE. Consumers can look forward to indulging in a seafood experience that combines unparalleled taste, sustainability, and health benefits.

A leader in Halal Foods for five decades, Al Islami Foods is an Emirati brand with an unrivalled global presence that embodies the principles of quality and innovation. The brand has been recognised as one of the top halal brands globally, securing a coveted position among the Top 5 Halal Products Companies in the Organization of Islamic Cooperation (OIC) in 2023, and was awarded the prestigious title of iHalal Brand of the Year in 2021.

GULFOOD 2025 TO CELEBRATE 30TH LANDMARK EDITION



Dubai World Trade Centre (DWTC) celebrates the return of Gulfood for its momentous 30th edition running from 17 - 21 February 2025. Under the theme 'The Next Frontier in Food,' the event promises invaluable market foresight into the futuristic era of global food commerce and the resilient progress of international food systems. Gulfood will set the

stage for cross-industry knowledge transfer and networking opportunities, creating a framework for establishing and achieving future goals for the global trade community. The economic impact of Gulfood is significant, with estimated trade deals across the 5 days reaching USD 20 Billion, representing 1% of global food and

beverage trade.

As the largest edition to date, Gulfood 2025 will display more than 1 million products from over 5,500 exhibitors spanning 129 countries featuring large multinationals to start-up food ventures. Visitors can explore 24 enormous exhibition halls covering over 1.3 million square feet while

interacting with companies launching new products, ingredients, and flavours, showcasing their culinary expertise and engaging in commercial trade deals. Pavilions will also exhibit including the USA, France, Brazil, UK, India, Singapore, Japan and Australia, as well as first-time exhibiting companies from Kosovo, Madagascar, Mauritius and Zambia.

Building upon Dubai and the UAE's testament of extraordinary transformation and achieving global epi-centre status, Gulfood's similar evolution over 30 years has cemented its footprint in the global F&B space as the premier stage for industry professionals to connect, engage in trade deals, and establish the food trends of tomorrow.

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CEVA ANIMAL HEALTH INAUGURATES BIOGENOVAC, A STATE-OF-THE-ART GENOMICS LABORATORY

Ceva Animal Health (Ceva), the world's fifth-largest animal health company, opens Biogenovac, its brand-new genomics research laboratory, in Beaucouzé (Maine-et-Loire), France. The laboratory, which is partly financed by the French government as part of its recovery plan and the Pays de la Loire region, reinforces Ceva's commitment to preventing future health crises by anticipating variations in viral strains and combating emerging animal diseases.

Responding to the challenges posed by the rise of new epizootics, this new technological platform will enable Ceva to develop effective, industrialized, and competitive vaccine solutions capable of rapidly responding to the rise of emerging infectious diseases.

With this investment, Ceva confirms its leadership in animal health research and innovation and its commitment to the One Health concept.

This new platform is equipped with cutting-edge technological innovations incorporating the latest high-throughput sequencing and bioinformatics techniques for developing nucleotide vaccines.

The site boasts a centralized bioinformatics interface facilitating the detailed analysis and processing of a large volume of vaccine data (coverage, efficacy, antigen design, etc.). This will enable vaccines to be adapted as closely as possible to the realities of the field, thereby enhancing their effectiveness.

Present in 47 countries with 21 R&D centres across the globe,

Ceva is deeply attached to global health and industrial sovereignty and plays an active role in it investing 10% of its turnover annually into R&D endeavours. This initiative is a unique opportunity to develop effective, safe and scientifically innovative responses to the major diseases affecting our livestock.

Commenting on the inauguration, Marc Prikazsky, Chairman and CEO of Ceva Animal Health, said: "The inauguration of Biogenovac is a decisive step for Ceva and our ability to continue innovating for the future of animal vaccination. This project testifies to our determination to support breeders by developing tailor-made solutions to emerging diseases."

JORENKU INCREASES EXPORT OF LIQUID DISINFECTION AND FEED HYGIENE PRODUCTS

Over the past year, the Danish production company Jorenku A/S has experienced a significant increase in the export of liquid disinfection and feed hygiene products. Most recently, Pakistan and Egypt have joined the export markets, with more countries soon to follow.

Since 1991, Jorenku A/S has exported Staldren® to countries worldwide. The past year's growth in

demand shows that the company's liquid disinfection and feed hygiene products are also gaining international traction. Pakistan and Egypt are the newest markets where the products are in use.

"In our export markets, we see an increased interest in effective and user-friendly products for liquid disinfection and feed hygiene. The export to countries like Pakistan and Egypt confirms that we can meet the high standards that modern agriculture demands for hygiene and biosecurity," says Jamil Kure Al-Shiekhly, Head of Sales and co-owner of Jorenku A/S.

The export of liquid disinfection and feed hygiene does not stop at Egypt and Pakistan. Jorenku A/S continues

to experience high demand and expects to expand to even more export markets in the near future – especially in Asia, where interest is growing.

"We are actively working to further expand our exports. The growing demand underlines a global need for effective liquid disinfection and feed hygiene products that contribute to a healthier production environment," continues Jamil Kure Al-Shiekhly.

As part of its international efforts, Jorenku A/S will participate in VIV Asia in Bangkok in March, one of the world's leading trade fairs for animal production and the feed industry. Here, the company looks forward to meeting new partners and further expanding its exports.



VIV ASIA 2025: HIGH-LEVEL SEMINARS ON SUSTAINABLE ANIMAL FARMING, BIOSECURITY, DISEASE PREVENTION AND MORE

VIV Asia 2025, the premier international trade show for the animal protein production and processing industry is set to return this year in co-location with Meat Pro Asia and Horti Agri Next (HAN) Asia, with an expanded focus on sustainable solutions. This year's edition will feature a series of high-level seminars that will address pressing challenges in modern livestock production, including disease prevention, regenerative agriculture, and biosecurity. These seminars will provide a platform for in-depth discussions, knowledge-sharing, and collaboration among industry professionals, all with the shared goal of shaping the future of animal farming.

With over 150 curated sessions led by 300 industry experts, a major emphasis of VIV Asia 2025 will be on disease prevention and biosecurity, where speakers will present cutting-edge strategies for controlling infectious diseases, mitigating risks, and enhancing farm biosecurity to ensure resilient livestock production. The seminars will offer insights into the latest scientific developments, policy frameworks, and technological innovations designed to protect animal health and minimize the risk of disease outbreaks.

Another key focus will be on regenerative agriculture within animal farming, with thought leaders exploring sustainable farming practices that enhance soil health, foster biodiversity, and

optimize resource efficiency. Discussions will highlight the economic and environmental benefits of regenerative approaches, along with real-world case studies that demonstrate their effectiveness.

The role of smart technologies and precision farming in advancing livestock management will also take center stage. Industry leaders will delve into the transformative impact of artificial intelligence, the Internet of Things (IoT), and automation in improving productivity, optimizing resource use, and reducing environmental impact. Attendees will gain valuable insights into how these innovations can be integrated into existing farming systems to drive efficiency and sustainability.

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PIONEERING BRITISH WATER-SAVING TECHNOLOGY AIMS TO SUPPORT VISION 2030 AMBITIONS

As Saudi Arabia intensifies its efforts to achieve agricultural self-sufficiency with Vision 2030, a groundbreaking new technology that allows far more food to be grown without using any more water is being launched in the Kingdom to help deliver the ambition.

Engage Crop Solutions, a UK-based agritech innovator, has developed water-saving technology, Aqualatus, to complement the range of technologies aimed at improving water use efficiency in the Kingdom.

Aqualatus enables growers to reduce irrigated water use by 50%, while maintaining crop yields. This means more crops can be grown with less water,

offering a vital solution to the Kingdom's escalating water crisis.

The technology is a highly cost effective, sustainable low-dose liquid formulation that can be added to existing irrigation systems across the Kingdom. It represents a game-changing breakthrough in sustainable irrigation, actively targeting roots to maximise water, fertiliser and nutrient uptake. The innovative formula reduces water wastage by minimising evaporation and runoff and is completely harmless to the environment.

Aqualatus is already being used across the Middle East to great effect, with some growers being able to cut water use by as much as 60% while still maintaining or even improving

crop health and yields.

With Saudi Arabia ranked number eight among the world's most water-scarce nations, plus with non-renewable ground water, the agricultural sector remains the largest consumer of available freshwater resources in the Kingdom.

Under Vision 2030, the Kingdom has embarked on an ambitious journey towards food security while balancing the need for responsible water management.

"Saudi Arabia's commitment to agricultural self-sufficiency is world-leading and it aligns perfectly with the benefits Aqualatus offers," says Peter Bleazard, Founder Director at Engage Crop Solutions.

