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New Quality Productive Forces

Intelligent Connected NEVs: Powerful Growth Engine

By BI Weizi

With the rapid development of intelligent connected new energy vehicles (NEVs), automobiles are gradually developing from transportation tools into mobile intelligent terminals. As an emerging industry, it is aligned to the development requirements of the new quality productive forces (NQPF), and has the potential to make great contributions to China's economic development.

The 2024 Government Work Report outlined the importance of developing the automobile industry to become more high-end, smarter and greener. It stated that the leading position of intelligent connected NEVs should be consolidated and enhanced through integrating with various sci-tech sectors.

Intelligent connected NEVs aid transformation

NQPF are advanced productivities in the contemporary world, generated by revolutionary technological breakthroughs, innovative allocation of production factors, and deep industrial transformation and upgrading, said Liu Fawang, deputy director of the Equipment Industry Development Center of the Ministry of Industry and Information Technology. Liu believes the automobile industry has become a model for, and application carrier of, NQPF.

Liu indicated that the automobile industry's transformation is driven by technological advancements. It is transitioning from traditional energy to new energy, and new production methods are replacing traditional ones. The intelligent connected NEVs integrate new energy, new materials, new information technology, advanced manufacturing and other new technologies.

The new generation of electronic and electrical architecture and large computing power chips have been installed in vehicles, such as self-driving taxis, driverless buses, autonomous valet parking, and trunk logistics. Scenario demonstration applications continue to advance, and pilots for access and on-road access of intelligent connected vehicles and "vehicle-road-cloud integration" application pilots are currently underway. This has laid a solid foundation for the innovative development of related industries.

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The 2024 Beijing Science and Technology Week kicks off on May 25 in Shougang Park, Shijingshan district. (PHOTO: VCG)

National Sci-tech Week Inspires Exploration

By Staff Reporters

The 2024 National Science and Technology Week (NSTW), which opened on May 25 and ends on June 1, highlights how the spirit of scientific inquiry and the power of innovation can illuminate everyday lives and foster social progress. Across the country, various events are being organized to showcase the latest achievements in scientific and technological innovation.

Technology in everyday life

On May 25, the Qingdao Institute of Bioenergy and Bioprocess Technology under the Chinese Academy of Sciences presented its independently developed perovskite solar cell modules in Qingdao city, Shandong province in east China. Perovskite solar cells have a perovskite or crystal-structured compound and are cheap and easy to manufacture. The exhibition brought together representatives from emerging industries and future industries and showed Qingdao's commitment to cultivating new quality productive forces.

Xiamen Innovax Biotech Co., Ltd., the tech enterprise behind China's first

cervical cancer vaccine, opened its doors to the public for research and visits during the NSTW.

In Wuhan, Hubei province in central China, the focus was on new generation information technology, medicine and health, and modern agriculture. The exhibition featured police drones, explosion-handling robots, and bioartificial livers. It also offered interactive experiences like natural disaster and fire self-rescue training and XR helmet demonstrations.

An atmosphere of innovation

The NSTW is both about spreading scientific knowledge and enhancing public scientific literacy. In Henan province in central China, many high-level innovation platforms and science popularization sites were opened to the public for free, including the Food Laboratory of Zhongyuan, Henan University, and the National Museum of Chinese Writing.

These events broaden people's scientific horizons, and help them to acquire new knowledge through experience and appreciate the charm of science through interactive activities, according to Xing Yuhui, an official of Henan Science and Technology Department.

Henan, Shaanxi, Xizang and other regions launched the "promoting the spirit of scientists" initiative during the NSTW. Hubei province highlighted the achievements of six women scientists in life sciences, resources and environment, digital information technology, and new materials, showcasing their contributions to scientific innovation.

Inspiring children's dreams

Technology not only transforms lives but also ignites children's dreams for the future. In Hefei, Anhui province, 30 drones flew into the sky to the tune of the song "I Love You China," captivating the students and parents who had gathered at the northern square of the Hefei Science and Technology Museum. The city's exhibition featured popular science drama performances, scientific and creative product displays, model airplane exhibitions, and drone shows.

Through these activities young students experienced the wonders of science and technology firsthand, sparking their curiosity and enthusiasm for exploring the unknown. The concluding day of the NSTW, June 1, is celebrated in China as International Children's Day.

Editor's Pick

China's Camel Milk Industry Flowing with Success

By LIANG Le, ZHU Tong & LIANG Yilian

The third week of May marks China's 10th National Nutrition Week, with a focus on promoting the consumption of vegetables, fruits, milk, whole grains, and soybeans. Today, Chinese consumers are spoilt for choice with the variety of milk options available, especially since camel milk has emerged as a significant player in the dairy stakes.

Since 2016, Xinjiang University and Xinjiang Wangyuan Biotechnology Group have collaborated on groundbreaking re-

search in the camel milk industry. This partnership has led to significant advancements in basic research, production technology, and technical systems, positioning the industry in a space of rapid growth.

Higher protein content

The unique qualities of camel milk were recorded in the *Compendium of Materia Medica*, one of China's most important traditional books on pharmaceuticals and the Uyghur pharmacopeia.

"Camel milk is rich in natural bioactive factors such as lysozyme, lactoferrin, lactoperoxidase and immunoglobulin. It

has a higher protein content and more variety than cow's milk," professor Yang Jie at Xinjiang University told *Science and Technology Daily*.

In 2005, Yang led a team to launch the first camel milk research project in Xinjiang Uygur Autonomous Region. They tested the composition of camel milk.

For the most accurate results, in 2007 the researchers employed advanced protein purification equipment and biological separation techniques. They created an extensive ingredient database, isolating and identifying various components.

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New Shipping Line Highlights China-Mexico Trade

International Cooperation

By LI Linxu

A novel shipping route set sail on its maiden voyage from Qingdao port to Ensenada port on May 19, demonstrating the ever-closer Sino-Mexican trade relations.

From Qingdao, the new shipping line will take about 20 days to arrive at the Mexican ports of Ensenada, Manzanillo and Lazaro Cardenas in sequence.

A total of eight container ships with a capacity of more than 4,000 TEU have been deployed for the line.

In the first quarter of 2024, Qingdao port's container throughput logged a year-on-year increase of 11.3 percent, thanks to double digit growth in cargo volumes from the North and South American routes.

With the launch of a new shipping line, it will provide a more convenient maritime passage for Chinese goods reaching Mexico, injecting new momentum into the two sides' maritime trade.

This year marks the 52nd anniversary of the establishment of diplomatic ties between China and Mexico, and also witnesses the 11th anniversary of the establishment of the China-Mexico comprehensive strategic partnership.

Bilateral trade volume between China and Mexico has increased by more than 7,000 times since the establishment of diplomatic relations.

In recent years, the trade relationships between the two countries have grown stronger. China has become Mexico's second-largest trading partner globally, while Mexico has become China's second-largest trading partner in Latin America.

Last year, the bilateral trade reached 100.2 billion USD, surpassing 100 billion USD for the first time, according to official statistics.

New Graphic

China's Data Production in 2023

Generated **32.85ZB** of data

Data Storage

China's cumulative data storage volume **1.73ZB** Storage space utilization rate **59%**

Computing Power

30% y/y ↑

Source: The 2023 Edition of the National Data Resource Survey Report
Designed by YAO Yilu / Science and Technology Daily

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