



PEDDLING 'FAKE TIANGONG **EXPERIMENT' CLAIM BACKFIRES**

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BRIDGES, HUMANITY

RESPONSIBLE AI FORMATION WITH **CONCERTED EFFORTS**

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International Cooperation

Promote Science Popularization

On November 21, L.I.S.T.E.N Science Space, an interac-

tive hub to explore science beyond borders jointly built by

the China Science and Technology Museum and the Sci-Bono

Discovery Center of South Africa, opened to the public, mark-

ing new progress in sci-tech cooperation between China and

ademic circles as well as students from South Africa attended

have forged a strong and profound friendship. During the Beijing Summit of the Forum on China-Africa Cooperation last

year, the China Association for Science and Technology (CAST) and South Africa's Department of Science and Innova-

tion (DSI) signed a memorandum of understanding (MoU) to

deepen bilateral cooperation in such areas as public participa-

tion in science and technology, sci-tech and cultural exchang-

es, mutual recognition of engineers, engineering and mathe-

matics education, and women's participation in science and

Bono Discovery Centre and both organizations signed an

MoU. The interactive hub is a significant step to implement

hub is located in the Sci-Bono Discovery Centre, integrating

scientific exhibitions, interactive experiences, and cultural ex-

changes. It is not merely a simple addition to the existing scientific education infrastructure of China and South Africa

but an important practice for the two countries to jointly pro-

bassy in South Africa, said scientific popularization and par-

ticipation are the key ways to achieve sci-tech equality. Ev-

eryone has the right to access, use and enjoy scientific

achievements. The mission of science diplomacy is to trans-

form innovative achievements into the common wealth of

all humanity and make them a driving force for sustainable

Chen Jingquan, minister counsellor at the Chinese Em-

mote innovative development of science education.

development. See page 4

In March 2025, a delegation from CAST visited the Sci-

With an area of approximately 200 square meters, the

More than 100 representatives from the scientific and ac-

China and South Africa, both early members of BRICS,

China, South Africa Jointly

By Staff Reporters

the launching ceremony.

Science and Technology Daily

VOL.5-NO.219

DECEMBER 6-7, 2025

Innovation Pathway

15th FYP Underscores Sci-tech Innovation

By Staff Reporters

The results of sci-tech innovation during the 14th Five-Year Plan (FYP) period (2021-2025) have laid a solid foundation for building a country strong in science and technology, and the 15th FYP period (2026-2030) is a crucial and critical time for achieving this goal, said Yin Hejun, Minister of Sci-

Yin made the remarks during an interview with Science and Technology Daily, sharing his insights on the ministry's plans to promote sci-tech development in the next five

He called the 14th FYP period a milestone in the development history of China's science and technology cause.

China's capacity for sci-tech innovation has steadily improved. The integration between technological and industrial innovation is accelerating, with new quality productive forces flourishing. Sci-tech innovation achievements have benefited people's well-being.

Substantial improvement in sci-tech self-reliance and strength is listed as a major objective for national economic and social development during the 15th FYP period. To achieve greater self-reliance and strength in science and technology and steer the development of new quality productive forces, measures will be taken in four specific as-

Yin said promoting advances in original innovation and breakthroughs in core technologies in key fields would strengthen the foundation of technological support; promoting in-depth integration between technological and industrial innovation would enable coordinated development of scitech and industry, accelerating the cultivation of new quality productive forces.

The integrated development of education, science and technology, and human resources plays a fundamental and strategic supporting role in Chinese modernization. Advancing the Digital China initiative means seizing the opportunities of the new technological revolution and industrial transformation, and giving new impetus to economic and social development.

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New Graphic



WECHAT ACCOUNT





E-PAPER



Xinhai Harbour, located in Haikou, Hainan province, serves as a gateway port for the Hainan Free Trade Port. The Hainan Free Trade Port will launch island-wide independent customs operations on December 18. (PHOTO: VCG)

STI Frontier

'Future' Drives Deep-Sea Exploitation Green Progress

By LU Zijian & JIN Feng

"Future", China's first deep- sea green and intelligent technology experimental vessel, recently completed its first deep and remote sea test since its delivery in July this year.