PERDUE FARMS ADOPTS "NESTBORN" ON-FARM HATCHING CONCEPT

Perdue Farms, a family owned fourth-generation U.S. food and agricultural company, has decided to incorporate the on-farm hatching concept "NestBorn" into their broiler production & supply chain. The adoption of this innovative & future-proof approach to hatch day-old chicks in broiler barns – instead of in hatcheries – perfectly fits into the company's belief in responsible food and agriculture, and is aligned with its deep, long-standing commitments towards animal care and No Antibiotics Ever.

In the summer of 2023, a demonstration NestBorn Egg Placing Machine was placed into operation by Perdue Foods near its headquarters on the Delmarva peninsula in order to efficiently transfer larger volumes of pre-incubated hatching eggs into broiler barns. It was the first time a

NestBorn machine, which picks up candled and vaccinated eggs from setter trays in an automated and gentle way to then place those egg directly on the floor of a temperature-controlled broiler barn, was installed in the U.S.

The advantage of hatching directly on-farm is that access to feed and water is immediate, lowering the risk of hungry and thirsty chicks. Additionally, hatchery handling and day-old chick transport are also eliminated which means potential discomfort of the newly hatched chick is avoided. Overall, these "Higher Welfare Hatching Practices" will also translate into enhanced chick quality & health benefits.

After more than one year of



demonstration and validation in a "deep litter" context, Perdue Farms and NestBorn, have agreed – in a preferred partnership context – to further deploy the NestBorn on-farm hatching solution. In its first phase, two state-of-the-art NestBorn Egg Placing Machines – constructed and supported by automation expert Viscon – will be deployed in the U.S., significantly increasing the number of on-farm hatched chicks in Perdue's operations.

ACADIAN PLANT HEALTH™ AND KOPPERT EXPAND PARTNERSHIP TO DRIVE SUSTAINABLE AGRICULTURE

Acadian Plant Health and Koppert, two leading innovators in sustainable agriculture, are expanding their partnership to enhance the global reach of biocontrol and biostimulant technologies. By integrating Koppert's expertise in biological pest and disease control with Acadian's advanced biostimulant technology, this collaboration aims to deliver improved crop yield and quality for growers worldwide.

Building on a successful history of collaboration in North and South America, the two companies have now signed an extended distribution agreement covering Europe, the Middle East, and Africa. Starting with France, this partnership will

evolve to a truly global scale, providing growers and farmers with an even broader array of biological solutions to support plant health, resilience, and productivity.

"Demand for sustainable agricultural solutions is growing at an unprecedented rate," says Nelson Gibson, President of Acadian Plant Health. "This expanded partnership with Koppert aligns our shared commitment to delivering sustainable and profitable solutions that growers and farmers can depend on."

Martin Koppert, Chief Business Officer at Koppert, adds: "As a company deeply committed to the vision that the world needs 100% sustainable agriculture, we

continuously invest in innovative R&D to advance biological solutions. Collaborating with industry leaders like Acadian allows us to complement our existing range of products, empowering growers and farmers to achieve effective, natural crop production worldwide."

The collaboration between Acadian and Koppert already spans key agricultural regions, including Brazil, the US and Europe. By combining their strengths, both companies are well-positioned to meet the growing global demand for sustainable agriculture, offering growers and farmers new, integrated solutions that protect crops, enhance yields, and support long-term soil and plant health.

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SPACE LAUNCHES A NEW DESIGN FOR ITS 39TH EDITION

SPACE, the key event of the autumn season for all animal farming, is launching its all-new design for the 2025 edition, from 16-18 September 2025 at the Parc-Expo in Rennes, in France.

Since 1987, SPACE is a major Show for the entire agricultural sector, attracting over 1,200 exhibitors and more than 100,000 visitors from all over the world, with 120 countries represented. SPACE's success continues to strengthen its position as a world leading event for all animal farming.

Marcel Denieul, Chairman of the Show: "SPACE is an event for professionals that provides farmers with perspectives and

ideas for the future. Its international dimension has been confirmed over the years. The whole event takes place in a spirit of conviviality that is expressed through all the exchanges."

All animal farming sectors are represented: dairy cattle, beef cattle, poultry, sheep, goats, rabbits, horses and aquaculture, both nationally and internationally. 3 days dedicated to animal farming, where you can discover all the latest innovations, discuss the challenges facing the sector and make connections at a fun and exciting event. Plus, it's the Expo that provides you with high-quality content throughout the year.

SPACE team is already working actively to promote the 2025 edition in France and around the world. Anne Marie Quémener, Show Manager, summed up these privileged moments rich in meetings and exchanges for SPACE and agriculture: "These moments of exchange and sharing confirm, once again, that SPACE is much more than just a Show: it is a place where innovation and partnerships are built, and which continues to shine beyond borders. These events provide us with constructive and positive feedback. These are essential points for doing our best for agriculture and preparing for the next SPACE."

ANTA[®]OX AQUA FROM DR.ECKEL: NEW OPPORTUNITIES FOR SUSTAINABLE SHRIMP FARMING

Early Mortality Syndrome (EMS), also known as Acute Hepatopancreatic Necrosis Disease (AHPND), has severely impacted shrimp farming worldwide. Since its first appearance in China in 2009, production in the affected areas has fallen by 60% resulting in financial losses of around 43 billion US dollars worldwide. The disease, caused by the bacterium *Vibrio*

parahaemolyticus, produces toxins that damage the shrimp's hepatopancreas and lead to a high mortality rate. Species such as *Litopenaeus vannamei* and *Penaeus monodon* are particularly at risk. In affected ponds, shrimp can die within weeks, with survival rates plummeting to zero. EMS spreads rapidly in warm marine environments and is triggered by toxins (PirAvp and PirBvp)

surviving shrimp suffer, as EMS weakens their immune systems, leaving them prone to other infections. This not only results in the loss of stock but also causes significant financial hardships and market disruptions for shrimp farmers worldwide.

As EMS continues to threaten shrimp farming, innovative solutions like Anta[®]Ox Aqua play a critical role in supporting farmers. By improving shrimp health and resilience, this phyto-genic feed additive reduces the risk of disease outbreaks, increases production efficiency and promotes sustainability in aquaculture. Bridging the gap between profitability and environmental stewardship, this innovative approach helps shrimp farmers secure their livelihoods while contributing to a more sustainable aquaculture industry.



produced by the bacteria. Environmental factors like fluctuating water temperatures, poor water quality, and overcrowding make shrimp more vulnerable to this deadly disease. Even



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HASSAN ALLAM HOLDING LAUNCHES JINET AGRICULTURE AND EXPANDS AGRICULTURAL LAND PORTFOLIO

Hassan Allam Holding is proud to announce the launch of Jinet Agriculture Corporation, a new subsidiary aimed at boosting agricultural productivity and sustainability in the region. As part of this initiative, Jinet Agriculture has acquired a substantial 14,100-feddan agricultural land plot in the West Minya extension area from the Egyptian Countryside Development Company, called "El Reef El Masry".

The newly acquired land will be dedicated to cultivating a diverse array of crops to meet local market demands and enhance export opportunities. This project

aligns with global Sustainable Development Goals (SDGs) by enhancing agricultural production, creating jobs, and supporting the national economy.

Hassan Allam, CEO of Hassan Allam Holding, stated, "The launch of Jinet Agriculture Corporation marks a significant addition to our commitment to developing communities and investing in accretive businesses that create lasting value. This expansion into agriculture and cultivation aligns with our broader vision of driving sustainable growth and making a meaningful impact in the regions where we operate."

Major General Amr Abdel Wahab - Chairman and CEO of the Egyptian Countryside Development Company, commended Hassan Allam Holding for joining the investors benefiting from the lands of the 'Egyptian Countryside Development Company,' calling it one of the key national industrial and developmental pillars. He expressed confidence in the group's ability to meet the planned reclamation targets and create the necessary developmental impact on its land, which will also benefit and provide expertise to the small beneficiaries in the surrounding areas.

A FRESH LOOK FOR FLANDERS AT IPM ESSEN



IPM Essen once again confirmed its role as a global leader in the horticultural trade fair industry. From January 28 to 31, 2025, 1,434 exhibitors from 45 countries participated in the event. More than 40,000 visitors,

both national and international, attended the fair.

The Flemish exhibitors, who have remained loyal to IPM since its inception, were also present. Under the umbrella of VLAM (Flanders' Agricultural Marketing Board), 32 companies showcased their products at the newly designed joint stands in halls 2, 6, and 8, which stood out for their colour and playful design.

