



2019年第17期总184期

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## ▶ 前沿资讯

### 1 . How NASA Earth Data Aids America, State by State (NASA地学数据在美国各州之间是如何发挥作用的)

简介: For six decades, NASA has used the vantage point of space to better understand our home planet and improve lives. A new interactive website called Space for U.S. highlights some of the many ways that NASA's Earth observations help people strengthen communities across the United States and make informed decisions about public health, disaster response and recovery, and environmental protection. "Space for U.S." features 56 stories illustrating how NASA science has made an impact in every state in the nation as well as the District of Columbia, Puerto Rico and regions along the Atlantic, Pacific, Gulf of Mexico and the Great Lakes. You can browse stories by state or by topics such as animals, disasters, energy, health, land and water.

来源: 美国国家航空航天局 (NASA)

发布日期: 2019-04-20

全文链接: <https://www.nasa.gov/feature/2019/how-nasa-earth-data-aids-america-state-by-state>

### 2 . Satellite Data Application for Ugandan Farmers Moves from Project to Business Phase (用于帮助乌干达农民的卫星数据从项目转向业务实施阶段)

简介: The MUIIS project is one of the larger projects within the Geodata for Agriculture and Water Programme managed by NSO, where satellite data are used to contribute to food security. Around 250,000 small Ugandan farmers have registered for eligibility for a combination of agricultural advice information and financial services. After three years of a project status that included financial support by the Netherlands, the service will now continue under its own steam. MUIIS (Mobile User-owned ICT4 Ag-enabled Information Services) is a bundled service provision for small scale Ugandan farmers. They receive location-specific weather information and agricultural advice on their mobile phone as well as market information and drought insurance. In return, the farmers pay 20,000 Ugandan shillings (nearly 5 Euros) per growing season and they are included in a digital database with data about the farmer, the family, their possessions and production results. This information is important for financial service providers to improve their ability to estimate risk. This means the 'profiled' farmers can get a loan more easily, indirectly guaranteed by the Netherlands Rabobank Foundation.

来源: The Netherlands Space Office

发布日期: 2019-04-19

全文链接: <https://www.spaceoffice.nl/en/news/304/satellite-data-application-for-ugandan-farmers-moves-from-project-to-business-phase.html>

### 3 .Technology Brings Revolutionary Change in African Agriculture (科技为非洲农业带来革命性革新)

简介: Humans have been farming the African landscape for thousands of years, and not a great deal has changed over the many centuries. The slow rhythms of the agricultural seasons are what really drive this continent with more than 60 percent of the population working on the land. But change is afoot. Digital technology is introducing remarkable innovations to agriculture through accessible mechanization, improving farmers resilience to shocks like floods, and identifying land improvements. The mechanical power of the tractor revolutionized agriculture in the northern hemisphere, but most African farmers cannot afford to mechanize. Hello Tractor is providing farmers with an affordable alternative. Using a smartphone app, farmers can book tractor services like ploughing, hauling and planting. If they don't have a smartphone, they can book through an agent who is paid via commission.

来源: FAO

发布日期:2019-04-18

全文链接:<http://www.fao.org/e-agriculture/news/technology-brings-revolutionary-change-african-agriculture>

### 4 . Data mining digs up hidden clues to major California earthquake triggers (数据挖掘发现触发加利福尼亚州地震的隐藏因素)

简介: A powerful computational study of southern California seismic records has revealed detailed information about a plethora of previously undetected small earthquakes, giving a more precise picture about stress in the earth's crust. A new publicly available catalog of these findings will help seismologists better understand the stresses triggering the larger earthquakes that occasionally rock the region. "It's very difficult to unpack what triggers larger earthquakes because they are infrequent, but with this new information about a huge number of small earthquakes, we can see how stress evolves in fault systems," said Daniel Trugman, a post-doctoral fellow at Los Alamos National Laboratory and coauthor of a paper published in the journal Science today. "This new information about triggering mechanisms and hidden foreshocks gives us a much better platform for explaining how big quakes get started," Trugman said.

来源: EurekAlert

发布日期:2019-04-18

全文链接:[https://www.eurekalert.org/pub\\_releases/2019-04/dan1-dmd041819.php](https://www.eurekalert.org/pub_releases/2019-04/dan1-dmd041819.php)

## ➤ 科技报告

### 1 .E-Agriculture in action: Blockchain for agriculture: opportunities and challenge (E-农业在行动: 农业区块链-机遇与挑战)

简介: 联合国粮农组织 (FAO) 和国际电信联盟 (ITU) 共同努力, 促进农业可持续信息和通信技术的发展。可持续发展目标 (SDG) 为全球发展提供了愿景, ICT可以促进加速

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发展其中很多目标。过去十年中，通信技术的发展为克服农业面临的许多挑战提供了机遇，如近期飞速发展的移动宽带接入设备、物联网（IoT）、无人机、智能网络、大数据分析能力和人工智能应用的增加，都为农业利益相关者提供了一些关键的工具箱技术，来改善生产和营销的过程，这其中最常讨论的技术之一就是区块链技术。本报告旨在对该技术进行梳理，对农业实施区块链系统的机遇和挑战提供一些思路，并记录了一些关于农业区块链投入使用的案例。

**来源：**FAO

**发布日期：**2019

**全文链接：**[http://agri.ckcest.cn/file1/M00/06/6A/Csgk0Fy9kKiALzgdACq\\_CnYdhtg541.pdf](http://agri.ckcest.cn/file1/M00/06/6A/Csgk0Fy9kKiALzgdACq_CnYdhtg541.pdf)