

Bamboo collection, conservation, computerization and enhancement for sustainable development.

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Viet Nam Bamboo Resources Conservation

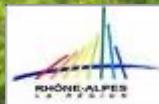
Phu An Bamboo Village
Equatorial Prize 2010 of UNDP
Jardin Botanique Francophone



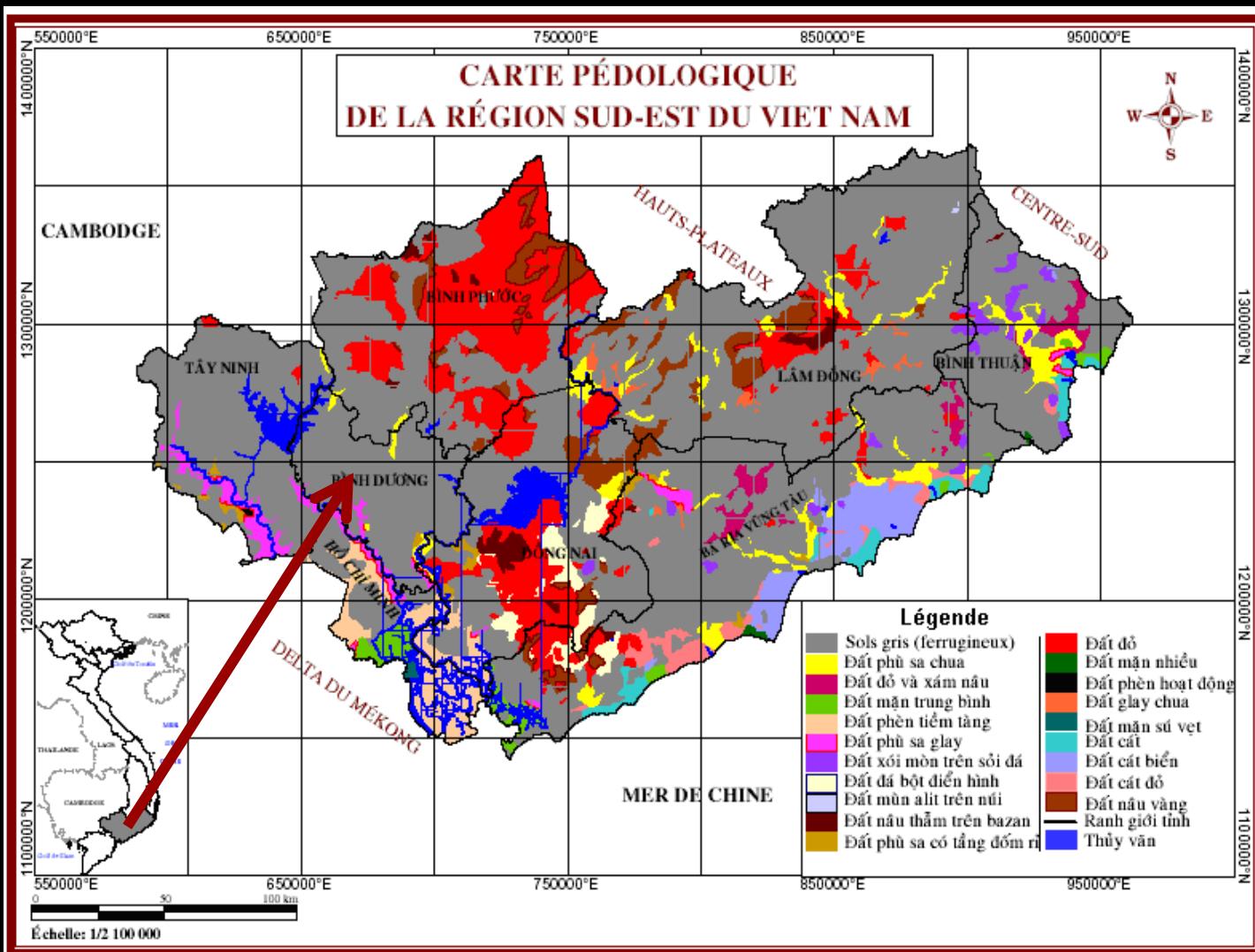
Làng tre Phú An

Village du Bambou de Phu An

Xin chào
Bonjour
Good afternoon



Site of Phu An Bamboo village: in the iron triangle



Village de Phu An situé au bord de la rivière où la biodiversité est restée très riche

