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News Release

BASF's xarvio Digital Farming Solutions announces new digital collaboration with Nutrien Ag Solutions

- **Joint effort will feature BASF's xarvio Digital Farming Solutions with the SCOUTING app as part of the Nutrien Ag Solutions digital platform**

RESEARCH TRIANGLE PARK, NC, June 17, 2019 – BASF and Nutrien Ag Solutions announced today a digital collaboration to provide their customers with easier access to leading agronomic tools. As part of this collaboration, BASF's xarvio™ SCOUTING application (app), which enables growers and agronomists to instantly and accurately identify weed and disease threats in their fields, will now be offered within the Nutrien Ag Solutions Customer Portal.

“Through our joint efforts, BASF and Nutrien Ag Solutions can help change the industry by providing growers with the products, services and now digital tools to support their success,” said Paul Rea, Senior Vice President, BASF Agricultural Solutions North America. “We are proud to have the robust technology of the xarvio SCOUTING app featured on the Nutrien Ag Solutions Customer Portal. In addition, we are exploring further collaboration opportunities with Nutrien, including the xarvio FIELD MANAGER which offers field- and even field-zone-specific independent agronomic advice to optimize crop production.”

xarvio SCOUTING allows growers to detect in-field stress with the click of a photo.

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Among its features, the app can determine weed presence, recognize diseases, and quantify leaf damage. The app is powered by advanced A.I. algorithms that continually improve precision and functionality through machine learning and data sharing.

“In a market place that is extremely complex, collaboration will be critical to providing innovative solutions to meet the needs of growers,” said Rea. “xarvio Digital Farming Solutions gives growers more control of their fields and the confidence to make the right choices, at the right time for better yields.”

Nutrien Ag Solutions is building an open digital ecosystem that leverages deep agronomic data science and leading-edge technology to help growers achieve the best possible outcomes on their farms. Nutrien Ag Solutions will feature BASF’s xarvio SCOUTING app as part of its digital agronomy offerings, further enabling growers to detect and identify weed and pest pressure as they monitor and protect their crops throughout the growing season.

“We are pleased to further our collaboration with leading agricultural companies such as BASF via our Customer Portal,” said Mike Frank, Nutrien's Executive Vice President and CEO of Retail. “Our goal is to become the ag retailer of the future and partnerships with innovators such as BASF’s xarvio Digital Farming Solutions help enable us to provide more value to our customers.”

“As we build out our open digital ecosystem, we are constantly developing best in industry tools, both internally, as well as seeking apps and tools from across the industry,” said Sol Goldfarb, Vice President Digital Strategy at Nutrien Ag Solutions. “These tools help improve growers’ results and we’re excited to be able to feature the xarvio SCOUTING app on our Nutrien Ag Solutions Customer Portal.”

The two companies plan to expand their collaborations and are actively exploring further digital tools, such as the agronomic intelligence currently featured in the xarvio FIELD MANAGER. This solution would give growers further access to timing and variable rate map applications in various crops for weed, disease and better pest management.

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About xarvio™ Digital Farming Solutions

xarvio is at the forefront of the digital transformation of agriculture optimizing crop production. xarvio offers digital products, based on a global leading crop model platform, which deliver independent field-zone-specific agronomic advice enabling farmers to produce their crops most efficiently and sustainably. The xarvio products SCOUTING & FIELD MANAGER are being used by farmers in more than 100 countries worldwide.

About BASF's Agricultural Solutions division

With a rapidly growing population, the world is increasingly dependent on our ability to develop and maintain sustainable agriculture and healthy environments. Working with farmers, agricultural professionals, pest management experts and others, it is our role to help make this possible. That's why we invest in a strong R&D pipeline and broad portfolio, including seeds and traits, chemical and biological crop protection, soil management, plant health, pest control and digital farming. With expert teams in the lab, field, office and in production, we connect innovative thinking and down-to-earth action to create real world ideas that work – for farmers, society and the planet. In 2018, our division generated sales of €6.2 billion. For more information, please visit www.agriculture.basf.com or any of our social media channels.

About BASF

BASF Corporation, headquartered in Florham Park, New Jersey, is the North American affiliate of BASF SE, Ludwigshafen, Germany. BASF has more than 20,000 employees in North America and had sales of \$19.7 billion in 2018. For more information about BASF's North American operations, visit www.basf.com.

At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. The approximately 122,000 employees in the BASF Group work on contributing to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio is organized into six segments: Chemicals, Materials, Industrial Solutions, Surface Technologies, Nutrition & Care and Agricultural Solutions. BASF generated sales of around €63 billion in 2018. BASF shares are traded on the stock exchange in Frankfurt (BAS) and as American Depositary Receipts (BASFY) in the U.S. Further information at www.basf.com.