

OCTOBER - DECEMBER 2022

LIVESTOCK & POULTRY

MIDDLE EAST & ASIA



**ANIMAL
HEALTH**

**LIVESTOCK
FODDER**

**POULTRY
FEEDING SYSTEMS**

**WASTEWATER
TREATMENT**

**HORSE TRACKING
TECHNOLOGY**

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SYSTEM FOR **SPECIALTY FEED**
INGREDIENTS AND THEIR MIXTURES.

OUR VISION

Excellence and Trust in Specialty Feed Ingredients.

OUR MISSION

We set the worldwide leading accredited scheme for the feed industry contributing to safe food. We facilitate trade, driven by uncompromised focus on risk management, safety and quality. With our collective experience, knowledge, and expertise, we proactively respond to the emerging challenges for the specialty feed ingredients and their mixtures.

Key Features

- Accredited Feed Safety Management System
- Dedicated chapter on **Good Manufacturing Practices** including Human Health
- HACCP supporting document per manufacturing
- Additional Mandatory Feed **Fraud Prevention** and Feed Defence module
- Unannounced **audits**
- **Transparency** on the certification scope of certified feed business through our public list
- **Facilitate** the worldwide trade of Specialty Feed Ingredients and their Mixtures

FEED SAFETY - QUALITY - INTEGRITY

FAMI-QS is a preeminent quality and feed safety management system for the sector of specialty feed ingredients and their mixtures. With our collective experience, knowledge, and expertise, we proactively respond to the emerging challenges for the specialty feed ingredients and their mixtures.

LIVESTOCK & POULTRY

MIDDLE EAST & ASIA



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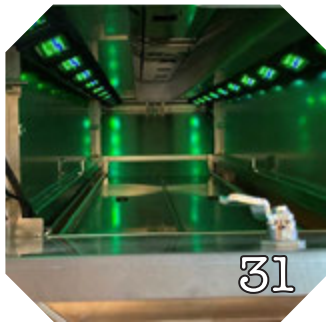
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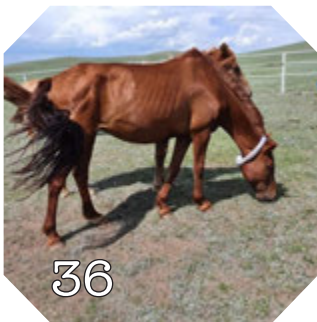
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Livestock & Poultry Middle East & Asia is designed to serve the fast growing livestock and poultry sectors in the Asia and Middle East region by providing the expert information to our readers in our four comprehensive issues in a year. It is circulated throughout Middle East region and worldwide in addition to the extra distribution at various Livestock, Poultry, Aquaculture and Agriculture Shows. The magazine provides editorial coverage on a wide range of topics which are of interest to industry professionals.

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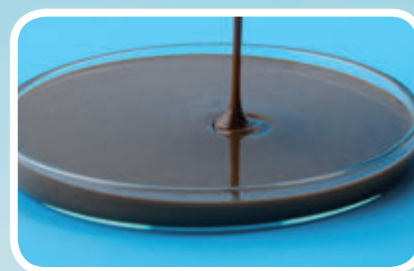
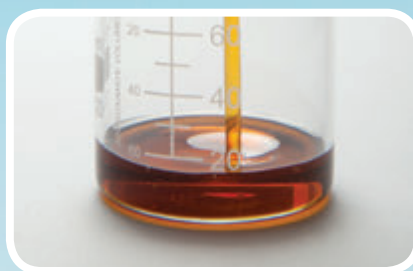
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News

FOOD SECURITY & SUSTAINABLE AGRICULTURE AT THE HEART OF THE MIDDLE EAST STRATEGIC DEVELOPMENT

The 4th edition of VIV MEA, the international trade show from feed to food for the production & processing of poultry meat, eggs, fish and dairy in the Middle East and Africa, takes place from 20-22 November 2023. VIV MEA brings together the livestock world with 500+ global and regional suppliers from the entire supply chain of all animal species production. Strongly business-driven, with a clear focus on innovation, technology and scientific research, VIV MEA is by far the top show for the animal husbandry industry in the whole region since 2016 when the first edition took place.

Alongside the VIV MEA

trade show, wholly focused on animal based protein as usual, the organizer VNU Europe will separately bring extra contents and products from suppliers of controlled environments and precision agriculture as well as innovations and technologies for smart food production, covering topics such as: plant based protein production; improved nutritional value and health; organic food concepts; increase yields programs; control pests solutions; water saving systems; energy use management; and more.

"At VIV MEA, we strive to bring delegations and industry

leaders from all over the world to share their global perspective on a variety of agri-food topics. In fact, we are looking forward to welcoming approximately 8,000 visitors from around the world, and especially from the GCC," affirmed Mrs. Renate Wiendels, Senior Project Manager, VIV worldwide.

VNU Europe invites all professionals in the field to save the date for an event of business networking, knowledge and future-focused discussions shaping the next standards in agri-food production.

See you at ADNEC in Abu Dhabi, U.A.E. from 20-22 November 2023.

INTRODUCING PERCURO – A SUSTAINABLE & ENVIRONMENTALLY FRIENDLY PETFOOD BRAND, LAUNCHING IN THE UAE!

When it comes to pet food, many people are not aware of the ingredients in the products they buy. Traditionally, petfood has been the by-product of the human food industry, using the waste from slaughterhouses and subsidized filler grains, such as corn and wheat which don't belong in the animal diet. As a result, many pets suffer from skin allergies and gastrointestinal issues, hence the emergence the "hypoallergenic" petfood mega category. Many brands have started incorporating better quality

livestock ingredients from traditional sources, but another looming issue remains.

A little-known fact is that we share our planet with 500 million companion cats and dogs, who consume an earth-shattering 20% of the world's meat, poultry, and fish. Livestock farming contributes 18% to global CO₂ emissions, making the petfood industry one of the largest contributors to climate change.

Launched in 2020 in the UK, and now available for the first time in the UAE,

PERCURO PETFOOD is doing their share in solving the sustainability problem by replacing livestock petfood ingredients with clean insect protein, resulting in a 98% environmental toll reduction. PERCURO'S innovative product is also naturally hypoallergenic and better for your pet, since antibiotics and hormones are not required in insect farming, such is the case with traditional livestock. PERCURO PETFOOD is made entirely from clean insect protein and plants, all ethically sourced in the EU.



Signs



Housing &
Management



Feeding & Nutrition

Can you **stop heat** from becoming a stress?

Achieving an effective heat stress strategy for your dairy herd requires you to focus on three fundamental areas.

Alltech experts can help evaluate your current heat stress strategy and provide nutritional advice and technologies, such as Optigen®, Yea-Sacc®, Sel-Plex® and Bioplex®, to optimise your dairy herd's rumen function and feed intake, ensuring your animals stay profitable and heat stress-free.

To learn more, contact your local Alltech representative or visit our website:

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NEOGEN® LAUNCHES SYNERGIZE® DISINFECTANT IN EUROPE, THE MIDDLE EAST, AFRICA

Neogen Corporation (NASDAQ: NEOG) announced that it has launched its trusted Synergize® disinfectant in Europe, the Middle East, and Africa.

Synergize has been at the forefront of biosecurity and research practices in North America for more than 20 years, trusted amongst the swine, poultry, cattle, equine, and companion animal industries to stop the spread of disease before it starts.

“Our Synergize disinfectant has long been trusted in North America to protect people and animals,” said John Adent, Neogen’s President and CEO. “We are pleased to be able to bring this valuable solution to Europe, the Middle East, and Africa, helping to enhance biosecurity portfolios around the world and keeping the food chain safe and secure

from harmful diseases.”

Synergize disinfectant is a combination quaternary ammonium and glutaraldehyde multi-purpose disinfectant that is non-corrosive to hard surfaces, killing both Gram-negative and Gram-positive bacteria, fungi, spores, and viruses. It can be applied on both hard and porous surfaces with a cloth, sponge, mop, mechanical spray device, or in boot baths or soaking tubs. The disinfectant is approved by governments around the world, including the U.S. Environmental Protection Agency, Health Canada, and now the UK Department for Environmental, Food and Rural Affairs for General Orders, Diseases of Poultry and Foot and Mouth Disease. Neogen has also widened the scope of its efficacy testing to include EN testing, encompassing

European Standards.

Synergize can be used in combination with Neogen’s comprehensive suite of biosecurity products, including apparel, cleaners, and disinfectants, including:

- Neogen Viroxide Super™: A peroxygen disinfectant that offers rapid broad-spectrum disinfection for the disinfection of animal housing, equipment, and other non-porous surfaces.
- Farm-Foam™ EVO: A foaming, alkaline cleaner used to remove organic soils in livestock and poultry facilities, including hatcheries, and other animal facilities.
- AccuPoint® NG: A handheld sanitation monitoring device that measures the level of adenosine triphosphate (ATP) on a surface and provides fast, precise, and easy-to-monitor testing data.

**INTERNATIONAL CROP-SCIENCE
CONFERENCE & EXHIBITION**

EXCLUSIVE EVENT ON AGRI INPUTS IN UAE

16 & 17 FEBRUARY 2023

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ORDER SIGNED WITH A LARGE POULTRY PRODUCER

MTech Systems, a Munters company within business area FoodTech, secures an important Software-as-a-Service (SaaS) contract with one of North America's largest poultry producers. The order has a value of MUS\$ 4.3 (approximately MSEK 46).

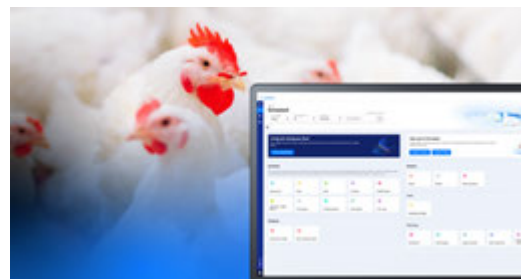
MTech Systems will deploy the Amino platform, its newest and most innovative SaaS solution. The contract represents the establishment of a long-term partnership to enable the poultry producer to better control and analyze their full value chain including breeding, hatching, feeding and growing.

"This vital partnership continues the successful execution of our strategy focused on helping feed

our growing world population. I am excited by the number of top producers that commit to our vision for monitoring and optimizing the entire food value chain to improve sustainability and animal welfare," says Pia Brantgärde Linder, Group Vice President and President FoodTech.

This agreement demonstrates the recognition of MTech System's products and services value within the industry. The software solutions and consulting effort will result in a consolidation and standardization of the producer's many food production complexes across the US.

"I am energized to add this important poultry producer to our significant North American client base, solidifying our role as the



number one software solution provider for the industry. We look forward to further innovation and progression toward our common goals of sustainable and responsible food production," says Marcel Cohen, President of MTech Systems.

The project will commence in second quarter of 2023 with completion of all sites by second quarter 2024.

EVONIK HAS LAUNCHED NEW SUSTAINABILITY PODCAST

Evonik has launched a brand-new podcast dedicated to tackling the sustainability challenges facing the animal protein industry. In monthly episodes, the Sciencing Podcast will feature leading industry experts and explore the key sustainability challenges and opportunities facing the animal protein industry as it looks to reduce its environmental footprint.

"As the world population grows and demand for food increases, global solutions are needed to feed future generations healthily, while protecting our planet", says Gaetano Blanda, head of the Animal Nutrition business line of Evonik. "We are on fire to develop such solutions, and to foster the

dialogue within the industry."

The Nutrition & Care division of Evonik, to which the Animal Nutrition business line belongs, has made sustainability its leading business principle.

Listeners to the podcast will receive cutting-edge insights on the science of sustainability, the solutions needed to make animal nutrition and protein production more sustainable and why, ultimately, it makes good business sense.

The Sciencing Podcast is presented by Evonik Animal Nutrition's Director of Sustainability, Faazi Adam. She has her finger firmly on the pulse of the industry, with an extensive background in Environmental, Social and Governance (ESG) risks in

the global food sector.

"We're really excited to be launching The Sciencing Podcast, which will be drilling down into the critical topic of how we can innovate and collaborate to improve environmental impacts in the animal protein sector", says Faazi.

"Ensuring sustainable global food production is the greatest challenge we face. It is no understatement to say it affects each and every one of us. That's why we're here to 'science' it and we invite you to join us on that journey and subscribe to The Sciencing Podcast today."

Listeners can follow the podcast for free on various platforms such as Amazon Music, Apple Podcasts, and Spotify.

AVIAGEN EAST AFRICA CELEBRATES GRAND OPENING OF NEW GRAND PARENT FARMS

Aviagen® celebrated the grand opening of its greenfield project, Aviagen East Africa Limited, on 2 September in Arusha, Tanzania. Aviagen East Africa Ltd is a joint venture company between Aviagen, African Poultry Development Limited (APDL) and Country Bird Holdings Limited (CBH). Aviagen East Africa consists of new Grandparent (GP) farms and a Parent Stock (PS) hatchery.

The Aviagen executive team were joined by key customers and Ministry and Government officials for the event. The event was opened by District Administration Secretary Joseph Mabiti and the Chairman on the Board of Directors for Aviagen East Africa Kester Lyaruu gave a welcome speech to all attendees. Other speakers included: Aviagen CEO Jan Henriksen, District

Commissioner Hon. Tom Apson and our guest of honour, Minister of Livestock and Fisheries Hon. Mashimba Mashauri Ndaki.

During the event, attendees were also given a tour of the facilities, which was led by Tommy Taylor, Senior Operations Advisor, TMEA, who is supporting this project to ensure the operation will produce high quality broiler breeder chicks.

Aviagen currently supplies all major poultry producers in the East African region with PS from our UK and European supply bases. From December 2022, Aviagen East Africa will be fully operational and customers in the region will begin receiving Ross 308 PS from our new regional supply base.

