



Photo courtesy of FAFU



Juncao Value Chain Development

Juncao Technology

Juncao technology is a unique technology developed in China by "substituting grass for wood" to breed edible and medicinal fungi. Juncao is also used to raise livestock and protect environment. This technology has realized the comprehensive and efficient utilization of the three major agricultural resources of light, heat and water, and attained cycle production of plants, animals and fungi.

Juncao technology has been taken to over 100 countries and improved the living standard of the local people. It has made important contributions to facilitating SDGs achievement including poverty alleviation, energy cleaning, gender equality and ecological diversity.

Over the past 20 years, Juncao technology demonstration bases were set up in 13 countries in Asia, Africa and Latin America, providing thousands of green jobs especially for young people and women and improving smallholders' lives.

WFP China COE's Engagement

Juncao value chain is one of main themes for WFP Centre of Excellence for Rural Transformation (China COE) to share China's experience and expertise through South-South Cooperation. In collaboration with Fujian Agriculture and Forestry University, an online workshop and a virtual tour were held to introduce this technology improving climate change resilience in other developing countries.

Source: Ministry of Foreign Affairs of the People's Republic of China

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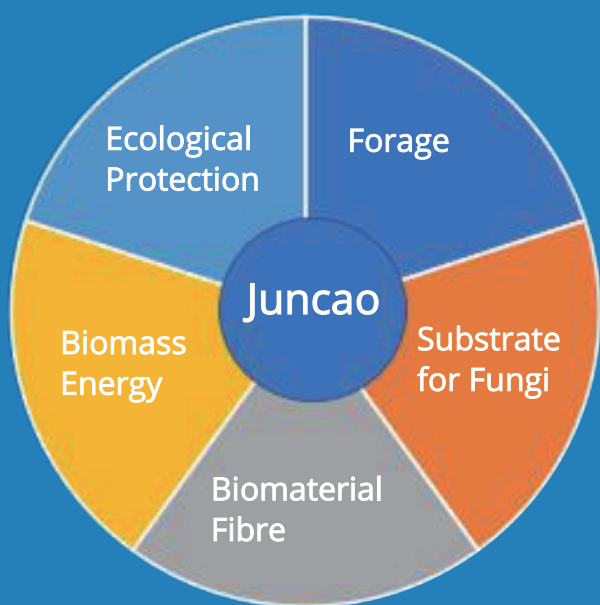
Multifunctional Juncao

Ecological Protection

Juncao Technology could be applied for ecological protection. It has contributed to alleviating soil erosion, rocky desertification, and saline and alkaline land.

Forage

Juncao could be used as the forage for a variety of livestock, including cattle, sheep, pigs, etc. High-quality and high-protein microbial forage can also be produced by some fungi after fermentation.



Biomass Energy

Giant Juncao, a kind of Juncao grass, can be widely used as biomass energy to tackle the energy constraint problem and to protect the environment.

Biomaterial Fibre

Some kinds of Juncao can be used as biomaterial or fibre. It can work as a raw material in non-wood fibre pulp and paper making.

Substrate for Fungi

Mushrooms can be cultivated with Juncao instead of wood. Compared with traditional mushroom technologies, this technology supports cultivating mushrooms with higher quality.

Juncao Technology in China

* Xinjiang Case

The smallholder cooperatives in Yushugou Village, Xinjiang started to run the Juncao business while farmers' arable lands were reduced. Juncao cultivation increases smallholder farmers' income, supports local animal livestock development, strengthens the rural collective economy, and improves the ecological environment including soil erosion control and desertification prevention. It also benefits the local labour market.



* Inner Mongolia Case

More than 3000 acres of giant Juncao were planted on the flood land and the park sand in Dengkou county, Inner Mongolia. It is of great assistance of controlling sandy land and ecological barrier slope protection. It also provides a scientific basis and practical technology for the construction of the Yellow River Basin improving the resilience of climate change.



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