

DUBAI 2024

AgriNext Awards & Conference

"Think Agriculture Join AgriNext"



We are dedicated to recognizing and celebrating excellence in the agritech sector, showcasing innovations, and fostering collaborations. Our events bring together industry leaders, visionaries, and innovators to explore the latest advancements, discuss key challenges, and shape the future of agriculture.

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EDITOR'S NOTE:

Dear Readers,

Welcome to the latest edition of AgriNext community, your window into the world of agricultural innovation. In this issue, we explore the cutting-edge developments shaping the future of farming. From sustainable practices to breakthrough technologies, we've curated a collection of articles that showcase the dynamic evolution of agriculture in our rapidly changing world.

Our pages are filled with insights from industry leaders, innovative startups, and forward-thinking farmers who are redefining what's possible in modern agriculture.

This edition also serves as a preview of the upcoming AgriNext Conference, where many of these ideas will be discussed in greater depth. Whether you plan to attend or not, this magazine offers a glimpse into the conversations and innovations driving our industry forward.

At AgriNext, we believe in the power of knowledge-sharing and collaboration to create a more sustainable and efficient agricultural future. We hope this issue inspires you, challenges your thinking, and provides valuable insights for your agricultural journey.

Thank you for being part of our community of innovators and change-makers. Together, we're cultivating the future of agriculture. Happy reading!

Warm regards,

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Editor-in-Chief, AgriNext Magazine



From the founder

AgriNext Conference

Brief overview of AgriNext Awards, Conference & Expo and its mission

Welcome to the forefront of agricultural technology – the **AgriNext Awards, Conference & Expo!** Endorsed by **InternetShine Corp and Next Business Media**, this event stands as a beacon for the global agri-tech community. Designed as a virtual hub, AgriNext connects tech start-ups, SMEs, established providers, investors, and institutions in a collaborative space.

Our vision at AgriNext is to create a unified platform, fostering connections across the agricultural technology sector. We strive to be the catalyst for innovation, sustainability, and precision farming. Through knowledge exchange and collaboration, we aim to shape the future of agriculture.



CEO's Message



Dear Valued Readers,

It is with great pleasure that I welcome you to the inaugural issue of AgriNext magazine, a groundbreaking publication dedicated to the dynamic world of agriculture.

As the CEO of Next Business Media, I am thrilled to introduce this latest addition to our portfolio. AgriNext magazine is born from our commitment to fostering innovation, driving progress, and building a vibrant community within the agricultural sector.

Our vision for AgriNext extends beyond just a magazine. It is an ecosystem that encompasses our annual AgriNext Conference in Dubai, along with our digital platforms and services. Through these channels, we aim to connect industry leaders, innovators, and stakeholders, creating a nexus of knowledge exchange and collaboration.

In this rapidly changing landscape, where technology is revolutionizing traditional farming practices, AgriNext stands as your compass, navigating the exciting developments in agri-tech, sustainable practices, and market trends. Our pages will bring you cutting-edge insights, success stories, and expert analyses that will help shape the future of agriculture.

As we embark on this journey, I invite you to engage with us, share your experiences, and be part of this thriving community. Together, we can cultivate a future where agriculture meets innovation, sustainability intertwines with productivity, and global challenges find local solutions.

Welcome to AgriNext - where the seeds of tomorrow's agriculture are sown. today.

Anas Jawed

Founder & CEO, Next Business Media



AGRINEXT CONFERENCE INDUSTRY INEXTONE

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Farmers participating in Indigo Ag's carbon program

The partnership allows farmers participating in Indigo Ag's carbon program to generate additional income through the sale of carbon credits, with Indigo ensuring that farmers receive at least 75% of the average credit price after each transaction. To date, Indigo's carbon program has issued nearly 300,000 offset credits, reflecting the growing demand for scientifically supported, nature-based carbon solutions in the voluntary carbon market

Microsoft partners with

Indigo Ag for Groundbreaking Soil-Based Carbon Creditseum's History

The carbon credits purchased by Microsoft are derived from carbon farming practices, which focus on sustainable agricultural methods aimed at sequestering carbon in the soil. These credits are meticulously

verified and issued according to the guidelines of the Climate Action Reserve's Soil Enrichment Protocol, a globally recognized standard for carbon offsets. Microsoft's decision to collaborate with Indigo Ag underscores its commitment to integrating soil-based carbon removals into its broader decarbonization strategy. Indigo Ag facilitates these carbon credits by incentivizing farmers to adopt and maintain sustainable practices such as cover cropping, reduced tillage, and crop rotation. These practices not only enhance soil carbon levels but also contribute to reducing greenhouse gas emissions from agricultural activities.