“Aviagen’s vision is to provide communities with the most affordable, sustainable

and high quality source of protein. The continent of Africa is continuously growing each year, and through our new regional production base, we are able to provide local employment opportunities for people who understand the local requirements and also speak the local language, but more importantly, we can continue to feed the world. I would like to thank everyone who has assisted in making this project a success, especially the local communities and the Government, who have supported us from the beginning, and to the people who are still working on the project. I look forward to witnessing the future development of the East African poultry industry,” commented Tom Exley, President, Turkey, Middle East & Africa (TMEA).

BIG DUTCHMAN INNOVATION: IDOL 29 SENSOR FOR CONTROL PANS NOW WITH INTEGRATED LED ILLUMINATION

Big Dutchman is offering a new, smart sensor for broiler feeding: the German poultry equipment supplier has integrated an LED lamp in its proven iDOL 29 sensor, which registers the feed level in the second to last feed pan. “Tests have shown that illuminated feed pans attract broilers,” explains Big Dutchman product manager Philipp Klomburg. Poultry managers can thus be sure that their flock empties the control pan, guaranteeing that the entire feed line will be refilled as required.

“Farmers can easily configure

the sensor settings, for example lighting duration or switch-off delay, using a smartphone app,” says Klomburg. An NFC chip integrated in the smartphone reads the data provided by iDOL 29.

NFC stands for “Near Field Communication”, a technology that is also used at supermarket checkouts. Similarly to a payment card, farmers can touch their smartphone to the sensor. This opens an app in which settings can be configured and transferred to all other control pans in the barn.

Existing systems are easy to

retrofit. The sensor is connected to the translucent inner cylinder so no additional assembly work is required.

iDOL 29 is an enhancement for the feed pan models Fluxx 330, Fluxx 360 and Viva 330.





AL ALIYO
HYDRO FARMS

Hydroponically grown, fresh kitchen staples.

At Al Aliyo Hydrofarms, we grow a range of exotic vegetables such as garlic greens, spring onions, fenugreek leaves, and mustard leaves.

Our vegetables are grown hydroponically, and are available all year round. They are grown naturally and are devoid of any chemicals, pesticides and fertilizers.

Rich in nutrients such as vitamins A, C, B6, minerals and anti-oxidants, they add excellent flavor to your dishes.



Hydroponic fresh fodder for animals

Al Aliyo Hydrofarms is changing the livestock farming industry by providing fresh, green fodder at your doorstep. Presently, our fodder menu consists of barley grass, corn grass, wheat grass and alfalfa grass.

Grown hydroponically without any chemicals or pesticides, our fodder improves and enhances the health and well-being of your animals.

With enhanced nutritional content and hygienic sanitary growing processes, our fodder is an excellent addition or replacement to synthetic feeds, and reduces your feeding costs.

FRESH GRASS ANALYSIS NOW AVAILABLE ON THE NUTRIOPT ON-SITE ADVISER

Trouw Nutrition introduces a new calibration curve for fresh grass, which farmers can use on their own farm to analyse the quality of their own fresh grass within 10 minutes. This innovation represents a step forward in precision feeding, because with this calibration curve, dairy rations can now be formulated even more accurately and economically. The new calibration curve is available in the NutriOpt On-site Adviser, Trouw Nutrition's mobile NIR.

Maximum animal performance requires sophisticated feed management. Especially with the current high price of raw materials and more extreme weather patterns that is putting

pressure on the forage stock, correctly estimating the feed value is more important than ever. This starts with accurate insights on the quality of available raw materials (grass silage, maize silage and fresh grass). The quicker and more detailed the insights on nutritional values are, the better an optimum dairy ration can be formulated.

Analysing the protein percentage, determining the right moment for mowing and determining the best plot for grazing: the new calibration curve for fresh grass offers farmers numerous advantages.

The method is very simple: the mobile scanner is placed on the collected grass and the mobile phone connects to the On-site

Adviser. The supplied app guides farmers through the entire scanning procedure, and within 5 minutes they have a complete summary report on the grass quality on the plot. For now, this new calibration line will allow users to measure moisture, crude protein, crude fibre and sugar in fresh grass samples.

To analyse fresh grass samples, the user should select the "Roughage scanner - Fresh grass" profile in the On-site Adviser app. The results from the scan can easily be exported to other software so that this information can be included directly in the ration calculations.

BOEHRINGER INGELHEIM LAUNCHES FENCOVIS®, A NEW VACCINE TO PREVENT CALF DIARRHEA

Boehringer Ingelheim is adding a new vaccine to its bovine vaccine portfolio with the launch of Fencovis®, for the prevention of calf diarrhoea, providing passive immunity to calves through the cows' maternal colostrum.

Calf diarrhoea, also known as calf scour, is a sign of a range of gastrointestinal diseases affecting unweaned newborn calves. It is multifactorial in nature involving infectious and non-infectious causes. The immature immune system of the neonatal calf that is unable to produce its own antibodies makes calf scour even more challenging to get under control. A 2021 German study reported the incidence of diarrhoea to be 18.5% and the most common disease observed in almost 14,000 neonatal

calves examined on 731 German dairy herds.

With Fencovis®, Boehringer Ingelheim now launches the first vaccine licensed for prevention of calf scour at the World Buiatrics Congress in Madrid, a key event in the cattle industry. Fencovis® is indicated for the active immunization of pregnant heifers and cows to stimulate the development of antibodies against rotavirus, coronavirus, and E. coli F5 (K99) adhesin, resulting in the passive immunization of calves against neonatal diarrhoea. In calves fed with colostrum and milk from vaccinated cows, these antibodies have been demonstrated to prevent diarrhoea caused by rotavirus and E. coli F5 (K99) adhesin and reduce the



incidence and severity of diarrhoea caused by coronavirus. Viral shedding in calves infected by rotavirus and coronavirus was also reduced by Fencovis®.

Together with Fencovis®, Boehringer Ingelheim provides a holistic lean approach to cattle farming through its training and support services. This is aimed at vets to allow them to further improve calf management and ensure optimal gut and immune health, inspiring excellence in calf rearing.

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GREAT ATMOSPHERE AT THE HEART OF VICTAM ASIA, HEALTH & NUTRITION ASIA AND GRAPAS ASIA 2022

VICTAM Corporation and VIV worldwide welcomed exhibitors and visitors from September 7 – 9, 2022 at the IMPACT Bangkok, Thailand for the events Victam Asia, Health & Nutrition Asia and GRAPAS Asia. The three co-located trade fairs focused on animal feed, animal health and nutrition, and the grain and rice processing industries.

"It was exciting to be back in Asia again after the Covid pandemic. The atmosphere at the event was

excellent as exhibitors and visitors were glad to be participating at a live event again," says general manager of the Victam Corporation, Sebas van den Ende. "We were happy to finally welcome all these companies and professionals. A few exhibitors were not able to participate due to the strict Covid rules in their countries, but we



provided them with a hybrid platform so they were able to participate online. The participating exhibitors attended with exciting stands, machinery, and innovations."

"This was a great opportunity for the feed and animal health industry to meet in 2022. The exhibition halls were busy over the three event days, with the top 10 visiting countries being Thailand, India, Philippines, Vietnam, Bangladesh, Malaysia, Indonesia, Korea, Myanmar, and Singapore," said Birgit Horn, Managing Director VIV worldwide.

Visitors and press were pleased with the extensive range of products on display, especially the newly launched products, the high quality of the exhibition stands and the great networking opportunities onsite. There were 231 exhibitors from 33 countries present.

Likewise, the exhibitors were very satisfied with the visitors. The companies stated that it was great to meet their clients and prospects face-to-face again. The exhibitors also commented on the very high quality of the visitors and the wide range of countries from which they came.

Spread over the three show days, there were 6.121 visitors from 64 countries. 90.4% of the visitors were from Asia and 9.6% of the visitors were international visitors (EMEA, America's, Oceania).

VICTAM Asia and Health & Nutrition Asia and GRAPAS Asia will be back in 2024, March 12 – 14 at the BITEC venue.

DOMINANT GENETIKA s.r.o. Modern Genetics With Tradition



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HUNGARIAN POULTRY PROCESSOR MASTER GOOD BENEFITS FROM MAREL SOFTWARE

Master Good is a forward-thinking poultry enterprise in Hungary. Their primary processing line runs at a speed of 15,000 bph [250 bpm], which makes it impossible for the human eye to measure efficiency. The help of Marel's intelligent IMPAQT software is very welcome. Nóra Moldvai-Villányi, Master Good Production Controller, tells how the implementation of IMPAQT has benefitted the primary process.

Nóra Moldvai-Villányi explains, "We didn't have a clear view of the performance of our equipment. The judgments of our technical and production people were sometimes contradictive and subjective. Since IMPAQT checks every shackle individually, our reports are objective and reliable. Therefore, we have no more

miscommunication."

"IMPAQT gives us a realistic, real-time overview of the performance of the primary line. But it is more important that it can also help us focus on a certain issue, gather all the necessary data and find the root cause in real-time. Having several product detection points in the line, we can instantly see where most product losses occur. We can decide how to prevent this loss. And we can verify the results of our preventive measures."

"However, IMPAQT is not a tool to solve sudden incidents. We use it as a monitoring tool for trends, which alerts us if performance drops in a particular area. This means we can react faster and more efficiently. At the moment, our technical department benefits most

from IMPAQT. The Nuova, LineLink DE and EC dashboards are a continuous help for them. They constantly check the screens, spot the issues and react quickly if the performance of any unit drops."

IMPAQT has already resulted in a better performance for Master Good. Nóra Moldvai-Villányi continues, "Gizzards, hearts and livers are very important for us. We do our utmost to prevent the loss of these products. As this process starts with the Nuova eviscerator, it is crucial that we can closely watch its operation by checking the performance dashboard. This screen not only shows performance – which has considerably improved overall – but also tells straight away which unit is not performing well and needs to be repaired or replaced as soon as possible."



BioSecurity is a Right, and we believe it should be available to everyone.

PreciseAG is an artificial intelligence-powered early warning system that provides instant poultry health insights for poultry farmers at no cost and without any disruptions or added complexity in their operations.

- Simple
- Easy
- Fast
- FREE



Enhance your Biosecurity Today!



STRONG PERFORMANCE OF EUROTIER AND ENERGYDECENTRAL: PIONEERING INNOVATIONS ENABLE TRANSFORMATION OF LIVESTOCK & ENERGY

Strong performance for the EuroTier and EnergyDecentral 2022 trade fairs in Hanover, Germany. After four years, the world's leading trade fair animal farming and livestock management, as well as the leading trade fair for decentralized energy supply impressively showcased the innovative strength of both sectors. Over 1,800 exhibitors from 57 countries and more than 106,000 visitors from 141 countries travelled to Hanover from 15-18 November, 2022. With more than 400 professional events

and conferences, the trade fair duo confirmed its leading position. Exhibitors and visitors expressed high satisfaction.

In challenging times, EuroTier was able to set important trends for the future development of the national and international animal husbandry industry. Organizer DLG (German Agricultural Society), together with its partners, presented an exhibition and technical program with the guiding theme "Transforming Animal Farming". Focusing on a successful future for the animal husbandry

industry, the theme showed how, with technical innovations, increased productivity alongside an increase in animal welfare and

sustainability can be achieved – in particular applying new solutions in the areas of digitization, automation and robotics.

"Productivity, climate change, animal welfare – animal production is changing worldwide. Farms must become sustainable and stable in all areas for the future - whether it is animal housing construction and technology, digitization, breeding, feeding or marketing. This requires innovations, which the EuroTier exhibitors have delivered, showing the potential of future animal husbandry," says Freya von Czettritz, CEO, DLG Holding GmbH, adding that feedback from the industry was positive. "Our exhibitors were very satisfied with the quality of the international professional visitors," she added.

The next EuroTier, including EnergyDecentral and the World Poultry Show, will take place in Hanover, Germany, from 12 to 15 November, 2024.



Photo: DLG

LAUNCH OF PHILIPPINE-NETHERLANDS DAIRY EXCELLENCE CENTRE

Alaska Milk Corporation - part of FrieslandCampina Food & Beverage - in close co-operation with the Philippine Department of Agriculture, the National Dairy Authority, the University of the Philippines Los Baños Dairy Training and Research Institute, and Dutch company CRV, established the Philippine-Netherlands Dairy Excellence Centre.

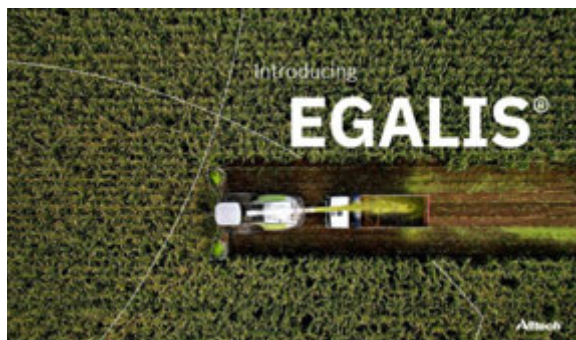
This centre of expertise aims to improve dairy production in the Philippines and to make it more sustainable by bringing together relevant parties and by sharing

Dutch dairy expertise with local dairy farmers, governments, academics, students, as well as others.

The authorities, institutions and companies involved signed an agreement on Monday, 16 November 2022, in Manila in the presence of representatives from the Dutch embassy. The centre of expertise will focus on various aspects of dairy production, such as quality, productivity and general farm management. There will also be a knowledge exchange with FrieslandCampina's member dairy farmers.