Phu An Bamboo Village is located along a river where biodiversity is still abundant

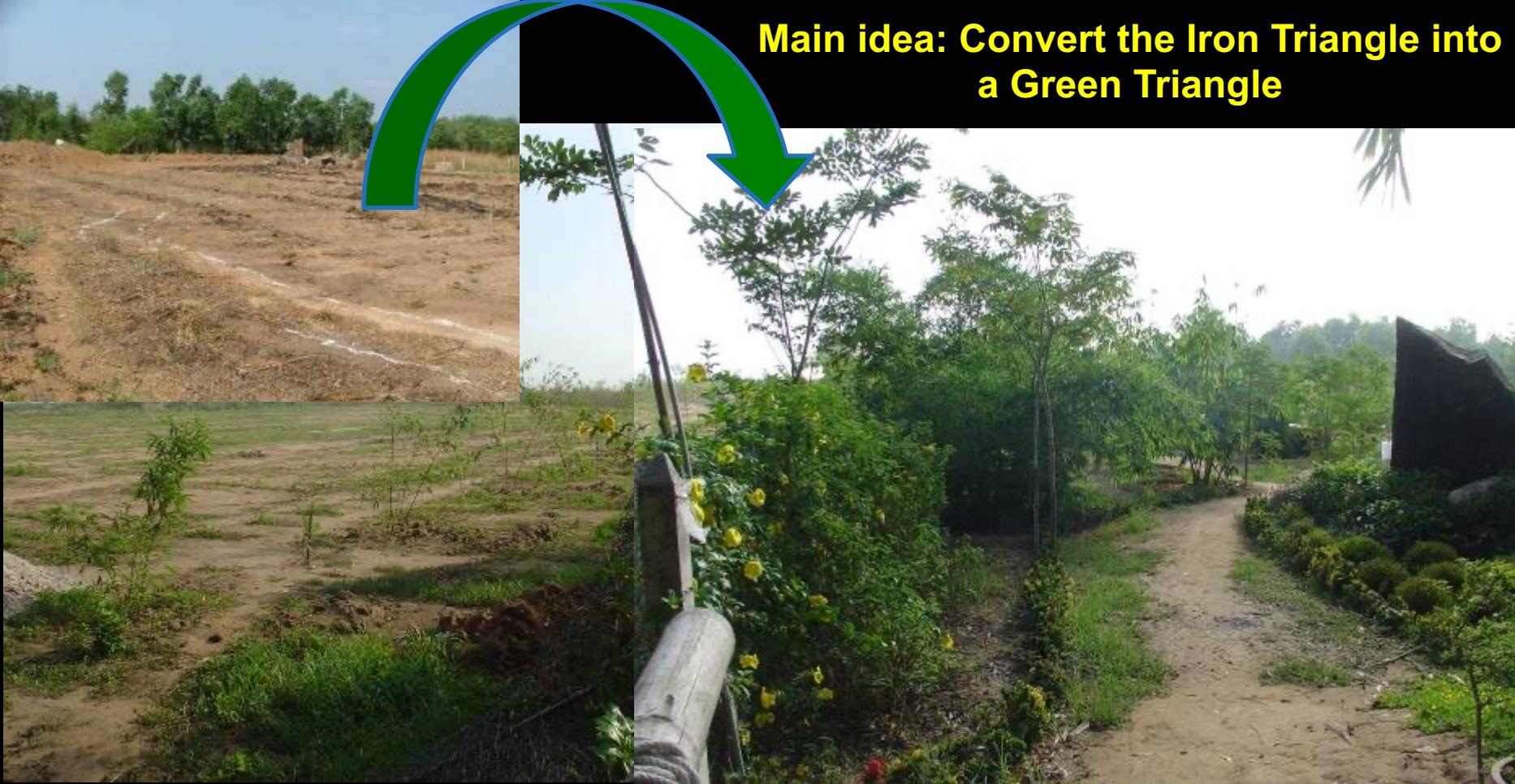


La biodiversité au bord de la rivière : des fleurs de beauté simple mais saisissante

The biodiversity along the river:
flowers with a simply beauty but captivating



Main idea: Convert the Iron Triangle into a Green Triangle



Avant et après l'aménagement du terrain pour transformer le triangle de fer en triangle vert

Before and after planning to convert the Iron Triangle into a Green Triangle

**Changement des conditions sociales:
le conservatoire, un lieu de bien être pour les villageois**

A change in social conditions :

