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The Influence of Scientific and Technological Innovation on The Sustainable Development of Yunnan Economy

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Abstract: Focusing on sustainable economic development requires us to change the pattern of economic growth, rely on scientific and technological innovation, improve the quality of economic development and raise the level of economic development. Taking Yunnan province as the object, this paper fully expounds the current situation of scientific and technological innovation and its sustainable economic development, as well as the application practice of scientific and technological innovation on agricultural economy, green new energy industry economy and ecological culture tourism industry economy, and analyzes the influence of scientific and technological innovation on the economic development of Yunnan Province.

Keywords: Scientific and technological innovation; Yunnan; economic development; Sustainable development; Influence.

1. Introduction

Sustainable development is proposed in response to the changes of The Times and the needs of social and economic development. This paper briefly introduces the definition of sustainable development and the content of sustainable development focusing on economic aspects. Science and technology is one of the main foundations of sustainable economic development, and the realization of the goal of sustainable economic development depends on high-level science and technology and scientific and technological innovation. The role of scientific and technological innovation in the sustainable development of agricultural economy, green new energy industry economy and ecological culture tourism industry is in many aspects. This paper analyzes the application status of scientific and technological innovation in agriculture, new energy industry and cultural tourism industry, as well as how scientific and technological innovation affects industrial production and promotes the sustainable development of industrial economy. To sum up, scientific and technological innovation can effectively provide the basis and means for the decision-making of sustainable economic development, and promote the improvement of the management level of sustainable economic development.

2. Economy and Sustainable Development

2.1. Definition and classification of sustainable development

Development is the premise of sustainable development, and sustainable and long-term development is the real development. The sustainable development of the definition refers to "can meet the needs of the contemporary, and not the ability of offspring to meet the needs of the development of harm", similar to the definition and the former Chinese President jiang zemin definition: "sustainable development, is to consider the needs of the current development, and to consider the needs of the future development, don't at the expense of the interests of the generations to meet the interests of the contemporary people".

Because the researchers stand the perspective, the scientific definition of sustainable development is different, the definition of sustainable development is divided into "focus on the natural definition of sustainable development", "focus on social definition of sustainable development", "focus on economic definition of sustainable development" and "focus on the sustainable development of science and technology definition" four aspects. This paper mainly focuses on the content of sustainable development, "economic sustainable development", and discusses the impact of scientific and technological innovation on economy and sustainable development.

2.2. Focus on sustainable economic development

In his book Economy, Natural Resources: Deficiency and Development, Edward B Barbil defined sustainable development as "increasing the net benefits of economic development to the maximum on the premise of maintaining the quality of natural resources and the services they provide". Pierce believes that "sustainable development is that today's use should not reduce the actual future income", and "when development can keep the welfare of contemporary people increase, it will not reduce the welfare of future generations. "WRI (1992) believes that sustainable development is an economic development that does not reduce the environmental quality and does not damage the world's natural resource base.

With the concept of "sustainable development" define the nature of the "economic system", requires us to change the mode of economic growth, while maintaining the rapid economic growth, relying on the progress of science and technology and improve the quality of workers, constantly improve the quality of development, embodies the we have to establish the economic system is in harmony with nature, society, with long, active development ability.

2.3. Sustainable development of science and technology systems

"Sustainable development is shifting to cleaner, more

effective technologies as close as possible to zero emissions or seals, and to reducing the consumption of energy and other natural resources as much as possible. "Science and technology is one of the main foundations of sustainable development. Without the support of a high level of science and technology, the goal of sustainable development cannot be achieved. The role of science and technology for sustainable development is various, it can effectively provide the basis and means for sustainable development decisions, promote the sustainable development of management level, deepen the understanding of human to the relationship between man and nature, expand the supply of natural resources, improve the efficiency of resource utilization and economic benefits, provide effective means to protect the ecological environment and control environmental pollution.