Tarang Gupta, managing director of Alaska Milk Corporation: "With FrieslandCampina's expertise on dairy and its 'from grass to glass' approach, we are committed to promoting the growth and development of the local dairy sector. In the past, close cooperation between the public and private sectors has proven to be an important success factor. We are pleased to share our experience in the dairy sector with our local partners via the Philippine-Netherlands Dairy Excellence Centre."

ALLTECH INTRODUCES EGALIS® HIGH-QUALITY SILAGE INOCULANTS



Alltech, a global leader in the agriculture industry for more than 40 years, is proud to introduce Egalis®, a new range of

high-quality silage inoculants that maximize nutrient quality, increase forage stability and reduce dry matter loss to help maintain optimal animal performance. Egalis drives proper

fermentation and assists epiphytic bacteria to control the fermentation through the use of specific bacteria.

“The Egalis range of products brings together decades of expertise in fermentation, utilizing bacteria strains specifically selected by Alltech scientists to maximize nutrient and dry matter protection,” said Matthew Smith, vice president at Alltech. “Together with our on-farm support teams and range of services, Alltech helps to improve fermentation to produce superior-quality silage, enabling producers to hold onto more of what they grow, from field to feed passage.”

DSM HALTS ANIMAL GRADE VITAMIN A AND REDUCES VITAMIN E PRODUCTION

Royal DSM, a global purpose-led science-based company, announced a halt to Rovimix® Vitamin A production in Sisseln, Switzerland, commencing January 2, 2023. Rovimix® Vitamin E-50 production will be significantly impacted as well due to its common upstream infrastructure.

At the start of the month November, DSM communicated to clients the necessity to enact price increases for its high-quality vitamins to justify continuation of production in Europe in the current challenging cost environment. With higher energy costs foreseen this winter, DSM has decided to halt Rovimix® Vitamin A production in Sisseln, Switzerland, which also impacts Rovimix® Vitamin E-50 production.

Existing contractual commitments will be honored and allocation procedures have been activated across the global production network to enact this in an orderly manner.

DSM is committed to sustainable production of the highest quality feed additives, including the longstanding Rovimix® product range produced in Sisseln, Switzerland, provided that aligns with our aim to generate sustainable profitable growth.

ACF 21P FAN IN PLASTIC IT'S FANTASTIC!



ACF 21P is the ideal product whenever air displacement is required. It is available in 21" only with both body and propeller in plastic. The safety nets are in galvanized steel for maximum corrosion resistance. It was designed to ensure high energy efficiency and excellent versatility. This product is tested in our PERlab.



pericoli.com

SHOWCO DRIVING COLLABORATION TO MEET CHALLENGES IN THE POULTRY INDUSTRY

Collaboration and innovation are essential for the poultry industry confronted with economic and social developments that affect every business. Founded 15 years ago, ShowCo continues working to improve event quality and business opportunities at trade shows in the poultry sector.

ShowCo began in Europe with a number of leading companies aiming to increase the quality of international poultry exhibitions for visitors, organizers and exhibitors. Now with a global presence, ShowCo is keen to continue this collaborative effort to respond to the rapid changes in agricultural markets. It is now more important than ever to deal efficiently and effectively with marketing budgets and innovation. Constructive cooperation with all parties is the best approach for this.

Through close cooperation between ShowCo members and

exhibition organizations, strong biennial international poultry exhibitions have been developed on most continents worldwide. These poultry exhibitions stand out for their high-quality innovation and novel product range.

ShowCo Association promotes the efficiency and effectiveness of international exhibitions and trade fairs in the poultry industry by developing a biennial rhythm for leading international poultry exhibitions. Major exhibitions taking place every two years serves all interests in the poultry industry. Companies are given more investment space and more time to develop innovations. Visitors of international trade fairs and customers of the international poultry industry can count on a broad and innovative range of products and solutions. With one biennial visit to a trade fair, they are fully informed. The exhibition

organizations involved also benefit from the high quality of the exhibition, the large number of participating companies and, thus, the high number of trade visitors. This ShowCo approach has proven its value over the past 15 years.

The global poultry industry faces numerous economic, social and political changes that are both opportunities and threats for individual businesses. Global health issues and the increasing attention to sustainability also effect the entire international poultry supply chain. Influences that will certainly also affect international exhibition organizations. It is crucial that companies in the poultry industry can contribute to the success of the international trade fair landscape. This supports the international business community in the poultry supply chain as well as trade fair organizers. And last but not least, it meets the interest of their customers.

SPACE 2022: A FOCUS ON CLIMATE AND YOUTH



SPACE took place from Tuesday 13 to Thursday 15 September in a very warm and positive atmosphere, marking its 35th anniversary. Attendance was very high over the three days of this 36th edition at the Rennes Exhibition Centre. The full scope of the livestock industry was

represented, from cattle, pigs, goats and sheep to poultry, rabbits and aquaculture, in a very positive and constructive ambience.

SPACE 2022 was extremely successful, with over 90,000 visitors (90,108, of whom 8,406 came from 120 different countries), and close to 1,200 exhibitors (of which 300 were international businesses and 250 were taking part in SPACE for the first time).

For its anniversary, SPACE 2022 was the epitome of a professional, international and convivial trade show. Despite a difficult context, these three days have proved that with abundant and constructive dialogue, high attendance by

visitors and exhibitors and the expo's very positive dynamic, 35 years after its first edition SPACE is an exceptional showcase for the livestock industry. A modern, constantly-evolving industry with a bright future and a resolve to feed society and meet its requirements. This positive energy and optimism inspire confidence in our farmers' determination to carry out their jobs with conviction and to ensure our food sovereignty, while remaining in tune with their fellow citizens.

We look forward to seeing you from Tuesday 12 to Thursday 14 September 2023 for the next edition of SPACE at the Rennes Exhibition Centre!

DISTRIBUTOR OR DEALER OPPORTUNITY

For our ECA Technology, ECA Systems, ECA Disinfectants, Cleaning & Disinfectant Chemicals, Hygiene Products and related Equipment

Our Company "Aquagroup Swiss GmbH Dubai Branch" is a branch of German Company "Aquagroup AG". It is a technology-based company, having branches in Dubai, Austria, Switzerland, China and Turkey. We have distributors in different countries. We are making water, food, surface and environment safe and germ free. We have done many successful projects in Poultry Farm, Dairy Farm, Hotel Industry, Food Processing Industries (includes Water Company, Juice Manufacturing Company, Dairy Processing Company, Meat Processing Company) Slaughterhouse, Hospitals, Residential & Commercial Buildings and other Sectors. We have experience of more than 15 years to optimize different applications in different industries. We are Business Strengthening Partner.



We have:

•ECA (Electrolyzed Chemical Activation) Technology, ECA Systems made in Germany and ECA Disinfectant Solutions **NADES & NADES 2.0**.

Our Special ECA Disinfection & Sanitation Products:

- Produced by our (ECA) Systems through electrolysis of water and food grade salt (NaCl) only.
- Safe to use, quick acting and non-irritating.
- Highly effective against all viruses including corona virus, all types of bacteria, fungi, mold, spores, biofilm, algae etc.
- Without any harsh and very hazardous chemicals or chemical ingredients.
- Environmentally Friendly Products.
- Natural way of disinfection.

Major Application in Different Industries:

- Water Treatment, Purification, Sanitation & Disinfection
- Surface Cleaning & Disinfection (Floor, Walls, Machine, Equipment etc.)
- Food Microbial Decontamination
- Air Microbial Decontamination
- Pipe Line Flushing & Disinfection
- Carcass Washing
- Water Tank Cleaning & Disinfection
- Other Applications

We are supplying:

- Our ECA Systems to the Industries.
- Chemicals to the Industries.
- Equipment for different range of applications.

Our products are for:

- Business to Business (B2B) Market
- Business to Consumer (B2C) Market

For Industry:

Our ECA (Electro Chemical Activation) System can be install onsite in any industry to produce our ECA Disinfectant in the industry to cover multiple applications with different recommended concentrations by one ECA System.



Contact us:

For any inquiry and to know more about our products and applications, please visit our following website:

www.aqua-as.com

www.aquagroup.com

For Distribution and Dealership Inquiry:

Phone: +971 4 8857934, **Email:** m.javaid@aquagroup.com

AQUAGROUP SWISS GMBH DUBAI BRANCH

•Office No. 607, Al Attar Business Center, Al Barsha 1, Sheikh Zayed Road

•Warehouse Jebel Ali Industrial Area 1, Building D, P.O Box: 37925, Dubai, UAE



NEW DLG QUALITY SEAL FOR BONSILOGE SPEED G AND BONSILOGE SPEED M

Onsilage Speed G and Bonsilage Speed M make it possible to feed high-energy grass and maize silage with very good aerobic stability after just two weeks of silo ripening. The innovative silage additives have now been tested and their outstanding effectiveness has been confirmed. The DLG test center for technology and farm equipment awarded the products in direction of action 2 "improvement of aerobic stability" and for the first time in the new direction of action 2 + "additional test for early silo opening". This makes Bonsilage Speed G and Bonsilage Speed M the only silage additives available on the market with this award.

On many farms, the weather conditions of recent years have led to lower yields on grassland and corn stocks that have lagged behind in growth, which in the worst case remain cobless or ripen prematurely. This leads to an increasing load of yeasts and molds in the harvested silage. In order to be able to safely ensile these stocks, a rapid pH value reduction in the first phase of ensiling and then rapid formation of acetic acid is necessary. Due to the special strain combination in the Bonsilage Speed silage additives, acetic acid forms quickly. After just 14 days of silo ripening, this successfully suppresses yeast and mold,

improves the aerobic stability significantly and ensures that perfect silage is fed to the silage.

Impeccable forage is the most important cornerstone for economically successful feeding of dairy cattle. This increases feed intake and reduces losses and the purchase of feed components. With the use of Bonsilage Speed G for grass silage, clover-grass and green rye silage and Bonsilage Speed M for corn and whole plant silage, Schaumann offers two silage additives with which you can produce aerobically stable silage even with a silage ripening time of 14 days.

TANMIAH FOOD COMPANY COMPLETES STRATEGIC PARTNERSHIP WITH TYSON FOODS, INC.

Saudi-based Tanmiah Food Company ("Tanmiah" or the "Company", 2281 on the Saudi Exchange) has announced successful completion of its strategic partnership transaction with US-based Tyson Foods, Inc. (NYSE: TSN), strengthening Tanmiah's position regionally and extending its global reach, as a major poultry producer. The deal was signed on July 5th of this year.

As per the partnership agreement, Tyson Foods and Tanmiah will be jointly investing in the expansion of further processing capacity to 100,000 metric tons annually in Supreme Foods Processing Company and primary processing capacity of Agricultural Development

Company to over a million birds per day. The deal also envisages the possibility of establishing a global halal business.

Tyson Foods is one of the world's largest food companies and a recognised leader in protein. This partnership will unlock significant opportunities for Tanmiah to leverage Tyson Foods' world-class technology and expertise across its value chain.

Tanmiah is a leading manufacturer of fresh and frozen poultry products in the Middle East with production and distribution network in the KSA, UAE, Bahrain, Oman, Kuwait and Jordan.

"We are delighted to be joining forces with a global

leader in food production, which will bolster our ambitious regional and global expansion plans. This collaboration is very significant for the poultry market in Saudi Arabia as it supports domestic self-sufficiency in line with Vision 2030 of the Kingdom," said Zulfiqar Hamadani, CEO of Tanmiah.

"We are excited about this partnership that should help us expand our customer base in the Middle East. The partnership enables Tanmiah and Tyson Foods to work towards a common goal of efficient and sustainable food production for the region, and beyond," said TAN Sun, President of Tyson Foods Asia Pacific.

UAE BEEF IMPORTERS PARTICIPATE IN A TRADE MISSION TO SPAIN

Provacuno, a Spanish beef interprofessional association, organized a delegation of top UAE beef importers to visit several Spanish plants and farms as part of its Wonderful Beef 2.0 campaign as a trade mission. Participants learned about the safety and quality of EU/ Spanish beef, which follows a strict and safe European production model.

Five UAE Beef importers - namely Excellence Meats LLC, Hope Gourmet, Parker Migliorini International Food Trading LLC, Sunlife General Trading LLC and Unique Seven Star General Trading LLC – participated in a 4-day trade mission which was conducted in Spain.

On the first day, the group of UAE importers travelled to a renowned cattle farm, which stands out at the national level for being one of the

largest producers of calves born and raised on its own farms through the development of homogeneous lines in breeds, sexes, conformations, and fat.

On the second day, the UAE participants travelled to Buñol, Valencia and toured a massive 55,000 square meter Slaughterhouse facility in Buñol (Valencia). This facility has a slaughter line for up to 100 animals per hour, a cutting plant and veal with a capacity of 130 tons per day, a chamber of meat products to produce snacks, minced meat, and burgers. They also have a massive cool storage center of fresh and frozen beef products, at a capacity of forty thousand cubic meters.

The third day of the mission involved a trip to Barcelona, where the participants were treated to



a tour of one of Spain's most long-standing beef production organizations in Barcelona, with a history dating back over 100 years. The UAE vendors witnessed the superlative practice of extensive product traceability. The last day of the trip concluded at Mercamadrid, where the UAE team visited a state-of-the-art beef processing plant and headquarters in Mercamadrid.

MINISTRY OF CLIMATE CHANGE AND ENVIRONMENT ORGANIZES FIRST FORUM FOR FISHING AND FISHERMEN AFFAIRS

The Ministry of Climate Change and Environment (MOCCA) organized the first Forum for Fishing and Fishermen Affairs, as part of its strategy to support the fishing industry, protect the marine environment, and ensure the sustainability of its biodiversity.

The forum drew the participation of representatives of the Ministry of Defense and fishermen societies.

