Policy Express

A new policy that outlines the vi-

sion for China's urbanization, shifting

the focus from rapid expansion to stable

and efficient growth, with an emphasis

on improving existing urban structures

and enhancing the quality of life, was is-

sued recently by the Central Committee

of the Communist Party of China and

into engines of modernization and key

spaces for people's well-being. By 2030,

China intends to make substantial prog-

ress in building "modernized people's

cities," focusing on improving living con-

ditions, sustainable growth, and gover-

nance. By 2035, these cities should be

largely completed, with advanced urban

transitioning urban development from a

phase of rapid expansion to one of mak-

ing better use of existing urban struc-

tures. This includes urban renewal, en-

ergy transformation, and focusing on

people-centered policies. The plan calls

for a tailored approach based on local

conditions, emphasizing inclusivity and

China recently released a policy

aimed at accelerating the green, low-car-

bon transformation of its economy, em-

phasizing the importance of building a

unified and highly efficient national car-

ment to confronting climate change

head on, while driving sustainable eco-

nomic development with a focus on up-

grading the role of carbon markets to

The policy stresses China's commit-

A central theme of the policy is

systems and social services.

By LIN Yuchen

The policy aims to transform cities

By LIN Yuchen

the State Council.

By LIN Yuchen, LIU Xia, WANG Shan-

Sichuan, a province renowned for its

Since January, Sichuan's tourism sector has seen remarkable growth. For example, the night cruise on the Jinjiang river project generated around 24.88 million RMB, while the scenic Emei Mountain welcomed over 4.65 million visitors.

The service sector in Leshan city in the south surpassed 100 billion RMB in added value during the 14th Five-Year Plan period (2021-25). These figures reflect the success of a broader strategy to combine traditional culture with modern tourism, forging a dynamic model

One key aspect of this transformation is the adaptation of historical sites into vibrant tourism hubs. In the ancient town of Suji in Leshan, for instance, more than 400 million RMB has been invested in the renovation of the town's heritage sites and the development of new cultural tourism products. As a result, Suji saw 4.65 million visitors and generated 502 million RMB in tourism revenue from January to May.

Other initiatives, such as the

tourism courses and large-scale live performances that highlight the region's unique cultural heritage.

Sichuan's modern urban developments are equally vibrant, with new retail and entertainment spaces springing up across cities. For example, the "Naxi Silk Factory - Micro Buzz Energy Station" in Luzhou combines a variety of business models, including local food, entertainment, and social spaces, to create a dynamic new consumption envi-

Similarly, the Luhu CPI Commercial Park in Chengdu is leveraging its natural surroundings to create a relaxed and stylish shopping experience, attracting a unique crowd and achieving significant foot traffic.

At the same time, cutting-edge technologies are being introduced to enhance tourism experiences. In Chengdu, the Jinjiang night cruise offers an immersive experience using Mixed Reality technology, so that visitors experience ancient Sichuan as if they were stepping into a historical scene.

In Emei Mountain, an "exoskeleton hiking assistant robot" was introduced to help tourists conserve energy during hikes, further blending technology with

Through a combination of policies, activities, and diverse tourism products, Sichuan is redefining its identity as the place where life is easy. By merging culture, tourism, and industry, the province is not only creating new economic growth but also offering a model for sustainable, high-quality development that



fun in Chengdu, Sichuan province. (РНОТО: XINHUA)

A child has

Vibrant China

Sichuan's Unique Heritage-**Consumption Synergy**

shan, DAI Xiaopei & FANG Linlin

cultural heritage and diverse landscapes, is embracing a new era of growth by integrating its cultural and tourism resources with a broader range of industries. This integration aims to boost both the local economy and people's quality of life, creating a unique synergy between heritage and modern consumption.

for development.

Shibanhe Tourism Area in Weiyuan county, have also pioneered new tourism experiences, including educational

JUNO to Reveal Nature of Matter and Universe

From page 1

Li Xiaonan, director of JUNO at the Institute of High Energy Physics (IHEP), Chinese Academy of Sciences (CAS), has been living in Kaiping since 2013 and is in charge of infrastructure. Although Li majored in particle physics, during the seven years of construction, he also studied multiple fields such as geology, hydrology, measurement and control, and fire protection, to communicate smoothly with the contractors and overcame ensuing difficulties.