3. Status Quo and Analysis of Yunnan Economy and Sustainable Development

3.1. Current Situation of Economy and Sustainable Development in Yunnan

In the first three quarters of 2021, the economic operation of Yunnan province is as follows. The overall economy of Yunnan has maintained a recovery trend, with the regional GDP of 1960776 billion yuan, up 8.9% year on year. Among them, the agricultural production situation is good, and the total output value of agriculture, forestry, animal husbandry and fishery is 379.910 billion yuan, up 12.6% year on year. Industrial production increased steadily, and the added value of industrial enterprises above designated size increased by 10.7% year on year. Energy security was allocated in an orderly manner, and electricity generation and electricity consumption increased by about 10% year on year. Market consumption continued to grow, and the total retail sales of consumer goods reached 782.855 billion yuan, up 12.1% year on year. Investment in fixed assets increased steadily, increasing by 8.2 per cent year on year. Foreign trade grew rapidly, and the total volume of import and export of trade in goods reached 224.110 billion yuan, up 37.7% year on year. Government revenue and expenditure were stable, and revenue in local general public budgets reached 164.233 billion yuan, up 5.6%.

3.2. Analysis of Yunnan Economy and Sustainable Development

In the past year, the economic development of Yunnan Province has shown initial results, showing a steady growth attitude. A lot of work has been done in the implementation of economic policies and the acceleration of project construction, and the results deserve full recognition. However, Yunnan province needs to make full use of policy resources, combine investment attraction with industrial development, industry-city integration, and technological breakthroughs, and continuously extend the green energy-carrying industry chain. We will create a favorable development environment, strengthen communication and cooperation between regions, departments, government and enterprises, and form joint efforts to ensure that the green energy industry develops in a more standardized, orderly, coordinated, healthy and sustainable way.

As an underdeveloped province, the reality of "weak foundation" and "weak foundation" in science and technology has not been changed fundamentally. The shortcomings of scientific and technological innovation and human resources are prominent, and its innovation ability does not meet the requirements of high-quality development. Also need to carry out the new development concept, need to promote scientific and technological innovation as the core of comprehensive innovation, in the 123 industry skip mid-range, directly into the high-end ranks provide strong power, the real scientific and technological innovation into the all aspects of the province's economic and social development, each link, innovation development concept leading high quality development practice, so as to promote the sustainable economic development in Yunnan province.

4. Status Quo and Analysis of Scientific and Technological Innovation in Yunnan Province

4.1. Current situation of Science and technology innovation in Yunnan

During his visit to Yunnan in 2015, General Secretary Xi Jinping stressed that efforts should be made to improve the innovation capacity. During his visit to Yunnan in 2020, he once again stressed the need to strengthen innovation guidance. The spirit of General Secretary Xi Jinping's important speech profoundly clarified the important role of scientific and technological innovation in Yunnan's high-quality development in the new era."The CPC Yunnan provincial party committee of Yunnan province national economic and social development and 235 years vision advice", points out that adhere to the innovation in the core position of the global modernization construction, strengthen the construction of regional innovation system, strengthen the enterprise innovation main body status, improve the mechanism of science and technology innovation system, stimulate talent innovation vitality.

Since the 13th Five-Year Plan,Yunnan province attaches great importance to scientific and technological innovation, deeply implements the innovation-driven development strategy, continuously strengthens the strength of scientific and technological innovation, and further enhances its position in the national innovation map,We have basically completed the main goals and tasks set out in the 13th Five-Year Plan, laying a solid foundation for the development of scientific and technological innovation in the next five years.

Scientific and technological innovation has reached a new level, and science and technology have played a more prominent role in supporting industrial transformation and upgrading. We focus on the development of eight key industries, building a world-class "three cards", and building a "digital Yunnan". Science and technology innovation platforms (carriers) have been strengthened, the training and introduction of scientific and technological personnel have been continuously strengthened, basic research in competitive areas has been fruitful, the innovation ecology has been increasingly improved to improve people's well-being, and contribute to high-quality and sustainable development of the economy.