In her opening remarks, Her Excellency Mariam bint Mohammed Almheiri, Minister of Climate Change and Environment, said: "The fishing sector is an integral part of the UAE's heritage and history. The Ministry is committed to supporting the sector through an integrated system of flexible

legislative framework and initiatives, as well as financial support. We are also keen to raise the awareness of related national directives and objectives among the fishing community through targeted campaigns to improve the sustainability of the marine environment, and to promote the fishing profession as a contributor to enhancing food security."

Her Excellency commended the efforts of the Ministry of Defense in developing the sector through a fishermen support program that exempts them from the maintenance fees for fishing boat tracking devices.

During the forum, MOCCA showcased its efforts to support the sector during 2022. These

include amending the executive regulations of Federal Law No. 23 of 1999 on the exploitation, protection, and development of living aquatic resources, coordinating with stakeholders to exempt fishermen from maintenance fees for fishing boat tracking devices, regulating the waiver of a fishing boat license, and issuing legislation that regulates the delegation of a boat master to a fisherman who has completed 50 years and exempting them from fees in this regard. In addition, the Ministry has launched a project to maintain fishing ports and is currently developing a regulation on fish export to boost fishermen income.

FEED COST CHALLENGES AND HUGE MARKET OPPORTUNITIES: HIGHLIGHTS AT POULTRY AFRICA 2022

Nearly 1,600 professional delegates from 53 countries visited the 123 exhibiting companies at the 3rd edition of Poultry Africa, successfully concluded in Kigali, Rwanda.

The poultry broiler and layer industry of the Sub-Saharan Africa met in Kigali for a stimulating business gathering with global suppliers and international speakers of the feed to food poultry supply chain.

Poultry Africa 2022, the most complete trade show for poultry professionals in Sub-Saharan Africa powered by VIV worldwide, kicked off with an exciting program and 22 Speakers at the Leadership Conference on October 4th. This high-level conference welcomed Industry Leaders and top sector players from many countries, among which Nigeria, Kenya,

Uganda, to name a few. The attendees experienced a full day of inspiring and informative presentations on African industry updates, sustainable poultry production, opportunities and challenges for the egg industry in Africa, innovative feeding solutions, and biosecurity for the African market.

Zooming into future possibilities, a lively panel discussion on alternative ingredients for animal feed also took place in the afternoon. Market trends, data management strategies, and other topics around the poultry and egg operations were disclosed to an engaging audience. The program was organized by VNU Europe in cooperation with the Ministry of Agriculture of Rwanda, TRAIDE Foundation, Rabobank, WPSA, NABC,

IEC, the Poultry Association of Tanzania, Vetworks, the Netherlands Embassy in Rwanda, the Netherlands Enterprise Agency, the Netherlands Food Partnership and a good number of leading suppliers of the sector.

The Poultry Africa 2-day Expo followed on October 5-6 presenting 123 exhibitors from 30 countries led by The Netherlands, Turkey, Belgium, France, Rwanda, India, Germany, Italy, United States, and Kenya.

A wide range of products covering the full supply chain were on display, among which farm production equipment, animal health ingredients and additives, feed production equipment, data management solutions, breeding and hatching, farming, slaughtering, processing and egg handling systems.

CASE IH OFFERS EXTRA-DENSE BALES WITH THE LAUNCH OF NEW LB 424 XLD MODEL

Case IH has expanded its range of large square balers with the addition of a new model in the 120cm x 70cm segment. The LB 424 XLD produces 260cm-long bales which are up to 10% heavier than those from the existing LB 424 XL – the 'D' standing for Density.



The latter machine remains in the range.

"The new model will appeal to customers who need extra-dense, well-shaped, consistent and durable large square bales for maximum output, perfect handling, lower transport costs and optimum use of storage space," Michael Jankowski, Case IH Product Marketing Manager, states.

The denser bales are mainly thanks to the LB 424 XLD's reinforced plunger which provides 400kN of compression force, a 27% increase over the LB 424 XL. Its design incorporates

strong, perpendicular V-shaped support beams made from 33% thicker 8mm steel, together with four sectional reinforcement plates instead of two.

Hard wearing and versatile enough to operate in all combinable crops, the LB 424 XLD is equipped with reinforced baler chamber side doors which are twice as stiff as those on the LB 424 XL. The top door and top door density beams are also stronger and more rigid, while the front and floor sections of the bale chamber are fitted, as standard, with Hardox® steel wear plates which are extremely resistant to abrasion and very durable.



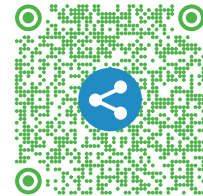
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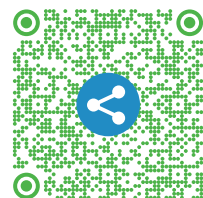
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HOOF HEALTH: THE FULL PICTURE



BoPro is committed to addressing herd lameness and prevention on farms. Our research team has been active between on farm and in the lab, to assess and determine the real challenges of hoof health in dairy herds.

“Lameness is not a single disease in dairy cows, but is a manifestation of a range of issues – making lameness control one of the greatest challenges in dairy farming. Lameness prevention, therefore, must be the key focus of dairy farm management and sustainable food production.”
Dr Mary Garvey, Toxicologist, IT Sligo.



The challenge

Lameness is the second largest dairy cow health challenge after mastitis in Ireland. It is an extremely painful condition and is responsible for up to a 20% reduction in milk yield. The condition occurs when a combination of bacteria from the ground enters the soft tissue in the cow's heel, causing strawberry-like lesions to form. This makes walking painful. The presence on the ground of faecal matter and urine, further weakens the keratin structures in the hoof, deteriorating walking ability.

Problems with traditional methods

Traditional formaldehyde solutions work as masking agents which cover the effects of lameness by blocking the nerves, tricking the cow into thinking she's not lame. In a prolonged period, lameness in the cow usually worsens and culling of cows is often the last resort for farmers. Copper and Zinc Sulphate based solution cause heavy-metal pollution in the environment.

How Hoofed prevents the spread of lameness

Hoofed contains a synergistic blend of active ingredients and surfactants that are proven to prevent hoof degradation and strengthen hoof structure, even in heavily soiled footbaths. The unique formulation of ingredients in Hoofed target and penetrate the specific bacteria that cause lameness., while the low pH buffered solution protects the hoof from degradation over time.

How Hoofed is better for the environment

Hoofed is fully water-soluble which significantly reduces its impact on the environment. It is also 100% Biodegradable. Hoofed circumvents the need for antibiotics, thereby preventing the entering of antibiotics into the food system and ecosystem.

Safer for the environment, safer for the farmer, better for the cows.

For more information, visit www.bopro.ie

THE IMPORTANCE OF FEED SAFETY FOR SAFE FOOD

Over the last years, the feed sector started gaining the attention of the food sector regarding its role towards food safety.

Even though we are talking about two sectors (feed and food) with similar characteristics and complexity, there is one big difference regarding who is the end user of the output of each sector. For the feed sector, the end user is the food-producing animal which, on its turn, will be the main input for the food sector. On the other hand, the end user for the food sector is the “human”.

The quality and safety of feed for animals intended for human consumption will have a direct impact on the quality and safety of the food produced from these animals. Given the anticipated growth of the world’s population to around 9 billion people by 2050, and the associated higher demand for animal proteins, it is vital that the feed industry, as well as the wider agricultural chain, can meet this challenge in a sustainable and safe way.

From a regulatory perspective, regulators over the last decade started to be more attentive to the feed hygiene requirements. In 2003, the Feed Hygiene Regulation – EC 1831/2003 laying down requirements for feed hygiene – was introduced in Europe. The breakthrough of this regulation was that HACCP became a mandatory regulatory requirement for the feed sector. Following the implementation of the Feed Hygiene Regulation, a number of sector specific schemes (deriving from different feed industry sectors) was

developed with the view to support the feed industry in implementing this regulation. Gradually, other regions like Australia, Canada, and U.S.A. started developing further their regulatory requirements for the feed sector.

Feed safety risks have changed as to their likelihood to happen, and a holistic approach regarding how to manage those risks is necessary. Given that the feed sector today is part of the global value chain, additional effort for the management of these feed safety risks is required. The implementation of a feed safety management system provides the necessary assurance that the associated feed safety risks will be managed properly. An example of a feed safety management scheme for the sector of Specialty Feed Ingredients can be found in the FAMI-QS Certification.

Recent scandals in the worldwide food and feed sector have highlighted the need to strengthen fraud prevention measures across the entire supply chain. Not only is this necessary to protect the health of consumers, but corporations and regulators both know that trust is the foundation upon which efficient, functioning markets are built. In addition, there is public concern that the food or feed sector is being used for intentional acts that could harm an individual or the public for ideological or financial purposes.

Third-Party Certification (TPC) and particular feed schemes are becoming an important



Emmanouil Geneiatakis,
FAMI-QS Secretary General

feature of the global feed chain. Nowadays, Feed Business Operators’ operational activities take place in a rather complex legal and business environment. Today we have moved from local sourcing to global sourcing. This affects the level of controls which are required. Although TPC is voluntary, it is an important requirement for a Feed Business Operator to gain market access and to communicate all aspects related to the safety of the feed ingredient, in a uniform language. FAO defines the food chain approach as: “Recognition that the responsibility for the supply of food that is safe, healthy & nutritious is shared along the entire food chain – by all involved with production, processing, trade and consumption”. The same approach can also be applied to the feed chain.

TPC eg FAMI-QS could be seen as a mechanism for the development of feed safety culture, minimising risks entering the feed/food chain, enforcing feed safety regulatory requirements and supporting global fair trade.



HYBRIMIN® WINFUMI 9.5

WinFumi 9.5 is the HYBRIMIN® software that addresses the specific needs of feed manufacturers in the processes of compound feed optimization (mineral feed, premix etc.), recipe management, and automatic declaration.

This integrated software can manage everything from raw materials, product development, and recipes to label design, printing, and customer services. Data can be exchanged within networks by using process control and/or inventory control (e.g. price lists, recipes, declarations, etc.). Completed declarations (identification/labelling) can be printed onto the delivery notes or sent directly to the bagging unit for printing.

Animal nutrition database

HYBRIMIN® WinFumi can help formulate any recipe (and individual ration!) for all livestock and pets as well as to optimise them with the help of the linear optimisation. Such examples include complete feeds, supplementary feeds, concentrated feeds, milk replacers, mineral feeds, dietary feed, pet food and premixes.

HYBRIMIN® WinFumi 9.5

features an extensive database with about 400 raw materials, about 38.000 nutrient values, 330 active nutrients - a maximum of 10,000 per raw material is possible, 1,500 specifications with about 22,000 minimum and maximum values, and 140 sample formulations for all farm animals and pets. Each animal category includes by default some sample recipes, to help speed up the onboarding process.

For each implementation, the software is customized to meet the individual needs with concern to the types of feed and animal species. The flexibility of the software goes behind of customizing the database to include only the elements that are required according to the specific work-flow of the company. The customers are also enabled to add, edit or delete specific nutrients in order to meet their specific requirements. This way they can create a customized database that is fully adapted to the specific needs of the company.

Different feeding systems worldwide and nutrients depending on the country where to use can be integrated by user or HYBRIMIN as a service. Formulations and raw materials are unlimited. Each raw material

allows up to 10.000 ingredients, with either or non-linear formulas.

Integrated label system - Declarations

The database for HYBRIMIN® WinFumi complies to the German or European feed regulations. Due to the specific nature of the labelling, that is constantly affected by law changes, we believe that c. 95% of all declarations or labels can be created immediately without the user adding anything. Individual additions are always required when you want to deviate from the minimum requirements of the feed regulations and declare your own specific product.

A special feature within the labelling area of the software allows a simultaneous threefold view within the same screen of the lists of raw materials, ingredients, and finished declaration - with real-time updates. Any changes made to the raw materials are immediately reflected in the label column, for an enhanced workflow.

Printouts can be generated at any time as PDF files without the need for any other support. Moreover, the user can create the declaration in any of the available languages.

Multi-language

HYBRIMIN® WinFumi 9.5 is fully translated in multiple languages. The currently available languages are: Danish, Chinese (Mandarin), German, German (Switzerland), English, French, Hungarian, Polish, Russian, Romanian, Spain.

Designed to serve all animal species

HYBRIMIN® WinFumi 9.5 can be used to design feed for all animal species. By default the software features the following animals:

young cattle, beef cattle, dairy cattle, sheep, goats, roe deer, red deer and fallow deer, llamas and alpacas, camels, elephants, pigs, horses, poultry (laying hens, chickens, turkeys, ducks, geese, pheasants, guinea fowls, quails, ostriches, pigeons), dogs, cats, rodents, trout, and carps.

Other types of animals can be added at any time.

Data export

HYBRIMIN® WinFumi 9.5 features export options that allow sending the recipes directly to the mill or to a data warehouse where the production is managed.

The labels can be exported and printed in any of the available languages. This means that, no matter the language of choice for the workflow within the software, one can choose to have the labels printed in another language, like Chinese for example.

HYBRIMIN® WinFumi 9.5 can be integrated with other software products (about 50 different file formats). Other integrations can be developed upon request.

