TRE VIỆT NAM

BAMBOO IN VIETNAM

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Overview of Vietnam
Bamboo in Material Civilization
Bamboo in Modern Uses
Bamboo in the Future
OVERVIEW
OVERVIEW

• 14th populated country
• 94 million people
• 332,698 km²
• Top 4 in bamboo forest area
• 1.4 million hectares
ECOLOGICAL REGIONS

• Red River Delta
• Mekong Delta
• Northern Highland
• Central Highland
• Coastal Region
THE ETHNICS

1. Việt – Mường (Vietic)
   Kinh, Chut, Muong, Tho
2. Tày – Thái (Tai-Kadai)
   Bo Y, Giay, Lao, Lu, Nung, San Chay, Tay, Thai
3. Kadai (Kra)
   Co Lao, La Chi, La Ha, Pu Peo
   Ba Na, Brau, Bru-Van Kieu, Cho Ro, Co, Co Ho, Co Tu, Gie Trieng, Hre, Khang, Kho Me, Kho Mu, Ma, Mang, M’Nong, O Du, Ro Mam, Ta Oi, Xinh Mun, Xo Dang, X’Tieng
5. H’Mông – Dao (Hmong-Mien)
   Dao, H’Mong, Pa Then
6. Nam đảo (Malayo-Polynesia)
   Cham, Chu Ru, E de, Gia Rai, Ra Glai
7. Hán (Sinitic)
   Hoa, Ngai, San Diu
8. Tạng – Miền (Tibet-Burma)
   Cong, Ha Nhi, La Hu, Lo Lo, Phu La, Si La
THE DELTAS

- Red River Delta
- Mekong Delta
EVERYDAY LIFE OBJECTS
Density map of the Red River Delta, Gourou

POPULATION DENSITY

- < 400 people/ km²
- 400 – 599 people/ km²
- > 600 people/ km²
BAMBOO IN
THE MATERIAL CIVILIZATION
EVERYDAY LIFE OBJECTS
Household Items
Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
家具

Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
Traditional architecture
Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
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Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
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Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
Traditional architecture
Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
AGRICULTURAL TOOLS

Cày

Rửa

Tillage & Sowing
Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
AGRICULTURAL TOOLS

Irrigation

Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
AGRICULTURAL TOOLS

Overview | Ethnics’ culture | Material Civilization | Modern uses | Future

Harvesting

bàn trang

quạt đê lúa
Unhusking

Overview | Ethnics’ culture | **Material Civilization** | Modern uses | Future
**AGRICULTURAL TOOLS**

Gia nan tròn

Measuring

Overview | Ethnics’ culture | **Material Civilization** | Modern uses | Future
AGRICULTURAL TOOLS

Gùi

Bò nan

Food Preservation
Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
THE DAY OF A FARMER
Wake up around 5 am
Wash up, sweep the yard

THE DAY OF A FARMER

Than em như Choi đầu hè
Phòng khi mưa gió đĩ về chùi chân
Chùi rồi lại vứt ra sân
Gọi người hàng xóm có chân thì chùi

Chổi
THE DAY OF A FARMER

Wake up around 5 am
Wash up, sweep the yard
Breakfast

Anh về chế nhựa đan sàng,
Chế tre đan chồng cho nàng ru con.
THE DAY OF A FARMER

Wake up around 5 am
Wash up, sweep the yard
Breakfast
Go to the field

Ba đời bảy họ nhà tre
Hễ cất lấy gánh nó đè lên vai
Ba đời bảy họ nhà khoai
Dù ngọt dù bùi cũng phải lăn tăn
THE DAY OF A FARMER

Wake up around 5 am
Wash up, sweep the yard
Breakfast
Go to the field
Work (rice field)
THE DAY OF A FARMER

Wake up around 5 am
Wash up, sweep the yard
Breakfast
Go to the field
Work (rice field)
Take a break

Bình tròn phành phạch, ñìt bành bao,
Mân mân, mó mó ñút ngay vào
Thủy hòa tương giao sôi sung súc
Âm dương hòa khí sướng làm sao!

Hồ Xuân Hương
THE DAY OF A FARMER

Wake up around 5 am
Wash up, sweep the yard
Breakfast
Go to the field
Work (rice field)
Take a break
Go home
THE DAY OF A FARMER

Wake up around 5 am
Wash up, sweep the yard
Breakfast
Go to the field
Work (rice field)
Take a break
Go home
Lunch

Thu ăn măng trúc, đông ăn giá
Xuân tắm hồ sen, hạ tắm ao
Nguyễn Bình Khiêm
THE DAY OF A FARMER

Wake up around 5 am
Wash up, sweep the yard
Breakfast
Go to the field
Work (rice field)
Take a break
Go home
Lunch
Nap

Tre già anh để pha nan
Lớn dan nong né, bé dan giận sàng
Gọc thì anh để kê giường
Ngọn ngành anh để cắm giàn trầu, dưa

chõng
THE DAY OF A FARMER

Wake up around 5 am  
Wash up, sweep the yard  
Breakfast  
Go to the field  
Work (rice field)  
Take a break  
Go home  
Lunch  
Nap  
Work (crop field)
THE DAY OF A FARMER