In summary, Microsoft's collaboration with Indigo Ag marks a significant step towards leveraging sustainable agricultural practices for carbon removal, reinforcing their commitment to environmental stewardship and innovation in climate solutions.



Microsoft's purchase will draw from Indigo

Ag's third carbon crop, sourced from farms across 28 states in the U.S. This transaction highlights the maturity and increasing importance of soil-based credits in climate action, demonstrating their value in mitigating greenhouse gas emissions.



°indigo

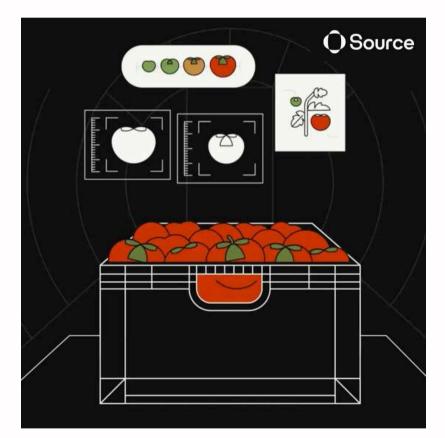
Dean Banks, CEO of Indigo Ag, described

Dean Banks, CEO of Indigo Ag, described the agreement with Microsoft as a "major milestone" for their carbon program, promoting the adoption of nature-based carbon solutions in global climate efforts.



Source.ag Launches Source APIs to Enhance Precision Farming in Greenhouses

Source.ag, a leading provider of AI solutions tailored for vegetable growers, has introduced its latest innovation, Source APIs, designed to revolutionize data integration within greenhouse environments. This new addition facilitates seamless data exchange between greenhouse sensors and Source.ag solutions, empowering growers with enhanced accuracy and centralized oversight.





The inaugural release, Source API for Sensors, enables growers to elevate their operational efficiency by leveraging real-time sensor data. By integrating with a variety of sensors from manufacturers like Aranet, SenseNL, and Quantified Sensor Technology, among others, Source API for Sensors ensures continuous data flow directly into the Source.ag platform.

Gints Antoms, Global **Business** Development Director at Aranet, emphasized the importance of this collaboration: "Partnering with Source.ag to integrate our sensor data via Source API for Sensors signifies a significant advancement in horticulture technology. Our sensors, including for those measuring volumetric water content in substrates, contribute critical data for Source.ag's Irrigation Control module, enhancing productivity and sustainability in greenhouse operations.



Paul Kengen, commercial lead

" Paul Kengen, commercial lead at Quantified Sensor Technology, echoed this sentiment, stating, "We are excited to collaborate with Source.ag in deploying our 'Smart Gutter' sensors for irrigation control. This partnership exemplifies our commitment to advancing agricultural technology, ensuring smarter and more efficient greenhouse management."



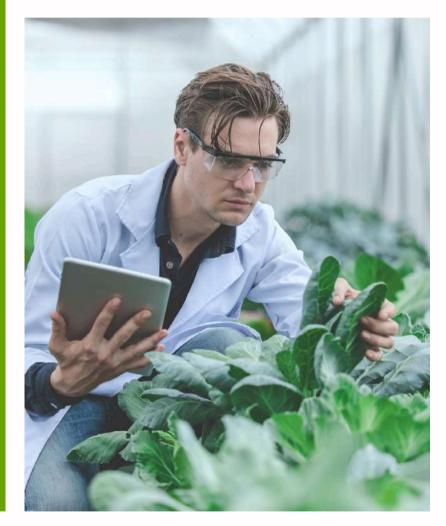


"Our goal is to consolidate data from diverse sensor sources into a unified platform, providing growers with comprehensive insights into greenhouse conditions. This seamless data exchange not only enhances operational visibility but also enhances the AI capabilities driving our solutions, delivering added value to growers."

Developed in collaboration with industry leaders and growers, Source APIs underscore Source.ag's commitment enhancing areenhouse farming costeffectively. By integrating real-world agricultural expertise with advanced AI and data analytics, Source.ag continues to pioneer scalable solutions that address the evolving challenges of modern agriculture.

