

The 9th International Workshop of the Alumni Network „Education and Technology Transfer“

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small enterprise promotion + training

Topic:

*“Demand for functional foods and opportunities for
business & processing in Vietnam.”*

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- **Full Name** : **MBA Nguyen Kim Lam**
- **Email** : **nguyenkimlam2004@yahoo.co.uk**
- **Cell Phone** : **+84-93574813**
- **Former University:** **Leipzig University**

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Curcumin's using
(From Turmeric's raw)



Pain relief,
Antiseptic.
shorten wound
healing time,
make functional
foods

Weight loss,
better
circulation and
dialysis in
blood, nice skin

Against
bacteria that live
in the intestines,
good for digestive
system

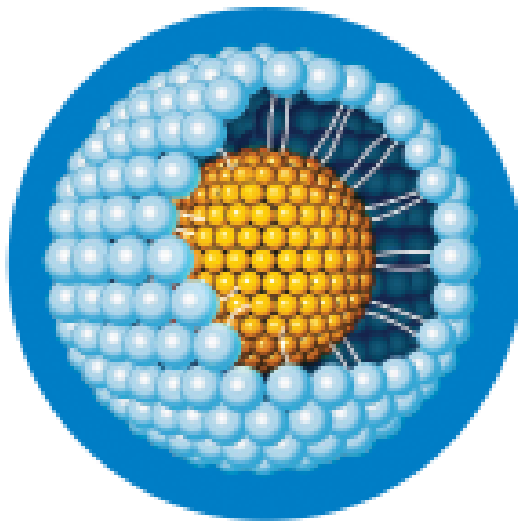
Anti-cancer.
Anti-inflammatory
reduce the risk of
infection, liver
detoxification

Curcumin's using in anti-cancer

Refer to some datas on cancer diagnosis:

a / Vietnam ranked 99/185 countries and territories with cancer incidence of 151.4/100,000 people, ranked 19 in Asia and 5th in Southeast Asia.

b / Germany ranked 15/185 countries and territories with cancer incidence of of 313.1/100,000 people.



Studies show that curcumin controls the proliferation of tumor cells through the regulation of multiple cell signaling pathways including: cell proliferation, tumor suppression, activation of the cell death process. cancer cells.

Curcumin's using
(From Turmeric's raw)



On the other hand,
turmeric's natural
curcumin essence is very
difficult to dissolve in
water.

But Nano-cucurmin is
capable of melting up to
88%.

To get 20grams of curcumin, it takes 5 - 7kg of fresh turmeric. This shows the superior effect of Nano-curcumin products compared to other traditional technology products.

Farmer which benefit:

Cultivation and processing of turmeric starch can bring high income and contribute positively to poverty reduction for farmers.

