

Party Building as the Leading Force: Integrating Five-Link Collaboration to Empower Rural Revitalization-A Case Study of Wencheng Academy of Agricultural and Forestry Sciences

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Abstract

Rural revitalization is the primary strategy for the "three rural issues" (agriculture, rural areas, and farmers) in the new era, while Party building serves as the fundamental guarantee for its realization. Located in the mountainous region of southwestern Zhejiang, Wencheng County faces natural resource limitations but has demonstrated an effective model of development transformation. This paper explores how Wencheng Academy of Agricultural and Forestry Sciences, jointly established by Wenzhou Vocational College of Science and Technology and Wencheng County, utilized the mechanism of Party building leadership to build an integrated service system of "technology empowerment + talent co-cultivation," successfully creating a replicable path for rural revitalization. Through systematic analysis of organizational innovation, platform building, technological breakthroughs, and community engagement, this case provides practical insights into how red (Party-led) development drives green (sustainable) growth in mountainous areas, offering a vivid sample for rural revitalization in underdeveloped regions.

Keywords

Party Building; Rural Revitalization; School-Local Cooperation; Five-Link Collaboration; Talent Empowerment; Sustainable Development

1. Introduction

The Rural Revitalization Strategy represents a national mission to address disparities between urban and rural development. In areas like Wencheng County, with over 600 meters of average altitude and only 5.7% of its land available for farming, traditional pathways to prosperity are severely constrained. Overcoming geographic barriers and breaking the cycle of poverty requires innovative, integrated solutions. In this context, Wencheng Academy of Agricultural and Forestry Sciences (also

known as the Institute of Modern Agriculture and Wellness Industry) was established as a demonstration platform to drive high-quality rural revitalization. Built on a model of Party leadership, technological innovation, and talent cultivation, the Academy reflects a dynamic approach to leveraging institutional strength for rural development. This paper systematically examines the Academy's operating model, key practices, achievements, and lessons learned, aiming to contribute a viable model for rural revitalization through Party-led innovation.

2. Party Leadership: Strengthening the "Red Fortress" for Rural Revitalization

2.1. Organizational Foundation: Establishing a New School-Local Cooperation Framework

Since its establishment in 2018, the Institute has consistently adhered to the guiding principle of "Party Building +," integrating Party leadership into all aspects of its operations. Over the years, the Institute has successfully implemented a collaborative model known as the "Five-Link, Five-Shared" mechanism. This framework connects Party committees from both the educational institution and the local government, fosters joint management by Party branches, facilitates cooperative development of Party organizations, and encourages active community involvement. It serves as a key driver in ensuring the effective integration of educational institutions with local community development. A standout initiative within this model has been the proactive approach of the Party General Branch of the College of Agriculture and Biotechnology. The branch has established functional Party units and implemented a four-step linkage mechanism: appointing talent to key positions, decentralizing technical expertise to grassroots levels, advancing management to the frontlines, and aggregating resources to facilitate cross-sector cooperation. Through these steps, the Institute has deployed 12 resident Party member experts, each embedded within a specific sector of the industrial chain. This approach has allowed the creation of a service model where one expert supports an entire industry, directly assisting numerous farmer households. This integration of Party leadership into the industrial value chain ensures that Party members are at the forefront of key projects, delivering continuous talent, technical support, management services, and resource guarantees. This quadruple empowerment model enhances the capacity for local agricultural and rural development, driving a robust and sustainable model for rural revitalization.

2.2. Mechanism Innovation: Activating New Engines for Development

The innovative "Five-Link, Five-Shared" Party-building method was proposed to strengthen rural revitalization through strategic Party leadership. This approach emphasizes the integration of Party work with local development and creates sustainable pathways for agricultural innovation, economic growth, and community

empowerment.

The first component of this approach involves the establishment of Six Township-Level Party Co-construction Stations, which function as multifunctional hubs. These stations serve a variety of purposes, including agricultural technology promotion, Party member education, and industry-specific consulting services. By consolidating resources, these stations provide an accessible platform for rural residents to benefit from tailored services. They foster an inclusive environment that not only promotes technical knowledge but also increases political awareness, ensuring that Party-led development becomes the driving force for holistic rural progress.

Secondly, the model emphasizes linking Party-led projects to industry development. Party member experts have led 26 key industry projects aimed at overcoming technological bottlenecks within local agriculture. These projects introduce innovative solutions, such as new farming techniques, modern agricultural equipment, and sustainable production methods. The demonstration and widespread adoption of these technologies have significantly enhanced the overall quality and efficiency of local industries, guiding rural areas toward greater economic self-sufficiency.