Botanical Conservation – a new look for the community



**Avant
l'aménagement**
Before the planting

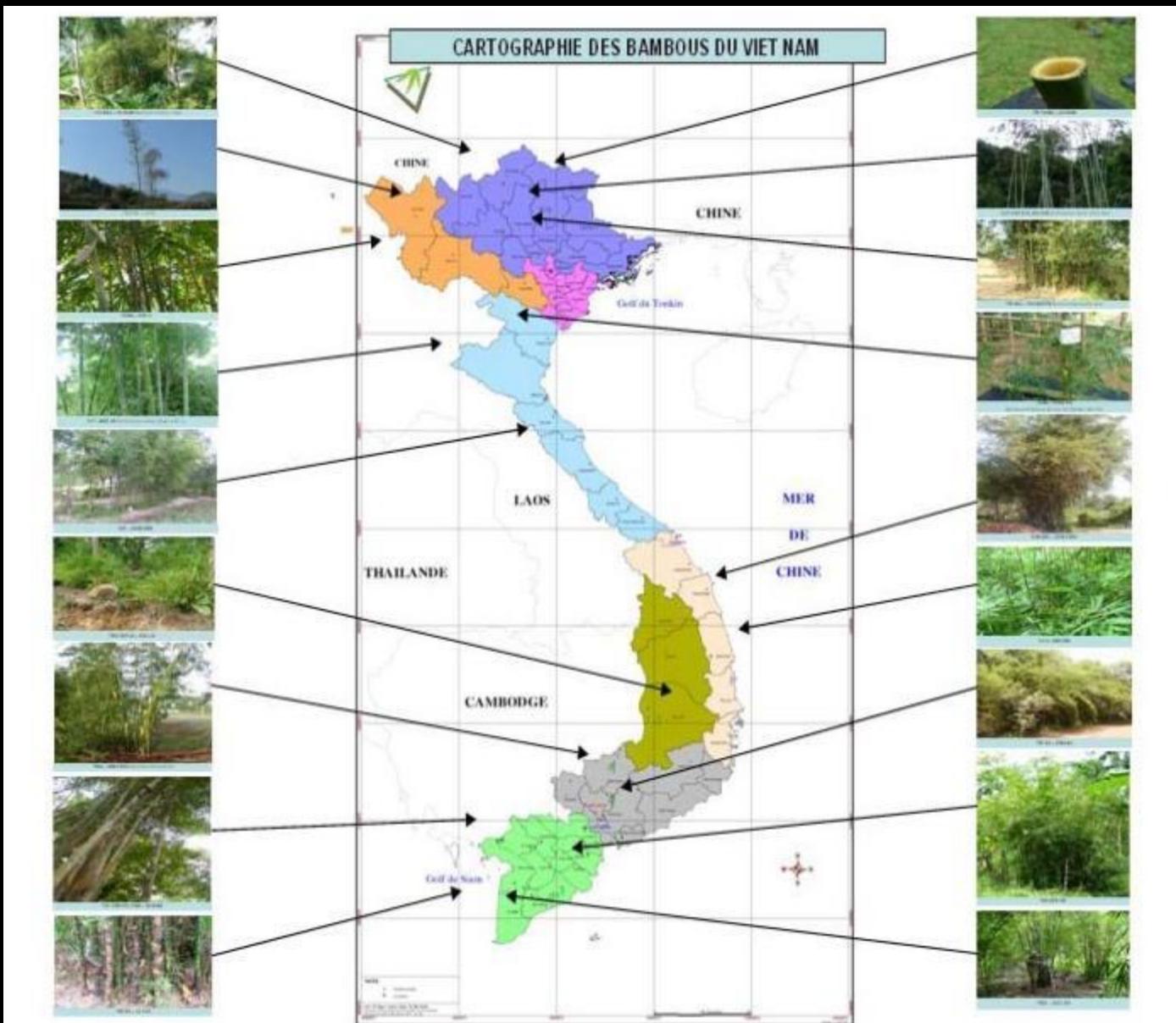


**Scientific research for bamboo
conservation and sustainable
development**

Bamboo collection

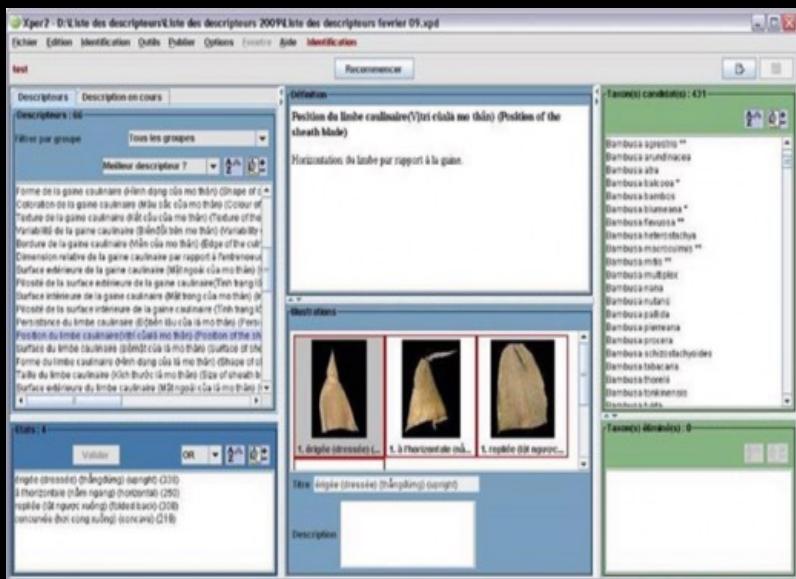


Collecting bamboos in Viet Nam (2003-2007: 301 specimens collected)



Xper 2/Xper 3 Knowledge Base

- Computerization of morphological descriptors of bamboos
- Discriminating characteristics
- Classification key



Study of the role of bamboo in protecting the environment for sustainable development

- Environmentally friendly material from bamboo fiber
- Adaptation of bamboos in different areas
 - Bamboo in dry region
 - Bamboo in flooded areas: to protect the bank of the river and fight against the storm
- Solution for people in flooded areas to adapt with climate change:
 - Floating house by bamboo for flooded area.
 - Bamboo piroques for flooded areas