4.2. Analysis of Yunnan Science and Technology Innovation

Globally, the world today is undergoing profound changes unseen in a century, and a new round of scientific and

technological revolution and industrial transformation are undergoing deeply integrated development. Cutting-edge leading technology and disruptive technological innovation are shaping new economic forms, and technology brings great opportunities and major risks. The global science and technology governance system and science and technology rules are being restructured, and competition in major countries is intensifying, and scientific and technological innovation has become a key variable in reshaping the international landscape. China's economic and social development and the improvement of people's livelihood need scientific and technological solutions more than ever before, and we need science and technology to play a more critical and stronger supporting and leading role.

From the perspective of Yunnan Province, the province's economy and society are in a period of historical opportunity for rapid development, and they are in a critical period of seeking power and solutions from science and technology. Scientific and technological innovation faces a series of new situations, new requirements and new tasks. We should deeply understand and implement the requirements of "the more underdeveloped areas, the more need to implement the innovation-driven development strategy", correctly understand and grasp the position and role of Yunnan scientific and technological innovation in the overall situation of national innovation and the overall development of the province. Based on the new stage of development, the need to adhere to innovation in the core position of the global socialist modernization construction, comprehensively promote scientific and technological innovation management system and management ability, facing major national demand, in the field of national science and technology independent self-improvement contribution to Yunnan scientific and technological innovation fully integrated into the province's economic and social development, each link, provide support for the province's high quality development.

5. The Role of Yunnan's Scientific and Technological Innovation in Promoting Sustainable Economic Development

5.1. Analysis of the status quo of scientific and technological innovation of characteristic agriculture and green production

In order to ensure food security and build a world-class "green food brand", Yunnan province has continued to make efforts in the fields of biological breeding, green and efficient production, agricultural ecological security and smart agriculture, conquering a number of key core technologies and integrating and applying a number of advanced practical achievements.

In the aspect of biological breeding, a batch of breakthrough new series of new varieties with high quality and high yield, multiple resistance and wide adaptability, to meet the needs of mechanized planting and cultivation, light and simplified cultivation and industrial integration development. Allocation innovative resources around the whole chain of genetic resources mining, variety creation, seed breeding, seed processing, pilot scale and industrialization, and strive to build a modern seed industry innovation system.

In terms of green efficient production, focusing on agricultural production area layout, production mode innovation, agricultural branding key link of science and technology innovation demand, to adapt to the different regional characteristics of efficient planting breeding new technology, new model research and integrated demonstration, promote production ecological synergy, build green production efficiency comprehensive technology system, promote the development of agricultural green organic.

In terms of agricultural ecological security, around the green, ecological, efficient, high quality, safe development needs, strengthen the green technology research, to crack restricting the sustainable development of agriculture in Yunnan province, to promote agricultural regional comprehensive treatment, the development of green efficiency, product safety, resource saving, environment friendly plateau characteristics of modern agriculture to provide technical support.

5.2. Agricultural science and technology innovation and its impact on sustainable economic development

Science and technology can support rural revitalization, accelerate the establishment of a scientific and technological innovation and service system that fully supports agricultural and rural modernization, give priority to improving the transformation of scientific and technological achievements in ethnic counties and townships, strengthen the supply level of scientific and technological innovation in agriculture and rural areas, and promote high-quality and efficient agriculture, livable and working villages, and rich and prosperous farmers. Scientific and technological innovation makes the rural industry efficiency, speed up the transformation and application of a batch of new varieties, new technologies, new products and other advanced scientific and technological achievements, the construction of a batch of rural characteristic industry technology leading demonstration county, township, village, improve agricultural production capacity, industrial development efficiency and efficiency, improve the added value of agricultural products, promote the development of rural industry. We will develop green agriculture, ecological agriculture, and circular agriculture.