Furthermore, the "Five-Link, Five-Shared" method promotes linking Party members to income growth by implementing the "1 Party Member + 5 Households" Mentorship Mechanism. In this system, each Party member is assigned to assist five local farmers, guiding them through technology management services, contract farming arrangements, and market access facilitation. This mentorship not only helps individual farmers increase their household incomes but also contributes to the community's collective economic resilience. Party members serve as role models for prosperity, cultivating a new generation of "Party-Led Wealth Creators" within the rural community.

Additionally, the model includes linking enterprises for industrial transformation. The Party encourages collaboration between Party branches and local businesses to advance technological research, brand development, and product diversification. By fostering joint ventures focused on innovation and business enhancement, this collaboration accelerates the transformation of traditional agricultural industries into modern, profitable enterprises. This mutually beneficial relationship ensures the growth of local industries while boosting the overall regional economy.

Finally, the "Five-Link, Five-Shared" model integrates platforms for innovation through the establishment of a "School-Local Talent Co-Training Platform." This platform bridges the gap between educational resources and local industrial needs, fostering collaborative innovation between universities, research institutions, and rural enterprises. It provides local farmers with access to cutting-edge technologies and best practices, forming a "technology service ladder" that starts with experts, followed by core agricultural personnel, and extends to the broader farming community. This model ensures that rural areas continue to evolve through sustained innovation and knowledge-sharing.

In summary, the "Five-Link, Five-Shared" Party-building method offers a comprehensive and dynamic approach to rural development. It integrates Party leadership, technological innovation, community engagement, and industry transformation, ensuring that rural communities are empowered to achieve long-term, sustainable development. This multifaceted model is foundational to the success of rural revitalization.

2.3. Talent-Driven Development: Forging a New Vanguard for Common Prosperity

The Institute has pioneered a "Project-Based Talent Attraction" strategy, creating a competitive and cooperative mechanism known as "Project-Designation and Champion Leadership" in collaboration with Wenzhou Vocational College of Science and Technology and Wencheng County. This mechanism has facilitated the introduction of Party-led research teams from prestigious institutions such as the Chinese Academy of Agricultural Sciences, Jiangsu Academy of Agricultural Sciences, Nanjing Agricultural University, and Henan Normal University. Over the past two years, this collaboration has led to the initiation of 24 industry-university-research cooperation projects, securing over RMB 4 million in funding. Additionally, 16 interdisciplinary research teams have been established to address critical technological challenges, injecting fresh perspectives and technical innovation into the industrial landscape. In terms of talent development, the Institute has established a mentorship system that operates under the principle of "Party Member Experts Leading Research-Youth Backbone Passing the Torch." This system has been instrumental in nurturing local innovative talent, exemplified by Wu Kunlong, a "Zhejiang Youth Agricultural Elite." The system has successfully facilitated the implementation and transformation of two major agricultural science and technology projects in Wenzhou, creating a "team introduction-technology breakthrough-talent cultivation" cycle. This approach underscores the significant role of Party members in leading rural revitalization by attracting specialized teams, overcoming technological barriers, and fostering local researchers. The result is a sustainable innovation cycle that empowers the local economy and enhances the overall capacity of the rural workforce. Through this innovative model, the Institute has highlighted the indispensable role of Party leadership in driving technological innovation, facilitating talent exchange, and ensuring sustainable rural development. This initiative demonstrates how the strategic integration of academic, governmental, and industrial resources can yield tangible results, contributing to the technological and social revitalization of rural areas.