JUNO is the most challenging project I have ever conducted, Wang Yifang, a renowned high-energy physicist and an academician of the CAS, frankly stated. The challenges were not only in engineering, but also in the development of the detector's key core compo-

The acrylic spheres used in JUNO were 20 times larger than the largest SNO experimental acrylic sphere in the world when the project was proposed.

The Donchamp company set up a dedicated production line and worked closely with the IHEP, breaking through multiple technical barriers to develop acrylic spheres qualified for JUNO.

Independent and collaborative in-

cultural exploration.

benefits both locals and visitors alike



nology platforms, and drive industrial

New Era of High-quality Urbanization resources, develop cutting- edge tech-

transformation. To encourage new growth drivers, a push for innovation in manufacturing, services, and green industries has been stressed, along with highlighting revitalization of underutilized urban assets, such as old buildings and inefficient land, to maximize space efficiency and stimulate local economies.

A key aspect of the policy is promoting sustainable urban development. In this regard, cities will focus on increasing energy efficiency, adopting green building practices, and reducing environmental pollution. Additionally, sustainable living practices, including water conservation, waste reduction, and low-carbon transportation systems form part of the plan.

Urban planning is a strategic framework for reshaping China's urban landscape. By prioritizing innovation, sustainability, and efficient resource use, the framework aims to improve people's quality of life and enhance the global competitiveness of China's cities.

Through urban renewal and sustainability efforts, China is poised for a new era of high-quality, people- centered urbanization.



livability in urban planning.

(PHOTO: XINHUA)

of urban agglomerations and metropolitan areas, aiming to create well-connected, efficient urban networks. Areas such as Beijing-Tianjin-Hebei, the Yangtze River Delta, and the Guangdong-Hong Kong-Macao Greater Bay Area are prioritized to become world-class urban

Also emphasized is the integration

The policy focuses on the simulta-

Push for Unified Carbon Market by 2030

control greenhouse gas emissions.

The policy's core objective is to es-

tablish a comprehensive carbon market

that integrates mandatory carbon emis-

sions trading and voluntary greenhouse

gas reduction trading. By 2027, the man-

datory carbon emissions market is expect-

ed to expand to include key industrial

sectors, while the voluntary market

bust, transparent, and internationally

aligned carbon trading system, setting

By 2030, China aims to build a ro-

should cover all critical areas.

ture, public services, and economic func-

neous development of second-tier and

smaller cities, improving their infrastruc-

An aerial view of the central business area of Zhengzhou city, Henan province.

Additionally, the policy calls for the enhancement of megacities' competitiveness by refining their functions and supporting technological innovation, particularly in high-tech industries. These cities will be encouraged to improve their allocation of global

up a pricing mechanism that is genuine-

ly reflective of environmental costs.

The policy sets out clear priorities to accelerate the carbon market's development. The national carbon emissions trading market is to be expanded gradually across all industries, with a focus on sectors that offer substantial emissions reduction potential.

The government initially plans to implement a quota system for carbon emissions, combining both free and paid allocation methods, and progressively shift towards a total cap on emissions. A market adjustment mechanism will also be created to ensure stability, enhance liquidity, and balance supply

The development of the voluntary carbon market is another key initiative. The government plans to establish a comprehensive strategy for voluntary emissions reduction projects, focusing on sectors with significant ecological and social benefits. The use of certified voluntary reductions in carbon trading will be encouraged, with government and state-owned enterprises leading by example in integrating these reductions into their operations. In addition, the policy focuses on improving the market's competitiveness

measures will be strengthened to ensure market transparency and prevent any form of manipulation. To ensure the carbon market's success, China will also improve its management systems, including implementation of a nationwide digital platform for trading and emissions reporting. Highquality carbon data and rigorous over-

by diversifying trading products, pro-

moting green financial instruments,

and expanding the range of market par-

ticipants, including financial institu-

tions and individual traders. Regulatory

market is another area of importance. In the international arena, China aims to contribute to global efforts to combat climate change by aligning its carbon market practices with interna-

sight to maintain the integrity of the

tional standards, and engaging in collaborative efforts to develop a fair and equitable global low- carbon transition.