In agricultural scientific and technological innovation, not only promote varieties, quality improvement, branding and standardized production, also improve the level of food in Yunnan province and self balance ability, for plateau characteristics of modern agriculture development to provide high level of science and technology supply, promote the development of economy in Yunnan province, provides an important guarantee for economic sustainable development.

5.3. Analysis of the innovation status of green energy and advanced manufacturing technology

Yunnan province, in accordance with the "scenery water storage integration" can complementary layout requirements, strengthen hydropower, wind power, photovoltaic, petrochemical, energy development, as well as energy storage key technology research, promote green energy and green manufacturing industry chain depth fusion, extend energy industry chain, strengthen the smart grid technology research, to build a world-class "green energy brand" to provide science and technology support.

Yunnan province takes the development of high-efficiency

photovoltaic module manufacturing technology and product innovation as the starting point, and extends the industrial chain to the research and development and application of new cell technology through industrial silicon materials, photovoltaic silicon materials, efficient preparation technology and equipment research and development. Qujing Development Zone in Yunnan Province makes great efforts to build the world's "photovoltaic Capital".

Clean low carbon safe and efficient coal technology research and development and application, around the non-ferrous metals, ferrous metals, rare metals, chemical materials, strive to break through a batch of key core technology, develop a batch of independent intellectual property rights of equipment and products, promote the alloy functional materials, rare metals new functional materials, green aluminum, green building materials and other new materials industry towards the high-end. To meet the needs of scientific and technological innovation such as advanced equipment manufacturing and intelligent manufacturing, we will carry out key technology breakthroughs, integrated research, achievement transformation and industrialization demonstration and application, promote intelligent manufacturing models, and build networked, intelligent and green production systems.

5.4. Current situation of new energy technology innovation and its impact on sustainable economic development

Yunnan's development, economic growth and energy growth are synchronized, and we are in the opportunity period of the transformation from traditional energy to green and new energy. The substantial transformation of energy, green and low-carbon development, clean energy, ground source heat pump and other kinds of clean energy have begun to take action in all walks of life. In the specific work, it is necessary to continuously carry out technological innovation, actively introduce new technologies, strengthen the application of new technologies in production, deepen the requirements for green and low-carbon economic development, and actively implement them, so as to promote the sustainable development of China's economy.

The ability of scientific and technological innovation in Yunnan province is constantly progressing, and the level of scientific and technological innovation is also constantly improving. Scientific and technological progress has brought us hope. We have made breakthroughs in the development of green new energy and advanced manufacturing technology, complementarity in diversified energy system, distributed renewable energy, green and clean energy such as hydrogen energy, carbon dioxide utilization and improvement of energy efficiency. We will fully implement the strategy of sustainable development, build green and ecological progress, and promote the comprehensive green transformation of the economy and society. In order to continuously promote green, low-carbon and sustainable development, people in Yunnan are increasingly aware that the economic development model needs to be adjusted, and it is clear that to maintain the sustainable economic development of Yunnan province, it is necessary to achieve low carbon and green.

5.5. Analysis of the status quo of ecological civilization and cultural tourism scientific and technological innovation

Facing the demand of more and more popular tourism, in order to realize the coordinated development of economic and environmental protection, Yunnan discusses about innovation ecological tourism and cultural tourism economic sustainable development measures, put forward the innovation cultural tourism landscape elements, innovation ecological characteristic product selection and ethnic minority culture customs creative Suggestions. Innovation ecology, the construction of the center of cultural tourism is building tourism, culture, ecological planting industry into the service mode, the model into the diversified characteristics of innovation elements, according to the demand into innovative service elements, highlights the sustainable development of innovative ecological tourism, creative cultural tourism goals, enhance the value of cultural tourism.