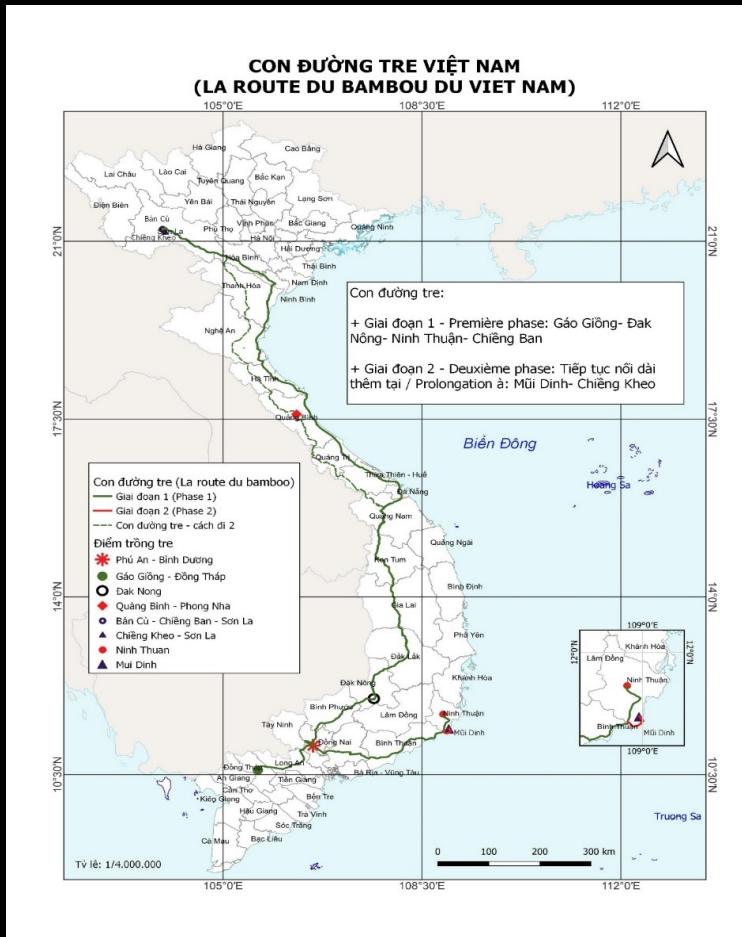


The green wall in Ninh Thuan- arid zone

BÚC TƯỜNG XANH
LA GRANDE MURAILLE VERTE

04/12/2020 11:07

For sustainable development



The “Route of Bamboo”, real and virtual, connecting bamboo species in variety of types, connecting dry ecological areas, sloping and seasonal flooded regions, bring together goodwill for growing bamboos and constitute the heart of humanity.

The “Route of Bamboo” messages to farmers, who sell their back to the sky and their face to land for living about the importance of diversity conservation and to adapt with climate change, connecting communities living around the bamboo with scientists to find solutions for the sustainable development and to maintain a healthy environment for the people.

Activities for sustainable development

- **Education for the children: green class with bamboo**
- **Student formation**
- **Communication for people**

Formation and education Most important for future



Utilisation des sols pour le dessin en sensibilisant les enfants à la protection de l'environnement

Using the soil for drawing to create a sense of protecting the environment for the children





Phu An Bamboo Ambassador

Ban Té

Trần

M

Communication: Bamboo Day in Phu An bamboo village





**Con đường tre – The route of bamboos
(in Gao giong – Dong Thap province)**

The map of Vietnam in a small scale prepared for planting and ex-situ conservation bamboos



(Photo by flycam in 28/4/2021 –
Gao giong – Dong Thap province)

