By Xie Wenting and Lin Xiaoyi

very year, Professor Liu Yansui embarks on a journey that takes him to the heart of China's countryside. With each step he takes, Liu brings with him a wealth of knowledge, experience, and dedication that have made him a driving force in China's poverty alleviation and rural revitalization efforts.

His method, a blend of meticulous research and concern for the well-being of rural residents, has yielded remarkable results. Through his scientific research and decision-making support, thousands of households have been lifted out of poverty, and rural communities have been revitalized.

Despite spending a large quantity of time in rural areas where he works from dawn to dusk, Liu, a specialist in human geography and land science at Institute of Geographic Sciences and Natural Resources Research of Chinese Academy of Sciences, is also busy with academic work in Beijing as he tries to find solutions for problems through careful planning and scientific methods.

"Poverty alleviation and rural revitalization is not just about providing temporary relief. It's about empowering communities to become self-sufficient and resilient," Liu told the Global Times at his Beijing office.

"As a geographer, one must not only read thousands of books and travel thousands of miles, but also strive for the well-being of thousands of people," he noted.

Base research on land

Chinese President Xi Jinping once noted that "it is necessary to vigorously promote the scientific spirit of pursuing truth and scaling new heights throughout society, widely publicize role models and deeds emerging in the fields of basic research and other science and technology fields, educate and guide science and technology personnel to inherit the glorious traditions of the previous generations of scientists who devoted themselves to the country and cared for the people, and base their research on the land of China

Bearing this in mind, Liu has been dedicated to promoting the scientific spirit and pursuing truth by conducting extensive research and writing papers based on the rich materials he has found in the vast land of China.

Tall and energetic, the geographer has reiterated the importance of the countryside for the country's overall development to the Global Times reporters. Having worked in the field of human geography for more than two decades, he believes that the concept of the human-earth system science, which highlights interactions and

Renowned Chinese geographer revitalizes rural villages through science, innovation

Mapping hope

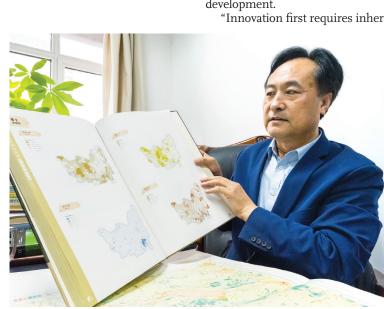
dynamics between human activities and the natural environment, is fundamental in

revitalizing rural communities and reshaping the future of China's countryside. His work in promoting ecological land consolidation technologies and industrialization models, as well as scientific reclaiming

desertified lands, revitalizing saline-alkali soil, creating land in gullies on the Loess Plateau, and implementing sustainable agricultural and rural revitalization practices, has earned him national recognition and accolades.

On the international stage, Liu has also received numerous awards including being awarded the social science award by The World Academy of Sciences (TWAS), the distinguished practice award by the International Geographical Union (IGU), and being elected as a TWAS academician.

Liu Yansui shows a map of Northwest China's Shaanxi Province during an interview with the Global Times. Photo: Chen Tao/G



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In the realm of academic pursuits and scientific endeavors, the passing of knowledge from one generation to the next is a crucial aspect of advancement. This passing of the torch is not merely a formality,

but a deeply ingrained tradition that ensures the preservation and evolution of ideas and practices.

Liu's greatest mentor is academician Wu Chuanjun, a distinguished expert in human geography and economic geography in China.

After half a century of exploration and research, Wu first proposed that the human-earth areal system is the core theory of geographical research, a dynamic structure formed by the intertwining of human society and the geographical environment in a specific region. Liu inherited and further built upon

Wu's theory. He has led a team to establish geographical engineering research demonstration bases in typical regions such as Yan'an, Yulin, Hanzhong, Yanchi, Yucheng, and Fuping. Through continuous observation and comprehensive research on human-earth systems in different regions, he has creatively developed human-earth system science and is exploring its practical application to meet the demands of modern sustainable development

"Innovation first requires inheritance - inheriting the scien-

tific research of predecessors and continuing the unfinished cause of predecessors. Innovation is not something that comes out of thin air, but a process of continuous progression from nothing to something, from something to petter, and from better to unique. Liu said.

their latest research findings.

the country's achievement of eradicating expoverty list

"Geography has significant practical applications. In China, many geographers have been actively involved in solving major strategic needs and real-life issues," Liu explained. In 2016, Liu led a team to undertake the tasks of third-party assessment of national targeted poverty alleviation in China and promoting the standardization of assessment. In the six year after, he and over 10,000 experts traveled to 22 provinces in central and western China. They conducted field investigations in 5,380 typical villages of 603 counties, collecting 160,000 questionnaires from villagers and 3,813 from village officials.