3. Party Empowerment: Building the "Red Engine" for Industrial Development

3.1. "Party Building + Technological Innovation" to Break Industrial Bottlenecks

The integration of Party leadership with technological innovation has become a cornerstone for overcoming industrial barriers and spurring development in rural areas. In alignment with the Rural Revitalization Strategy, the Wencheng Academy of Agricultural and Forestry Sciences has pioneered the "Party Member +" service model, which synergizes the strengths of Party leadership and the Academy's specialized knowledge to promote industrial progress in Wencheng. The "Party Member +" service model effectively brings together Party member experts, who provide crucial leadership and technical expertise, to address local industry challenges. By combining the practical needs of local industries with cutting-edge research, the model fosters innovation and facilitates industry transformation. In particular, Party member experts have played a leading role in upgrading Wencheng's agricultural sector, focusing on high-impact areas such as the collection and preservation of germplasm for Wencheng yam, tissue culture and detoxification techniques, hydroponic rapid propagation methods, and the development of biodegradable bioplastics for agricultural use. These initiatives have not only enhanced the environmental sustainability of local agricultural practices but also improved their efficiency, contributing to the region's overall industrial upgrade. Moreover, the Academy has made groundbreaking strides in the aquaculture sector, particularly in the breeding of Australian blue lobsters. With the construction of specialized breeding tanks and successful hatching of over 20,000 lobster juveniles, the Academy has helped establish Wencheng as a leader in blue lobster farming. This achievement not only meets local demand but also offers a scalable model for aquaculture in other regions, significantly contributing to the diversification of the local economy. In the realm of crop cultivation, the Academy has set new benchmarks in the production of high-quality fresh corn. At the Eryuan Town demonstration base, under the research program for the "Golden Sweet No. 6" variety, the Academy's team achieved the highest recorded summer sweet corn yield in Zhejiang Province. This accomplishment not only showcases the Academy's research prowess but also solidifies Wencheng's reputation as a hub for agricultural innovation, positioning the area as a leader in specialized agricultural development. Through these successful initiatives, the Academy has exemplified how Party leadership can drive both technological innovation and rural prosperity. The integration of Party members into these projects has not only resulted in substantial technical breakthroughs but also instilled a shared sense of purpose and commitment to rural revitalization in the local community. The "Party Member +" service model has proven to be a powerful tool in transforming local industries, ensuring a sustainable and prosperous future for Wencheng's agriculture.

3.2. "Party Building + Model Innovation" to Stimulate Co-Prosperity

The Wencheng Academy of Agricultural and Forestry Sciences has also pioneered the "Party Branch + Enterprise + Village Collective + Farmer" cooperative farm model, which uses a shareholding structure to promote rural revitalization.

Duoyuan Township has served as the pilot area for this innovative model, which integrates two expert teams, one leading enterprise, and six young entrepreneurs who have returned to their hometowns to start businesses. This model, centered on the cooperation between Party branches, enterprises, village collectives, and farmers, ensures that local farmers benefit directly from the development projects. By engaging over 20 local farmers as shareholders and promoting joint entrepreneurship, the model not only incentivizes farmers but also enhances community development and economic prosperity. One particularly successful project in Tuotian Village, Duoyuan Township, has been the introduction of a tourism initiative, which has attracted over 3,000 visitors per day on weekends. This influx of tourists has boosted the local economy, providing financial benefits to participating farmers and increasing their income by over 3,000 yuan per mu of land. Furthermore, the project has attracted more than 5 million yuan in investment for infrastructure development and agricultural innovation, providing much-needed resources for local development. The cooperative farm model embodies a sustainable and mutually beneficial system that aligns the economic interests of both the business entities and the farmers. By creating a shared responsibility framework, where both risks and rewards are distributed equitably, this model fosters strong community cohesion and solidarity. The inclusion of local farmers, particularly those from low-income mountainous areas, has significantly improved economic conditions and contributed to poverty alleviation. This model serves as a prime example of how targeted policy interventions and collaborative efforts between government, businesses, and local residents can generate long-term, sustainable economic growth in underdeveloped regions.

3.3. "Party Building + Platform Innovation" to Strengthen Intellectual Support

In addition to model innovation, the Academy has made significant strides in creating a collaborative platform for innovation that integrates the expertise of academic institutions, local governments, and enterprises. This platform is designed to foster industry-driven growth by leveraging the leadership of Party organizations and the strengths of Zhejiang University and other research institutions. One of the most notable initiatives in this regard is the establishment of the "High-Mountain Fruit and Vegetable Industry Innovation Alliance." This collaboration aims to address the unique challenges faced by high-altitude agricultural areas in Wencheng County. By bringing together 54 research teams and top-tier experts, the Academy has created a multi-disciplinary research and development (R&D) platform that facilitates technological innovation and industry-driven solutions. The alliance combines academic research from Zhejiang University with practical, real-world applications in local enterprises, ensuring that research outcomes are directly applicable to local industries. Through the creation of this collaborative platform, the Academy has addressed the region's agricultural needs by launching 85 key agricultural technology

