



# Science and Technology Daily

VOL.2-NO.56

THURSDAY, AUGUST 11, 2022

WEEKLY EDITION

## Pursuing Modernization with Chinese Characteristics

By Staff Reporters

President Xi Jinping has said that there is no set model of modernization in the world, nor is there a universal criterion for modernization that fits all. He said, the modernization China is pursuing is the CPC-led socialist model and the country must push forward national rejuvenation by following a uniquely Chinese path to modernization.

Based on long-term exploration and practices since the founding of the People's Republic of China in 1949, especially since the launch of reform and opening up in 1978, China has successfully promoted and expanded a uniquely Chinese modernization with new breakthroughs in theories and practices since the 18th CPC National Congress. Xi stressed at a study session on July 26 in Beijing.

The remarks received enthusiastic feedback.

Zhou Rongbin, executive director of life sciences and medicine of the University of Science and Technology of China, said that President Xi's remarks on Chinese modernization has abundant and profound connotation, and Chinese modernization cannot be separated from the modernization of science and technology.

Working toward people's life and health, said Zhou, biomedicine practitioners should shoulder the responsibilities bestowed by time, propose more sci-tech solutions, and endeavor to contribute to the realization of high-level self reliance and self strengthening in science and technology.

"Building green, low-carbon and clean cities is an integral part of Chinese modernization, and also our responsibility and mission," said Chen Shaohua, deputy director of Institute of Urban Environment, Chinese Academy of Sciences, adding that his institute will devote itself to scientific research and propose new thoughts and measures to solve problems, making new contributions to building China into a modern socialist country in all respects.

In his speech, Xi also noted that the 20th CPC National Congress will envision the two-step strategic plan for building China into a great modern socialist country, with a focus on outlining strategic tasks and major initiatives for the next five years. The next five years are crucial as China sets out to build itself into a modern socialist country in all respects, and doing a good job during this period is of vital importance to achieving the Second Centenary Goal, Xi said.

Li Haibo, deputy general manager of the department of rural revitalization finance, Agricultural Bank of China (ABC), said that President Xi's speech offered guidance for their work in the next step. Guaranteeing national food security and a supply of key agricultural products are of top priority to ABC to promote rural revitalization, said Li, proposing that they will continuously innovate products and service models, dedicating their efforts to achieving the Second Centenary Goal.



The Gladandong Snow Mountain, located at the source area of the Yangtze River, Qinghai-Xizang Plateau. (PHOTO: XINHUA)

## Editor's Pick

## Sci-tech Improves Qinghai-Xizang Plateau Ecosystem

By WANG Xiaoxia

The Qinghai-Xizang Plateau (QXP) and its surrounding mountains, often termed the Third Pole, are home to more than 1,500 lakes and contain the headwaters of numerous major rivers in Asia. As the natural habitat of rare wild animals and the gene bank for plateau species, the plateau is an important ecological security barrier for China and even Asia at large.

The first comprehensive expedition to the QXP under the Chinese Academy of Sciences (CAS) was launched in 1973, pioneering future large-scale scientific expeditions to the plateau. It was also the first systematic scientific expedition to the plateau in human history.

Since then, scientific research on the plateau has developed from partial, single-subject, domestic research to integrated, comprehensive research involving international cooperation. Scientists' highland research has played a support-

ing role in the region's environmental improvement.

### Scientific research unveils mysteries

So, just how did the plateau ecosystem and biodiversity evolve, and how does climate change affect its ecological security? These are some of the questions concerning the conservation of plateau ecological safety barrier and biodiversity. Nowadays, we are getting closer to the answers.

To monitor eco-environmental changes on the plateau, China has set up a relatively complete monitoring network, offering long-term located monitoring of changes of the plateau ecosystem and thus revealing laws for and causes of changes in the ecosystem and environmental factors.

During the second comprehensive scientific expedition to the plateau, Chinese scientists revised the uplift chronology of the Lunpola Basin in central QXP. Paleontologists have determined

that subtropical forests once existed on the high-altitude plateau about 47 million years ago.

An international research team from the Xishuangbanna Tropical Botanical Garden and the Institute of Vertebrate Paleontology and Paleoanthropology of CAS discovered that a Shangri-La forest once occupied a deep central Tibet-an valley.

Meanwhile, China's "Jimu-1" No.3 airship reached an altitude of 9,032 meters on May 15, 2022 over Mount Qomolangma, breaking the world record for airship atmospheric scientific observation.

