ness University, said "BRI offers us research

projects, facilities, and cooperative opportunities

with different countries. And through its proj-

different countries. Through their BRI experienc-

es, they recognize the unique perspectives of

people from diverse backgrounds in solving sci-



Belt and Road Initiative: 10 Years' High-quality Cooperation

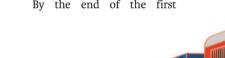
China-Europe Freight Trains Improve Connectivity

By Staff Reporters

iwu, a small city in east China's Zhe-

links Yiwu, aka "the world's supermarket," and 10th anniversary of both the launch of the first freight train via the Yiwu-Xinjiang-Europe freight

In March 2011, the first China-Europe Express train departed from Chongqing. Since then, the China-Europe freight trains have become a highlight in the implementation of the BRI.



A freight train of the China-Europe Rai

way Express Chang'an . (PHOTO: VCG)

the construction of China-Europe railway hubs. For example, the number of cargo handling

from 19 to 29. It is also actively developing China-

Compared with maritime transport, the efficiency of China-Europe freight trains has obvious advantages. China's railway authorities have optimized the working procedures, improved in-

functions such as automatic information collection, planning management, cargo trains tracking, and automatic detection of safe loading.

In recent years, the goods category and value delivered by China-Europe freight trains have increased year- by- year, and high value- added

and high-tech products have shown growth.

In the past, China- Europe freight trains from Yiwu were used to transporting mainly small commodities, hardware, electrical appliances and mechanical equipment, but now the export structure has changed. Auto parts, photovoltaic products, smart home appliances and new

According to data released by the General Administration of Customs, China's import and export volume rose 2.1 percent year-on-year to 20.1 trillion RMB in the first half of this year Notably, export growth of electric vehicles, lithium batteries and solar cells reached 61.6 per-

To meet different needs of customers, China-Europe freight trains now provide cold chain transport, which can quickly ship fruits such as lychee, longan, banana, dragon fruit, and skincare products such as facial masks from Guang-

In addition, the China-Europe freight trains also provide customized services. The China-Europe train that runs from Shanxi transports special products such as medicines from Datong, flanges from Xinzhou, ceramics from Shuozhou glassware from Jinzhong and walnuts from Lyu-

This year marks the 10th anniversary of the Belt and Road Initiative (BRI). Since its launch in 2013, the BRI has been welcomed by the international community as both a public good and a cooperation platform. Over the last decade, the BRI has facilitated high-quality cooperation, and delivered real gains to its partner countries and people.

The BRI pursues development, promotes win-win outcomes, and inspires hope. China and BRI partners have been working hand in hand to carry out cooperation projects, contribute to global connectivity and create platforms for international economic cooperation.

Sci-tech Cooperation Key for BRI Partners



More than 80 BRI partner countries signed intergovernmental agreements on sci-tech cooperation.

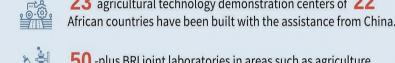


More than **10,000** young scientists from partner countries have carried out short-term research and exchanges in China.

More than **16,000** technicians and management



professionals have been trained from partner countries. 23 agricultural technology demonstration centers of 22



50 -plus BRI joint laboratories in areas such as agriculture, new energy, and health have been established.

Source: China's State Council Information Office

Growing Together with BRI

BY LIANG Yilian

he third Belt and Road Forum for International Cooperation was held in four distinguished young experts shared their BRI experiences and insights with audiences.

TCM thrives within BRI

The ancient Silk Road, the historically renowned global trade route, also served as a tional medicine (TCM). Today, as global inter-

Han Man, deputy chief physician of the Guang'anmen Hospital in Beijing, shared her experience as a lecturer in international exchange project launched by China's Ministry of Science and Technology. She introduced TCM and Tibetan medicine to international researchers involved.

Han called TCM, a traditional medicine practical medical discipline

tion perfectly illustrate the meaning of the and mutual learning among civilizations. "The BRI provides us a fantastic exchange platform to deepen understanding among young scien-

Naser Golsanami, an Iranian professor at Shandong University of Science and Technology, showed keen interest when Han talked about professor at Chongqing Technology and Busi

Sanfutie, a kind of medicated patch. It showed that though TCM originated in China, its relevance extends far beyond, reflecting the cultural and ancestral wisdom of the country.