research projects. These projects, which focus on crops such as glutinous yam, yams, mountain vegetables, and sweet corn, are designed to improve local farming practices and increase agricultural productivity. The Academy has invested over 14 million RMB in these projects, which have already led to significant breakthroughs in crop yields and pest management. These innovations provide farmers with better tools to improve their productivity and ensure long-term sustainability. By fostering close cooperation between academia, enterprises, and research institutions, the Academy has established a sustainable "industry-university-research" chain that drives technological development. The results of this collaboration have significantly enhanced the productivity of local farmers, contributing to the broader goal of rural revitalization. This "Party-led innovation" model demonstrates the power of Party leadership in guiding innovation, fostering collaboration across sectors, and ensuring that technological advancements are seamlessly integrated into industrial practices. The Wencheng Academy of Agricultural and Forestry Sciences has proven that Party leadership, when combined with strategic partnerships between schools, local governments, and enterprises, can lead to the creation of sustainable agricultural development models. Through initiatives such as the "High-Mountain Fruit and Vegetable Industry Innovation Alliance" and various agricultural technology projects, the Academy has paved the way for a new era of rural revitalization, characterized by innovation, sustainability, and shared prosperity. By integrating Party building with technological innovation and platform development, the Academy has demonstrated how Party leadership can drive economic growth, improve livelihoods, and ensure the sustainable use of local resources in rural communities.

4. Party Cohesion: Painting the "Red Scroll" of Rural Revitalization

4.1. Platform Building to Strengthen Empowerment

In recent years, Wencheng County has made significant strides in enhancing the collaborative innovation mechanisms between universities and local government initiatives, particularly in the agricultural and technological sectors. A key milestone in this progress is the completion of the primary construction of the Wencheng Fruit and Vegetable Seedling Agricultural Innovation Park and the Fruit and Vegetable Resource Innovation Evaluation and Utilization Center. This development marks the creation of an integrated scientific research platform that spans the entire agricultural innovation process, from germplasm resource collection to new variety breeding and technology integration demonstration. The establishment of this comprehensive platform has proven to be a pivotal resource for advancing agricultural innovation, particularly in the development of high-quality and sustainable crop varieties, alongside the integration of advanced agricultural technologies. By leveraging the research capabilities of this platform, Wencheng has successfully secured its place on the list of provincial-level agricultural science and technology parks, offi-

cially named the Wencheng High-Mountain Fruit and Vegetable Agricultural Science and Technology Park. This park has fostered a dynamic and synergistic innovation ecosystem, effectively linking local enterprises, cooperatives, and government initiatives. The "Park + Enterprise + Cooperative" model exemplifies a collaborative approach to industrial revitalization, creating a strategic pathway for the agricultural sector's transformation towards more high-tech, value-added practices. As a result, the area has seen a significant influx of technological momentum, accelerating agricultural revitalization and contributing to the broader economic development of the region. Through this initiative, the seamless integration of local government policies, academic expertise, and industrial needs has cultivated a vibrant, innovation-driven agricultural economy. The establishment of the Wencheng High-Mountain Fruit and Vegetable Agricultural Science and Technology Park stands as a testament to the power of strategic collaboration and is expected to continue playing a key role in shaping the future of agricultural practices in the region.

4.2. Scientific Research Achievements Highlight Innovation

The implementation of the "Party Building Leading Scientific Research and Innovation Initiative" has yielded substantial breakthroughs, with Party member experts leading and securing two major scientific and technological innovation projects in Wenzhou City. These projects account for 45% of the total number of approved projects in the five mountainous counties of Wenzhou. One of the notable breakthroughs involves the development of the "Jinyutian No. 6" fresh sweet corn variety, which achieved the highest recorded yield per acre in Zhejiang during the summer harvest, setting records both for general crops and within a 100-acre block. This remarkable achievement has been widely recognized as a pioneering success in agricultural science, marking a significant milestone in the region's agricultural productivity. Furthermore, at the Second National Yam Industry Development Conference, the Wencheng Academy presented two key innovations: the "Wencheng Purple Glutinous Yam" and the "Application of Fully Biodegradable Mulch in Glutinous Yam Cultivation." These innovations were awarded two gold medals in the categories of "Yam Variety" and "Yam Innovation Technology," underscoring the excellence of both research and practical application. In 2025, the Academy was selected for a prestigious project under Zhejiang Province's Major Science and Technology Plan, further reinforcing the strength of Party-led scientific research and innovation. The successful development of these technological advancements not only highlights the profound impact of Party leadership in fostering scientific breakthroughs but also aligns with the broader regional strategy of integrating Party building with technological progress to support rural revitalization and agricultural innovation.