Easy to implement, easy to use

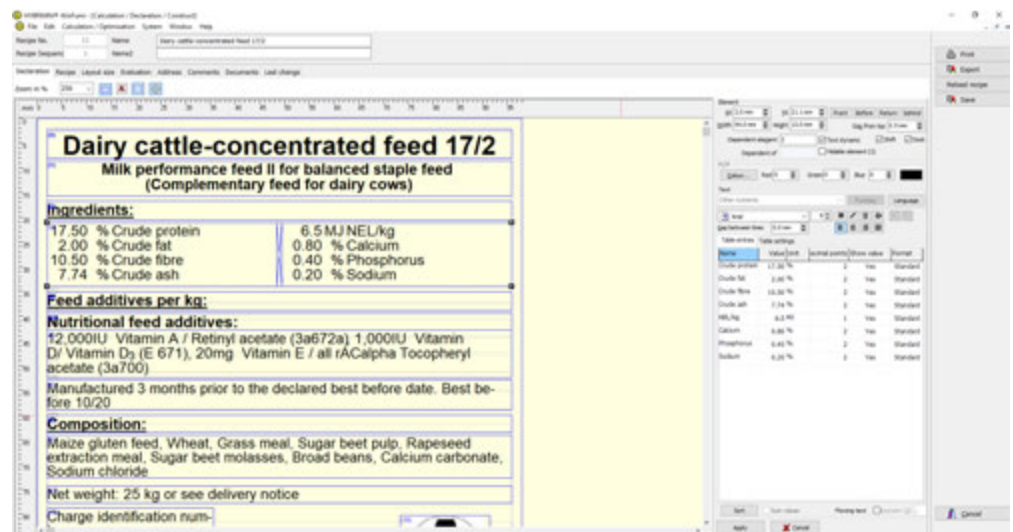
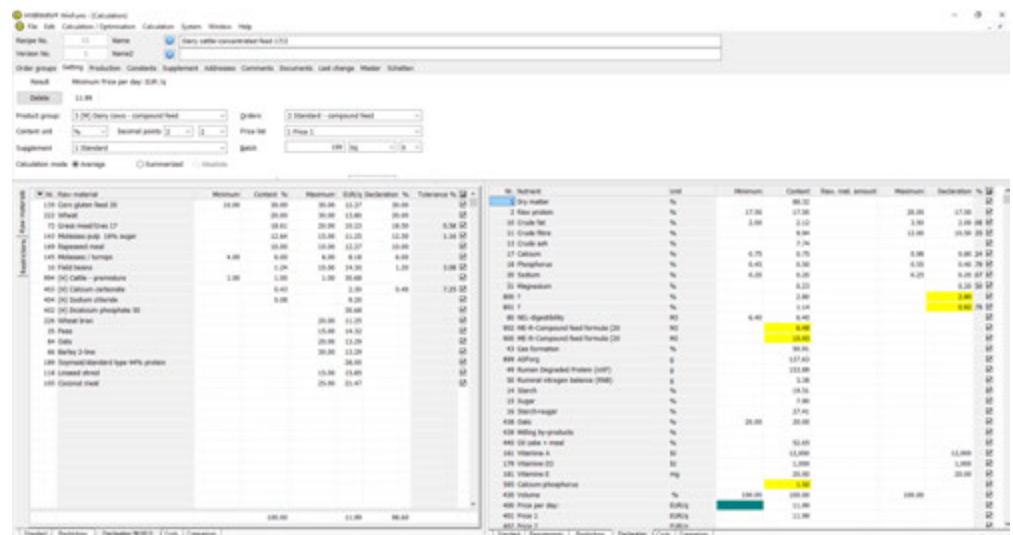
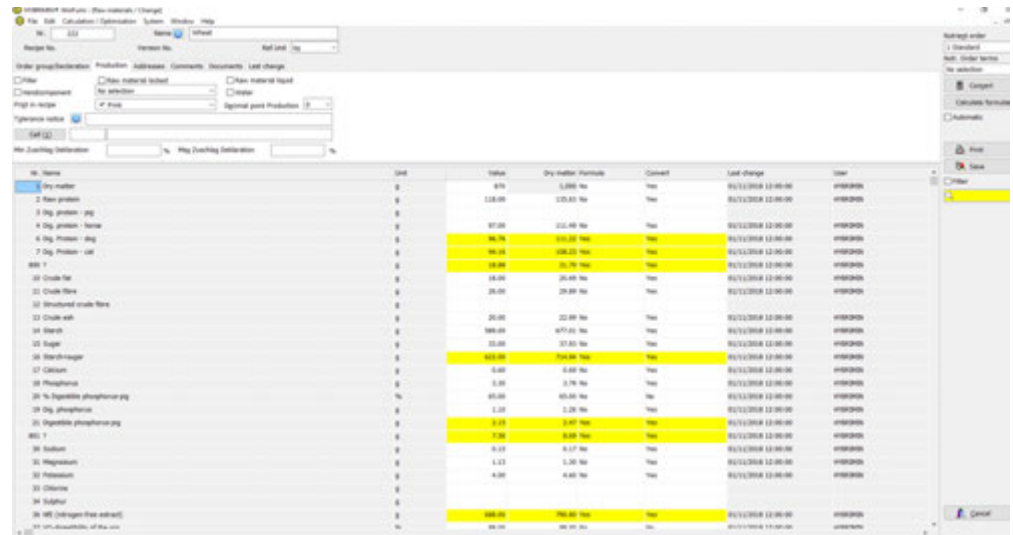
HYBRIMIN® WinFumi 9.5 is optimized for a reduced number of mouse clicks and benefits from a user-friendly interface that allows users to find their way easily within the software, even if they are not familiar with it. The software can be fully integrated in the IT existing ecosystem, with integration of quality standards (GMP and others), printouts, and display screens with email, fax transfer, or data transfer to Excel.

Extended training and support

Feed calculation software is only as good as the support behind it. This area is under permanent

focus. The customer support service is currently available in German, English, French, Italian, Russian, Romanian, and Spanish.

For more information, contact info@hybrimin.com, or call us at +49 5152 97361-00 or Fax: +495152 97361-99



AL ALIYO HYDROFARMS:

CHANGING THE FODDER SOLUTIONS SPECTRUM FOR SUSTAINABLE LIVESTOCK FARMING

The UAE has proven to be a visionary nation time and again. The past 50 years stand testimony to our changing skyline and incredible history. We have raced towards innovation while firmly holding on to our traditions and values. And we have achieved this because our rulers put our people at the core of every initiative.

Al Aliyo Hydrofarms was born of one such thought process.

Hydroponic is a culmination of two Greek words, 'hydro,' meaning water, and 'ponos,' meaning labor. It means growing plants in water rather than inert soil. This green concept dates to the Babylonian era and has revived global interest due to an acute shortage of quality fodder production.

Tarannum Malik, Chairperson and Managing Director of Al Aliyo Hydrofarms, started the company to offer a long-term solution to the much-neglected challenges of the agro-industry in the UAE. They have a growth and harvest capacity of 15,000kgs per day of fresh grass for animal feed.

"Our vision is in sync with the UAE national agenda to strengthen significant food supply chains across all strata of society on top priority. We reside in a desert with sub-tropical arid summers and warm winters, where the flora is sparse. Hence, we aim to contribute to the UAE government's food security efforts by providing top-notch green fodder directly to farmers", says Tarannum Malik.

Hydroponic farming has been gaining steam as it eliminates



the dependency on climatic conditions, seasons, and soil. Plant production occurs in a monitored sterile environment sans human interference. Hence, the product tends to grow faster,

uses less water, and is chemical and pesticide-free. Furthermore, hydroponic grass is easier to harvest and has higher nutritional value.

Hydroponic fresh fodder



invariably results in healthier livestock. Animals have better gastrointestinal health, and there are lesser chances of ulcers, colic, acidosis, and laminitis. Moreover, feeding fresh grass results in healthier weight gain and better hydration. There is improved milk yield and fat composition.

Despite growing premium produce, Al Aliyo's hydroponic fodder is economical and affordable vis-à-vis the dry grass and feed currently available in the market.

"Our mission is to employ best practices for sector expansion enabling the UAE to become self-sufficient in livestock fodder

requirements. Our objective is to identify and redefine the wasteful farming methodologies and replace them with viable, sustainable solutions for long-term benefit, adds Tarannum Malik.

She further explains, "Our revolutionary hydroponic methods are cost-effective and environmentally friendly and harness temperature control and other best industry practices. We are committed to workplace safety and well-being and use no harmful materials or chemicals in production".

Tarannum further states, "We know feeding your animals is time-consuming, and hence we deliver

convenience in a crate to your doorstep. Our fodder requires no mixing, chopping, cutting, or other manual processes before feeding. According to your order specifications, it comes in the form of ready-to-feed grass biscuits".

Al Aliyo cuts through the noise in the hydroponic industry for the following reasons:

- They use no chemical fertilizers or pesticides in the growth process. Additionally, the grass is grown under strictly monitored hygiene and sanitary protocol.
- They consume up to 90% lesser water than conventional farming. Additionally, they use atmospheric condensers and save up to 2000 liters of water daily.
- They control their facility temperatures with state-of-the-art, green HVAC systems.
- They use no soil.
- They grow in 3500 sqft within one week what a hectare of land yields annually.
- Their seeds undergo a thorough cleansing process to eliminate dust, mud, and other contaminants, thus reducing the possibility of colic and other gastrointestinal illnesses.
- They pride themselves on providing safe and healthy fodder compared to the commercially available dry fodder options in the market.

Al Aliyo Hydrofarms has reimagined innovation to combat climate change and is on the cusp of a green revolution. Helmed by a strong woman, they are changing the fodder solutions spectrum for sustainable livestock farming, one feed at a time.

For more information, visit www.alaliyofarms.ae

Article by: **Jan Vervloesem**

(Global Poultry Category Manager, Agrimprove)

With a growing world population, that is expected to reach close to 10 billion by 2050, sustainable and safe food production is becoming a big challenge not only to the authorities but all of us. The resources to produce eggs and meat will become more scarce, which means efficiency needs to be further improved to meet the estimated 25% population growth.

Rightly questioned by consumers and authorities, the time to rely on antibiotics to solve several diseases, mortality, and performance problems in the poultry industry is drawing to a close. For decades, antimicrobial growth promoters (AGPs) were used by the industry to improve efficiency and food safety. However, today, antimicrobial resistance (AMR) is becoming a major global issue that is not only affecting poultry production

but— with millions of deaths annually—is also influencing the human population. This evolution is the reason for the call to no longer use AGPs and antibiotics in livestock production.

Antibiotic-free poultry production

In 2006, Europe banned AGPs in feed. This resulted in an explosion of new additives and functional feed ingredients (FFIs) in the market trying to replace the role of AGPs. It was soon clear that trying to replace one product with another non-AGP product (claiming to have a similar/antibacterial mode of action) was not sufficient. The industry quickly learned that replacing AGPs requires a solid and complete strategy. One that can be adapted based on

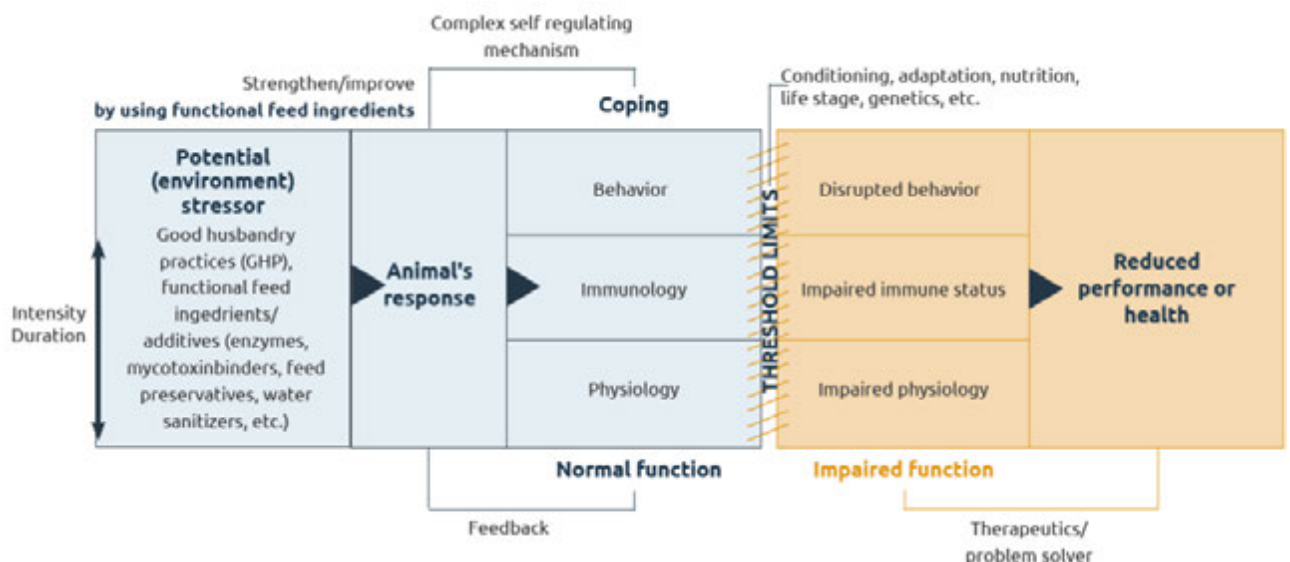
region and even, depending on the objectives of the situation, company. Now, as of this year (2022), the prophylactic use of antibiotics in livestock production is forbidden in Europe as well. So once again, new alternative strategies and concepts will need to be developed to safeguard efficiency and food safety.

Strategies for replacing AGPs and reducing the use of antibiotics

Breeding companies and integrations work side by side to improve efficiency, reduce the pressure on the climate and environment, improve the well-being and health of the animals as well as contribute to safe food production.

Back in 1984, Hahn and Becker described the responses

The principle of combined responsibility for efficient, sustainable, and safe poultry production





of animals to environmental stressors. Based on their view, it is clear that replacing AGPs requires both a preventive strategy to manage the environment as well as a biological strategy to strengthen the animal/improve the threshold limits. The ability to achieve both can improve efficacy to minimize the cost of response.

