

TECHNICAL EXPERT MEETING

ACCELERATING ENERGY EFFICIENCY ACTION IN URBAN ENVIRONMENTS: MORE FASTER NOW

UNFCCC – Bonn, Germany June 2015



RECIFE
PREFEITURA DA CIDADE

SECRETARY OF ENVIRONMENT AND
SUSTAINABILITY OF RECIFE

Innovative legislation on green roofs and others practices



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In the world



TECHNICAL EXPERT MEETING

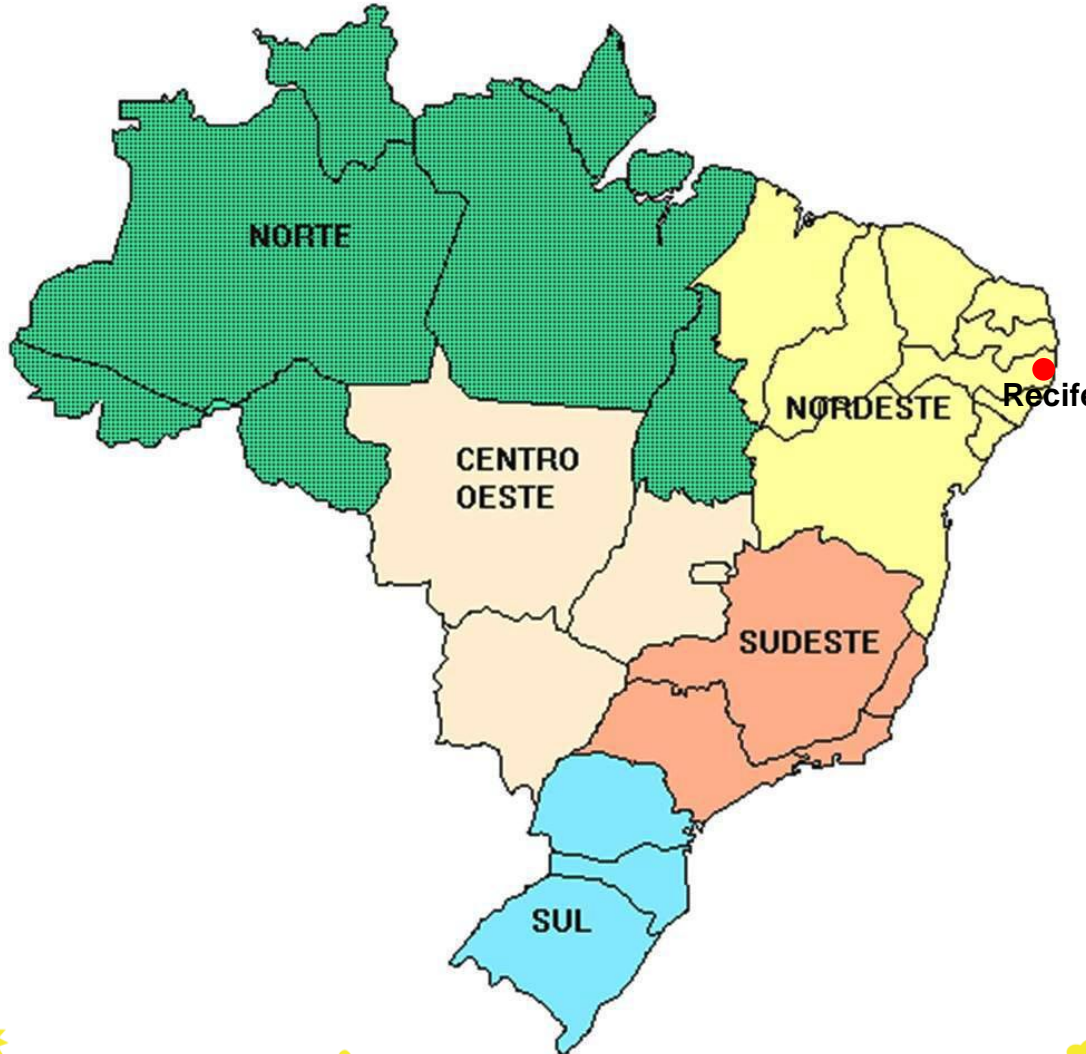
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BRAZIL