" Source.ag continues to expand its list of compatible sensor manufacturers,

Source.ag continues to expand its list of compatible sensor manufacturers, encouraging growers to contact them directly for integration support tailored to their specific needs. Adriaan van der Feltz, Product Manager at Source.ag, highlighted the practical benefits of Source API for Sensors:







"FAO and Jordan's Ministry of Agriculture Launch Project to Enhance Decentralized Agricultural Services"

The Food and Agriculture Organization (FAO) and Jordan's Ministry of Agriculture (MoA) launched the "Enhancement of Efficient Response in Decentralized Agricultural Departments" project today. This initiative aims to elevate service quality within

The workshop, held under the patronage of Jordan's Minister of Agriculture, Eng. Khaled Hnaifat, was attended by representatives from the Ministry of Agriculture, Ministry of Environment, and selected stakeholders.

Minister Hnaifat emphasized the importance of developing a conducive business environment to support agricultural sector projects and activities. He highlighted the need for updated tools and services in agricultural departments to meet evolving sector demands and serve farmers effectively.

The project focuses on strengthening service infrastructure and enhancing satisfaction within customer decentralized agricultural departments. А comprehensive capacity-building program will be rolled out for veterinarians, paravets, extensionists, agricultural engineers, departmental staff directly and engaging with farmers. This training highly skilled aims to cultivate personnel capable of driving agricultural sector development and delivering improved services.

FAO Representative in Jordan, Eng. Nabil Assaf, affirmed the project's alignment with the Ministry of Agriculture's service delivery enhancement goals. He highlighted the project's role in building departmental capacity to respond effectively to service recipients' needs, supported by ongoing feedback mechanisms for continuous service improvement.

Jordan's agricultural sector, enhancing responsiveness and effectiveness across decentralized agricultural offices.

Under the agreement, FAO organized an inception workshop to introduce stakeholders and project partners to the project's scope, objectives, and implementation strategy.



Measuring Customer Satisfaction

Additionally, tools for measuring customer satisfaction will be implemented to assess service quality and timeliness, facilitating informed decision-making and targeted improvements.

Funded entirely by FAO, the project is scheduled to conclude by October 2025 and will be implemented in collaboration with selected decentralized agricultural departments under the Ministry of Agriculture.







04

Harvesting Harmony:

The Imperative of Global Agriculture For a Sustainable Future

Despite agriculture's tremendous productivity, food shortages, malnutrition, and famines are common around the world. Many people assume that the world's agricultural system is not capable of producing enough food



"We can indeed eliminate the scourge of hunger in our lifetime. We must be the zero hunger generation."

On behalf of the United Nations and the world bank, in a four year process more than 400 scientists summarized the state of global agriculture, its history and its future. The outcome was the International Assessment of Agriculture Science and Technology for Development (IAASTD).



for everyone, but this is incorrect. Evidence from agricultural research demonstrates that there is enough worldwide agricultural capacity to feed everyone on the planet. The problem is that its capacity is unevenly distributed. Some countries produce much more food than they need, while others produce much less. In addition, distribution systems are inefficient, and much food is lost to waste or spoilage.

Why should 783 million people on our planet go hungry while 1.9 billion are suffering from the ill effects of being overweight and obese? In 2021, more grain was harvested than ever before. Despite this record-breaking harvest, only 42.2% was used to feed people.



The need for global agriculture arises from several interconnected factors that highlight the importance of a coordinated and collaborative approach to agricultural practices on a worldwide scale. Here are some key reasons why global agriculture is essential $_{0.4}$



FIELD REPORTS

Agri-Industry Insights" Presented By Next Business Media





01 The Rise of Precision Agriculture

GPS-guided tractors and machinery enable farmers to navigate their fields with unparalleled accuracy, reducing overlap and avoiding unnecessary resource application. This not only saves money and time but also contributes to environmental conservation by minimizing the environmental impact of agricultural activities. Sensor technology plays a crucial role in monitoring various parameters such as soil moisture, temperature, and nutrient levels. By understanding these variables farmers can make informed decisions on irrigation fertilization and pest All of the content within this proposal is confidential and meant only for the client and for his/her affiliates. If you are receiving this proposal as a third party by accident, please make sure to let us know!



control ensuring optimal crop growth. "Drones are revolutionizing agriculture with their high-resolution cameras and sensors, capturing detailed field images to identify issues like pest infestation and crop diseases swiftly. This real-time data empowers farmers to take immediate action, reducing crop losses and minimizing chemical use.

While precision agriculture faces challenges like initial investment costs and technical expertise requirements, ongoing technological advancements are making it more accessible.