Wake up around 5 am
Wash up, sweep the yard
Breakfast
Go to the field
Work (rice field)
Take a break
Go home
Lunch
Nap
Work (crop field)
Fishing

Tay cầm cần câu trúc, lưỡi câu thau
Muốn câu con cá biển, chữ cá bâu thiếu chi
THE DAY OF A FARMER

Wake up around 5 am
Wash up, sweep the yard
Breakfast
Go to the field
Work (rice field)
Take a break
Go home
Lunch
Nap
Work (crop field)
Fishing
Swimming
THE DAY OF A FARMER

Wake up around 5 am
Wash up, sweep the yard
Breakfast
Go to the field
Work (rice field)
Take a break
Go home
Lunch
Nap
Work (crop field)
Fishing
Swimming
Fencing the garden

Tre già làm cọc bờ rào
Tre non làm lạt buộc vào cọc tre
Tre già thấy sự khó nghe
Mắng rằng: Mày định trói què tao ư?
...

rào
THE DAY OF A FARMER

Wake up around 5 am
Wash up, sweep the yard
Breakfast
Go to the field
Work (rice field)
Take a break
Go home
Lunch
Nap
Work (crop field)
Fishing
Swimming
Fence the garden
Having Dinner
Sleep

Yêu nhau nấu cháo củ tre
Nấu canh vỏ nhãn, nấu chè nhân ngọn

Chồng
Village Bamboo Hedge
Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
VILLAGE - COMMUNITY SPACE

Village Bamboo Hedge
Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
VILLAGE - COMMUNITY SPACE
Your beloved land was not always your own. But like bamboo, the unbroken spirit of the Vietnamese people was captured by Ly Thuong Kiet — “the Southern emperor rules the Southern land. Our destiny is writ in Heaven’s Book.”

President Obama, 2016
MARKETPLACE

ĐÔ THỊ = CITY

ĐÔ (CITADEL) + THỊ (MARKETPLACE)

Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
MARKETPLACE

Overview | Ethnics' culture | Material Civilization | Modern uses | Future
MARKETPLACE
A vendor carries on her shoulder the most romantic “thing in the East – a shoulder pole.” – Edith Shillue - 1960 -
SHOULDER POLE

Overview | Ethnics’ culture | **Material Civilization** | Modern uses | Future
Overview | Ethnics’ culture | **Material Civilization** | Modern uses | Future
CRAFT VILLAGES

Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
FESTIVALS
“Hạ Điền” festival (beginning of season)
Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
FESTIVALS

Folk games

Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
FESTIVALS

Music instruments

Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
- High density population
- A closed, self-sustained economy
- Resourcefullness
- Bamboo is the “scaffold” of the farmer civilization
BAMBOO IN MODERN USES
CRAFT

Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
CRAFT

Taboo workshop – Da Nang

Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
CRAFT
BUILDING MATERIALS

Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
ARCHITECTURE

Bamboo house near Saigon

Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
ARCHITECTURE

Bamboo house by H&P architects

Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
ARCHITECTURE

Bamboo house & studio by architect Le Luong Ngoc
Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
ARCHITECTURE

Sen Village by Vo Trong Nghia architects
Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
Sen Village by Vo Trong Nghia architects

Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
BAMBOO IN THE FUTURE
BAMBOO WORKSHOPS

Workshop between University of Tasmania and Hanoi Architecture University

Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
BAMBOO WORKSHOPS
BAMBOO WORKSHOPS
BAMBOO WORKSHOPS

Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
AGRITUDE

Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
AGRITECTURE

Cowshed building workshop

Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
Bamboo survey

Overview | Ethnics’ culture | Material Civilization | Modern uses | Future

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<td>18</td>
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<td>5.5</td>
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<tr>
<td>TOTAL NO. CULMS PER CLUMP</td>
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<td>19</td>
<td>52</td>
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<td>MINIMUM CIRCUMFERENCE OF SINGLE CULM (mm)</td>
<td>290</td>
<td>50</td>
<td>50</td>
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<td>100</td>
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<td>MAXIMUM CIRCUMFERENCE OF SINGLE CULM (mm)</td>
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<td>250</td>
<td>320</td>
<td>200</td>
<td>300</td>
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<td>AVERAGE CIRCUMFERENCE OF SINGLE CULM (mm)</td>
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<td>150</td>
<td>185</td>
<td>125</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>250</td>
<td>275</td>
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PHU AN BAMBOO VILLAGE

Strategic reforestation

Bamboo conservation

Improving agricultural productivity

Traditional knowledge, new technologies

Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
PHU AN BAMBOO VILLAGE

Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
THANH TAM BAMBOO ECOPARK
THANH TAM BAMBOO ECOPARK

Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
LAM SON BAMBOO CENTER

Master plan
Overview | Ethnics’ culture | Material Civilization | Modern uses | Future

1. Gallery & Design studio
2. Craft workshops
3. Building workshop
4. Courtyard
5. Loading area
6. Storage
7. Treatment facility
8. Reception/ Cafeteria
9. Artist gardens
LAM SON BAMBOO CENTER

Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
LAM SON BAMBOO CENTER

Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
Mimsi International is a nonprofit organization committed to the reduction of maternal mortality in Haiti.
MIMSI CLINIC - HAITI

Overview | Ethnics’ culture | Material Civilization | Modern uses | Future
Xin cảm ơn!