Population: 190,7 millions

Area: 8.515.767,05 km²

STATE OF PERNAMBUCO

Population : 8.79 millions

Area: 98.146.32 km²

2,5% of brazilian economy

Population density: 89.63 hab/ha



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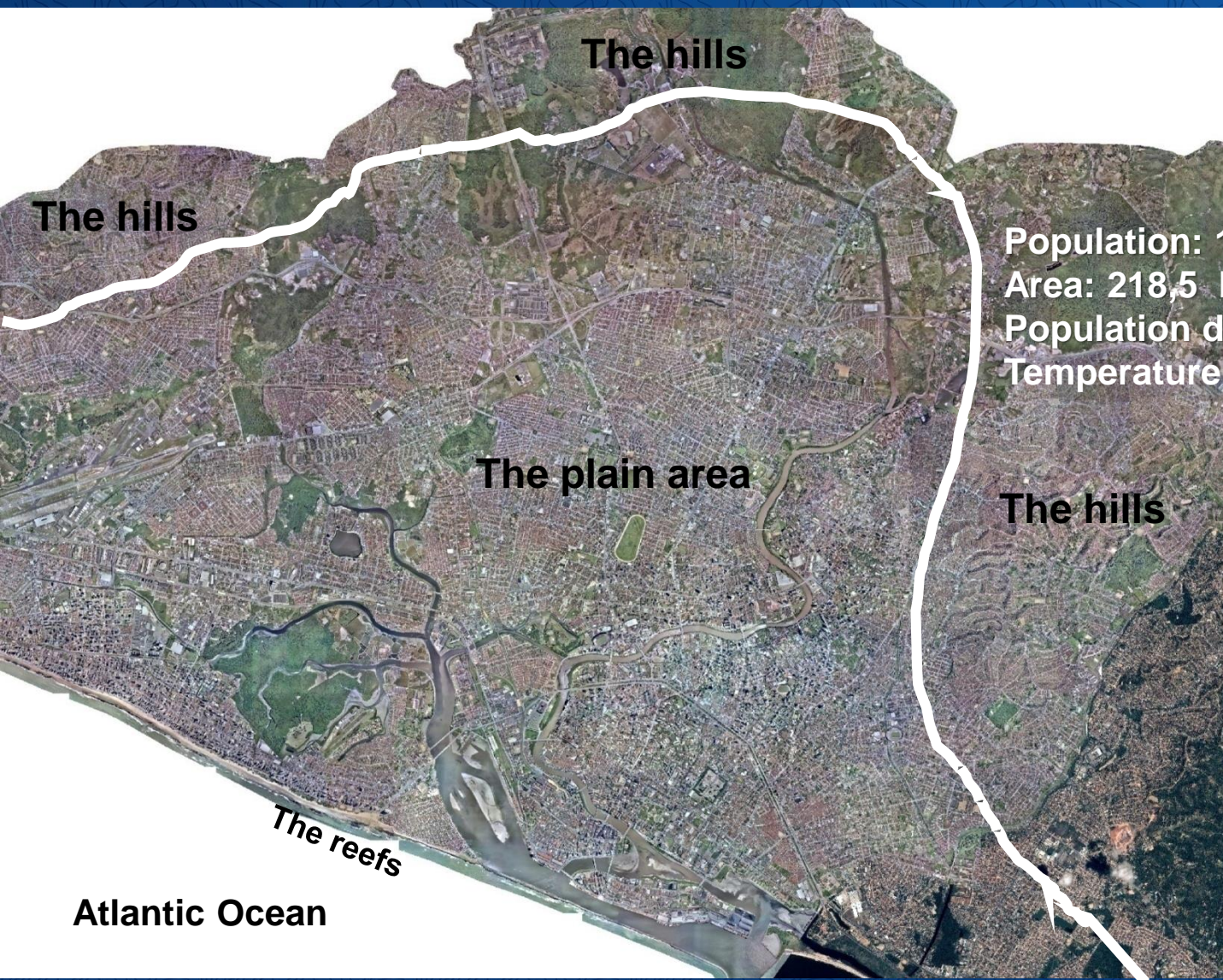
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The city

Population: 1.537.704 hab.