"In agriculture, precision isn't just a measure; it's a methodology. Precision agriculture blends technology with the land, orchestrating a symphony of data and machinery for sustainable growth. It nurtures a future where every seed sown fulfills a promise."



Precision agriculture, also known as precision farming, is a revolutionary approach that harnesses cutting-edge technologies such as GPS guidance systems, sensor drones and data analytics to enhance decisionmaking processes in agriculture.



O2 Diseases of forage crops and their sustainable management

Farming is not something that can be taught. Each plant tells its own story that has to be read repeatedly. Kelsey Timmerman said, "The forage crops that largely serve as fodder for cattle are sorghum, cowpea, berseem, alfalfa, etc. These crops are attacked by Meloidogyne, Pratylenchus, Ditylenchus, Tylenchorhynchus, Xiphinema, Trichodorus, etc." (Hasan, 2010).

In forage crops, infestation with these nematodes leads to significant suppression of plant growth, to the tune of 8% to 59%. The infestation in legumes with the above-mentioned nematodes also causes suppression in root nodulation.

In addition to the above-mentioned problems, pests, and diseases can have a significant effect on the establishment yield and

longevity of grass and forage crops. As with other crops, forage crops are subject to damage from pests and diseases that hinder crop establishment, impair forage quality, and reduce green fodder and seed yield. Pests diseases also cause and indirect losses, such as reduced nodule formation in legumes, eventually resulting in a decrease in nitrogen fixation capacity. The increasing livestock population puts great pressure on the total available feed and fodder, as the land available for fodder production has been decreasing. Currently, the country faces a net deficit of 35.6% in green fodder, 11% in dry crop residue, and 44% in concentrated feed ingredients. feed ingredients.

Ways To Improve Fodder Production Selecting suitable forage crops

Choose forage crops that are well adapted to your climate, soil type, and available resources.





Crop rotation and diversification

Implement crop rotation practices to enhance soil fertility and break the pest cycle. Diversifying forage crops helps in utilizing different nutrients and provides a more balanced diet for livestock.



Integrated pest management (IPM)



Investing in infrastructure



Precision farming techniques





the current level of forage Δt resources, there will be an 18.4% deficit in green fodder and a 13.2% deficit in dry fodder in the year 2050 population the livestock as is increasing concurrently. To decrease the net deficit of green fodder, the supply should arow at 1.7% annually. Efforts are underway in this direction via the adoption of high-yield fodder varieties, improved fodder production, and protection technologies. However additional efforts are required to increase the productivity of forage crops from the limited land area to ensure future fodder security.

Forage crops play a crucial role in sustainable agriculture, providing essential nutrients for livestock, improving soil health, and contributing to overall farm productivity.





Forage crops play a key role in mitigating environmental issues. They contribute to carbon sequestration, helping combat climate change. Moreover, their deep root system assists in preventing nutrient runoff, improving water quality, and reducing the impact of agriculture on the ecosystem

Forage crops contribute to the economic sustainability of farms. Livestock raised on nutrient-rich forage requires fewer supplementary feeds, reducing overall production costs. Additionally, the surplus forage can be sold or stored for periods when fresh forage is scarce.



Agroforestry

Let's meet in nature, and be the bedrock of shared peace.

03

Agroforestry_ the practice of growing trees and crops in an interacting combination, is recognized worldwide as an integrated approach to sustainable land use. It's estimated to be practiced over one million hectares in developing countries and to a lesser extent in industrialized countries.

Agroforestry systems (AFSs) are believed to have a higher potential to sequester carbon because of their perceived ability for greater capture and utilization of growth resources (light, nutrients, and water) than single-species crop or pasture systems.

The estimates of carbon stored in AFSs range from 0.29 to 15.21 Mgha-1yr-1 above ground and 30 to 300Mgcha-1 up to 1_m depth in soil Agroforestry is an innovative and sustainable farming practice



that integrates the cultivation of trees or shrubs with crops/or livestock on the same piece of land. This holistic approach to agriculture combines the principles of forestry and agriculture, offering a range of environmental, economic and social benefits. This article delves into the concept of agroforestry, it's various forms, and the positive impact it can have on both ecosystem and farming communities



Key Components of Agroforestry

Tree - crop integration

Agroforestry systems involve the deliberate integration of trees or woody perennials with crops. This integration can occur in various spatial arrangements such as alley cropping, where rows of trees are planted between crop rows, providing shade and windbreaks



Key Components of Agroforestry

Silvopasture systems

Agroforestry extends beyond traditional crops, encompassing livestock as well. Silvopasture involves the intentional combination of trees, forage, and grazing animals. This system enhances both animal welfare and environmental sustainability.