4.3. Industrial Promotion Achieves Tangible Results

The establishment of the "Technology Service +" industrial promotion system has

been a crucial element in advancing the efficient transformation of technological achievements into tangible outcomes. This system integrates several models, such as “expert teams partnering with enterprises,” “technology commissioners providing on-site services,” and “doctoral innovation workstations.” These models are designed to ensure the seamless transition of scientific innovations into practical, implementable results. Over the past three years, Wencheng County has seen considerable progress in promoting its key agricultural industries. Notably, the county's new varieties of glutinous yam, “Wen Nuo No.1” and “Wen Nuo No.2,” have been cultivated over 2,200 mu, while the new sweet corn varieties, “Jin Yu Tian No.2” and “Jin Yu Tian No.6,” have been successfully grown across more than 2,000 mu. In addition, more than 1,000 farmers have undergone training, and over 50 agricultural enterprises have benefited from this initiative. This comprehensive service chain, which includes “technical training-demonstration planting-production and marketing connection,” effectively boosts agricultural efficiency and increases farmers’ incomes. By establishing a full-cycle support system, the initiative not only accelerates the dissemination of agricultural technologies but also ensures the sustained growth and development of the farming sector, significantly contributing to the prosperity of rural communities.

5. Lessons and Insights: The “Wencheng Model” for Rural Revitalization Under Party Leadership

5.1. Strengthening Party Leadership to Build Organizational Support

The Wencheng Model for rural revitalization exemplifies the vital role of Party leadership in driving sustainable rural development. A key component of this model is the establishment of a “Party Branch + Technology Commissioner” dual-drive mechanism, which integrates Party organizations directly into the core of local industrial chains. This mechanism strategically reinforces the influence of Party leadership at the grassroots level, ensuring it plays a pivotal role in agricultural and industrial practices. The deployment of technology commissioners at the forefront of agricultural and industrial projects introduces specialized technical guidance that is essential for the region’s development. These commissioners act as catalysts for local growth, linking advanced technological insights with practical applications in the field. This process creates a robust and interconnected work chain, marked by the symbiotic relationship of “Party leadership-technology empowerment - community involvement.” The synergistic nature of this model ensures that all steps are aligned and mutually reinforcing, driving the collective effort toward rural revitalization. By embedding Party committees within the industrial structures, this model not only strengthens the organizational presence of the Party but also ensures that Party leadership is integral to shaping the direction of agricultural and technological progress. Technology commissioners, situated at key project sites, establish direct links between scientific knowledge and local practices, facilitating effective knowledge

transfer and practical application. Their role as both technical advisors and community organizers fosters a culture of knowledge-sharing and self-sufficiency. This collaborative model promotes active participation from farmers, local communities, and other stakeholders, enabling them to contribute to decision-making processes. This inclusivity ensures that rural development is not just a top-down process but one driven by grassroots engagement and innovation.

5.2. Driving Innovation to Build a Dual-Engine System

The Wencheng Model underscores the importance of leveraging technological innovation to drive rural industrial growth. To achieve this, the Academy partnered with twelve specialized research teams to form a dedicated industrial technology task force, aimed at addressing the specific needs of local industries. This task force played a critical role in building a service model that integrates demand identification, R&D, and the demonstration and promotion of technological innovations. Through this approach, the Academy successfully facilitated the transformation and application of 15 key technological breakthroughs across various sectors. These innovations not only resolved specific technological bottlenecks but also created a multiplier effect, fueling the modernization of local industries. Each breakthrough spurred further technological adoption, leading to improvements in productivity, competitiveness, and overall industry efficiency. By aligning cutting-edge technology with the immediate needs of local industries, this model illustrates the powerful ripple effect that targeted innovation can have on driving economic and industrial growth. This innovation-driven dual-engine system has been instrumental in propelling local industries towards modernization and sustained prosperity.