News products from bamboo shoot



Arts from bamboo fiber



Truc chi

Products from bamboo



Bamboo salt

Bamboo wood

*WPC from
Bamboo powder*



Bamboo fabric



Bamboo



furniture



home appliance



*Composite materials
from Bamboo fiber*



Bamboo fiber



Art handmade

Products from bamboo in Vietnam



Bamboo salt

Bamboo wood



Bamboo

WPC from Bamboo powder



activated carbon



furniture



Composite materials from Bamboo fiber



Bamboo fiber

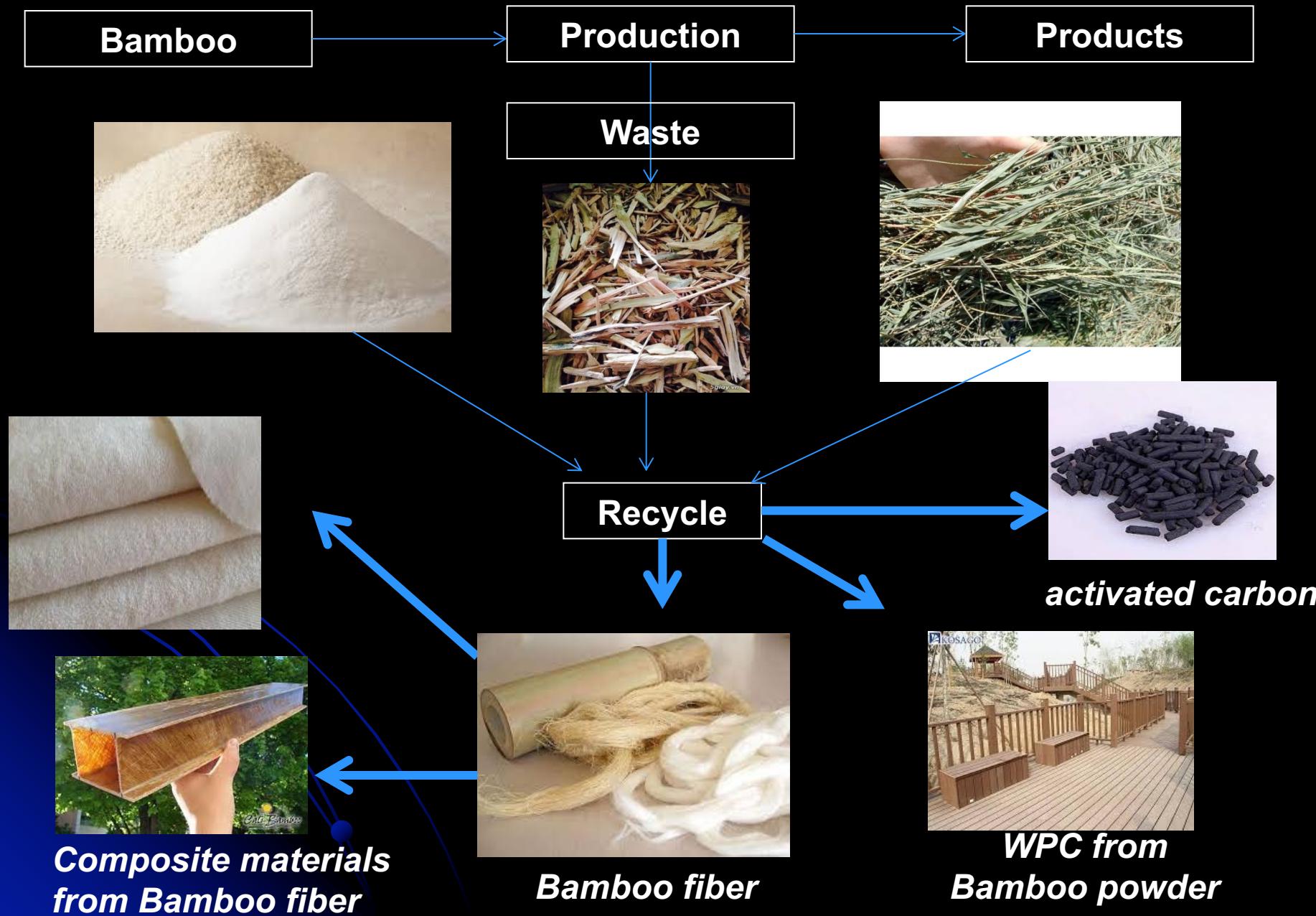


home appliance



Art handmade

Solution for the Bamboo Production in Vietnam



Le bambou, champion du développement durable

The bamboo, a champion of sustainable development

(Jacques Gurgand, 2010)



**MERCI POUR VOTRE ATTENTION
THANK YOU FOR YOUR ATTENTION**



Lac G: matin 6h06, le 21/05/2020