Windbreaks and shelterbelts

Farmers employ agroforestry techniques like windbreaks and shelterbelts to mitigate the impact of wind and erosion. Planted trees act as natural barriers protecting crops and livestock and improving overall Microclimates



Environmental Benefits

Carbon sequestration

Trees in agroforestry systems serve as effective carbon sinks helping mitigate climate change by Sequestering carbon dioxide. This contributes to the reduction of greenhouse gas emissions associated with traditional agriculture.

• Soil health improvement

The presence of trees enhances soil structure, nutrient cycling, and water retention. Agroforestry can combat soil erosion, improve fertility, and reduce the need for chemical inputs.

Economic Advantage

• Long term sustainability

The integration of trees enhances the long term sustainability of farming practices. Tree contributes to the overall resilience of agricultural landscape scapes reducing vulnerability to extreme weather events and market uncertainties.

• Biodiversity conservation:

Agroforestry promotes biodiversity by creating diverse habitats for plants, animals and microorganisms. This diversity enhances ecosystem resilience and contributes to the conversation g_4^f native species.



BIGGEST AGRICULTURE EVENT IN MENA AND APAC



COVER STORY

AgriNext Awards, Conference & Expo" Presented By Next Business Media Join us as we honor outstanding achievements, drive sustainable practices, and propel the agricultural industry into a technologically advanced and sustainable era. AgriNext Awards & Conference is your gateway to cultivating innovation for a brighter and more efficient agricultural landscape.

W W W . A G R I N E X T C O N . C O M



AgriNext Awards, Conference & Expo: Celebrating Excellence in Agriculture Technology

In the ever-evolving intersection of agriculture and technology, where innovation is the key to sustainable growth, the AgriNext Awards & Conference stands as a beacon, recognizing and honoring exceptional achievements in this dynamic sector. Scheduled to take place at the prestigious Le Méridien Dubai Hotel & Conference Centre on November 13-14, 2024, this event promises to be a gathering of visionaries, thought leaders, and trailblazing organizations shaping the future of agriculture technology.

The AgriNext Conference Awards serve a crucial purpose in acknowledging and celebrating the outstanding endeavors of individuals and companies in the Agriculture and Technology sector. The primary objectives are to recognize excellence, set new benchmarks for innovation, and applaud those who have demonstrated unwavering dedication to transforming the agricultural technology landscape. The conference is structured around two key categories – "Excellence in Agriculture – Companies" and "Excellence in Agriculture – Leaders," providing a comprehensive platform to highlight and honor achievements within the sector. Venue: Le Méridien Dubai Hotel & Conference Centre, adds a touch of grandeur to the event. Situated in the heart of Dubai, this world-class hotel provides an ideal backdrop for fostering connections and collaborations among industry leaders and innovators.

Mark your calendars for November 13-14, 2024, as the AgriNext Awards, Conference & Expo takes center stage. This two-day event will feature insightful discussions, networking opportunities, and the much-anticipated awards ceremony.



The "Excellence in Agriculture Technology- Companies" category celebrates organizations that have exhibited exceptional performance, innovation, and influence within the agriculture and technology sector.

The "Excellence in Agriculture Technology-Leaders" category spotlights exceptional individuals who have demonstrated exemplary leadership, vision, and expertise in the agriculture and technology realm. From CEOs and CTOs to industry influencers and thought leaders, this category recognizes the game-changers and visionaries leaving a lasting impact on the industry.

Participating in the AgriNext Awards, Conference & Expo not only brings well-deserved recognition for your achievements but also connects you with an exclusive community of trailblazers and innovators. The awards ceremony serves as a platform to exchange ideas, explore collaborative opportunities, and share success stories globally. It's an opportunity to inspire others and be inspired by the remarkable achievements of your peers.

Do you believe your organization or an individual you know deserves recognition for their contributions to agriculture technology?





AgriNext Confefrence



Nominate them now for the AgriNext Awards, Conference & Expo and become part of a distinguished group shaping the future of agriculture technology. Let your accomplishments be recognized on a global stage!

Join us in celebrating excellence in agriculture technology and innovation at the AgriNext Awards, Conference & Expo. Be a part of this transformative event and contribute to the evolution of agriculture and technology landscape.