BRI catalyzes rice research innovation Many BRI partner countries are developing countries with a large agricultural population and a high proportion of agricultural GDP Therefore, they seek opportunities for agricultur-

ricultural Sciences in east China, has been working on enhancing grain yield and cultivating

made it necessary to take innovative approaches needs a lot of water, Zhu and her team bred a type of drought-tolerant rice that requires less water. It can be planted in tropical areas and also reduces greenhouse gas emissions.

Zhu, drawing on her experience of working

with a Bangladeshi partner in BRI projects, underscored the importance of understanding the local preferences for rice: what kind of taste aroma and texture they prefer, in addition to the environmental and labor factors. This kind For example, Chinese people generally pre-

fer soft rice but Bangladeshis prefer hard rice. BRI projects cover more than food security

China's Tech Empowers Kenyan Agriculture Development

aspects. Mohamed Salem from Egypt, a visiting

Salem emphasized the commonalities and distinctions in the histories and cultures of China and Egypt. He views the BRI as a way to build a global community of shared

Living in China, Golsanami has deep in sights into Chinese culture. He said an old Chinese saying has given him a deep under are, namely, "Appreciate the culture/values of



BRI Sci-tech Cooperation Shines

By ZHONG Jianli

ver the past decade, sci-tech innovation has served as a driving force for the implementaion of the BRI. Through sci-tech cooperation, BRI partner countries have enhanced their innovation capacity, bridged digital gaps and achieved green development.

Thriving sci-tech exchanges

In May 2017, the Action Plan on Belt and Road Cooperation in Scientific and Technological Innovation was launched to advance the innovation capacity of BRI partner countries. It has achieved significant results in joint research, technology transfer, science and technology and cultural exchanges, and cooperation between high-tech industrial parks. By the end of June 2023, China had signed intergovern-

mental agreements on sci-tech cooperation with more than 80 BRI partner countries, and established more than 50 joint laboratories in agriculture, new energy and healthcare. It has also established nine cross-border technology transfer platforms for ASEAN, South Asia, Arab states, Africa, Latin

has hosted more than 10,000 young scientists from BRI part-dards on Cross-border E-commerce.

in China. Trips have also been organized for experts and researchers from these countries to acquaint them with the latest sci-tech developments in China The Alliance of International Science Organizations.

founded by the Chinese Academy of Sciences under the framework of the BRI, has 67 members from research institutions, universities and international organizations in 48 countries and regions in Europe, Asia, South America, Ocea-

The China-Belarus Great Stone Industrial Park in Belarus is a model of high-tech industrial park cooperation. It has attracted investment from 114 enterprises in 16 countries, mainly in machinery manufacturing, e-commerce, new materials, traditional Chinese medicine and artificial intelligence, according to Xie Xiaoyong, the Chinese ambassador to Belarus.

Building a digital Silk Road

With the global economy switching to the digital economy, digital cooperation under the framework of BRI has

To strengthen policy coordination, China has proposed the Global Initiative on Data Security and the Belt and Road Digital Economy International Cooperation Initiative. It Professionals exchanges are deepening. Since 2013, China also took the lead in formulating the Framework of Stan-

ment continues to deepen, and China-Arab cooperation on the online Silk Road proceeds steadily, according to Cong Liang, vice chairman of China's National Development and Reform Commission, during a press briefing.

> Cooperation in digital infrastructure connectivity has also been strengthened. China has built 5G base stations, data centers, cloud computing centers and smart cities in BRI partner countries where previously there was no basic network infrastructure, and promoted digital upgrading and transformation of traditional infrastructure such as ports, railways and energy networks.

Cong said cross-border e-commerce has become a new engine to promote the growth of trade in goods in BRI partner countries. Cloud platforms and other services provided by Chinese enterprises are continuing to benefit the local

Besides, the Cloud Classroom program has provided live webcast training classes for more than 80 countries to reinforce their digital literacy.

Green technology for sustainable growth

Green and low-carbon development is one of the defining features of the BRI, which emphasizes harmonious development between humans and nature, and pursues sustain-

Green Development of the Belt and Road, and launched the Initiative for Belt and Road Partnership on Green Develop ment together with 31 countries.

