



2022年第51期总372期

## 农业与资源环境信息工程专题

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中国农业科学院农业信息研究所

联系人：孔令博

联系电话：010-82106786

邮箱：[agri@ckcest.cn](mailto:agri@ckcest.cn)

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## ▶ 前沿资讯

### 1 . Corteva and NEVONEX collaborate to explore advanced digitally enabled crop protection opportunities (科迪华与NEVONEX合作探索先进的数字作物保护实践)

简介：Corteva Agriscience today announced a collaboration with NEVONEX, powered by Bosch, to explore precision application of crop protection products using on-farm data, advanced analytics, and spray equipment. The collaboration intends to create value for farmers by enabling data-driven crop protection applications with standard machine spray technology. "Corteva Agriscience is excited to include NEVONEX among our growing list of industry collaborations aimed at leveraging digital capabilities to deliver new value to farmers through our crop protection products," said Dr. Brian Lutz, Vice President of Digital Solutions at Corteva Agriscience. "Through our Research and Development (R&D) efforts at Corteva, we are creating new value for our customers based on how we connect data and digital systems with equipment on the farm. By coupling intelligent equipment with real-time, farm-specific data analytics, we can provide detailed crop protection prescriptions customized for an operation in order to optimize every dollar invested while sustainably meeting yield and productivity goals."

"Our collaboration with Corteva reflects our goals of making a difference through digitalization, while putting the farmer at the center," said Dr. Micha Muenzenmay, Chief Technology Officer at NEVONEX. "Through our open, technology-neutral Digital Services platform, we put the right data together to enable better decision making for on-farm application."

NEVONEX, powered by Bosch, offers an end-to-end infrastructure and managed framework with interface access to a wide range of agricultural machinery. Through smart digital agriculture, farmers benefit from higher yield potential, optimized operating processes, and right-sized use of crop protection, seed and fertilizer products while protecting and preserving environmental resources.

This exploratory work within R&D reflects Corteva's commitment to sustainable innovation and the continued effort to integrate digital capabilities into the company's crop protection and seed product portfolios.

来源：SeedQuest

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### 2 . World-first satellite to measure Earth's water levels launches (世界首个地球水勘测的卫星发射)

简介：美国太空探索技术公司的一枚火箭，搭载一颗美法卫星，旨在对地球表面水域进行首次全球调查，为气候变化的机制和后果提供新的线索。该火箭的有效载荷是地表水和海洋地形卫星 (SWOT)，它结合了先进的微波雷达技术，可以收集全球90%以上的海洋、湖泊、水库和河流的高清测量数据。研究人员说，这些数据来自每21天对地球至少两次的雷达扫描，将用于增强海洋环流模型，支持天气和气候预报，并帮助管理干旱地区稀缺的淡水供应。

来源：UK space agency

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### 3 . Mapping the world's food production footprint on climate and environment(世界粮食生产对气候和环境的影响测绘图)

简介: By the time the food we eat gets to our table, it has travelled a long way from production, processing and distribution to all of us consumers. "The food system is the biggest threat to biological diversity and one of the worst drivers of the climate crisis," says Daniel Moran, a researcher at the Norwegian University of Science and Technology's (NTNU) Department of Energy and Process Engineering.

来源: EurekAlert

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## ➤ 科技报告

### 1 . Launch of the State of the Digital Public Goods Ecosystem 2022 Report (2022年数字公共产品生态系统状况报告)

简介: In 2022 countries increasingly recognised and implemented digital public goods as part of their digital transformations. Alongside this growth, the DPGA has seen an increase in the frequency, nuance, and sophistication with which digital public goods are spoken about. This represents an exciting chapter for the advancement of digital public goods worth exploring further. With the Digital Public Goods Alliance's State of the Digital Public Goods Ecosystem 2022 report, we seek to highlight the diverse work of governments, multilaterals, philanthropy, think tanks, technologists, and digital public goods themselves. Recognising that the discovery, development, use of, and investment in digital public goods is far too large for any government or organisation to do alone, we aspire for this report to help facilitate collaboration, deepen cooperation, and strengthen understanding. We believe this report can serve as a tool for those interested in advancing the use of digital public goods to learn what actions governments and organisations are taking, discover opportunities for alignment and partnership, and to learn how digital public goods can be a force for change.

来源: FAO

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### 2 .Kenya Climate-Smart Agriculture Monitoring and Evaluation Framework (肯尼亚气候智慧型农业监测和评估框架)

简介: This monitoring and evaluation framework (M&EF) for Climate-Smart Agriculture (CSA) has been developed to foster the effective transformation of the agricultural sector toward resilient, low-carbon development, and to check whether the implementation of the Kenya Climate Smart Implementation Framework (KCSAIF) objectives, outcomes, and outputs are proceeding as planned, in order to support optimal planning and efficiency in the utilization of resources.

来源: CGIAR

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