Audience Overview





Vertical Farming Systems



Aeroponics Systems



Data Analytics for Agriculture



Pest Management Solutions

Sustainable Energy Solutions



Hydroponics Systems



Lighting Solutions (LED Grow Lights)



📲 Crop Genetics



Nutrient Solutions and Fertilizers



Software and Automation



Equipment and Machinery



Vertical Farming Container Solutions



Plant Health Monitoring Tech



Financing and Investment Services



Water Management Systems



Biotechnology



Infrastructure and Construction



Robotics & Al

Audience Overview





Aquaponics Systems



Climate Control and HVAC Systems



Greenhouse Technology



Substrates and Growing Mediums



Biochemical Gases and Oil



Vertical Farming R&D Institutions



Packaging Solutions

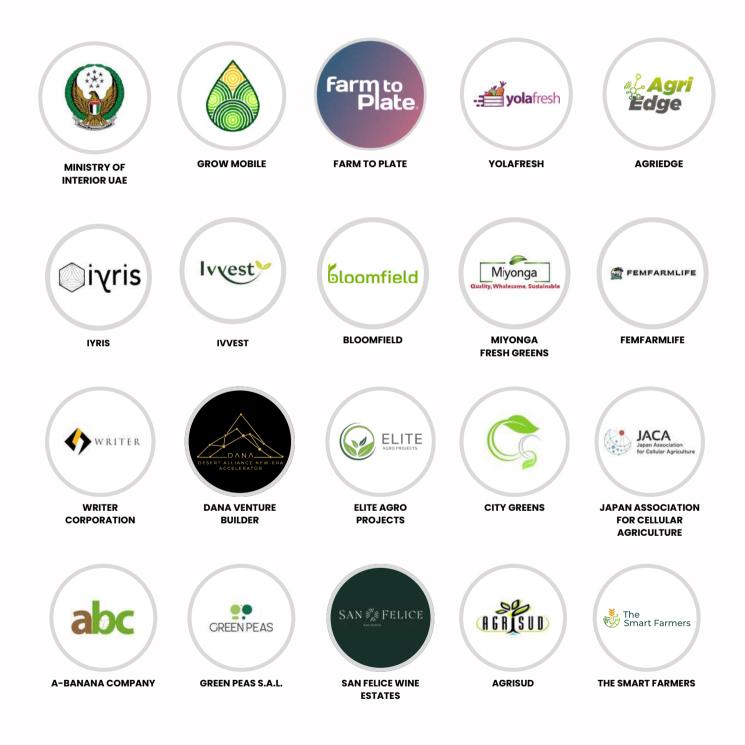


Vertical Farming Racks and Structures

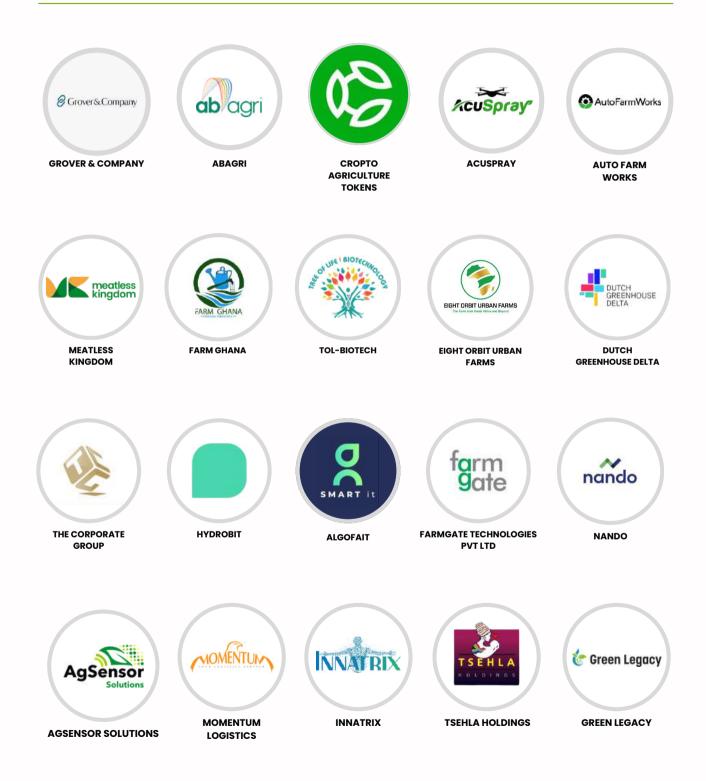


Consultancies and Services

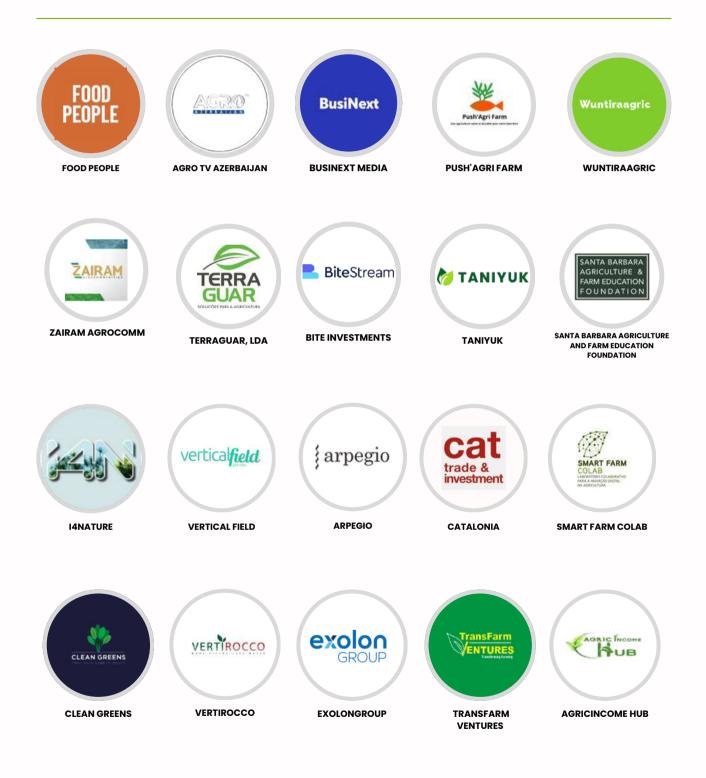












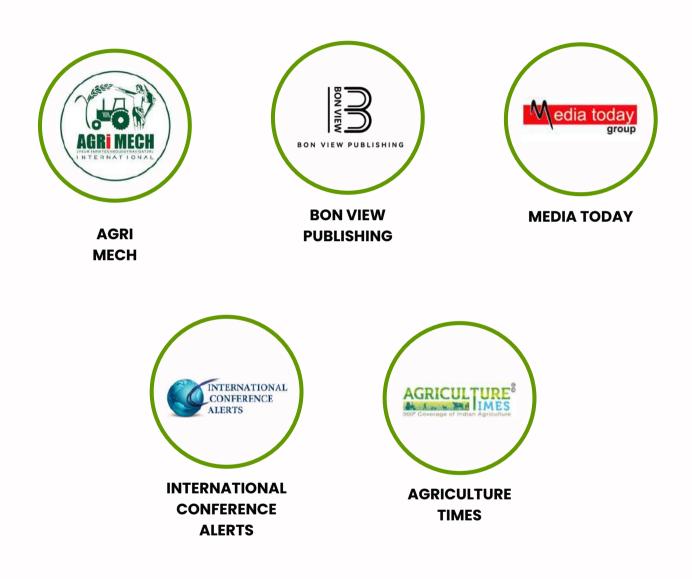




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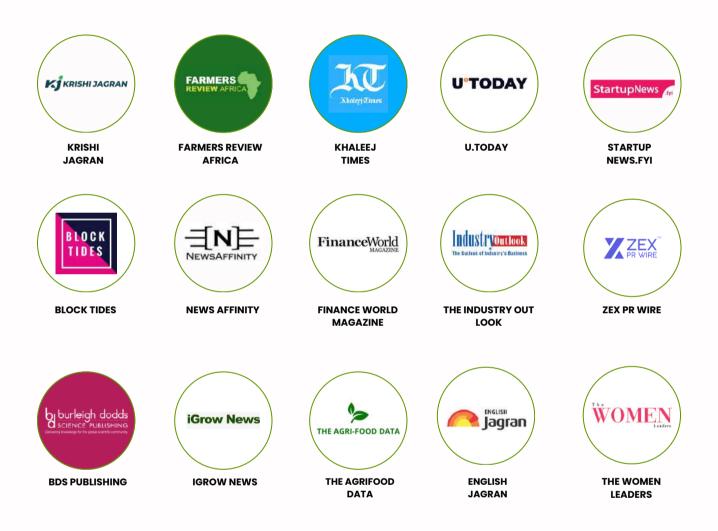