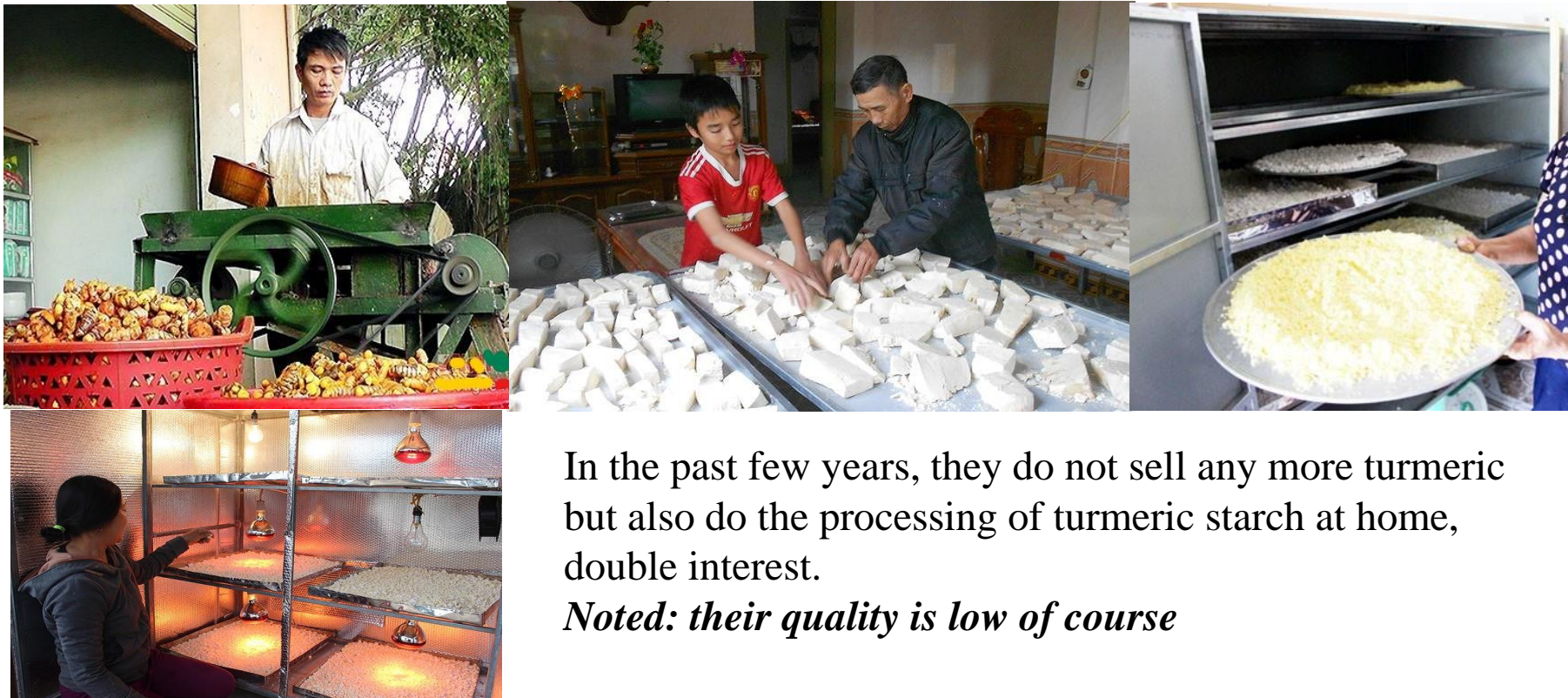


According to Farmers, this occupation is low-investment but high economic efficiency. After deducting costs, interest can be collected on 1500 EUR/ Ha.

If you continue to process turmeric into starch, this income will double. Every year, farmers can have interest approximated is 10,000EUR.

Farmer which benefit:

Many farmers have invested from 1,200 to over 2,000 EUR to purchase and install machinery and equipment such as washing shells, puree grind, extractor, starch making, dryer...



In the past few years, they do not sell any more turmeric but also do the processing of turmeric starch at home, double interest.

Noted: their quality is low of course

Job opportunities



Highlands Vietnam is a region that can take advantage of large areas of bare land and hills to develop turmeric. With 24 million people, mainly ethnic minorities, have a low standard of living, the development of turmeric into one of the region's key crops will contribute to a stable job and to improve the lives of people.

Potential market

1 Turmeric (curcumin) used in Vietnam is mainly imported from India and China with an estimated annual volume of 20-30 tons (equivalent to nearly 90,000 tons of fresh turmeric).

2 Curcumin quality imported is unstable .So many businesses are looking to buy curcumin extracted from the domestic market.

3 Prices of domestic turmeric starch 10-15 EUR/Kg in market now.

Potential market

1 About survey 2018 in 05 provinces in the Central Highlands of Vietnam, confirmed the total area of turmeric to be harvested is not less than 20,000 ha, even though there are not any turmeric processing factories in this area. While Turmeric harvest from March 1-3 / 2018 will harvest a total output of up to 600,000 tons of fresh turmeric.

2 Vietnam's raw turmeric market is very rich. Turmeric is grown and processed a lot in other traditional areas not only in the Central Highlands.

3 But mostly Vietnam has to import quality product 100% from Germany, India, USA ... Farmers face the problem of products they make will be redundant, unmarketable... leading to bankruptcy.



Central Highlands
of Vietnam

Investable opportunities



Really Vietnam is looking for advance technology & capital of high-quality Nano-curcumin processing.

Really demand firms to you have opened up factories of drug and food processing with advanced technology in Vietnam.



Which the great potential of Vietnamese agriculture if applied advanced technology and standards else there are also opportunities for domestic processing as well as export of raw materials.

Investable opportunities

Other chance about Joint Venture Nano-curcumin starch production plant in Vietnam market, if successful Vietnam can reduce imports and lower production costs in market.

So foreign pharmaceutical company will have the strong opportunity to compete with rivals in occupying Vietnam's domestic market.

Good social solution for addressing employment needs and poverty reduction is to increase quality and solve the output for agricultural products in Vietnam.



Notification:

- 1 *The Government of Vietnam is encouraging on the topic: "Building, developing and implementing total solutions for producing high-value products from Vietnamese turmeric for sustainable development in the Central Highlands".*
- 2 *Localization of turmeric products in particular and products from other medicinal plants in general is a very positive direction. However, full initiative from planting to harvesting, processing and consumption requires careful preparation, specific plans and long-term investments.*
- 3 *Vietnam and the United Kingdom sponsored by the British-Vietnam Council are researching and launching a yellow turmeric extract by chemical green technology called Nano-curcumin.*
- 4 *Government and organizations are also allowing research and transferring to farmers the relevant planting and processing technology. But this allow has not reached the required level.*



Notification:

5

*Vietnam - EU Free Trade Agreement (EVFTA)
in 30 June 2019*



- 1/Support to Vietnam EU such as tariff, investment, co-operation...*
- 2/The door for the ASEAN Economic Community (AEC).*

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Vielen Dank für die Aufmerksamkeit!

Thank you for attention!