According to the statistics of Yunnan tourism development, Yunnan has more than 350 cultural tourist attractions, mainly rural natural landscape and cultural landscape. With innovative tourism modes, taking into account the depth of play and enabling the tourists to get the best experience, Yunnan has created an "experiential" ecological tourism industry model, guiding the masses to carry out the process of planting vegetables, hands-on experience and agricultural farming, so as to meet the tourists' immersive tourism experience. With the local ethnic minority culture as the carrier, the characteristic cultural experience is integrated into the cultural experience of tourist activities. There are also ecological tourism villages with "one village one product, one township one special" as the characteristics and traditional dwellings as the main body, which make ethnic cultural tourism more attractive. It shows "innovative" elements, understands people's needs for clothing, food, housing, transportation, entertainment and leisure, and combines the characteristics of local ecological agriculture, local customs as well as the characteristics of local ecological tourism and natural landscape, so that tourists can feel the charm of Yunnan regional culture.

5.6. Current situation of ecological culture and tourism technology innovation and its impact on sustainable economic development

Yunnan ecological culture tourism is the sustainable development of "nature and nature" for the concept, to protect and restore native natural resources, protect and rescue the local traditional national culture resources as the premise, improve the local people's living environment, improve the environmental quality of residents, realize the ultimate goal of harmonious coexistence between man and nature of sustainable tourism form.

The multi-ethnic cultural characteristics and cultural deposits in Yunnan region are the important factors to attract tourists to come and watch. With unique national customs, cultural characteristics and regional environment as a whole, the regional culture and national characteristics into the scenic area development, development characteristic, innovative tourist routes, meet the needs of tourists diversification and personalized, enrich the connotation of the scenic spot, adjust measures to local conditions to dig the region unique tourism resources, truly realize the sustainable development of rural

tourism.

Development of cultural tourism innovation industry, is an important means to help achieve economic development in Yunnan, ecological cultural tourism with sustainable development as the concept, fully the tourism resources development, ecological environment protection and regional economic development, pay attention to play innovation comparative advantage, improve the system measures, innovation methods, accelerate the innovation brigade industry development, promote the optimization and upgrading of brigade industry, the Yunnan green resource advantage into green industry and economic development advantage. The development of ecological tourism is an important measure for Yunnan to transform the clear waters and green mountains into golden mountains and silver mountains and build the vanguard of ecological civilization, so as to realize the leapfrog development of innovative ecological tourism and innovative cultural tourism in Yunnan.

6. Conclusion

Through the analysis of the current situation of scientific and technological innovation in Yunnan and the sustainable development of Yunnan economy, we can draw the conclusion that scientific and technological innovation plays a role in promoting the sustainable development of economy. Yunnan focuses on the major scientific and technological needs of building world-class "three cards" and "digital Yunnan", making breakthroughs in key core technologies of industries, reshaping new advantages of pillar industries, and speeding up the construction of a modern industrial system. We should adhere to the concept that scientific and technological innovation benefits the people, take improving people's livelihood as the starting point and goal of scientific and technological innovation, widely apply innovative achievements to the people's production and life, use science and technology to improve people's livelihood, improve people's quality of life, and constantly meet people's yearning for a better life.

Scientific and technological innovation, as an inexhaustible driving force to promote sustainable development, in fact, the fundamental solution to many unsustainable problems depends on the breakthrough and innovation of science and technology. The economy and society of Yunnan province is in a period of historical opportunity for rapid development, and it is a critical period of seeking power and solutions from science and technology. Correctly understand and grasp the status and role of Yunnan scientific and technological innovation in the overall economic development of the province, based on the new development stage, comprehensively promote the promotion of scientific and technological innovation level and scientific and technological innovation ability to make contributions to the national scientific and technological self-reliance in the field of advantages and characteristics, and provide strong support for the high-quality economic and social development of the province.

Sustainable economic development is conducive to promoting the transformation of the economic growth pattern from extensive to intensive growth, and coordinating economic development with population, resources and the environment. It is conducive to the sustained, stable and healthy economic development and the improvement of people's living standards and quality.

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