5.3. Strengthening Benefit Linkage to Ensure Inclusive Development

A central innovation of the Wencheng Model is the implementation of the "Party Organization + Enterprise + Cooperative + Farmer" interest community model. This model ensures that the growth of industrial value directly translates into tangible benefits for farmers, bridging the gap between economic development and rural welfare. Key mechanisms, such as equity-based cooperation and technology trusteeship, guarantee that the value-added profits generated throughout the industrial chain are effectively channeled back to the farmers, who remain the primary stakeholders. Technology Commissioners (STCs) play an essential role within this framework, acting as technical advisors and market intermediaries. In their advisory capacity, STCs provide farmers with essential guidance on modern farming techniques, helping them improve productivity and overcome technological barriers. Simultaneously, STCs also facilitate market access, assisting farmers in negotiating favorable contracts and connecting them with enterprises that can enhance the commercialization of their agricultural products. This dual role of the STCs helps farmers not only advance their technical capabilities but also integrate into the broader agricultural market. By establishing a model of shared benefits, the inter-

ests of Party organizations, enterprises, cooperatives, and farmers are aligned, ensuring a collaborative approach to rural development. The value-added profits along the industrial chain are reinvested into the community, creating a sustainable ecosystem that maximizes both economic and social benefits. Through this integrated approach, the Wencheng Model ensures that rural revitalization is not just about industrial growth, but also about improving the living standards of the farmers at its heart.

5.4. Long-Term Empowerment to Cultivate Endogenous Power

Sustainable rural development requires more than immediate intervention—it demands the creation of long-term capacity within the community. To address this, the Wencheng Model incorporates a "Party Member Expert-led Local Talent Cultivation" mechanism and a "Stronger Village Supporting Weaker Village" support system. These initiatives are designed to foster a self-sustaining, innovation-driven talent pool capable of adapting to the evolving needs of the local industries. The "Party Member Expert-led Local Talent Cultivation" mechanism is central to this approach. Party members, as experts in their respective fields, are embedded within rural communities where they provide direct mentorship and guidance to local farmers and emerging talents. This model emphasizes not just the transfer of technology, but the cultivation of a local workforce capable of solving agricultural challenges independently. By empowering local residents with technical expertise and problem-solving skills, this mechanism ensures that the community can sustain its development without relying on external support. The "Stronger Village Supporting Weaker Village" system fosters mutual aid between villages of varying economic and technological levels. More developed villages extend their resources, knowledge, and expertise to those that are less developed, creating an interconnected network of villages that collectively overcome common challenges. This mutual support network promotes more equitable development, ensuring that no village is left behind in the modernization process. Together, these initiatives break the cycle of underdevelopment and technological stagnation, empowering rural communities to resolve both immediate challenges and build a foundation for long-term growth. This holistic strategy integrates Party leadership with grassroots innovation, creating a resilient and self-reliant rural economy capable of thriving in the face of modern challenges.

5.5. Deepening Talent Sinking to Activate Science and Technology Potential

The "Red Technology Vanguard" deployment mechanism is a key innovation in the Wencheng Model, designed to enhance the impact of technology commissioners by embedding them directly within rural townships and key industrial sectors. This mechanism follows a full-cycle service model that includes demand matching, R&D, and results transformation, ensuring that technological solutions address key agri-

cultural challenges through hands-on, integrated support. Technology commissioners embedded at the grassroots level strengthen the connection between academic research and its practical application. They work closely with farmers, facilitating continuous feedback loops that ensure technological solutions are contextually appropriate and immediately applicable. This model has led to the training of 120 local agricultural technicians through innovative approaches such as "field-based classrooms" and "mentor-mentee pairings." These training initiatives have created a strong, locally-driven agricultural workforce, equipped with the knowledge and skills needed to propel rural development. As a result, 15 significant technological breakthroughs have been successfully translated into practical outcomes, leading to measurable improvements in agricultural productivity and sustainability. Innovations in farming techniques, crop cultivation models, and sustainable practices have become standard practices in the region. The training system has also fostered the development of a "technology workforce that stays rooted in the community," ensuring that knowledge is passed on and agricultural advancements are sustained over the long term. The long-term impact of this approach is reflected in the "one person, one skill, one industry" model, which drives economic growth and technological innovation across rural areas. By embedding skilled individuals within their local communities, the Wencheng Model not only addresses immediate agricultural issues but also ensures sustainable, long-term support for rural revitalization.

6. Conclusion

Standing at the new starting point of being selected as a provincial-level agricultural science park, Wencheng Academy of Agricultural and Forestry Sciences will continue to focus on modern agriculture and wellness industry transformation. By deepening "technology promotion demonstration + talent gathering" strategies, connecting "Party Building Chain" with "Talent Chain," "Innovation Chain," and "Common Prosperity Chain," it aims to explore new replicable, scalable pathways for rural revitalization in mountainous areas. The Wencheng experience serves as a vivid, practical sample of how Party-led innovation and collaboration can sustainably drive rural prosperity in less developed regions of China, offering valuable lessons for broader rural revitalization practices globally.

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