The Flemish exhibitors praised the high quality of the professional visitors. In addition to their loyal customers, the companies also welcomed many new clients.

For two companies, attending the trade fair proved especially

rewarding:

- Rudy Raes Bloemzaden won the highly sought-after "IPM Innovation award 2025" in the spring-flower category for the *Primula acaulis* 'Flamenco Mix'. Its fringed flowers resemble flamenco dancers, which inspired the variety's name. The 'Flamenco Mix' stands out for its high quality and long-lasting durability, and is available in six colours.

- Plant Select received the "International Grower of the Year" award from the International Association of Horticultural Producers (AIPH) in the "Young Plants" category. Using advanced in vitro propagation techniques, the company produces compact, bushy tree plants under the "One Boo" brand. In addition to bamboo, Plant Select specializes in the propagation of hydrangeas, Ilex, and Agapanthus.



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AGRIEVOLUTION BECOMES LEGAL ENTITY, STRENGTHENING GLOBAL ADVOCACY FOR AGRICULTURAL MECHANIZATION

Agrievolution, the global voice for agricultural mechanization in sustainable agriculture, has transitioned from an industry alliance to a legal nonprofit entity, enhancing its ability to advocate and engage with government agencies and key organizations relating to sustainable global food security.

Founded in 2008 and formally established as an alliance in 2012, Agrievolution has grown to represent more than 6,000 agricultural machinery manufacturers through their association members and stakeholders worldwide. The decision to become a legal entity in 2024 allows the organization to sign formal contracts,

strengthen partnerships and increases its credibility in discussions about mechanization's role in global food security.

"This transition is a natural progression for Agrievolution," said Alessandro Malavolti, CEO of AMA (Agriculture Machine Accessories) and the organization's first president. "As a legal entity, we have created a strong foundation to represent the industry, collaborate with global organizations and provide insights that will shape the future of agricultural mechanization and precision agriculture technologies."

Agrievolution's new legal status enhances its ability to work with important international institutions,

including agencies of the United Nations agencies and the World Bank. With agricultural mechanization and precision agricultural technologies playing a growing and significant role in sustainable food production, the organization remains committed to advocating for policies and technologies in support of farmers worldwide.

"With more regulations affecting the agriculture industry, it is essential we provide a unified voice and a platform for information sharing," Malavolti said. "As a legal entity, Agrievolution can more efficiently coordinate its efforts across regions, ensuring industry advancements and challenges are addressed on a global scale."

IFF LAUNCHES ENVIVA® DUO TO BOOST POULTRY HEALTH

IFF (NYSE:IFF) announced the launch of Enviva® DUO, a groundbreaking direct-fed microbial (DFM) solution for poultry production. This innovative blend of two non-spore forming bacterial strains is designed to support the growth of beneficial gut bacteria during challenging conditions and encourage a favorable nutrbiotic state- the interaction between nutrition, microbiome, and gut and immune function- for optimal bird performance.

"Enviva® DUO gives our customers a significant edge against evolving microbial challenges and offers the flexibility to target specific houses or farms through its waterline application," said Kirsty Gibbs, poultry innovation platform lead for Danisco Animal Nutrition & Health,

IFF. This direct dosing strategy ensures that challenged birds always receive the microbiome-boosting benefits of Enviva® DUO, even if feed intake decreases.

Robust scientific research supports the efficacy of Enviva® DUO, demonstrating its ability to restore the bird's microbiome, improve gut conditions, and promote the growth of beneficial bacteria. Its stable formulation disperses evenly in water distribution systems, preventing sedimentation or build-up, and



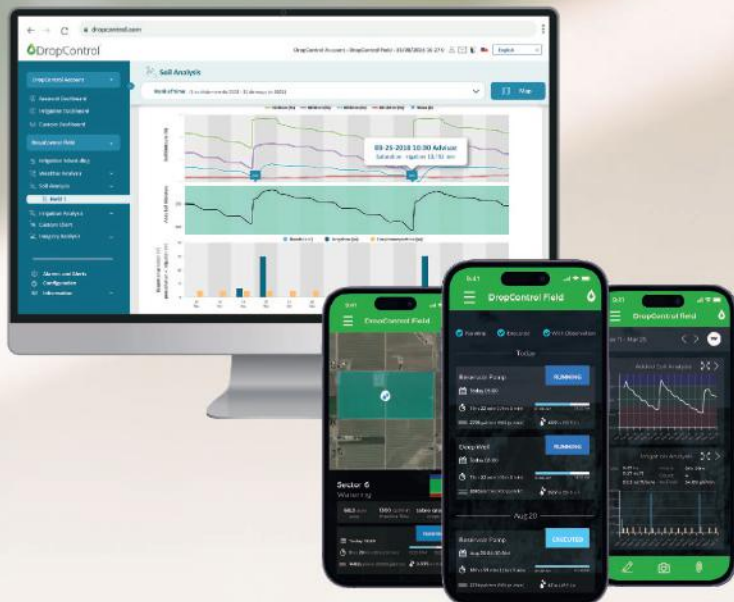
ensuring uniform and consistent delivery to the flock, thereby maintaining operational efficiency.

Enviva DUO is now available to poultry integrators and large farm complexes across the U.S., with plans to expand to other regions pending regulatory approvals.



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This year, IPM ESSEN confirmed its role as the world's leading innovation platform and powerful industry driver. From January 28 to 31, 2025, the global horticultural industry gathered at the Messe Essen exhibition grounds. "The spirit of optimism in the green sector is palpable," says Oliver P. Kuhrt, CEO of Messe Essen. "We have seen a significant increase in the number of participants. This is an extremely positive signal and confirmation that our line-up was consistently convincing." In total, the world's leading trade fair for horticulture attracted well over 40,000 trade fair guests.

1,434 exhibitors from 45 countries used IPM ESSEN as an international presentation platform and showcased innovative approaches and creative concepts for the future of horticulture. From efficient cultivation methods and digital technologies to sustainable plant concepts, the trade fair offered



IPM ESSEN 2025 RECORDS SIGNIFICANT INCREASE IN VISITORS

Strong growth in international trade fair participants





answers to urgent questions in the context of climate change, resource scarcity and environmentally friendly production. The great response from trade visitors and exhibitors made it clear: despite

global challenges, the industry is optimistic about the future and is focusing on innovation.

"IPM ESSEN 2025 has impressively demonstrated that horticulture is actively shaping the future,"



January-February 2025

summarizes Eva Kähler-Theuerkauf, President of the Central Horticultural Association and the North Rhine-Westphalia State Horticultural Association as well as Chair of the IPM Advisory Board. "This is where trends are born and solutions become tangible. We are starting the horticultural year with a strong tailwind."

High level of internationality and decision-making competence

The quality of the trade visitors speaks for itself: IPM ESSEN recorded a significant increase in the procurement and purchasing expertise of visitors. Around a quarter placed orders directly at the trade fair. Two thirds of visitors intend to place orders as a result of their visit to the fair. Kevin Menting, Marketing Communications Lead Europe at Syngenta: "IPM ESSEN is a very important trade fair right at the beginning of the year to meet our customers and start the upcoming horticultural season together with them. We also took part in the new Gardeners' Forum to shed more light on the topic of plant protection. Overall, we are very satisfied."

In addition to gardeners and florists, the international visitors also included buyers from leading garden center and DIY store chains, as well as food retailers. 44 percent of the trade visitors came from abroad - an increase of five percentage points compared to the previous year. This also included delegations from Turkey, Japan and Australia, for example, who came to find out about new products and place orders. Visitors rated the IPM ESSEN range with top marks.

Next Date

The next world's leading trade fair for horticulture will take place at Messe Essen from January 27 to 30, 2026. 86 per cent of exhibitors have already decided to participate in the upcoming IPM ESSEN.



"The event also hosted renowned pesticide scientists and industry experts, who gave presentations on various important topics during the two days of the event."

21ST ICSCE & 6TH PMFAI-SML ANNUAL AGCHEM AWARDS 2025: CELEBRATING EXCELLENCE IN THE AGRI INPUTS SECTOR

The 21st edition of flagship event of PMFAI International Crop Science Conference & Exhibition (ICSCE 2025 Dubai) took place in Dubai on 21 & 22 January 2025 at Le Meridien Hotel & Conference Centre, Dubai, UAE. The event witnessed strong industry presence with 106 leading companies showcasing their product portfolios during the two

days of ICSCE 2025 held in Dubai.

