



**STRENGTHENING INTERNATIONAL COOPERATION
IN BAMBOO DEVELOPMENT
IN THANH HOA PROVINCE VIET NAM**

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CONTENTS

- 1. Introduction of Thanh Hoa province**
- 2. Bamboo in Thanh Hoa province**
- 3. Proposal in cooperation of bamboo development in Thanh Hoa province**
- 4. Commitment of Thanh Hoa province**



1. THANH HOA PROVINCE

- Thanh Hoa province is located in the North of Vietnam, it is far from Hanoi 150 km to the south.
- Thanh Hoa province is third biggest in Vietnam, smaller only than Hanoi capital and Ho Chi Minh city, the population is 3.5 millions and the total area is more than 11.000 km².





2. BAMBOO IN THANH HOA PROVINCE

Thanh Hoa has bamboo area is biggest of Vietnam, with total area is 150.000 ha, of which 71.000 ha of bamboo plantation with reservation about 125 million stems



**Luong bamboo forest
in Thanh Hoa province**



2. BAMBOO IN THANH HOA PROVINCE

- In Thanh Hoa province, bamboo was determined as:
 - + A major plant for economic development of mountainous district in the West region of the province;
 - + A plant for environment protection, soil conservation and climate change reduction.
 - + Income from Luong bamboo is accounting for 50% of the total income of farmer, even 70 % - 80% of that in some communes.



Gather and transport by river way



3. BAMBOO PRODUCTS

Industrial processing products



Activated bamboo charcoal



Bamboo flooring



Bamboo pellet



3. BAMBOO PRODUCTS

Handicrafts



Bamboo house and furniture



3. BAMBOO PRODUCTS

Handicrafts



Bamboo art product



Bamboo lights



3. BAMBOO PRODUCTS

Material construction



Luong carbonization



3. BAMBOO PRODUCTS

Material construction



Bamboo house



3. BAMBOO PRODUCTS

Material construction



Bamboo restaurant



3. BAMBOO PRODUCTS

Material construction



Bamboo coffee



3. BAMBOO PRODUCTS

Bamboo shoots



Fresh bamboo shoots



Processing bamboo shoots



4. THE STRENGTHS OF BAMBOO DEVELOPMENT IN THANH HOA PROVINCE

- The provincial government is building the strategic plan of bamboo development for the period 2015-2020, orientations toward 2030 with 4 strategies:
 - *Sustainable development and management on bamboo resource in the province;*
 - *Production and business development on bamboo sector;*



4. THE STRENGTHS OF BAMBOO DEVELOPMENT IN THANH HOA PROVINCE

- *Research and guidelines on current incentive policies and marking policies on bamboo development promotion,*
- *Strengthening international cooperation on bamboo development for the province*



4. THE STRENGTHS OF BAMBOO DEVELOPMENT IN THANH HOA PROVINCE



Workshop on International Cooperation on Thanh Hoa Bamboo Development
Thanh Hoa, 09 – 10 th, September, 2015



4. THE STRENGTHS OF BAMBOO DEVELOPMENT IN THANH HOA PROVINCE

- Building incentive policies to support farmer planting bamboo and bamboo processing industry;
- The raw materials cost and labor cost are cheap, especially in comparison with China.

*Vietnam's raw materials unit cost: 45 USD/ ton
(China: 130 USD/ ton)*

Labor cost in Vietnam: 5 USD/ day (China 17 USD/ day)

- Having priority policies for investors who invest in bamboo processing industry.



5. THE WEAKNESS OF BAMBOO DEVELOPMENT IN THANH HOA PROVINCE

- Bamboo processing industry is under-developed

- **Most of bamboo processing factories in Thanh Hoa province are small scale, processing technologies are backward and the products are the most of raw material and semi-product; so the value of bamboo is very low.**



5. THE WEAKNESS OF BAMBOO DEVELOPMENT IN THANH HOA PROVINCE

- The material utilization rate is low

The average material utilization rate is 25%. Waste volume (volume) is large and is mainly used to make paper pulp, causing environmental pollution.



5. THE WEAKNESS OF BAMBOO DEVELOPMENT IN THANH HOA PROVINCE

The reason is:

- *Lack of investment in engineering and technology,*
- *Lack of finance,*
- *Lack of developing market for bamboo products.*



6. PROPOSALS ON COOPERATION FOR BAMBOO DEVELOPMENT

- **Cooperation in research and transferring of engineering and technology on bamboo cultivation and processing industry**
- **Cooperation in investment in joint venture in processing industry to enhance the added value of bamboo products in Thanh Hoa province**
- **Cooperation in bamboo product market development**



7. THE COMMITMENT OF THANH HOA PROVINCE

- Thanh Hoa province welcome all the scientists, investors to Thanh Hoa province and cooperate in research and investment in bamboo sector.
- Thanh Hoa province is ready to support enterprises and investor to research and invest in bamboo production sector with the most incentive policies about using land, tax, labour, business investment procedure.



I would like to invite all of you to visit our bamboo booth in the International Hall:







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- ❑ Please watching sort video about bamboo potential in Thanh Hoa province.
 - ❑ <https://www.youtube.com/watch?v=svnQg4jh-JY>

The image shows three large, traditional wooden water wheels (nor) arranged in a row along a river. The wheels are constructed from bamboo or wood, with a complex lattice of spokes and a curved frame. They are partially submerged in the water, which is flowing over a rocky bed, creating white foam. The background is a lush, green forested mountain under a clear sky. The text "XIN CHÂN THÀNH CẢM ƠN!" is overlaid in the center in a bold, yellow font.

XIN CHÂN THÀNH CẢM ƠN!