Logo Partners





In The News



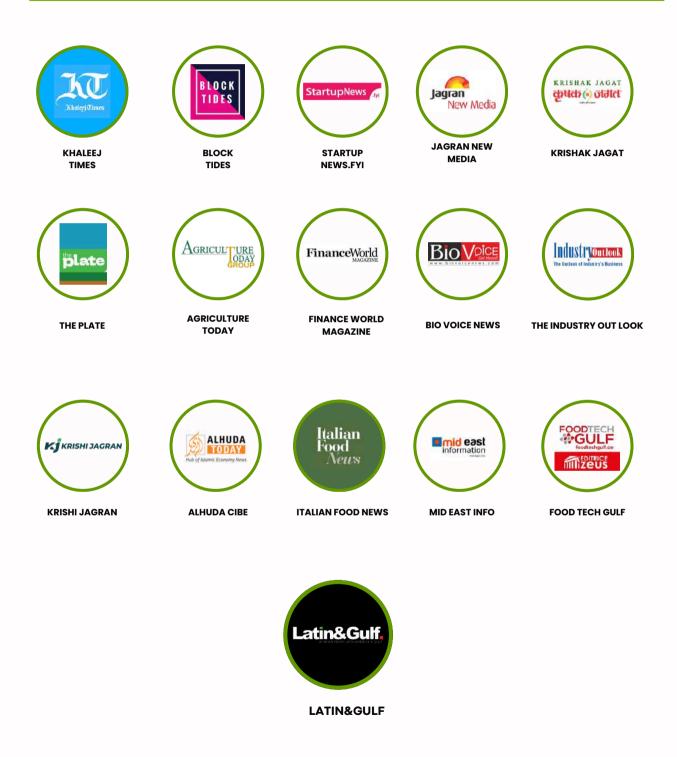


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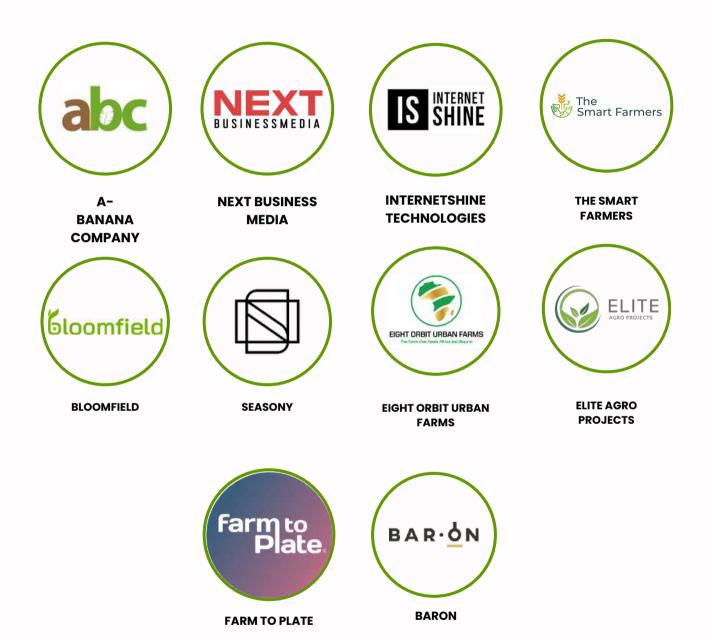


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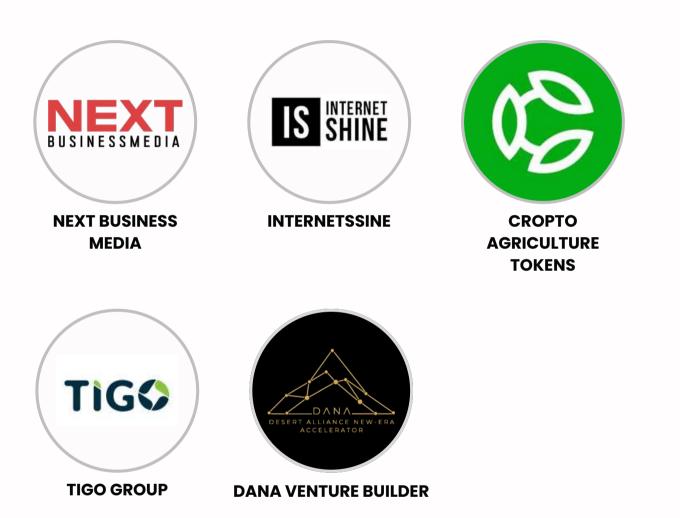


Exhibiting Companies





Investors & VC Firms





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