After six years of tackling key research problems, design and construction, the vessel described as a "mobile offshore laboratory," can conduct tests for new type green intelligent technologies, provide application and testing support for deep-sea equipment, and assist scientists in conducting deep-ocean surveys, said Ye Cong, director of the China Ship Scientific Research Center of the China State Shipbuilding Corporation (CSSC) and chief commander of the "Future" construction project.

Green "heart"

"Future" is equipped with four major diesel generators and six propellers.

Zhou Yu, the on-site in charge of the vessel's power system from Shanghai Marine Diesel Engine Research Institute, CSSC, said researchers tried to make the generators adjust rotational speed and output power based on the demand for electricity.

The initial mooring trials encountered challenges, one of which was the power oscillation when the four generators were in parallel operation, resulting in unstable power generation.

A container at the shipyard dock became the meeting room at that time. Researchers discussed test programs in the container and then did tests in ship cabins that were under construction.

After hundreds of parallel operation tests and multiple rounds of technical reviews and discussion, the researchers found a solution.

In April this year, a new round of mooring trials took place, and the power

output of the generator sets steadily increased during parallel operation and ultimately stabilized at rated load. According to Zhou, with this set of technologies, the generators can save 456 tonnes of diesel per year, decreasing circa 1,420 tonnes of carbon emission, which equals the emission of 560 cars per year.

Elevator for submersibles

A crucial mission of "Future" is to provide support for deep-sea equipment operations. A moon pool, which is a vertical opening in the hull of the vessel that provides direct access to the sea from inside the vessel, plays an important role in operating submersibles.

Liu Yang, head of the vessel's construction supervision team, said the influence of severe sea conditions like violent storms and waves could be eased when deep-sea equipment is deployed into the ocean for operation via the moon pool. See page 2

WEEKLY REVIEW

China's Single Largest Gas Turbine Starts Operation

According to China Energy, the No. 1 gas turbine unit of the Zhejiang Anji Power Plant began to work on November 30, marking the official commercial operation of the largest single-unit capacity and most efficient gas turbine in China. It has an efficiency rate as high as

China's 1st Sea-based Rocket Recovery Platform Deliv-

"Linghangzhe," meaning Pathfinder, China's first seaborne platform designed for rocket recovery using a net system, was delivered on November 30. It is a critical piece of infrastructure for reusable rocket launch and comes after the launch of Chinese commercial rocket firm i-Space's landing vessel in August.

First Single-dose Dengue Vaccine Approved

Brazil has recently approved the world's first singledose dengue vaccine. The "Butantan- DV" dengue vaccine, developed by the Butantan Institute in São Paulo for people aged 12 to 59, demonstrated 91.6 percent effectiveness in preventing severe dengue fever.

Russia Grows Barley on Simulated Mars Soil

Researchers from the Southern Federal University in Russia have for the first time grown barley seedlings in a substrate that simulates the composition of Martian soil. By adding a special mixture of microorganisms to the substrate taken from the Mojave Desert, they created a layer rich in nutrients and successfully grew barley.

Promoting Embodied AI Tech and Context Application

By Staff Reporters

On December 4, a conference on the technology innovation and context applications of embodied AI held in Beijing discussed the high-quality development path of the embodied AI industry, with a focus on breakthroughs in technological innovation, deep adaptation to contexts and the establishment of an industrial ecosystem.

Drawing nearly 200 representatives from the government, industry, academia, research institutions and end-users in the embodied AI field, the conference was jointly hosted by New Quality Productive Forces Promotion Center of the Ministry of Science and Technology, and Beijing Municipal Science and Technology Commission, Administrative Commission of the Zhongguancun Sci-

It was organized by the Context Innovation magazine and the Administrative Commission of Chaoyang Park of the Zhongguancun Science Park. Experts such as Wang Yaonan, aca-

demician of the Chinese Academy of Engineering, Song Shiji, professor at the Department of Automation of Tsinghua University, and Wang Haihua, vice president of Beijing Innovation Center of Humanoid Robotics Co., interpreted cutting-edge technological trends and the

latest research results in the embodied

Eight cases selected by experts covering fields like industrial manufacturing, modern agriculture, elderly care, and safety and emergency response demonstrated the innovative application of embodied AI in the real world.

Experts evaluated these cases from the perspective of technological innovation, performance effectiveness, demonstration potential and scenario adaptability. They offered targeted suggestions for optimizing the cases, facilitating the commercialization of technological achievements.

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