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WEEKLY EDITION

## Xi Calls for Int'l Scientific, Technological Cooperation

International scientific and technological cooperation is a major trend, and countries should jointly promote the cause of peace and development for humanity through scientific and technological innovation, Chinese President Xi Jinping said recently.

Xi made the remarks in reply to a letter from renowned Cuban scientist Pedro A. Valdes-Sosa.

Noting that Valdes-Sosa has long been committed to enhancing the special friendship between Cuba and China and actively promoting scientific research cooperation between China and other countries, the Chinese president congratulated Valdes-Sosa and his team on having achieved breakthroughs in multiple areas.

This year marks the tenth anniversary of the Belt and Road Initiative (BRI), Xi said, stressing that the fundamental starting point and focus of this initiative are to explore new ways of common development among different countries, and to open up a "road to happiness" that benefits all countries and the world.

Over the past decade, Xi said, China has made significant progress in accelerating scientific and technological exchanges and knowledge sharing with participating countries, continuously optimizing the innovation environment, gathering innovation resources, and pushing forward cooperation on scientific and technological innovation.

Xi pointed out that the traditional friendship established by the older generation of leaders from China and Cuba has been flourishing and continuously bearing rich fruits.

Since last year, the two sides have reached important consensus on jointly building a China-Cuba community with a shared future, said Xi, expressing sincere hope that China-Cuba cooperation in various fields including science and technology could continue to deepen in the new era, so as to better benefit the people of the two countries.

In a recent letter to Xi, Valdes-Sosa told the Chinese president about his team's achievements in promoting brain-science research and China-Cuba cooperation on neurotechnology in China.

The Cuban scientist also expressed his willingness to continue to enhance China-Cuba friendship and contribute to the implementation of the BRI on a larger scale in the world.

Source: Xinhua

## WEEKLY REVIEW

### Natural Uranium Industry Development Explored

The 1st International Forum on Natural Uranium Industry held in Beijing on October 28, brought together government officials and experts from several countries and international organizations to share development and technological experience.

### TCM Gains Popularity in Hungary

The 2023 World Traditional Chinese Medicine (TCM) Day Free Consultation held in Budapest, Hungary on October 27 and 28 as part of an expo for senior citizens, drew more than 2,200 people eager to experience the benefits of TCM. They also had the opportunity to savor Chinese herbal tea.

### Beijing Xiangshan Forum Held Offline

The 10th edition of the Beijing Xiangshan Forum, a key security forum, was held from October 30 to 31. Experts and public officials from more than 90 countries, regions and international organizations attended, a record high. It was held face-to-face after four years. The event, with its focus on the security concerns of the international community, aims to promote peace.

### Asian Para Games Close

The 4th Asian Para Games closed in Hangzhou, east China's Zhejiang province, on October 28. A total of 21 world records, 72 Asian records and 283 Asian Para Games records were set at the event.

### Chinese-built Tunnel in Bangladesh Begins Operation

A Chinese-built underwater tunnel, the first in Bangladesh and South Asia, was inaugurated on October 28 with Bangladeshi Prime Minister Sheikh Hasina paying the first toll and going through it.



Astronaut Gui Haichao is out of the return capsule of the Shenzhou-16 manned spaceship at the Dongfeng landing site in north China's Inner Mongolia autonomous region, October 31, 2023. (PHOTO: XINHUA)

## Editor's Pick

## China's Manned Spacecraft Blazes Innovations in Space Exploration

By LIN Yuchen & FU Yifei

China's space exploration enters a phase of new successes and experiments with the Shenzhou-17 manned spacecraft carrying three taikonauts, the youngest-ever Chinese crew, to Tiangong, the Chinese space station.

The spacecraft was launched from the Jiuquan Satellite Launch Center in the Gobi Desert in north China on October 26, the second manned spacecraft launched by China this year.

### A quicker launch

It was developed by the China Academy of Launch Vehicle Technology (CALVT), a subsidiary of the China Aerospace Science and Technology Corporation (CASC). Wei Wei, director of the general design office, General Design Department

of CALVT, said the Long March-2F Y17 rocket that carried the spacecraft was refined with 25 additional changes compared to its last version.

These changes improved its design, streamlined processes, and refined contingency plans, including optimized component localization and software configuration. These improvements enhanced the rocket's reliability and safety, Wei said.

The operations at the launch site were also streamlined to improve efficiency, including improving contingency plans for rapid response to potential problems.