Poultry has natural “self-regulating” mechanisms to respond to stress: behavior, the immune system, and physiological adaptations. Of course, these mechanisms need maintenance and energy, which comes at a cost of increased feed conversion or reduced weight gain. The type of stressor, duration, intensity, and physical condition of the

animal will determine if the bird can cope with the stress and if the performance of the animal, wellbeing, or food safety will be affected.

Reducing the risk of stress

Since they helped lower the impact of stress, replacing AGPs requires a stringent preventive strategy to reduce the risk of environmental stressors. This implies good husbandry practices (GHP)—like handling, climate control, and stocking densities—are more important than ever, as well as the inclusion of functional feed ingredients (FFIs) and additives to help control mycotoxins, preserve the feed, disinfect the water, improve feed digestibility, and an adapted

feeding strategy (lower protein, more fiber).

Strengthening the animal

At the same time as reducing stress, the animal needs to be conditioned in order to cope better and/or longer with stressors. By working on the quality of the day-old chicks and improving the health status of parent stock—which is mainly done by stimulating the development and activity of the intestinal tract, modulating the immune system, increasing the anti-oxidative activity, and creating a balanced microbiome—the bird is stronger.

For more information, visit www.agrimprove.com



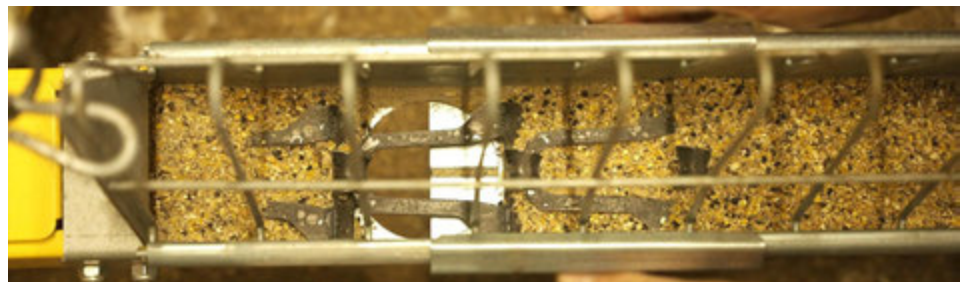
ROXELL LAUNCHES FORTENA™ CHAIN FEEDING SYSTEM FOR HENS IN THE PRODUCTION PERIOD

Roxell launches the Fortena™ chain feeding system for broiler breeders in the production period. Roxell thus completes its total range for feeding, which now contains a solution for every type of poultry farmer. These feeding systems are a component of Roxell's 360° range for farm equipment with innovative drinking systems, nests, heating, ventilation and controllers.

The Fortena™ chain feeding system is not just a different version of the current systems on the market. The design of the chain, feed trough and corner wheels has been taken care of by Roxell's feeding experts. The result is an innovative chain feeding system that improves and speeds up the feed intake of the hens and reduces residual feed.

Innovation for better feed intake

- The Fortena chain is a unique



design from Roxell with large, open links that take up 25% less space. As a result, there is less friction between the feed and the chain. Because the feed pellets remain intact, the hens also eat them more easily and faster.

- The rounded feed trough promotes access, which limits feed loss. The grill from which the suspension leads is anchored to the feed trough.
- Thanks to an adjustable feed volume (6 positions), different feeding regimes are possible, always with an even and fast feed distribution.

Ease of use with extra durability

- We limit wear on the chain by connecting long sections of feed trough with connections made of polyamide.
- Lubrication of corner wheels is

unnecessary due to ball bearings instead of plain bearings.

- We drastically reduce the breakage of chain links by using extra strong connecting links.

Flexibility for great performance

The Fortena chain feeding system offers the poultry farmer flexibility in the way of management:

- You can choose from 2 speeds for the feed distribution.
- The feeding circuit can be winched up, but is also available on legs.
- You can automate and monitor the feeding process with a iQon™ feed computer.
- The feed supply takes place directly (with day bins) or indirectly (via hoppers on the circuit).

For more information, visit www.roxell.com

EGG INSPECTOR40: IDENTIFYING DIFFERENT DEFECTS

In 2006, Moba introduced the Egg inspector, an advanced vision system that detects leaking and dirty eggs using image processing on the infeed of Omnia egg graders. This has been a game-changer in the candling process, as by using a combination of monochrome cameras and narrow bandwidth LED lighting, the most accurate results were achieved. In comparison to detection systems that used single-chip color cameras, the revolutionary technology the Egg inspector uses, makes it possible to check the spectrum of the deviations on the eggshell closely and thereby gives the most accurate results. This has been the basis for the succeeding generations Egg inspector10, 20 and 30.

However, in our never-ending search for innovations, Moba has found a way to take detecting defects to the next level. With the introduction of the fourth generation of the Egg inspector last year, Moba made significant changes to ensure even more accurate results. In the Egg

inspector40, the monochrome cameras have been replaced by high-quality multi-sensor, full-color cameras. With these new cameras, even the slightest variation between defects can be detected, thus improving detection rates. This means you can be sure that every egg that ends up in consumer packs meets the quality standards of the target market.

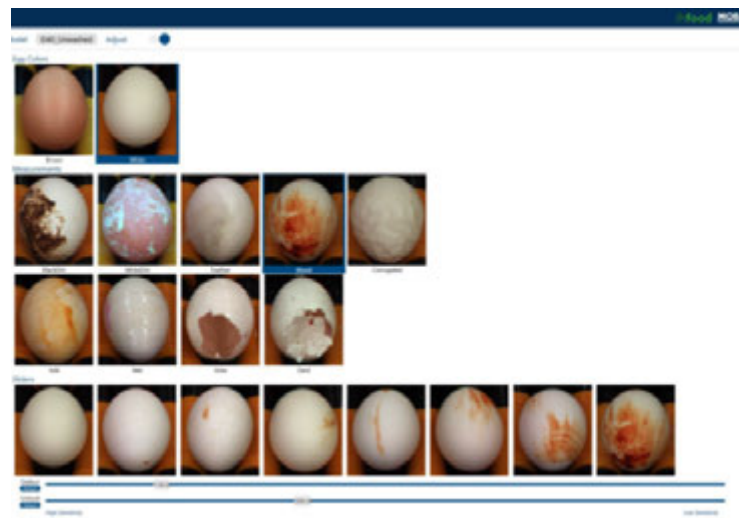
Images within seconds

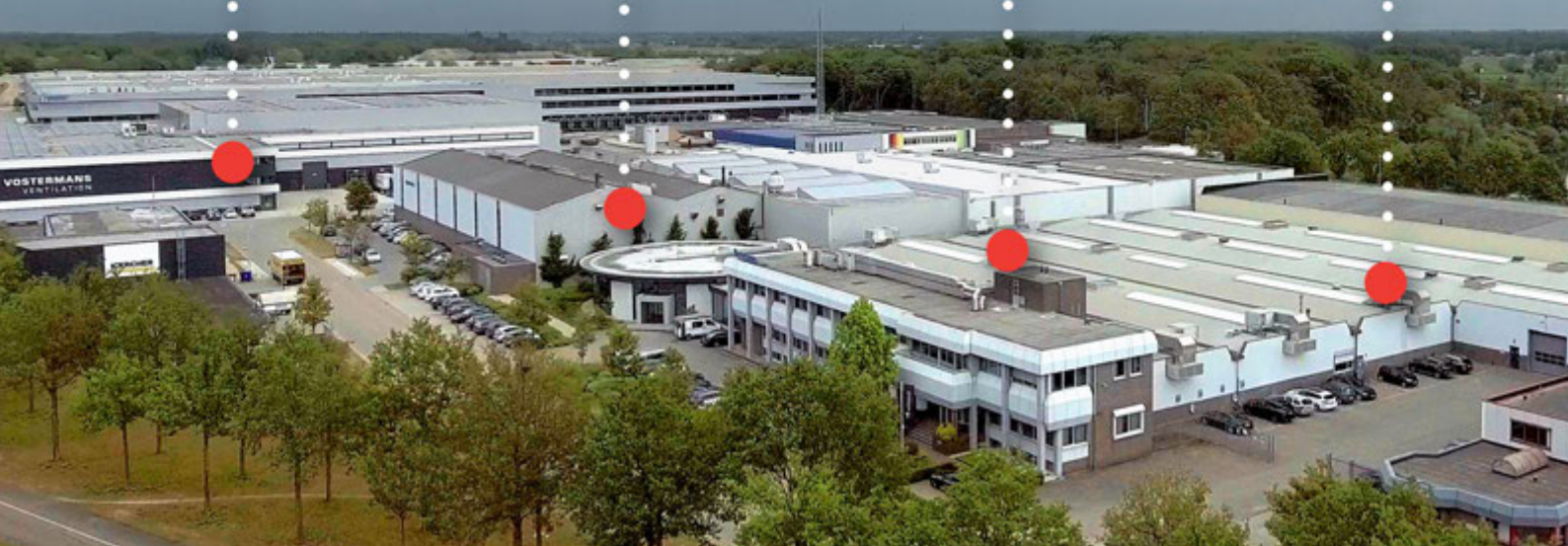
How does image processing exactly work? While the eggs are rotating, images are created by a balanced combination of cameras and flashing high-intensity LEDs. This combination produces special frequencies in the color spectrum making it possible to detect different defects on the eggs. These images are then processed on a high-performance computer using an Artificial Intelligence (AI) model. This AI model is trained by hundreds of thousands of images of all possible defects. This guarantees that the algorithm will recognize the

defect, and is trained to identify what specific defect it is. The Egg inspector can even handle both brown and white eggs, even randomly mixed on a grading machine.

The output of the AI system is transmitted to the grading system. The Egg inspector “tells” the grader which eggs are dirty or leaking. Depending on how the grader is programmed, the leaking and dirty eggs can be sent to an outlet in the infeed. Now, it is possible to remove leaking and dirty eggs early in the grading process, preventing downstream contamination. This configuration contributes strongly to a high level of food safety and ensures the high quality of the eggs that end up at the consumer’s table. Removing leaking eggs as early as possible also ensures that the equipment stays clean, as a clear separation can be created between “incoming eggs” and the “clean zone.”

For more information, visit www.moba.net





YOUR GLOBAL SPECIALIST IN PREMIUM AXIAL FANS

At Vostermans Ventilation, we develop, produce and distribute axial fans for the agricultural market. We are a Dutch, family-owned business founded in 1952. With a passion for technology and commitment to our customers, we deliver high-quality fans that meet our customer's ventilation needs and requirements.

The R&D department develops our motors and impellers and production takes place at our own state-of-the-art factories. Because we design and develop everything in-house, we're able to create the perfect motor-

impeller combination. Quality always comes first, because we understand that reliability is vital in the agricultural industry.

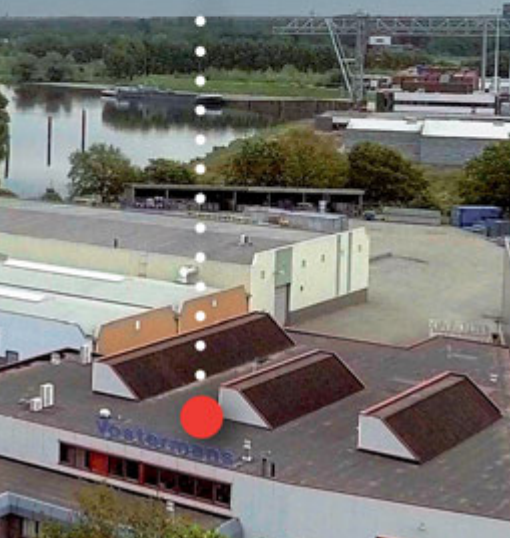
As we are a manufacturer, we can combine different impellers and motors. This results in a broad range of axial fans for a variety of applications. Depending on the application, we are able to develop a fan that performs better at high pressure, is extra efficient, and can move a lot of air over a long distance.

The ultimate motor-impeller combination not only ensures better performance, but also

a minimal motor load, which improves the service life. To be able to guarantee you the best quality, all combinations are tested extensively during rigorous test programs.

Multifan

Vostermans Ventilation manufactures the premium brand Multifan. Known worldwide as being energy efficient and very reliable, Multifan is the right choice if you're looking for a ventilation solution you can count on. In the development and production process, we take local laws and regulations, specific



mechanical ventilation, using fans.

Our exhaust fans are used in, among others, dairy barns, poultry houses, greenhouses and industrial applications. Each industry has its own challenges, requiring different ventilation methods. It is always important to ensure sufficient ventilation, taking into account temperature, occupancy, humidity and other gases or substances.

Flexible solutions

The product portfolio was created by listening carefully to the wishes and needs of our customers worldwide. Since the entire development and production process stays

in-house, we're able to deliver tailor-made solutions for any ventilation challenge you face.

Save more energy

Multifan fans are optionally available in extra energy-efficient ECplus and Vplus versions with infinitely variable speed control. For every 20% reduction in speed, the energy consumption is halved. In order to protect sensitive electronics in a controller, it is placed in a separate housing. This is essential to guarantee reliability in the most extreme environments.

For more information, visit www.vostermansventilation.com or directly send us an e-mail via ventilation@vostermans.com

market requirements, the local situation and specific customer requirements into account.

Circulation fans

The range of circulation fans offers a solution for every indoor climate challenge. We offer fans that are specifically designed to evenly distribute air in an energy-efficient way. Vertical or horizontal airflows improve temperature and humidity differences, creating a uniform climate.

In addition, we offer circulation fans that ensure that animals or people are kept cool. A solution that can help prevent heat stress and keep animals healthy.

Exhaust fans

Choosing natural ventilation can result in an insufficient air exchange or temperature change. A problem which can be easily solved with the help of





This 4 m³ amixon® twin-shaft mixer is equipped with a particularly large discharge device. A batch cycle takes only 5 minutes (filling, mixing, discharge and closing the discharge fitting).