The two days' event made an auspicious beginning with welcome address by PMFAI President Pradip Dave on 21st January 2025 morning. In his inaugural address, Dave highlighted the importance of the event and its significance, which has come a long way after the first event organised by PMFAI in 1997

in Mumbai. ICSCE being an international trade platform facilitates business relationship between companies in the field of Agrochemicals, Agri biological and allied sectors. ICSCE is also an annual international event organized by PMFAI to improve the health of Generic Pesticide Industry and to bring researchers in the field of agriculture, pesticide

manufacturers, agrochemical traders, agricultural biological industries and allied industries under one roof.

In his inaugural address Pradip Dave, President, PMFAI mentioned about the importance of Agri Inputs industry in maintaining global food security. Dave mentioned that with growing global population, increasing food production is paramount, and India plays a vital role in this endeavour. He highlighted the indispensable role of crop protection products in boosting agricultural and horticultural production. Dave highlighted the significant contributions of PMFAI and ICSCE in driving the development of the Indian Agrochemical sector and fostering exports from India.

Dr. Saliou Niassay, African Union and Market Coordinator of Inter-African Phyto Sanitary Council, African Union (of 55 nations) delivered the Keynote address focusing registration procedure in African Union.

In his keynote presentation, Dr. Niassay mentioned that Agriculture is crucial in Africa and a primary food source, providing employment and sustenance for millions, especially in rural areas. Cash crops and horticultural products contribute significantly to foreign

exchange earnings and are, therefore, vital to the economies of many countries.

Although agriculture accounts for between 50% and 70% of employment in African countries, it contributes to only 15% of the total GDP, and Africa imports \$35 billion of food annually. The sector needs to be strengthened to achieve sustainable development goals, eradicating hunger and poverty and facilitating trade. Several challenges hinder Africa's agricultural productivity like climate change, erratic rains, pests and pathogens, limited access to agri inputs, limited knowledge and sharing of good farming practices, land degradations which can be resolved by harmonizing the registration and management of plant protection products in Africa.

The event also hosted renowned pesticide scientists and industry experts, who gave presentations on various important topics during the two days of the event, brief details of which are as given below:

• **India Agchem – Outlook 2025- Opportunity & Challenges:** Mr. Abhishek Aggarwal- President & COO, Bharat Rasayan Ltd. The presentation covered details on Import & Export status of

India, manufacturing and market details.

• **Nouryon Innovation Toolbox: Advanced Adjuvant And Formulation Aids for Emerging Trends In India:**

Mr. Ferry Hermawanto- Technical Service Manager, Nouryon. The presentation covered emerging agricultural trends in India and how Nouryon's innovative solutions address these evolving needs.

• **Revolutionizing Agriculture: Ensuring Farmer Safety and Sustainability through Patented Effervescent Tablet Technology:**

Dr. Yuvraj Patil, Chairman and Managing Director, BioFizz AgriTech Pvt Ltd. The presentation focussed on effervescent tablet technology, a breakthrough that enhances the efficacy and sustainability of pesticide applications.

• **Scope on Agrochemical Intermediate Manufacturing From India, Way to Reduce Dependency on China & Way Forward for Indian Agrochemical Companies:**

Mr. Pradeep Ghattu, President & COO Excel Industries Ltd. The presentation focused on backward integration of intermediates, helping the Indian Agrochemical companies to have control on the costs and on way to reduce dependency on imports and on disruption of supply chain which the world faced during the Covid-19 pandemic times.

• **Recovery in Agrochem in USA Plus India's Gain with Trump 2.0 Over China:**

Mr. Ajay Joshi-Consultant. The presentation gave overview of Global Chemical & Agrochemical industry and current state of Agrochemical Industry.



LEADERS IN AGRICULTURE RETAIL AND LANDSCAPING



Shaheen M. AlRubaie
General Manager



Established in 1985, AlShaheen Nurseries, Kuwait has been ever since developing itself as one of the leaders in the field of agriculture retail and landscaping. AlShaheen Nurseries provides a complete set of agriculture and gardening services. The team is run by well qualified engineers and experienced supervisors, with a long and successful track record in agriculture projects execution. The company is located in Shuwaikh, 4th Ring Road, Nurseries Area, Kuwait. It's our pleasure to introduce our wide range of services we offer the following:

- Landscaping and planting

division for indoor and outdoor gardens. Wholesale division (For Agricultural Companies only).

- Maintenance team for agricultural projects and house gardens.
- Designing and implementing irrigation systems.
- Wide range of indoor and outdoor plants.
- Wide range of flower and vegetable seeds.
- Different sizes and colors of plastic net shades.
- All kinds of natural and chemical fertilizers.
- Peat Moss, potting soil, hydroton.
- Agent and distributor of indoor and outdoor pots of different shapes and sizes.



AlShaheen Nurseries showroom is considered as a garden center for selling indoor and outdoor plants – Grass – Peat Moss – Potting Soil – Plastic Net Shades – Pots – Rocks – Seeds – Natural and Chemical Fertilizers – Agrilite – Irrigation Sys. – Water pumps – Insect





killer – Hydroton – Palm bags. The Company aims to provide many items to serve different customer's tastes, in addition to provide the best quality and less prices under one roof.

AlShaheen Nurseries owns a farm in Wafra area specialized in growing plants, flowers, and paspalum grass, runs by well qualified engineers to provide the market and the agricultural companies with the best varieties and quality. The farm is considered one of leading farms in Wafra in growing plants, flowers, and paspalum grass.

The Project Division is run by well qualified team of engineers

and supervisors to design landscape and maintain gardens. There is a team for designing & implementing irrigation systems.

The wholesale division was established in 2000 to provide

the Ministries and the agricultural companies with plants, garden tools and irrigation systems. Since then, the division has been supplying some of the leading government and private projects.





REVOLUTIONIZING CITRUS CULTIVATION WITH GROWINBAG™ BY GROWINNOVATE

Citrus growers are always seeking innovative solutions to optimize plant health, maximize yield, and improve overall efficiency in their operations. Traditional ground planting, while effective, presents several challenges, from soil-borne diseases to space limitations and inconsistent nutrient absorption. GrowinBag™ is transforming the way citrus fruits are cultivated, offering a practical, efficient, and scalable alternative for modern growers.

Superior Root Health and Drainage

One of the key advantages of GrowinBag™ is their ability to promote superior root health. Unlike conventional plastic containers or direct in-ground planting, these high-quality fabric bags ensure exceptional aeration and superior drainage. This prevents root circling and encourages a fibrous root system, which translates to stronger, healthier citrus trees with greater nutrient uptake.

Additionally, the breathable fabric prevents waterlogging, a common issue



in traditional potting methods that can lead to root rot. With GrowinBag™, excess moisture drains away naturally, maintaining the ideal balance of water and oxygen in the root zone.

Increased Mobility and Space Efficiency

Citrus growers benefit from portability and space optimization with GrowinBag™. Whether managing a commercial orchard or a boutique citrus farm, the ability to move plants with ease allows growers to adjust spacing, rotate crops, and optimize greenhouse or nursery layouts for maximum productivity. GrowinBag™ is also ideal for urban farming and containerized citrus production, providing a viable solution for those with limited ground space.

Enhanced Temperature Regulation

Temperature fluctuations can stress

citrus trees, impacting fruit quality and overall yield. The fabric composition of GrowinBag™ helps regulate root zone temperature by insulating against excessive heat and cold. Unlike plastic containers, which can overheat in direct sunlight, the breathable nature of GrowinBag™ maintains a consistent, favorable root environment throughout changing seasons.

Eco-Friendly and Sustainable

In an era where sustainability is a priority, GrowinBag™ offers an eco-friendly growing solution. Made from durable, reusable, and biodegradable materials, these bags help reduce plastic waste while supporting environmentally responsible farming practices. Their long lifespan ensures that growers can use them for multiple growing cycles, making them a cost-effective investment in sustainable agriculture.

The Future of Citrus Cultivation

As the demand for efficient, high-yield growing methods increases, GrowinBag™ is setting a new standard in citrus farming. Their superior aeration, improved drainage, portability, and sustainability make them an indispensable tool for growers looking to optimize production while ensuring plant health. By embracing this innovative approach, citrus farmers can unlock greater efficiency, healthier trees, and higher profits, all while contributing to a more sustainable agricultural future.

Whether you're growing oranges, lemons, limes, or specialty citrus varieties, GrowinBag™ offers a modern solution for today's citrus growers. It's time to revolutionize citrus cultivation—one bag at a time.

