



# Zanadu country description



On behalf of  
**Federal Ministry  
for Economic Cooperation  
and Development**





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### GIZ Climate Protection Programme



On behalf of

Federal Ministry  
for Economic Cooperation  
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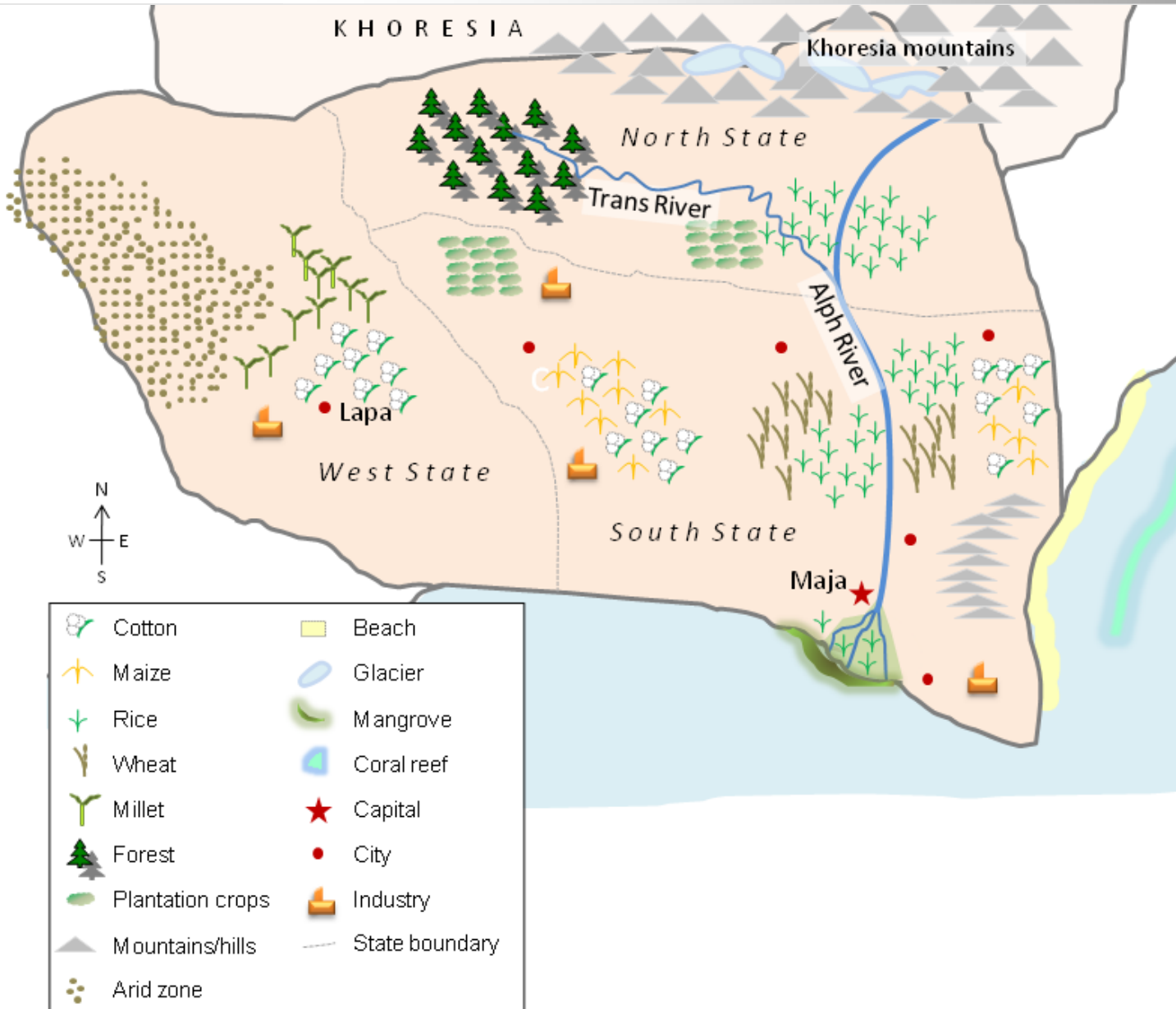
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## Our case 'Zanadu' – general overview (1)

**Sub-tropical developing country**

**300,000 square km (~Ecuador, Ivory Coast)**

**60 million population**

- **population density ~ 200/square km (~Pakistan, Jamaica)**
- **48% rural; 52% urban (South State more urban)**
- **1.9% growth rate**
- **-> urbanisation trend (population growth, migration)**

### **Education**

- **Literacy rate: 68% (76% male; 60% female)**
- **<5% university degree**





## Our case 'Zanadu' – general overview (2)

### Governance

- **Parliamentary democracy**
- **Three states: South State, West State, North State**
  - Relative autonomy
  - Limited taxation power
- **Most important ministries: Prime Ministry and Ministries of Planning, Finance, Industry, Water Resources and Agriculture**
- **Ministry of Environment understaffed**
- **Small environmental lobby**



## Our case 'Zanadu' – general overview (3)

### Economy

- Per capita income ~1,800 EUR/year
- Growth potential:
  - tourism (Eastern part South State)
  - telecommunication

### Power/energy supply

- Electricity relies on hydro (15%), coal (75%), gas (10%)
- All major cities have electricity, but increase in load shedding
- 50% of rural areas are without electricity and rely on firewood





## Our case 'Zanadu' – general overview (4)

### Agriculture

- **West State**
  - Crops: cotton, cereals
  - Poor soils
  - Precipitation <800mm/year, peak in summer
- **South State**
  - Breadbasket of the country
  - Crops: rice, wheat, maize, cotton
  - Agriculture accounts for ~20% of GDP, 40% of labor force
  - Fertile alluvial flood plane
  - Annual precipitation >1000mm/year, peak in summer
  - Extensive irrigation schemes



## Our case 'Zanadu' – general overview (5)

### Water

- Water regime dominated by rivers Alph and Trans
- Increase in devastating floods in the Alph plain
- No established system of water rights
- Renewable water availability per capita: 1,600m<sup>3</sup>/year. (with population growth, this will fall below 1,000m<sup>3</sup>/capita (by 2040), even if water use remains constant)







## Our case 'Zanadu' – climate

### Climate

- **Wide range of climates:**
  - sub-tropical zone in the south with highly seasonal rainfall
  - snow covered mountains in the north
  - semi-arid plateau in the west
- **High seasonal rainfall in summer, dry cool winter season**
- **Climate change signals**
- **Expected rise in temperature by 2°C by 2050**
- **Unclear signals regarding precipitation**
- **Increasing incidence of droughts through shortfall of rain season**
- **More variable flows in river, lower late summer flows**
- **Reduced groundwater recharge**
- **Gradual submergence of Alph delta (sea level rise)**