FEED MIXER FOR MILK REPLACEMENT FEED, MILK REPLACER

Milk replacement feed is produced for calves, but also for other farm animals. Dry milk and whey powder are enriched with nutrient additives so that the young animal can be weaned earlier from the mother.

A milk replacer must be easily digestible for the young animal. Its formula is therefore adapted to the age and the stage of development of the digestive organs.

The mixing task is ambitious. The powdered milk derivatives must be gently homogenized so that they can be quickly dissolved in water by the user - as instant products. In particular, the nutrient additives must be finely distributed in the powder. In some cases, fats are also added to increase the energy content.

An ideally conditioned milk replacer must essentially meet the following criteria:

- The trace elements and vitamins must be ideally distributed. This is similar to the production of infant formula.
- The fat must be ideally finely distributed.
- The mixing process should be

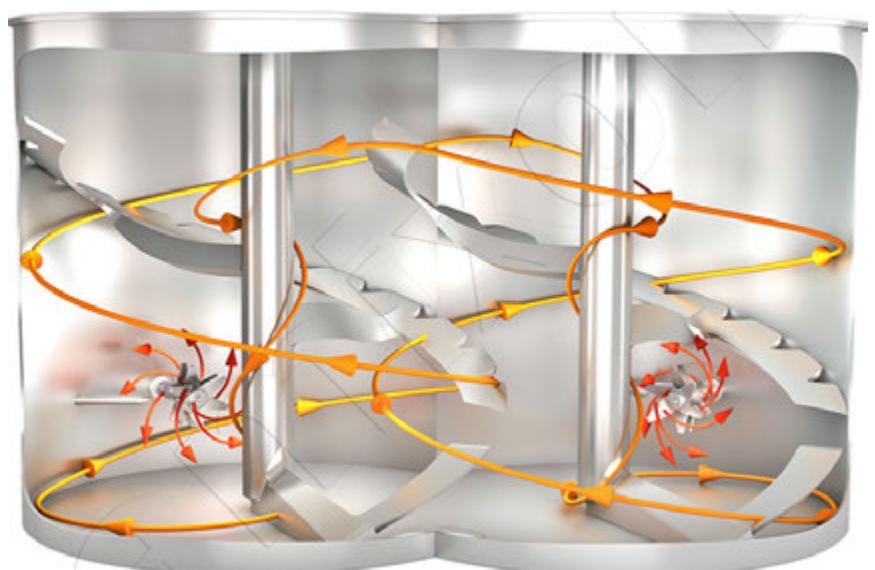
fast and gentle; the powder must remain cold, no heat toning should be detectable.

- The powder should remain free-flowing.
- The powder should not clump when stacked in a big bag, sack or pouch.
- Atmospheric oxygen should optionally be replaced by inert gases in order to extend the shelf life.
- The powder can also be impregnated.

- In this respect, the young animal should be quickly accustomed to normal feed and compound feed.

amixon® mixers are particularly well suited for this mixing task. The mixers are designed in an outstandingly hygienic manner. The mixing process is carried out gently. Optionally, the mixer can be manufactured vacuum-proof.

For more information, visit www.amixon.com



Mixing process in the amixon® twin shaft mixer. In the peripheral area of the mixing chamber, the upward flow is dominant. Inside the mixing chamber, the downward flow prevails. Shovel-shaped mixer elements realize the cross-flow of the mixing goods. In addition, high-speed rotating agitators can be installed. They realize the deagglomeration.

VEOLIA EXTENDS WATER REUSE PROCESS FOR LEADING QATARI DAIRY PRODUCER BALADNA, REDUCING THEIR WATER CONSUMPTION BY MORE THAN 50%

Following the first stage completed in 2020, Qatar's leading dairy producer Baladna renewed its trust in Veolia Water Technologies to extend the wastewater treatment capacity at its farm in Al Khor, north of Doha. Baladna is home to over 24,000 cows that are spread over 2.6 million square meters, and will now recycle 22,000 m³/day of wastewater.

Committed to ecological transformation, Veolia Water Technologies is working with Baladna Food Industries to support their sustainability plan and recycle their wastewater. The partnership started in 2020 with the design and construction of a 6,000 m³/d wastewater treatment plant, allowing for the treated water to be reused for irrigation within the farm and, following further treatment by reverse osmosis, to spray and cool the cows during hot summer months. Based on this successful project, Baladna decided to go further in

2021 by tripling the treatment capacity to 22,000 m³/d.

Baladna CEO, Piet Hilarides expressed his enthusiasm for the partnership with Veolia: "After a first successful project with Veolia, we strengthened this partnership in line with Baladna's commitment to sustainable water management. The holistic approach to reuse treated wastewater and limit environmental impact of open lagoons are key developments. We are enthusiastic to expand the treatment capacity of reusable water on a larger scale, reducing our freshwater consumption by more than 50%. This project marks a major milestone on the sustainability journey of Baladna and will significantly contribute to improving the environment for the surrounding Al-Khor area."

The system includes an initial separation step with a capacity of 22,000 m³/day. 12,000 m³/day will be recirculated for flushing barns, with the remaining

10,000 m³/day further treated in an MBR system followed by a polishing reverse osmosis step to produce water to replace the potable water currently used in the soaking and misting systems of the farm.

Thierry Froment, CEO Veolia Water Technologies Middle East explained: "This project will reduce the strain on freshwater resources while eliminating the need for huge water treatment lagoons and the visual and odor pollution caused. This collaboration also highlights a significant achievement in the sustainability plan of Baladna and, in line with Veolia's purpose of ecological transformation, showcases a holistic way to reuse treated wastewater. We are extremely proud of the relationship between Baladna and Veolia in Qatar."

For more information, visit www.baladna.com www.veolia.com



HORSE TRACKING TECHNOLOGY PROVIDER SPOTTER REACHES 12,000 GLOBALSTAR SATELLITE IOT COLLARS DEPLOYED ACROSS CENTRAL ASIA

Globalstar Europe Satellite Services Ltd., a wholly owned subsidiary of Globalstar, Inc. (NYSE American: GSAT) announced that Mongolia-based Value Added Reseller Spotter has now deployed over 12,000 animal-tracking collars based on SmartOne C and SPOT Trace.

These highly innovative satellite IoT devices are being used in Mongolia, Kazakhstan and Kyrgyzstan to track and safeguard horses, including high-value competitive racehorses. This is a remarkable, exponential growth rate – up from 1,000 Spotter devices deployed, as announced in January 2020 – with up to 240,000 horses now protected. Horses are part of daily life in Central Asia and horseracing is a major sport in Mongolia. However, with the sparsely populated nation's 4.5 million horses roaming fence-free, keeping tabs on the animals is a major challenge for owners.

Founded in 2014, Spotter continues to satisfy the region's unrelenting demand for highly capable and far-reaching technology solutions that can monitor the location of millions of horses. These animals are semi-wild, and free to range across vast expanses to graze.

Spotter has deployed 9,000 SmartOne C-fitted collars and 3,000 built on SPOT Trace. Requirements differ among

customers. Racehorse owners, wanting to keep particularly close watch over their valuable equines, appreciate SPOT Trace's hourly tracking.

Meanwhile owners of family herds and those who use horses for transport, meat and milk value the extended tracking duration and lower device maintenance enabled by SmartOne C's long battery life. The horses typically roam in herds of around 30, with one lead stallion keeping the animals together and providing protection. As a result, the group can be effectively monitored with just one collar.

Further building on its ongoing success, Spotter has just delivered yet further innovation, meeting ever-evolving market demands, with the launch of its new dual-mode solution.

Spotter has created a new hybrid collar which leverages Globalstar satellite communications along with radio transmissions to create a low-cost solution that makes it possible for owners to track individual horses as well as a herd.

"We've already addressed one of the biggest challenges horse owners face, namely the location of a herd. But sometimes individual horses break away from their group, and owners are keen to locate them," explains Tsogbadrakh Surenjargal, Spotter Co-Founder.

For example, whenever a



herd owner tries to introduce new individual horses, such as a recently purchased animal, or if the owner attempts to merge herds, typically it takes time for the new members of the herd to 'fit in'. With group instinct not yet established, often a new arrival is temporarily ostracised by its fellow horses before being accepted, and on occasion it can even run away. During this transitional



integration period, the owner still needs to know the whereabouts and condition of the newer herd member, even if it has travelled and is distant from the rest of the group. Racehorses, prized animals which can be more highly strung than leisure or utility horses, can also be a particular flight risk.

Until recently, if a horse has strayed from its group, the owner was unable to know which one

it was, or where it has travelled. Now, Spotter has developed a new hybrid IoT device that can be connected to SmartOne C. It can be fitted on specific at-risk horses and, as a result, the owner can know if the individual animal has roamed away from the herd. The system can track the breakaway horse up to a 1km radius, giving the herdsman the opportunity to locate and retrieve the animal before it has travelled too far.

The radio signals from collars on these solo straying horses are relayed to the Globalstar network via Globalstar's SmartOne C devices, and complement satellite-enabled IoT signals: "The combination of satellite and radio signals makes our new solution very cost-effective, and we believe this means more herd owners will have the ability to benefit," Surenjargal added.

The introduction of analytics to help discover optimum grazing areas is in Spotter's technology

and applications roadmap.

Furthermore, Spotter believes that the requirements for its technology solution will expand far beyond horse-tracking. Spotter's collars are already being used to track and monitor livestock, including cattle, sheep and goats, but are additionally helping conservationists to protect wildlife.

"Spotter continues to demonstrate its unstinting commitment to innovate in order to meet customers' ever-evolving needs," commented Mark O'Connell, Globalstar General Manager for EMEA & APAC.

"We offer huge congratulations to Spotter for its phenomenal success and we are so proud to enable such pioneering satellite IoT solutions for horse owners across Central Asia to help them safeguard their cherished herds," he added.

For more information, visit www.smartspotter.net

FOOD INNOVATIONS SHAPE EXPORT FROM LITHUANIA

Lithuania is known for blending the best of nature with the latest in tech. As such, it can be a perfect partner to countries looking to diversify their sources of not just agrifood products but also innovative and healthy FMCGs. The latest technologies, scientific approach, and natural growing products mark the Lithuanian F&B products reaching the global markets.

Lithuania – an oasis for organic & smart food sourcing

Located in Northern Europe, where the climate is neither too hot nor too cold for growing quality produce at scale. Lithuania has many advantages that stem from the country's approach to the environment. With more than a third of its territory covered by forests, Lithuania boasts clean air and a relatively low number of heavy industry enterprises. In addition to that, it has access to vast resources of artesian groundwater – clean water that's 100% free of human impact.

On the tech side, Lithuania has a booming startup community, a deeply ingrained appreciation for open data, and collaboration between researchers and entrepreneurs. A country

of under 3 million people, Lithuania has a solid track record of innovation – from co-creating one of the world's largest scientific lasers to building nanosatellites. And while gene editing is a booming research field in the country, the cultivation of GMO crops in Lithuania is prohibited.

The country's natural advantages and tech prowess come together and open doors to various possibilities in agriculture and food production. Lithuanian companies are using advanced technologies like freeze drying, min-till agriculture, and even 3D printing while relying on seasonal, organic goods to produce healthy and nutritional food products.

"Markets around the world – including the Gulf region – signal the need for nutritious, healthy, and eco-

friendly foods. Lithuania has it all to become a prime food-sourcing destination for partners that value high quality, sustainability, and innovation. Companies in the agrifood sector integrate our long-standing traditions with cutting-edge technologies to produce nutritious goods that fit different tastes across the globe”, says HE Kęstutis Navickas, Minister of Agriculture of Lithuania.

An efficient agriculture sector forms a strong foundation

With its deep traditions and versatility, Lithuania’s food industry plays an important role in the country’s overall economy. In terms of the GDP share generated, it is definitely one of the continent’s leaders. The Lithuanian agro sector is twice the size compared proportionally to other countries of the European Union. According to Eurostat, in 2020, the sector was responsible for 3.7% of Lithuania’s gross domestic product, while the value-added also hit record heights at €1.5 billion per annum.

Organic agriculture is the way to go. In 2020, the country already had 240,024 hectares of land under organic

farming, which accounts for 8.1% of total agricultural land. This is ahead of many countries and on track to achieve the European Green Deal target of 25% of agricultural land under organic farming by 2030.

The country’s agricultural sector has a high degree of self-sufficiency, which stands at 151% for dairy, 236% for beef and veal, and 267% for grain. Such high output allows the country to export 51% of its total agricultural crop and 47% of its livestock, predominantly high-quality beef and veal.

The Lithuanian food industry accounts for the largest share of its exports – around 16%. In the first half of 2022, the value of food exports grew by 20% in comparison with the same period in 2021. Lithuanian agrifood products are exported to as many as 154 countries, with the US, Germany, the Netherlands, and Poland, being significant export destinations, also fast-growing exports to UAE and GCC, as well as Indo-pacific markets. “Lithuania recognizes UAE as an economic and innovation hub in the region. As we celebrated the 30th anniversary of diplomatic relations between Lithuania and UAE on October 16, the sky is the limit for bringing our bilateral trade to the next

level, especially in sectors of agriculture and innovation,” Ambassador of Lithuania to the UAE HE Ramūnas Davidonis adds.

Lithuania has a thriving food sector that continues to develop high-value-added products and relentlessly pursues innovative technologies and production methods. From organic produce, and internationally recognized dairy products to 3D-printed snacks using freeze-dried ingredients and foods specially designed to optimize the health of seniors – when it comes to quality food, Lithuania is punching way above its weight. Given the many disruptions shaking the world today, securing a reliable food supply is becoming increasingly crucial, and Lithuania has plenty to offer.