For more information, visit
www.growinnovate.com.au



HARVEST ROBOT ARTEMY® PROVES ITS VALUE AT THE VALLEY GROWERS

Together with The Valley Growers, part of Growers United, we've piloted the autonomous harvesting robot Artemy in their tomato greenhouses. Joost van der Voort, grower at The Valley, shares his experiences with this innovative technology, developed by Certhon in collaboration with DENSO. At the start of the pilot, both the grower and Artemy had to adapt. "In the beginning, it took some getting used to, both for Artemy and us. But I am truly impressed by how quickly the machine has evolved."

A solution for the future

Labor costs are rising, which has significant consequences for Dutch greenhouse horticulture. "Looking to the future, I see labor is becoming more expensive. Profitability is declining, so we need to find ways to cut costs. Robotics is a very effective way to reduce

The future of tomato harvesting is here. Artemy, the advanced harvesting robot developed by DENSO Corporation and Certhon, is now actively operating in a commercial greenhouse of 8 hectares at The Valley, cultivating both mini cherry and cocktail tomatoes on the vine. This marks a crucial milestone in solving labor shortages in greenhouse horticulture while enhancing efficiency and productivity.

labor expenses," says Van der Voort. The Valley operates in a European market where the Netherlands faces high labor costs compared to neighbouring countries. "Here, labor costs can easily go over 26 euros per hour, while in Belgium, it's much lower. But we serve the same customer, creating an uneven playing field. By innovating with robotics, we remain competitive."

Artemy in practice

During the pilot, various logistical challenges were addressed, where Artemy's flexibility and adaptability proved crucial. "A tomato is still a tomato, but the Japanese engineers had to make a few adjustments to ensure the Artemy functions optimally." The pilot has showcased Artemy's impressive potential. "I'm confident that with further refinement of the logistics, we can achieve

significant reductions in labor costs. This is why we're investing in this technology," says Van der Voort. He highlights the rapid progress of Artemy's development, adding: "It is a promising machine and I would say: keep an eye on it."

Robotics as the future of the sector

Van der Voort sees robotics as an essential part of the future of greenhouse horticulture: "The future of greenhouse horticulture depends on robotics. In the future, we simply won't be able to do without it." He hopes more companies will become trailblazers in this field to drive the sector forward: "The more companies get involved, the faster we make progress."

For more information, visit www.certhon.com

GARDENA UNVEILS NEW EASY AND EASY PLUS WATER CONTROLS FOR 2025 GARDENING SEASON

Europe's number one watering brand, GARDENA unveils its latest innovations for the 2025 gardening season: the brand-new Easy and Easy Plus water controls. These new products expand GARDENA's already comprehensive range of water controls, offering even greater convenience and precision for automated irrigation.

Designed in collaboration with plant experts, the Easy and Easy Plus water controls are engineered to simplify automatic watering, making it more accessible than ever for gardeners. Both models feature a user-friendly rotary knob

interface, with the Easy model offering 15 pre-defined watering schedules and the Easy Plus model providing an impressive 69 selectable options, catering to a variety of watering needs.

The compact and discreet design of these water controls fit seamlessly onto your garden tap. Powered by two standard AA batteries, the devices are built to last and are resistant to water pressure up to 10 bar, as well as being weather and corrosion resistant. For added convenience, the manual watering option allows you to fill a watering can or bucket directly from the tap without needing to remove the control.

GARDENA's new water controls are ideal for busy gardeners who want to ensure their plants are well-cared for, no matter where they are. Perfectly paired with GARDENA's Micro-Drip-System or sprinklers, these controls allow you to set a watering schedule that works best for your garden. Watering schedules

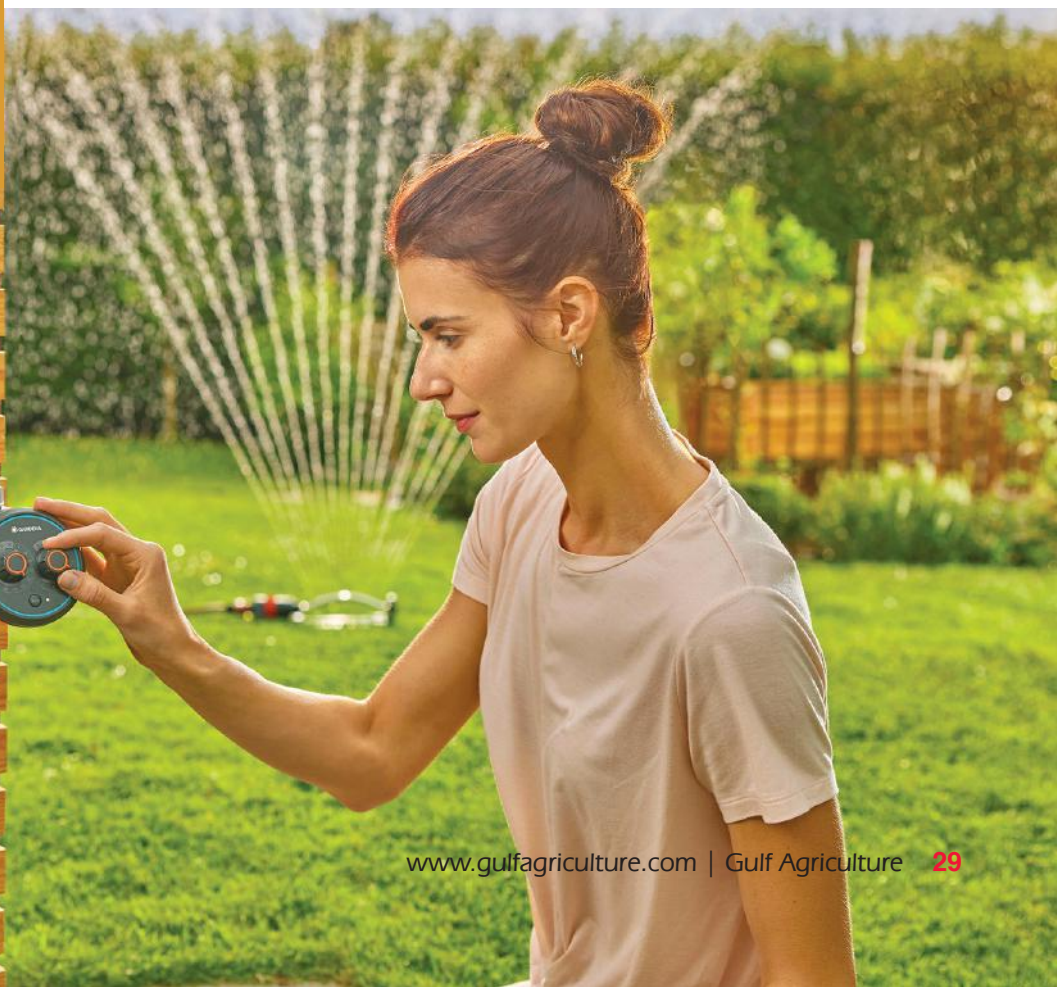
can be programmed for early mornings when the soil is cool, avoiding excess evaporation and conserving water.

The Easy model offers flexible watering frequencies from every eight to 48 hours and durations from 1 to 45 minutes. The Easy Plus model takes it a step further with dual rotary knobs for separate control of watering duration and frequency, with specialised settings for cooling tasks with extra short schedules.

Both models are also equipped with safe-stop technology, which automatically suspends irrigation if the battery levels are too low, ensuring that your garden is never overwatered.

With the launch of the Easy and Easy Plus water controls, GARDENA continues to lead the way in innovative garden solutions that save time, effort and allows you to water wisely, so gardeners can enjoy a lush and healthy garden effortlessly.

For more information, visit
www.gardena.com/uk



Crown Farms, the Fujairah-based organic farm management company, is excited to unveil its new line of organic fertilizers, marking a pivotal step in advancing the UAE's vision for sustainable agriculture and organic farming. This groundbreaking initiative not only reinforces Crown Farms' commitment to eco-friendly agricultural practices but also strengthens its portfolio by increasing In-Country Value (ICV) and reducing reliance on imports. With a focus on complete traceability and sustainability, Crown Farms aims to foster a self-sufficient, independent agricultural ecosystem that supports the nation's long-term environmental and food security goals.

Crown Farms' organic fertilizers are formulated to enhance soil fertility by enriching it with organic matter, improving both water retention and nutrient absorption. This process leads to healthier soil capable of supporting sustainable crop growth over the long term.

CROWN FARMS INTRODUCES ORGANIC FERTILIZER TO BOOST UAE'S SUSTAINABLE AGRICULTURE

With a rich blend of essential nutrients including Nitrogen, Phosphorus, and Potassium, these fertilizers ensure that crops receive the necessary components to thrive. The balanced nutrient profile helps maintain consistent and robust growth, making it a valuable solution for modern farming.