An UAV equipped with lithium battery is tested. (РНОТО: XINHUA)

A Course for Modern, People-centered Urban Development

The strategy is paying off: 19 urban agglomerations now house 75 percent of China's population and account for approximately 85 percent of its GDP. As emphasized in the new policy, the goal is to build networked, cluster-based ur-

"A city cluster isn't just a group of cities," said Wu Zhixiang, a member of the Chinese Academy of Engineering from Tongji University. "It's an organic whole, linked by transportation, information, innovation and industrial net-

Where ideas take flight

In Anyang, Henan province in central China, a drone recently delivered a business license and company seal just 10 minutes after the request was filed, symbolizing the city's push into the lowaltitude economy.

Backed by the Lantian Laboratory, Anyang's drone industry reached 1.65 billion yuan in output in 2024, a 30 percent year-on-year increase.

This is innovation in action, where science meets society. Across the country, cities are cultivating ecosystems for innovation, nurturing everything from startups to tech giants.

In Shenzhen, policymakers are rolling out new support for high- growth firms, aiming to create a landscape where "leading enterprises dominate the skyline, SMEs blanket the ground, and innovators open new frontiers."

"It's about creating the right soil for ideas to take root and scale," said Cao Zhongxiong, assistant director at the China (Shenzhen) Institute of Comprehensive Development.

Preserving the past, embracing the

As cities modernize, there's a growing emphasis on preserving cultural identity. In Pingyao, Shanxi province in north China, a UNESCO World Heritage site with over 1,000 protected cultural relics, local officials are using AI and big data to map historical patterns and guide urban planning.

The city's "separate governance for old and new" model ensures that while modern infrastructure expands beyond the ancient walls, the historical core re-

"Heritage must not be frozen in time," said Professor He Yun'ao of Nanjing University. "With digital tools, we can help ancient culture speak to modern audiences, bridging past and pres-

Cities that 'think' and adapt

When Typhoon Wipha lashed Wuhan in July, the city did not suffer waterlogging. Thanks to its "sponge city" infrastructure and smart flood control systems, streets that once used to be flooded now drain efficiently.

"Resilience means being prepared and anticipating (disasters)," said Peng Chong, deputy dean of the School of Architecture and Urban Planning, Huazhong University of Science and Tech-

Leveraging the Internet of Things and big data, cities like Wuhan are building all- encompassing monitoring systems that track risks from the sky to

Chongqing — a mountainous megacity — is using AI to manage urban operations at scale. Its "City Brain" connects with 41 districts and over 1,000 township centers, monitoring everything from traffic to public safety in real

In Qingdao, Shandong province in the east, a smart community app brings services at residents' fingertips whether it's booking a doctor, ordering groceries, or repairing appliances. "Smart cities are not showing flashy tech," said a local official. "They're about making life easier, one click at a

At its core, China's urban transformation is about people. These initiatives converge on a single goal: improving quality of life. With science and technology as the foundation, and human wellbeing as the compass, China's cities are growing and evolving.

The photomultiplier tube (PMT) is the most crucial component of the detector. A total of 20,000 PMTs operate simultaneously to capture scintillation light from neutrino interactions and convert it to electrical signals.

However, the technology was monopolized by Japan and acquiring it was very costly. Therefore, independent R&D of PMT was put on the agenda and in 2009, Wang and his team proposed a novel PMT solution.

After 11 years of verification, they

pendent intellectual property rights and the highest photon detection efficiency in the world. They also obtained patent license from the European Union, the United States, Japan and other countries. In 2020, 15,000 20-inch domestically produced PMTs were delivered. Com-

pared with imported PMTs, this saved

two-thirds of the cost and rescued the

successfully developed a PMT with inde-

domestic PMT industry, which was on the verge of bankruptcy. While hosted by the IHEP, JUNO is a collaborative innovation of over 700 scientists from 74 research institutions in 17 countries and regions, along with

thousands from the industrial sector. The landmark achievement is the result of the international cooperation among many research groups outside China, who have brought to JUNO their expertise from previous liquid scintilla-

Marco Beretta, an Italian expert, arrived at the experimental site in July 2023 and became one of the heads of liquid scintillation. When Beretta saw the light inside the detector for the first time, his excitement knew no bound. "The birth of such a huge detector is like a paean, so wonderful," he said in eulogy.