"Since the 18th National Congress of the Communist Party of China (CPC), precise strategies for poverty alleviation and eradication have been implemented, along with a rigorous assessment and evaluation system to ensure tangible results," Liu said.

ation of national poverty alleviation effectivepoverty reduction.

Days were spent on household surveys, and nights were on discussions. The intense yet rewarding evaluation days during their journey left a lasting impact on Liu.

"During household surveys, we adopted the'six-step method': First observed their living conditions, second checked food reserves, third look at the labor force, forth verified children's school attendance, fifth inquired about the stability of their income sources, and, finally ask about the evaluation of the masses," Liu shared. In Liu's view, through numerous explorations, China has found a successful path for poverty alleviation and development tailored to its national conditions. This lays the groundwork for addressing overall regional poverty in rural areas and advancing modern agricultural

development and rural revitalization.



Solutions for developing nations

On the "Day for Serving National Strategy" in 2023, Liu's research team released the English version of the "Poverty Alleviation Supported By Science And Technology," which

garnered attention from international organizations such as the Alliance of International Science Organizations (ANSO) and the IGU. The IGU expressed gratitude to Liu's team for utilizing geog raphy's advantages to closely serve major needs at a crucial time.

Liu emphasized that China's accomplishments in poverty reduction offer valuable insights for other regions worldwide.

Liu noted that currently, China's involvement in global governance, including building a global community of shared future, constructing the Belt and Road Initiative (BRI), and implementing global development initiatives, are significant theoretical innovations and practical contributions These are also key areas that Chinese geographers are dedicated to participating in.

As the Chairman of the Alliance of International Science Organizations-Alliance of Poverty Reduction and Development (ANSO-APRD), Liu actively promotes collaboration between Belt and Road partner countries and organizations, aiming to transform the growing process of the BRI into a sustainable development path of poverty reduction and growth

In 2016, he initiated the establishment of the IGU Commission on Agricultural Geography and Land Engineering (IGU-AGLE) and was elected as its chairman. He worked hard to promote the latest achievements of Chinese agricultural geography and land engineering to the international community

Since 2018, Liu has consistently been recognized as a "globally highly cited scientist." In 2023, he was even named one of the "World's Top 2 percent Scientists 2022."

Liu attributes the international community's interest in his work to concerns about China's agricultural and rural issues. "We effectively translate national strategies into engineering techniques to solve practical problems and develop a universal methodology," he explained.

During the interview with the Global Times, Liu received an official invitation. He is planning to represent ANSO-APRD to visit sub-Saharan Africa for research and exchange, with the goal of sharing China's experiences, which is at the forefront of international poverty reduction efforts.

In Liu's view, scientists have a homeland, but science has no boundaries.

"Many developing countries are currently facing challenges of poverty reduction and hunger, and China has explored and become a leader in solving these issues. We are also advancing systematic research and providing innovative solutions for developing countries," he noted.

Tangible, fruitful findings

Liu's team marks February 25 as the "Day for Serving National Strategy," when they hosted seminars to share

On February 25, 2021, President Xi hailed treme poverty as a miracle that shall "go down in history." China has lifted 98.99 million poor rural residents under the current poverty line out of poverty, with 832 impoverished counties and 128,000 poor villages removed from the

Liu highlighted that the third-party evaluness is a complex yet significant project, being the largest and earliest in the history of global

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Liu emphasized that China's success in targeted poverty alleviation is due to accurate poverty identification, targeted assistance and effective solutions. He commended active cooperation between the evaluation expert teams and provincial Party committees and governments in addressing issues identified during field investigations.

Witnessing the remarkable achievements in poverty alleviation, Liu now focuses on urbanrural integration and rural revitalization in the new era.

With China's urbanization progressing, Liu highlighted the need to find a place where more than 400 million rural residents can live and work in peace as the urbanization rate is expected to reach 70 percent by 2030.

He envisions that with scientific and technological advancements, China will enhance the quality of urbanization and promote the urbanization of agricultural migrant workers.

Through urban-rural integration and ptimizing the coupling relationship between human, land and industry, it's hoped that China will gradually eliminate this development imbalance, further enhance the quality of the population, improve the ecological environment, and build beautiful and prosper ous rural areas, he said.

Farmers prepare for fertilization in a field in Nantong, East China's Jiangsu Province, on March 21, 2024. Photo: VCG

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