Additionally, these fertilizers adhere to the strict organic standards set by the UAE Ministry of Climate Change and Environment, ensuring safe and sustainable use in certified organic farms across the country. Free from harmful industrial chemicals, Crown Farms' fertilizers protect the environment by preventing contamination of soil, water, and crops. This chemical-free composition supports the health of agricultural ecosystems and reduces dependency on synthetic fertilizers. Moreover, the natural formulation promotes strong root growth, helping plants develop resilience to harsh environmental conditions. Produced to the highest standards, these

fertilizers are fully certified for use in organic farming, making them a trusted choice for farmers dedicated to sustainability.

Adrian Galben, General Manager of Crown Farms, said: "At Crown Farms, we are proud to be playing a pivotal role in shaping the future of sustainable agriculture in the UAE. Our new organic fertilizer is more than just a product—it is a step toward achieving agricultural independence and reinforcing the UAE's commitment to sustainability and food security. By empowering local farmers with cutting-edge, eco-friendly solutions, we are helping to reduce reliance on imports, ensuring traceability from farm to table, and building a resilient agricultural ecosystem. This project reflects our dedication to aligning with the UAE's vision for a greener, more self-sufficient future in food production."

For more information, visit www.crownfarms.ae



Adrian Galben
General Manager

CITRUS-BASED ALTERNATIVE TO AGRICULTURAL PESTICIDES DEVELOPED BY RUSSIAN SCIENTISTS

Scientists at the Southern Federal University (SFedU) have developed an eco-friendly alternative to toxic pesticides using citron juice, a breakthrough that could help prevent the 14% global crop loss caused by post-harvest pathogens. The innovative method produces silver nanoparticles with potent antibacterial properties, offering a sustainable solution to one of agriculture's most pressing challenges.

The research, published in *Discover Nano* journal, demonstrates a significant advancement in sustainable agricultural technology. The international team, including collaborators from China, India, and Poland, developed the method under Russia's Priority 2030 national research initiative.

"This technology could revolutionize how we protect our harvests," says Dr. Sudhir Shende, lead researcher at SFedU. "Our green-synthesized silver nanoparticles have shown remarkable antimicrobial activity against several phytopathogenic molds that typically devastate post-harvest crops."

Laboratory tests revealed impressive antifungal properties against notorious crop destroyers, including *Aspergillus niger*, *Aspergillus flavus*, and *Alternaria alternata*. These fungi, responsible for significant crop losses worldwide, have historically been combated with chemical pesticides that raise environmental and health concerns.

The innovative approach uses citron (*Citrus medica* L.) juice to synthesize silver nanoparticles through a process that Dr. Tatyana Minkina, head of the Soil Science Department at SFedU, describes as "remarkably simple and cost-effective." She emphasizes that the method is not only environmentally friendly but also scalable for industrial production.

"What makes this development particularly exciting is its potential for mass implementation," Dr. Minkina explains. "We've created a sustainable process that could be scaled up without compromising its environmental benefits or effectiveness."

The timing of this breakthrough is particularly significant as agricultural producers worldwide are increasingly moving away from toxic pesticides and fungicides, seeking greener alternatives that don't compromise crop protection efficiency.

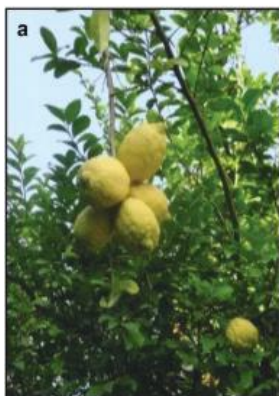
This development comes as part of a larger global shift toward sustainable agricultural practices. The researchers suggest their method



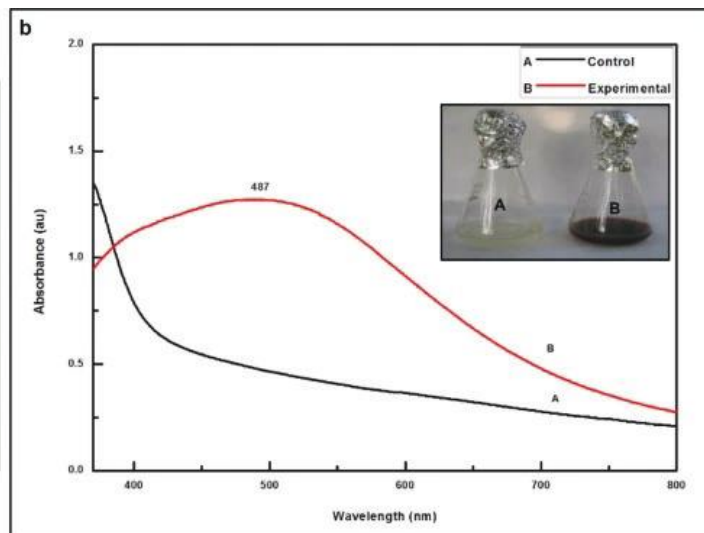
Dr. Sudhir Shende

could be further refined to create even more effective crop protection strategies, potentially transforming how farmers worldwide protect their harvests from devastating pathogens.

The project was funded through Russia's Priority 2030 academic excellence program, which aims to enhance the country's research capabilities in critical areas including agricultural sustainability and food security.



Citrus medica (L.) with citron fruits



HOW INSECTICIDES ARE SHAPING THE FUTURE OF AGRICULTURE

Insecticides have played a pivotal role in modern agriculture, safeguarding crops from harmful pests that threaten food security. As the global population continues to rise, farmers are under increasing pressure to maximize yields and ensure sustainable farming practices. Insecticides are evolving with advancements in biotechnology, precision agriculture, and environmentally

friendly formulations. According to Persistence Market Research, Insecticides Market Segmented By chemical composition of the insecticides such as organophosphorus compounds, pyrethroids, neonicotinoids, methyl carbamates, and others with crops type such as cereals & grains, oilseeds & pulses, fruits & vegetables, and others. Insecticides are specialty chemical products used

particularly to control a variety of insects and disease carriers, such as ticks, mites, spiders, mosquitoes, rats and mice. Pesticides are also used in agriculture, horticulture, floriculture, public health, industrial applications, domestic, and commercial waste management program. This article explores how insecticides are shaping the future of agriculture and ensuring global food security.

The Importance of Insecticides in Modern Farming

1. Pest Control for Higher Yields

Insects such as aphids, caterpillars, and beetles can cause significant damage to crops, leading to lower yields and economic losses. Insecticides help prevent infestations, ensuring farmers can produce sufficient food to meet market demands. Without proper pest management, global crop losses could reach



up to 40%, severely impacting food supply chains.

2. Protection Against Emerging Pests

Climate change and global trade have introduced new pest species in regions where they previously did not exist. These invasive species pose new threats to agriculture, and insecticides provide an essential tool to control their spread and prevent crop devastation.

3. Ensuring Food Security

With a growing world population expected to reach 9.7 billion by 2050, food security remains a critical concern. Insecticides allow farmers to protect staple crops such as wheat, corn, and rice, ensuring a steady supply of food. Effective pest management reduces food waste and helps stabilize prices in the global market.

Innovations in Insecticide Development

1. Biopesticides: The Eco-Friendly Alternative

Biopesticides, derived from natural substances like bacteria, fungi, and plant extracts, are gaining traction as an environmentally friendly alternative to chemical insecticides. These solutions target specific pests without harming beneficial insects such as bees and butterflies. As consumer demand for organic and sustainable farming grows, biopesticides are expected to play a larger role in the future of agriculture.

2. Precision Agriculture and Smart Insecticides

Advancements in agricultural technology have led to the development of smart insecticides, which use sensors, drones, and artificial

intelligence to target pest populations with high precision. This minimizes chemical overuse, reducing environmental impact while maximizing effectiveness. Farmers can now apply insecticides in precise quantities and locations, improving efficiency and reducing costs.

3. Genetically Modified (GM) Crops with Built-in Resistance

Biotechnology has enabled the development of genetically modified crops that produce their own insecticidal proteins. For example, Bt (*Bacillus thuringiensis*) crops naturally repel pests, reducing the need for chemical applications. These GM crops help decrease the environmental footprint of farming while maintaining high yields.

4. Nanotechnology in Insecticide Formulation

Nanotechnology is revolutionizing insecticide applications by creating nano-sized particles that improve the absorption and effectiveness of active ingredients. These formulations enhance the efficiency of pest control while reducing the amount of chemicals released into the environment.

