The vernacular architecture in Asia and Oceania
VARIETY OF CLIMATE ZONES IN ASIA

- Ice Cap
- Montane
- Tundra, polar climate
- Sub-arctic, humid, cool climate
- Continental, humid, cool summers
- Temperate, humid, marine, rains
- Tropical rain forest
- Tropical savanna, dry winters
- Semi-arid steppe
- Dry desert
- Mediterranean
VARIETY OF TYPES OF SOIL IN ASIA
Bangladesh: area: 147,570 km², population: 163 million / Hungary: area: 93,030 km², population: 9.8 million
CHUKCHI TENT

Northeast Siberia

1. more permanent structure
central pile, beams supported by posts in circular plan, rafters sit on the beams
surrounded by turfs (wall)
covered by reindeer skins

2. light tent / Jaranga
beams supported by tripods (made of branches)
Covered by reindeer skins
ANADIR / THE CAPITAL OF CHUKOTKA / LEGO CITY
KORYAK LIGHT TENT
KORYAK (EARTH)HOUSE

Northeast Siberia

1. central structure: 4 piles in quadratic plan
2. surrounded by posts in octagon plan
3. logs lean against beams supported by posts in two levels
4. flat roof made of wood
5. slanting wooden dyke to keep snow outside
6. bank up outside with soil

summer entrance: lower door
winter entrance: hole on the roof, this hole is used for ventilation and lighting
NOMADIC LIGHT SHELTER / JURTS

Central Asia

portable structure
ring-shaped wall with folding latticed structure made of wooden lathes
rafters supported by wall and central wooden ring
supported (or not) by two posts
covered by felt or wool „blanket”
there is reed or bulrush matting in the inner side of covering
NOMADIC LIGHT SHELTERS / BEDUIN TENT

1. living area, kitchen
   place of women, it is separable with curtain
   from other parts of tent

2. seats on carpet
   saloon, place of men
   place of recreation

3. storage

4. junction of stretching

The felt (wool) flap of tent supported by posts
The posts were stretched (fixed) by cords and sticks.
EARTH HOUSE / TARMA-HOUSE / BIT HILANI / IRAK / ADOBE STRUCTURE

**Bit Hilani** from Tell Tainat, from Tell Halaf (Guzana), reconstructed Bit Hilani in Aleppo (Syria) / Tarma means „veranda“
two main rooms and third (smaller and lower) open from the veranda / mud (earth + water + straw) walls, or walls made of mud
Mud cupolas are used in covering spaces of mud construction. They are found in the countryside of the northern areas of Syria. Mud is the main building material used in this type of architecture and it is also used in rendering and binding.

Coarse earth is mixed with water and straw to make the main building unit that is shaped by putting the mixture in Frameworks.

The thickness of a mud cupola ranges between 30-40 cm and its summit can reach 7 m high. The builder starts building the first course from the four corners of the space, the courses are arranged on top of each other towards the center, while mud mortar is used to bind the structure.
BEEHIVE- HOUSE / TURKEY, SYRIA

Assyrian relief (VII. century BC) / Harran, close to Şanlıurfa, Turkey
A **tulou** or "earthen building", is a traditional communal residence in the Fujian province of Southern China, usually of a **circular configuration surrounding a central shrine**. These vernacular structures were occupied by clan groups.

Although most tulou were of **earthen construction**, the definition "tulou" is a broadly descriptive label for a building type and does not indicate construction type. Some were constructed of cut granite or had substantial walls of **fired brick**.

Most large-scale tulou seen today were built of a composite of earth, sand, and lime known as **sanhetu** rather than just earth.
EARTH HOUSE / TULOU / FUJIAN / CHINA / VARIETY OF FORMS
Zhenchenglou / Fujian

Jiqinglou / Fujian
Zhenchenglou / Fujian
Chuxi / Fujian
MUDHIF / REED HOUSE / IRAQ
South Iraq

It is made of sheaves of reed (6 – 7 metres long, 30 – 40 cms in diameter), these become narrow towards the end. The sheaves are stanced into the pit. The end of sheaves are bound with the opposite ones by cords. This framework is covered by bulrush carpet (two layers). The lower layers can turn up if there’s warm inside.
Batak is one of the tribes in island of Sumatra. It is a high-floor dwelling with framework base. There are thick piles fixed by horizontal beams. The piles stand on block of stone. On the top of piles are also stone disks. There are huge beams on stone disks. The superstructure of dwelling similar to ships. The ridge of roof is curved, the form of roof similar to saddle. The roof covered by reed or straw, and supported by special triangle-shaped carved rack.
Toraja is one of the tribes in island of Sulawesi.
PILE DWELLINGS IN ASIA

- Chloé: Recorded location of one or more lacustrine dwellings
- Enri: Recorded case of a cultural group using lacustrine dwellings
- Light blue: Distribution of pile dwellings
- Parchment: Areas affected by tropical climate
PILE DWELLINGS IN ASIA

Cempa / island of Sulawesi / Indonesia
THE LAND OF LOST PARADISE – ISLAND OF NEW GUINEA

The second biggest island in the world. The western part belongs to Indonesia (Western Irian), but the eastern part with lot of islands is the PAPUA NEW GUINEA (PNG, or Niugini).

Population of PNG: 5 million. spoken languages: 841 (5858,5 people/language, but enga nation 165 000, chimbu nation 158 000) 
Spoken languages in the world: 6500 (841 = 13 %)
WHERE THE NATURAL ENVIRONMENT IS SO SPECIAL...
WHERE THE ANIMALS ARE SO SPECIAL...
...THE KIDS ARE SO CUTE...
...AND WHERE THE PEOPLE ALSO ARE SO SPECIAL...
...AND WHERE THE „CLOTHES“ ALSO ARE SO SPECIAL...
...THE DWELLINGS ALSO MIGHT BE SO SPECIAL!
WELCOME TO NEW GUINEA!
LOG HOUSE / PNG
One family (5-6 person) with it’s animals

Baliem-valley / Irian Jaya / Indonesia Baliem-valley / Irian Jaya / Indonesia Papua-Highlands
PAPUA HOUSE
Coastal territories

There is a strong base with timber framework. The ridge-beam supported by two huge piles.
LONG HOUSE / ENGA NATION / PAPUA-HIGHLANDS

Long (up to 70-80 m) house for ceremonies, dance (Sing-sing) / ceremonial hall / it also has cultic function / if it’s used as living house: there live men or women in separation by gender / Akalianda: house of men, Endanda: house of women
LONG HOUSE / ENGA NATION / PAPUA-HIGHLANDS

Monani (Enga) house / Kasap

Enga house of women / Kasap

door of house of men  veranda of house of men / Kasap
A. Place of living and cooking  B. place of pigs  C. hiding place for women in their period
LONG HOUSE

House of men / Sorotage / close to Digimu river / South Papua-Highlands
Enga nation / Enga men are ready for Sing-sing
PAPUA HOUSE OF SPIRIT

In the area of river Sepik (Northwest PNG) / Sacral place, there are sculptures of gods / Only for men, is not allowed to entry for women / There is huge fassade but very low entrance (on all fours)
THE TREE-HOUSE OF KOROWAIS

WESTERN IRIAN (INDONESIA)
The dwelling is on more than 30 metres high (min. 3 m) / Korowais afraid of ghosts lived on the ground.
SEE YOU!