China has pledged to stop building new coal-fired power stations overseas and is ready to deepen research cooperation with partner countries on biodiversity conservation, and build the Belt and Road Environmental Technology Exchange and Transfer Center.

Using advanced green, low-carbon technologies, Chinese companies have invested in a large number of eco-friendly projects in BRI partner countries, such as the Zhanatas wind power plant in Kazakhstan and the Hann Bay wastewater treatment project in Senegal.

While constructing the Mombasa-Nairobi Railway in Kenya, the Chinese builders created several passages through which the local wildlife like elephants and giraffes could move freely and safely to accommodate their living habits, thereby contributing to harmonious coexistence between

Looking into the future, China will continue to leverage its scientific and technological strength and other experiences acquired over the past decade to carry forward cooperation with BRI partner countries and build a global com-

Comparatively, corn growing in nearby fields struggles to grow to about one meter in height. The corn in the station has undergone mulching treatfailure.

ment by a Chinese agricultural team which comes from Lanzhou in Northwest China's Gansu province. After nearly 30 trips to Kenya, the team leader Professor Xiong Youcai brought China's ridge-furrow plastic film mulching tech-This year marks the 12th anniversary of the estab-

lishment of the cooperative relationship between the two sides. Apart from increasing corn plant height, the leaf area has also significantly increased, resulting in a vield increase of 99 percent to 240 percent. Additionally, water use efficiency has improved by 127 percent to 247 percent

Kenya embraces new tech

Kenya is in East Africa, with the equator crossing through its central region. Over 80 percent of the country's land is in arid or semi-arid regions.

In August 2011, the Ministry of Science and Technoloronment Programme, officially launched a water resource

cal expertise and rich experience, Xiong led a research

At that time. Kenya had just experienced a three-yearlong drought, causing farmers to suffer from severe crop

The challenges faced by Kenya have also plagued the people in China's northwest arid and semi-arid regions for a long time. It wasn't until the 1980s that the ridge-furrow plastic film mulching technology was widely promoted on the Loess Plateau, greatly improving water efficiency. The technology also has the advantages of low cost, easy operation and labor saving.

In simple terms, this technology involves creating ridges in the field, covering them entirely with plastic film, and sowing crops in the furrows.

"You see, the alternating ridges and furrows in the field have become a gathering place for rainwater, haven't they? The different-sized ridges can channel and seep the tiny rainfall to the roots of the crops," said Xiong.

Given the complexity of both natural and social conditions, drip irrigation technology from developed countries like Japan and Germany was also experimented with in Ke-

definitely not accept it. That's a given," said Kiprotich Wesly Cheruiyot, a Kenyan doctoral student at the College of Ecology of Lanzhou University, adding that "Only when the cost comes down and the technology is not too complex, will there be a possibility for widespread

New environment brings new challenges While the ultraviolet radiation in Northwest China is

already intense, in equatorial Kenya it is even more so. Under this dual onslaught of ultraviolet rays and ground temperatures, the plastic film showed signs of dissolution and damage in less than three days.

"People need time to adapt to a new environment, let alone a small piece of plastic film," said Mei Fujian, a team member and doctoral student at the College of Ecology of Lanzhou University. The team quickly came up with a solution through brainstorming, deciding to improve the material of the plastic film, including measures like adding carbon powder to enhance its resistance to

Due to its strong light-blocking properties, the improved black plastic film not only effectively suppresses weed growth but also lowers the field temperature. This means that the "greenhouse" environment where pests

which had long been plagued by pest infestations, is reju-

Up to now Xiong's team has established eight technical demonstration sites across Kenva, covering an area of

A green test field on the East African plateau

"This is a very good opportunity for agricultural development in the arid and semi-arid regions of Kenya. believe we can seize this opportunity and retain this practical dryland agricultural technology," said Dr. Patrick Gicheru, director of the Kenya Agricultural Research In-

In Xiong's point of view, this signifies a phased success in the promotion of this technology. What makes him happier is that more countries like Ethiopia and Pakistan have also adopted the ridge-furrow plastic film mulch-

"When I see the lush and thriving experimental fields on the East African plateau, I feel that all the hardships I've experienced were worth it," said Xiong.

This article is written by WANG Yingxia, XIE Manbin, LI Yuhan, ZHAO Yingshu, LIN Lijun, TENG Jipu & LIANG