This was also a world first to observe the changing characteristics of the most critical parameters, such as water vapor and greenhouse gases in the Mount Qomolangma region and over the mountain, which will provide scientific support for the global response to climate change, said Yao Tandong, researcher from CAS. See page 2

## 6.3 Trln RMB: Trade with BRI Countries Soars in H1

By Staff Reporters

In the first half of 2022, the trade in goods between China and countries along the Belt and Road Initiative (BRI) reached 6.3 trillion RMB, increasing by 17.8 percent compared with that of last year, according to Yang Tao, deputy director of the comprehensive affairs department of the Ministry of Commerce speaking at a press conference on July 29.

The non-financial outward foreign direct investment in BRI countries reached 65.03 billion RMB, going up by 4.9 percent. And the real investment in China from BRI countries hit 45.25 billion RMB, rising by 10.6 percent.

"We have deeply explored the trade potential with BRI countries, encouraged importing goods of good quality, and accelerated the development of new business formats of foreign trade such as cross-border e-commerce and overseas warehouses," said Yang, adding that outward investment and cooperation have been optimized to attract investment from BRI countries.

Different programs of economic and trade cooperation with BRI countries have also witnessed progress. The "Silk Road E-commerce" mechanism was further promoted to establish e-commerce cooperation with more countries.

Some activities were held to explore

new channels for trade for BRI countries, including an online shopping festival for quality products from Africa, livestream e-commerce for featured commodities from members of Shanghai Cooperation Organization, and promoting products from BRI countries both online and offline.

In terms of the construction of New International Land-Sea Trade Corridor, China and Singapore jointly issued a co-operation plan. China also promoted the construction of joint demonstration zones for economic innovative development with ASEAN countries, and deepened cooperation of "Two Countries, Twin Parks" program with Indonesia, the Philippines and Malaysia.

## 5G Empowers Int'l Communication Capacity in Multimedia Era

By QI Liming

The year 2022 is a crucial one for the large-scale deployment of 5G applications and the comprehensive iterative upgrading of this technology. This is evident at the Media Forum of 2022 World 5G Convention, held both online and offline, adopting the theme of "5G empowers international communication capacity."

President of *Science and Technology Daily (S&T Daily)*, Zhang Biyong said, "S&T Daily has been paying close attention to the dynamic development of the integration between 5G technology and media, guiding global media on multiple levels, dimensions and channels. S&T Daily always upholds scientific spirit when reporting openness and innovation, digital security, ecological protection and climate change," adding that "We are trying to influence international media in an objective manner, clear up misunderstandings, making the whole world have a better knowledge towards China's scientific progress and smart solutions."

Director of China International Communications Group (CICG), Du Zhanyuan shared four viewpoints on the future development of 5G media and the empowerment of 5G technology, noting that "We need to build the 5G ecology of the international communication."

### The pivotal role of 5G in communication

"I would like to share four observations that will lead to the success of international communication in the 5G era. First, confidence and determination. Second, commitment and bold actions. Third, seeking and adapting to changes. Fourth, enhanced cooperation," said Zhao Jianguo, deputy editor-in-chief of *Guangming Daily*.

"As a news outlet, firstly we will focus on mobile communication and enhance immediacy, enabling exchanges between China and the rest of the world to spread faster and further. Secondly, we need to make our exchanges more social and interactive to make them more approachable and accessible. Thirdly, we should focus on visualization and make it more vivid, so as to make foreign exchanges more active," said Sun Shangwu, deputy editor-in-chief of *China Daily*. See page 2

## WEEKLY REVIEW

### Scientific Report Based on Tianwen-1 MEPA Released

Researchers from CAS and their collaborators have reported a solar energetic particle event observed by the Mars Energetic Particle Analyzer (MEPA) carried on China's Tianwen-1 spacecraft. As the first scientific report based on MEPA, the paper was published in the *Astrophysical Journal Letters*.

### Reusable Experimental Spacecraft Launched

China successfully launched a reusable experimental spacecraft on August 5. The spacecraft will test reusable technologies and in-orbit service technologies as planned during its flight, and will return to its scheduled landing site in China after a period of in-orbit operation.

### New Way to Lower Lipid Levels

A research team from Wuhan University found that inhibiting the receptor ASGR1 in liver could decrease lipid levels in serum and liver, thereby reducing cardiovascular disease risk, according to a study published in the journal *Nature*.

### Test Site Built for ICVs

The construction of a test site for intelligent and connected vehicles (ICVs) was completed in the central Chinese city of Wuhan on August 5. It covers a total area of 87.5 hectares, and incorporates cutting-edge technologies such as big data, AI and 5G, to provide R&D, testing and authentication services for ICVs.

## 2022 World 5G Convention



Part of the 2022 World 5G Convention, the 5G and Media forum was held both online and offline on August 9 in Harbin, northeast China's Heilongjiang province. Some participants and organizers pose together during the forum. (PHOTO: S&T DAILY)

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