AGRAME ATTRACTS OVER 4000 INDUSTRY PROFESSIONALS AS FOOD SECURITY AND SUSTAINABILITY DOMINATED AGENDA

Exploring the Middle East and North Africa's pathway to food security, AgraME – the region's most advanced agriculture event – officially concluded at the Dubai World Trade Centre on 26th October. Officially inaugurated by His Excellency Mohammed Mousa Alameeri, Assistant Under-Secretary for the Food Diversity Sector at the UAE Ministry of Climate Change and Environment (MoCCE), AgraME explored topics such as sustainability, aquaculture, biodiversity, and smart farming.

Delivering the conference keynote on the opening day, His Excellency pointed out that ongoing efforts contributed to the UAE's leading position in the

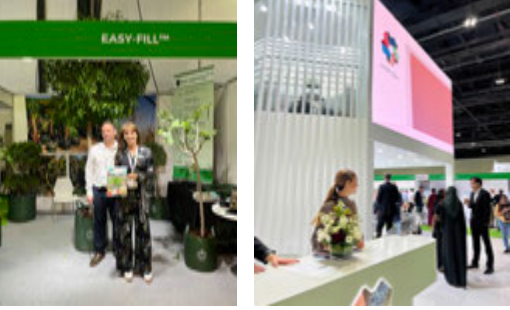
MENA region on the Economist Impact's Global Food Security Index 2022, compared to the third place in 2021. "The country ranks 23rd globally, advancing 12 places on last year," he said.

Alameeri also noted that employing modern technologies is crucial to enhance food security by increasing production capabilities and ensuring its sustainability. "Therefore, organizing specialized conferences and exhibitions provides important platforms to showcase the latest innovative specialized solutions in the sector and promote opportunities to benefit from and leverage in an optimal manner. I was pleased to witness a rich agenda dealing with vital topics, such

as aquaculture, controlled-environment agriculture, vertical farming and greenhouses."

Other leading experts that took to the stage included Juan Carlos Motamayor, the Head of NEOM's Food Sector; Pierre Broun, NEOM's Director of Agriculture – Food, and Henry Gordon-Smith, CEO of Agritecture and a world-renowned agricultural expert. Meanwhile, Erika Parente, Director of Farming as a Service at Cultivat'd, led discussions on animal feed and saving food miles, with impactful insights from Gabriel Zarafonitis, President of Farm Anywhere.

"We saw a number of really insightful sessions take place on engaging youth in the agriculture and aquaculture



industries and celebrating women in agriculture,” said Brent Crosbie, Exhibition Director of AgraME. “This year, we also welcome NEOM as our ‘Future of Food Partner’, so our visitors had the chance to explore the

role technology will play in the transformation of global food systems as envisioned by the NEOM Food Sector and its various initiatives.

“We also put an increased focus on sustainability, and with innovative companies such as Sustainable Planet taking part, industry visitors were able to witness the whole gamut of innovation that’s not only happening regionally, but across the globe.”

More than 4,000 local and international industry professionals met in Dubai to showcase their products and solutions aimed at achieving self-reliance in food production. 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.

One of the exhibitors driving innovation within sustainable

food production is Sustainable Planet, whose aim is to create sustainable and climate-friendly food sources with plant-based protein such as water lentils. Speaking from the show, Sven Kaufmann, CEO, Sustainable Planet, said that with the global population growing at a rapid pace, now is the time to start looking at innovative alternatives to ensure future food security.

“There will be 10 billion people globally in 2050, equating to 50 to 70 per cent more food being required,” he said. “Currently, animal protein is the primary protein source with more than 90 per cent of all animal feed being soybean based, there is a crucial need to increase soybean cultivation – an impossible task as there is insufficient arable land.

“Industrial soybean production dramatically impacts the planet, equal to meat. Moreover, excess consumption of soybeans is detrimental to human health. We predominantly use water lentils for our products, which not only produce 10-15 times more protein per hectare than soybeans, but, in optimal conditions, do not need arable land, reproduce every 24 hours, 95 per cent of water used is recycled, and the process is climate positive, producing 300kg of CO₂e per hectare a day.”

The event also welcomed key sponsors Abu Dhabi’s AIDhara, world leaders in innovative food solutions and optimised supply chains, and Canada’s Cultivat’d, renowned agtech brokers and experts in indoor farm technology.

AgraME is returning 9-10 October 2023 at the Dubai World Trade Centre and is free to attend for industry professionals.



SAUDI AGRICULTURE 2022 ATTRACTS 21000 VISITORS AND OVER 450 EXHIBITORS

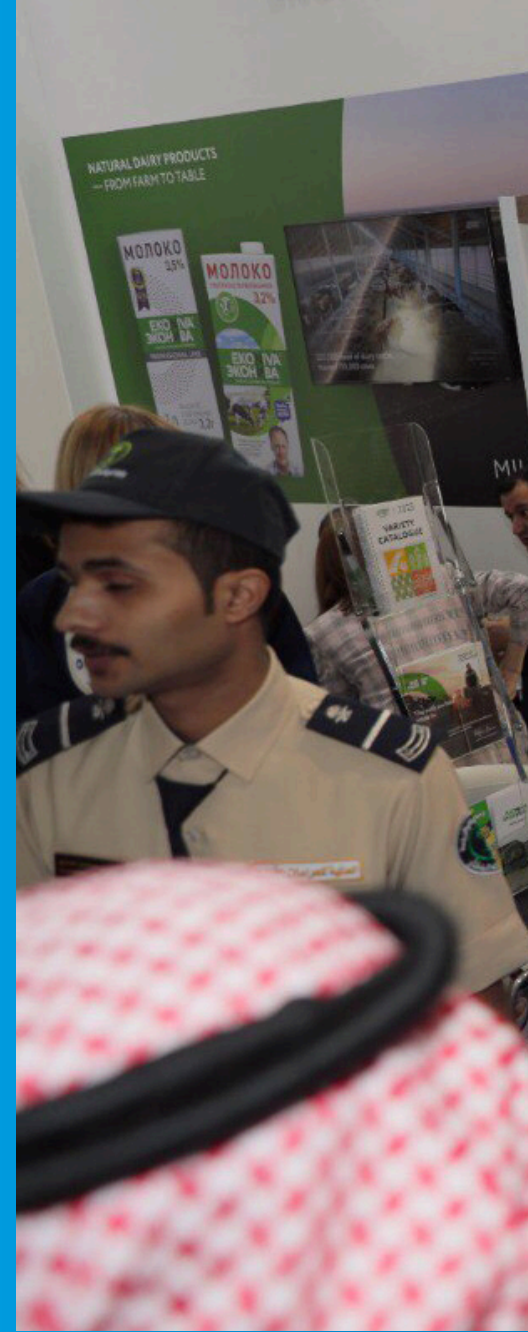
The 39th edition of the Saudi Agriculture Exhibition, the Middle East largest and most influential event for the agriculture industry was hosted once again at the prestigious Riyadh International Convention and Exhibition Center from 17th to 20th October, 2022.

The trade exhibition and concurrent conference organized under the patronage of the Ministry of Environment Water & Agriculture (MEWA) welcomed more than 21,000 industry professionals who could once again source their needs from the over 450 exhibitors from the Kingdom and forty-five countries.

The exhibition played a massive role in contributing to Saudi vision 2030. At the exhibition, more than 28 agreements of cooperation and cooperative exchange were signed, in addition to various commercial deals.

The exhibition and the accompanying forum also had the presence and participation of scholars and academics from different countries of the world, as well as from various Saudi universities. More than 38 working papers were presented, in addition to research in the agricultural field.

Alongside the exhibition, many accompanying workshops were also held, which made the show a business hub for making deals, and meetings, providing facilities, options, plans, and strategies in



the agriculture sector, and the latest findings of the whole world in this sector.

The speech of His Excellency the Minister of Environment, Water and

Agriculture, Engineer Abdul Rahman bin Abdul Mohsen Al-Fadhli, during his opening of the exhibition and the accompanying forum, disclosed that the Kingdom



has achieved high self-sufficiency rates for many crops, which contributed to supporting and enhancing food security, and led to an increase in local content

and output, directly or indirectly, in manufacturing and importing.

Chairman of the Board of Directors of the Federation of Saudi Chambers, Ajlan bin Abdulaziz Al-Ajlan confirmed that the national committees of the Federation of Chambers have achieved many achievements in line with the state's goals to achieve food security and economic prosperity and that they seek to overcome difficulties to stimulate agricultural investment in Saudi Arabia.

The CEO of Riyadh Exhibitions Company, Muhammad Al-Husseini, said at the end of the exhibition that the success of the show comes in strengthening this

vital sector, mainly as it served as an umbrella and a forum between the countries of the world in Saudi Arabia.

The presence of the most prominent authorities, organizations, and ministries, along with sector leaders and investors, is clear evidence of its importance, quality, and the extent of its desired benefit. They are preparing for the 40th Saudi Agriculture Trade Exhibition to be more significant. They have more involvement, including seminars and scientific workshops that will further enhance the exhibition and create a significant mark in the agricultural field worldwide.



THE 100,000-VISITOR CEILING HAS BEEN BROKEN THROUGH

The organisers of the SOMMET DE L'ELEVAGE were smiling broadly at the end of this 4th day of the show as the 31st edition could not have finished any better. "The objective has been more than achieved" Fabrice Berthon, the show's General Manager, was delighted to tell us. "105,000 visitors including 5,000 international visitors have strolled down the show's aisles." "We should highlight the excellent livestock judging at this year's show including the Charolais breed with its National Championships that was of the highest quality, plus a record number of technical conferences", particularly pleased Jacques Chazalet, the SOMMET's President.

For the 1,521 exhibitors at the show, this 31st edition was one to particularly savour as several big contracts were signed over the course of the four days and the atmosphere was particularly

upbeat and friendly.

2022 marks the return of international visitors with an attendance comparable of that of 2019, the last time the show was able to receive all foreign delegations prior to the COVID pandemic. For Benoît Delaloy, the Sommet's International Manager, "This edition has been one of meeting up with old friends again. There was real enthusiasm from foreign visitors delighted to be back in the International Lounge. We counted over 5,000 foreign visitors from more than 80 countries."

Other highlights included the International Livestock Evening that attracted between 300 and 400 spectators, and the European Hereford Congress

that interested approximately 100 Hereford farmers from 10 different countries. "All the delegates were elated; they were able to visit Hereford farms and discover the city of Clermont-Ferrand and its surrounds. This congress signalled the recognition of the French Hereford Breed Society and included a rich exchange of ideas and rearing methods.

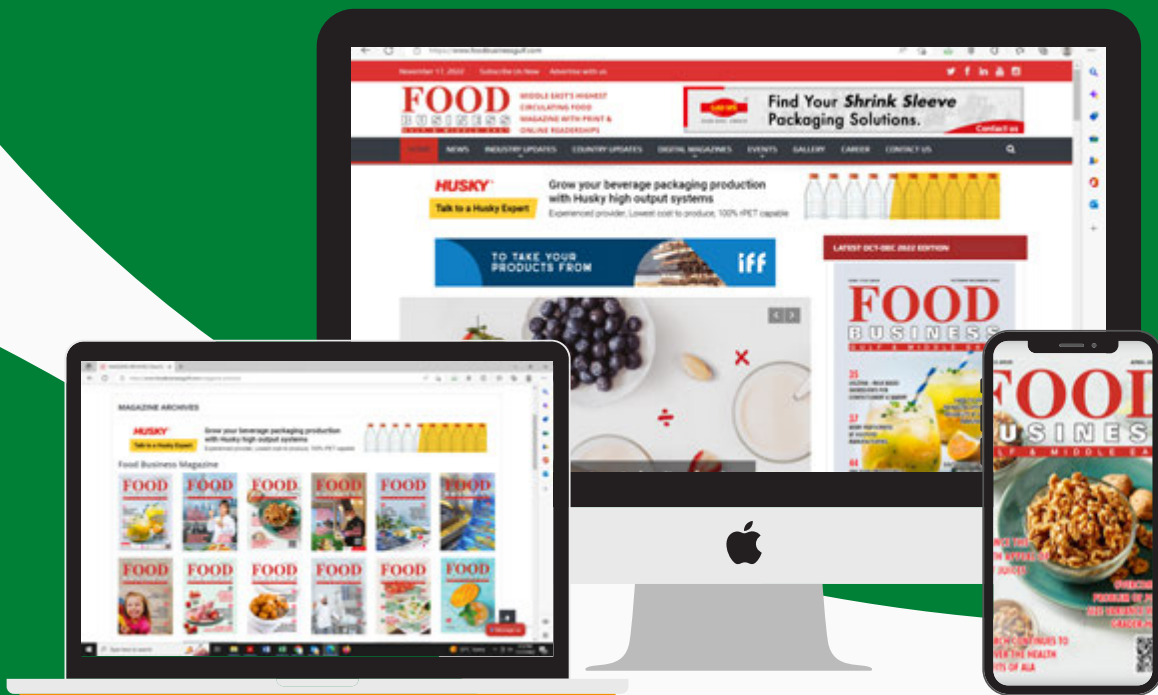
The impulsion from this year's excellent show and the dense programme specially concocted for our international visitors should lead to even more foreign delegates next year."

"2023 will see the national championships of two very popular international cattle breeds, the Limousin in the main Zenith beef ring and in the milk cattle ring, the Brown Swiss," as concludes Bruno Dufayet, President of APRAMAC, the association that organises the livestock judging during the SOMMET.

The 2023 show will host the Limousin and Brown Swiss breeds National Championships. Save the date: 3, 4, 5 and 6 October 2023

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