Wei said the overall impact of these improvements was to shorten the launch preparation process considerably. When Tiangong was constructed, the rocket

launch process used to take 49 days. But now it's been reduced to 35 days. The goal is to bring it down to 30 days.

### Transformation in manufacturing process

To ensure high quality of the Shenzhou spacecraft, the CASC transformed its manufacturing process. They shifted from the traditional two-dimensional blueprint-based manufacturing model to a three-dimensional digital manufacturing model based on 3D models. This transition improved manufacturing efficiency and made the production process "visible" in real time. It also resulted in better visualization and understanding of the various stages of production, leading to increased precision and quality control.

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## Mobile Clinics Bridge Healthcare Gaps in Sierra Leone

### International Cooperation

By LIANG Yilian

In Bawuma Kailun village in Sierra Leone, 10-year-old Lucinda Dott Davvys is taken to a mobile health clinic by her family. Her face is clouded in anxiety and pain, as she suffers in silence. The medical team gently check her serious leg fracture which is close to necrosis. Yet despite this traumatic situation, if it weren't for the free medical treatment, her family might not have considered taking her to hospital.

In many villages across Sierra Leone, a small country on the southwest coast of West Africa, tragic scenes like

this of people enduring illness or injury are common for locals.

For many, they will never pay a visit to a hospital in their lives, not because they remain healthy or injury free, but due to an inability to afford treatment costs. Compared with many, this young girl was fortunate. She was transferred to a major hospital thanks to the staff on the mobile health clinic, which ultimately saved her leg from amputation.

In 2018, the then Minister of Science and Technology Wang Zhigang, as a special envoy of President Xi Jinping, pledged to donate four mobile health clinic buses to help enhance medical services in remote areas of Sierra Leone. Due to the COVID-19 pandemic, the buses arrived in the country in 2021. The mobile health clinic service that helped

the young girl, was one of these.

### Hospital on wheels

These mobile health clinics are equipped with portable diagnostic tools, capable of testing for blood, urine, liver and kidney maladies, electrocardiograms, ENT disease diagnostics, and trauma emergency kits.

Xia Yinyin, a Chinese diplomat in Sierra Leone in charge of health and technology affairs told *Science and Technology Daily*, "The ICU, trauma treatment room, ENT department examination room, cold storage for vaccine agents, and data recording room are all integrated within the vehicle."

Sierra Leone, one of the world's least developed countries, suffers from a severe lack of healthcare resources.

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## Revitalization of Northeast China for New Opportunities

By LANG Yilian

A meeting of the Political Bureau of the Communist Party of China (CPC) Central Committee on October 27, presided over by Chinese President Xi Jinping, also general secretary of the CPC Central Committee and chairman of the Central Military Commission, reviewed "The Guideline on Policies and Measures to Further Promote a New Breakthrough in the Full Revitalization of Northeast China in the New Era."

In the past six months, the provinces of Heilongjiang, Jilin, Liaoning as well as the Inner Mongolia autonomous region have been supporting scientific and technological development and made achievements with regional characteristics.

Liaoning is pooling resources to build an international-level scientific research zone - Dalian Yinggushi Science City. To support its development, Dalian City has arranged special financial support, to set up a specialized fund, build a full lifecycle fund system, and promote social capital to support R&D and transformation.

At present, Jilin is building an industrial cluster around the Jilin Chang Guang Satellite Technology Co., Ltd, improving the industrial ecology, opening up the industrial chain, supply chain, talent chain and value chain, and embracing the new blue ocean of the optoelectronic information industry.

Heilongjiang has built a Shenzhen (Harbin) Industrial Park in Harbin. In terms of science and technology, talent, finance, industry, urban construction and business environment, the park has successively promoted 126 mature policies and advanced practices from Shenzhen to Harbin. It has attracted a large number of sci-tech innovation enterprises, and formed an industrial cluster dominated by digital economy, high-end equipment manufacturing, and biomedicine.

The Department of Science and Technology of Inner Mongolia autonomous region invested 400 million RMB in special funds to promote key projects of the National Center of Technology Innovation for Dairy, including supporting the construction of a service platform, operation management and innovation capacity building of the headquarters, and comprehensively enhancing its innovation capacity.

The full revitalization of the region involves various factors, including advancing modern large-scale agriculture and building infrastructure. Regional self-sufficiency will lead to increased connectivity and economic dynamism. The transformation will mean a promising era of collaboration at home and abroad, drawing enterprises and partners to contribute to the resurgence of this pivotal economic zone.

## New Graphic



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