The Environmental and Health Considerations

1. Reducing Pesticide Resistance

Overuse of chemical insecticides has led to pesticide resistance in certain pest species, making them harder to control. Scientists are developing integrated pest management (IPM) strategies that combine chemical, biological, and cultural practices to minimize resistance and maintain long-

term effectiveness.

2. Protecting Pollinators and Beneficial Insects

Pollinators like bees play a crucial role in agriculture, and the indiscriminate use of insecticides has raised concerns about their declining populations. The future of insecticides will focus on formulations that target harmful pests while preserving beneficial insects, ensuring ecosystem balance.

3. Eco-Friendly Application Techniques

Innovative spraying methods, such as electrostatic sprayers and controlled droplet application (CDA), are being developed to reduce insecticide drift and environmental contamination. These techniques improve precision, decrease chemical waste, and protect surrounding ecosystems.

The Future of Insecticides in Agriculture

The future of insecticides lies in balancing productivity with sustainability. As research and innovation continue to advance, we can expect:

- More sustainable and biodegradable insecticides that break down harmlessly in the environment.
- Increased use of AI and machine learning to optimize pest control strategies.
- Greater reliance on biological control methods to minimize chemical dependency.
- Improved regulations and monitoring to ensure safe and responsible use of insecticides.

By integrating these advancements, insecticides will continue to be a cornerstone of agricultural success, ensuring food security while protecting the environment.

Active dehumidification is the control tool for positively influencing growing conditions, achieving substantial energy savings and also avoiding diseases.

Bosman Van Zaal has been realising customised dehumidification solutions for customers such as WUR Wageningen, Bayer Crop Science, B-Four Agro and Grow-up Farms since 2015.

Bosman Van Zaal has now managed to translate these customised solutions into a series of dehumidifiers that are plug-and-play applicable for a wide range of crops and growing systems. Whether in high-tech climate chambers, growing potted plants or fruiting vegetable crops, the innovative OptiDry dehumidifiers can be

implemented seamlessly in any cultivation system.

Bosman Van Zaal started a development process for the OptiDry series of dehumidifiers several years ago. These models use the natural refrigerant R290 (propane), which, with a GWP of just 3, barely contributes to the greenhouse effect.

The OptiDry series offers a future-proof solution. Thanks to the use of R290, these dehumidifiers meet all current and future legal requirements. Moreover, R290 has more favourable energetic properties than synthetic refrigerants, resulting in lower energy consumption and operating costs.

With the OptiDry series, you choose a sustainable, efficient and legally compliant solution for dehumidification in horticulture.

OptiDry series: innovation with future perspective

The OptiDry series consists of two basic type dehumidifiers:

- The OptiDry Compact X which are connected to an outdoor unit (chiller or buffer)
- The OptiDry Advanced DX (stand-alone dehumidifier, cooling & heating)

The OptiDry Compact X

The OptiDry Compact X is designed to dry air very efficiently and can be easily connected to an existing or new chilled water or freecooling circuit by drycooling or basin water. The X stands for cross flow heat exchanger, which is integrated into the unit. Using this additional heat exchanger saves 30-50% on cooling capacity. The OptiDry Compact X is available in two different versions to suit every growing situation.

The OptiDry Advanced DX

The OptiDry Advanced DX is a compact, efficient unit designed for drying, cooling and heating air in a plug-and-play format. These units can be easily installed in greenhouses or added to existing plant growth chambers for improved dehumidification.

For more information, visit www.bosmanvanzaal.com

THE OPTIDRY DEHUMIDIFICATION UNITS: SPECIFICALLY DESIGNED FOR HORTICULTURE



NEW CASE IH QUANTUM TRACTOR PROVIDES MORE PERFORMANCE FOR SPECIALIST BUSINESSES

The 80-120hp Case IH Quantum tractors, available in V (vineyard), F (fruit), N (narrow) and CL (row crop) versions, gain new features for 2025 that bring additional capabilities and performance from these specialist models. The upgrades are designed to also boost comfort to ensure the operator gets the maximum from the machine.

Among the upgrades to the operator environment is the new optional cab suspension on CL & F versions, and a new premium seat with enhanced cushioning on all versions for greater comfort and fatigue reduction over long working periods. Detailed ergonomic enhancements designed to make the driver's work easier include more functions for the electronic joystick that controls the remote valves, now including rear hitch raise/lower

control. To further enhance the tractors' driving experience and efficiency, an upgraded main transmission provides smoother shifting and operation. Time taken to attach implements is reduced through the introduction of new external hitch controls on the rear of the tractor.

Models specified with 4wd – both standard and suspended front axle types – incorporate a new steering sensor that disconnects 4wd automatically when the wheels are turned, for reduced soil damage and driveline stress. As a result, farm productivity is enhanced through minimized ground disturbance, and the lifetime of mechanical components is boosted through minimized component wear.

Elsewhere on the new Quantum tractors, the hydraulic pipework that supplies the front remote valves on cab

tractors has been improved for enhanced support, and there are now optional narrow fenders available for low-profile (LP) Quantum versions.

The new Quantum models are easily identifiable by striking new styling that matches the family look of larger Case IH tractors. Blending style with functionality, the tractors' new look is matched by LED turn/indicator lights integrated into the cab A-pillars, providing not only high levels of illumination, but protecting the lights from branches and other potential causes of damage. The new Quantum with CL specification is now also available with a narrow rear fender option with Z-type rear arms to ensure easy navigation of narrow rows.

For more information, visit www.caseih.com



RUMEN-PROTECTED FAT SUPPLEMENTS IN DAIRY DIETS

Fill energy gaps and lift individual cow performance by feeding rumen-protected fat

Rumen-protected fat supplements like Megalac allow dairy farmers to efficiently meet herd energy demands while targeting specific areas of cow performance to optimise milk contracts.

Dairy producers looking to optimise herd performance against their feed budget will benefit by including rumen-protected fat supplements in rations, says Dr Richard Kirkland, Global Technical Manager for Volac Wilmar Feed Ingredients.

An essential nutrient in dairy rations, cows typically need 15 to 20 percent of their metabolisable energy (ME) to come from fat which may be equivalent to over 6 percent fat in the ration dry matter (DM) for high-yielding cows.

"These key feed supplements help ensure the fat requirements of the animal are met while also providing a concentrated source of energy without adding to the acid load in the rumen as is the case with starchy cereal energy sources. Looking at the blend of fatty acids within a fat supplement offers the ability for farmers to target specific areas of cow performance to support their milk contract," explains Dr Kirkland.

Energy density and rumen function

In rations based on forage and cereals, meeting energy requirements with a nutrient-dense and rumen-safe ingredient is essential.

"High-quality silages provide additional energy and nutrients than more-mature cuts, but lower fibre concentrations will reduce rumen buffering effects, which combined with rapidly-fermentable starch sources can compromise rumen pH and lead to an increased risk of acidosis and milk fat depression," says Dr Kirkland.

"Buffer feeding with straw may be an option to slow feed down in the digestive system, but it will also fill the rumen with a low-quality feed bulk that can compromise energy intake and milk protein. The high energy density of fat is an ideal way to increase energy supply without risk of rumen upset", advises Dr Kirkland.

As a macronutrient, fat is energy dense with 500g of a fat supplement like Megalac increasing energy density by 0.5 MJ/kg DM. Compared to cereals, it contains over 2.5 times the energy density while protecting rumen function, and improving milk production and feed efficiency.

Targeting areas of cow performance

"Aside from its energy density benefits, individual fatty acids that make up rumen-protected fat supplements influence the partitioning of nutrients and have differing effects on specific areas of performance. This allows farmers to utilise specific fat supplements to target outputs that will benefit their milk contracts or herd challenges," says Dr Kirkland.

"For autumn calving cows in early lactation, the challenge is to improve body condition score and get back in calf. As a general rule, each one-unit loss in body condition score will reduce conception rates by about 10 percent. During this early lactation period, C18:1 (oleic acid) is the key fatty acid to deliver to the small intestine for absorption as the latest research demonstrates its effect on insulin status, increasing partitioning of energy and nutrients to improve body condition," explains Dr Kirkland.

"For cows in the post-peak period of lactation, supplementing with products containing high levels of C16:0 (palmitic acid) will increase the partitioning of nutrients to milk, which in turn will improve milk and milk fat production. However, these high-C16:0 formulations should be used with some caution in early lactation as they may lead to increased production at the expense of body fat stores and cows lose body condition, advises Dr Kirkland. Products such as Mega-Fat 70 have C16:0 fatty acid to improve milk fat but are balanced with C18:1 to provide additional benefits and should be considered in this period."

