Media Release

Syngenta Group adds Cutting-Edge Generative Artificial Intelligence (GenAI) to Cropwise

30 September 2024, Basel, Switzerland

Syngenta Group, a global leader in agricultural innovation, announced the launch of Cropwise AI at the World AgriTech Innovation Summit in London today.

Cropwise AI is a cutting-edge GenAI system designed to increase the efficiency of agronomic advisors and growers to determine the best crop management practices. Leveraging advanced machine learning algorithms and data analytics, Cropwise AI empowers growers with deep insights and enhanced decision-making capabilities to optimize crop yields, improve sustainability, and drive profitability.

Cropwise AI leverages the deep library of Agronomic Models housed within Cropwise Insight Engine, including over 20 years of weather history, soil conditions, more than 80,000 observations on crop growth stages, and historical yield data from R&D and on-farm trials.

This information is then integrated with Syngenta's extensive agronomic expertise. Combined with a multi-lingual conversational LLM, the system provides growers with tailored recommendations for precise input applications, product placement, and strategies for pest and disease control in easy-to-understand natural language.

The unique combination of data and models helps farmers make better decisions. Utilizing Syngenta's seed recommendation models, Cropwise AI helps growers increase yields by up to 5 percent.

"Cropwise AI represents a significant milestone in our digital transformation journey," said Feroz Sheikh, Chief Information and Digital Officer at Syngenta Group. "By combining our deep agronomic knowledge with cutting-edge AI capabilities, we are bringing the power of GenAI to agriculture and empowering growers to make data-driven decisions."

Earlier this year, the launch of GHX 2.0 with Cropwise AI integration brought the full potential of farmer data to life. The updated GHX 2.0 app allows users to ask questions and get answers on products and agronomic challenges, to high-impacting diseases like Tar Spot.

Key features of Cropwise AI include:

- **Seeds recommendation and placement**: providing insights on seed products and utilizing advanced predictive machine learning algorithms to deliver tailored seed recommendations.

- **Predictive Modeling**: Leveraging machine learning algorithms to forecast crop growth, yield potential, and risk factors based on real-time and historical data.

- **Precision Agriculture**: Providing site-specific recommendations for optimized input application, minimizing waste and maximizing resource efficiency.

Looking ahead, Syngenta plans to expand Cropwise AI's capabilities with innovative features that will further revolutionize agricultural practices:

- **Advanced Disease and Pest Management**: Future iterations will leverage computer vision and image recognition to detect and identify pests and diseases early, for proactive and precise management strategies.

- **Sustainability Analytics**: Syngenta will integrate sustainability analytics to quantify the environmental impact of farming practices and provide suggestions for reducing carbon footprint.

"Cropwise AI is an industry-leading example of how GenAI can address critical agricultural issues", said Elizabeth Fastiggi, Global Head of Agriculture, AWS. "Syngenta has revolutionized decision support, giving farmers easy access to expert advice. We're excited to partner with them to boost yields and optimize productivity across the agri-food system."

Cropwise AI is currently available to selected groups of customers in the United States and Brazil, with plans to expand to Europe in the near future.

For more information, please visit https://www.cropwise.com/innovations/cropwise_ai.

About Syngenta Group

Syngenta Group is one of the world's biggest agricultural technology companies, with roots going back more than 250 years. With around 60,000 employees, operating in more than 100 countries, the company strives to transform agriculture with science-driven, technological innovations to deliver high productivity and high-quality food while fighting climate change and restore nature. Syngenta Group works with farmers and partners to deliver four Sustainability Priorities: Higher Yields, Lower Impact; Regenerate Soil and Nature; Improve Rural Prosperity; and Sustainable Operations. The priorities are underpinned by regenerative agriculture practices to nurture and restore soil health, protect the climate and biodiversity, and enhance farm productivity and profitability. Syngenta Group, which is registered in Shanghai, China, and has its management headquarters in Switzerland, draws strength from its four business units: Syngenta Crop Protection, headquartered in Switzerland; Syngenta Seeds, headquartered in the United States; ADAMA®, headquartered in Israel; and Syngenta Group China. Together, these businesses provide industry-leading ways to serve customers around the world.

For Syngenta Group photos and videos, please visit the Syngenta Group Media Library.

Contact Information

Media Relations
media@syngentagroup.com

Cautionary Statement Regarding Forward-Looking Statements
This document may contain forward-looking statements, which can be identified by terminology such as "expect," "would," "will," "potential," "plans," "prospects," "estimated," "aiming," "on track" and similar expressions. Such statements may be subject to risks and uncertainties that could cause the actual results to differ materially from these statements. For Syngenta Group, such risks and uncertainties include risks relating to legal proceedings, regulatory approvals, new product development, increasing competition, customer credit risk, general economic and market conditions, compliance and remediation, intellectual property rights, implementation of organizational changes, impairment of intangible assets, consumer perceptions of genetically modified crops and organisms or crop protection chemicals, climatic variations, fluctuations in exchange rates and/or grain prices, single source supply arrangements, political uncertainty, natural disasters, and breaches of data security or other disruptions of information technology. Syngenta Group assumes no obligation to update forward-looking statements to reflect actual results, changed assumptions or other factors.