Rumen-protected fat supplements for a 'catch-all' solution

"From supporting body condition and conception rates to milk production, meeting energy requirements is essential for the short and long-term performance of a dairy herd," says Dr Kirkland.

"The multi-purpose benefits of rumen-protected fat supplements make them a great catch-all ingredient in dairy rations to give farmers a greater return on investment from their feed inputs," concludes Dr Kirkland. "There are a lot of feed ingredients that will fulfill one role in a ration – but only rumen-protected fat delivers a highly-concentrated energy source without risk to rumen function, and enabling specific areas of herd performance to be targeted."

For more information, visit www.volac.com

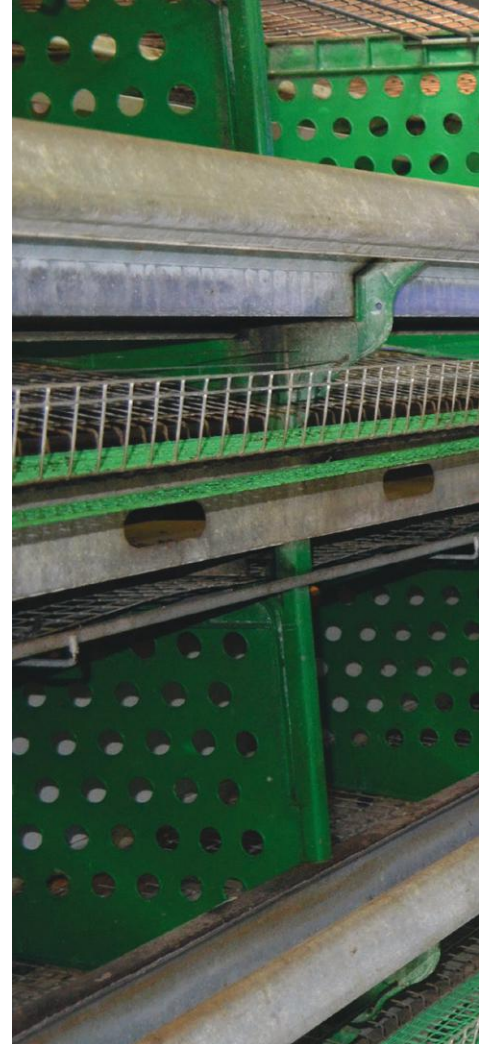


The importance of poultry farm hygiene

Hygiene is a key part of managing any poultry farm. Dust, feathers, and manure can build up in cages, creating the perfect environment for harmful bacteria and viruses to grow. These pathogens can spread quickly, causing illnesses that harm bird health and reduce

Unique features of Venus 2.0

- Setting cleaning programs via the app makes the process more convenient and simpler. Through the app, users can set the height and width of the nozzles and the cleaning times for each row of cages.
- The nozzles can be adjusted to clean the inside



SMART CAGE CLEANING WITH JAPANESE TECHNOLOGY

farm profits.

Many farms still rely on manual cleaning, but this method has its limits. Humans can miss spots or fail to clean thoroughly, and hiring workers for this task can be expensive. Additionally, cleaning by hand exposes workers to potential health risks.

Automating cleaning tasks

To make cleaning easier and more effective, automated solutions like the Venus 2.0 cage-cleaning robot are becoming popular. This type of robot can clean 24/7, providing consistent hygiene throughout the farm.

of the cage, its ceiling, bottom, egg conveyor, and feed trough.

- By automating cleaning tasks, farms can rely less on manual labor, lowering costs and allowing workers to focus on other jobs.

The principle of operation of the robot

The robot moves up and down the aisles between cages, spraying high-pressure water or cleaning solutions. When the robot finishes one row, it automatically slides down to move to the next row of cages. Farmers can control how often the robot cleans

and adjust the angle of the nozzles for better results.

Why automation matters

In the context of poultry farming, automating the cleaning process provides a structured approach to sanitation, which is essential in breaking the cycle of contamination that can lead to disease outbreaks and financial losses.

Moreover, automation supports resource management by optimizing time and labor. Tasks that traditionally require significant human effort can be streamlined, allowing workers to focus on other



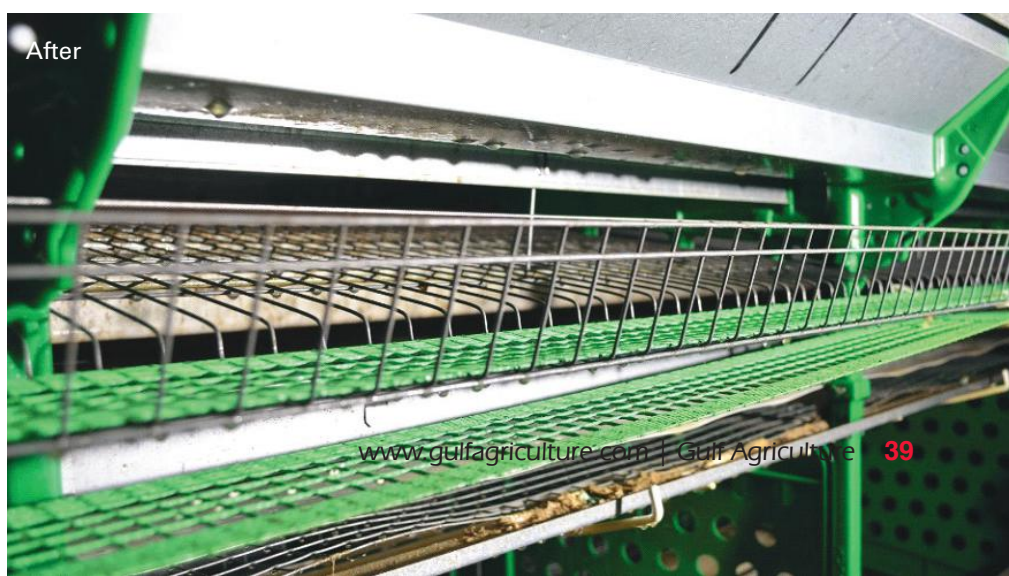
Before

aspects of farm management. This shift not only enhances productivity but also reduces the physical strain on workers.

The role of automation in farming is not just about replacing manual processes — it represents a step toward smarter, more sustainable agricultural practices. By adopting automated systems, farms can better adapt to the increasing demands for efficiency, biosecurity, and environmental stewardship in modern agriculture.

For more information, visit
www.kohshin-s.jp

January-February 2025



After



SUSTAINABILITY IN THE FOOD CHAIN REQUIRES A DATA ECOSYSTEM

Making the food chain more sustainable brings to mind issues such as animal nutrition, soil management, and reducing water use. But working on these issues is only part of the overall approach because sustainability requires first and foremost supply chain transparency. Mapping actual feed and farm and farm data per location is essential for emissions reductions.

The agricultural sector is a patchwork of thousands of different businesses each with their own characteristics. To focus on this colorful patchwork, we take the poultry sector as our starting point. Not without reason, as the Dutch

consumed meat in the world and consumption is set to increase, not just because the world's population is growing, but also because there is a growing demand for high-quality proteins. Yvonne van der Vorst, Director of Business Solutions and Strategic Product Marketing of the Dutch agricultural cooperative Agrifirm, also endorses the real expectation that the global demand for poultry meat will continue to increase.

In that context, she also emphasizes that it is not exclusively about more meat production for feeding people. According to her, it is more specifically about producing the best possible meat from highly productive farms responsibly and sustainably. "If you consider that on a global scale, there is there is a huge opportunity, but also a

poultry sector makes an important contribution to feeding the world's population. The sector exports more than four billion euros to the European Union (EU) and a further 800 million euros beyond the EU.

Chicken is the most

huge job, to get that done."

Dr. David Nickell, Vice President of Sustainability & Business Solutions at dsm-firmenich Animal Nutrition & Health, agrees: "Poultry meat is a very accessible and affordable protein product of high quality. The global poultry sector thus plays an important role in feeding a growing world population. What is particularly important here is to do that in the most effective, efficient, and sustainable way. These objectives go hand in hand: an efficient production system should lead to more production with fewer resources and therefore better sustainability."

The primary challenge of this task lies in the scale and complexity of the entire supply chain. The food sector is comprised of numerous companies with their own objectives, from suppliers to food retailers.

Van der Vorst emphasizes that this collaboration relieves poultry farmers of administrative burdens. Data is systematically recorded and presented through dashboards, while ensuring privacy. "Farmers won't need to do extra paperwork. At the same time, they gain better insights into their operations and learn how to reduce their CO₂ footprint and improve animal performance more efficiently."



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