Area: 218,5 km²

Population density: 7.037 hab/km²

Temperature variation: 25 to 32 C°

The hills

The hills

The plain area

The hills

The reefs

Atlantic Ocean

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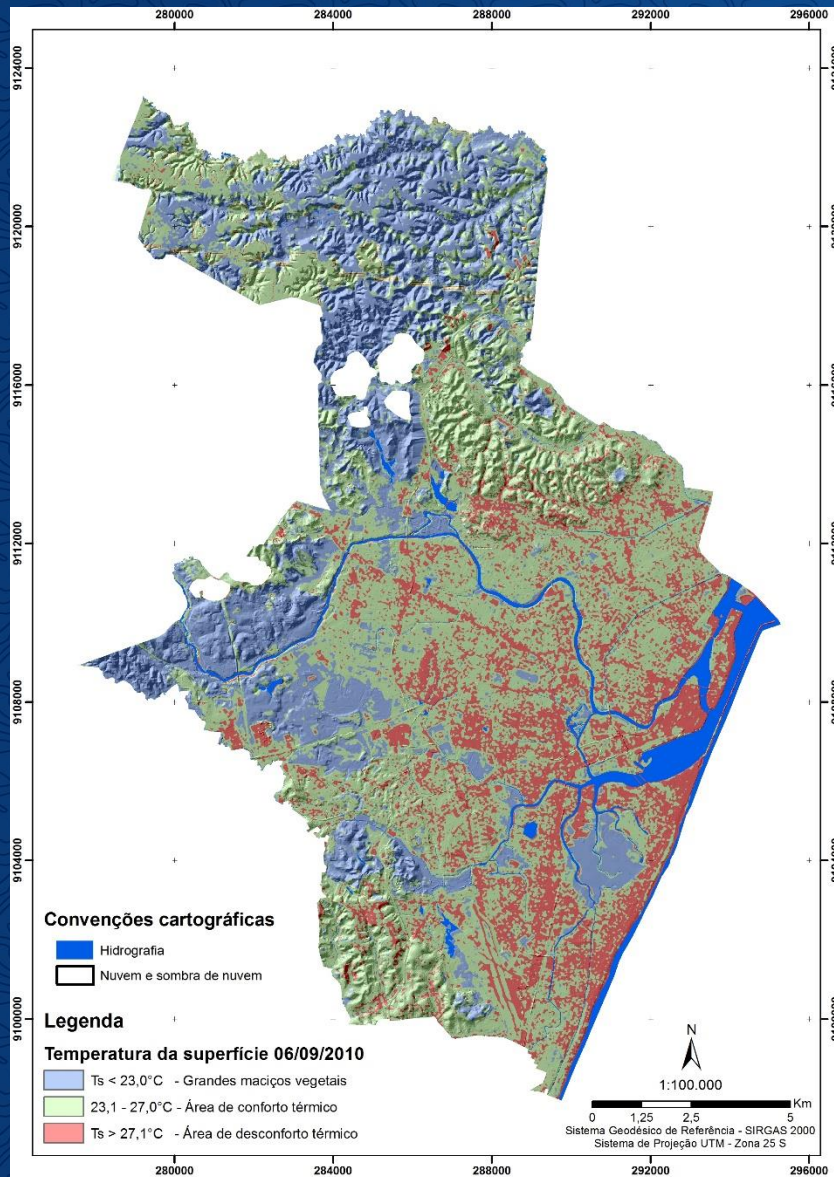
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The city | view from the hills

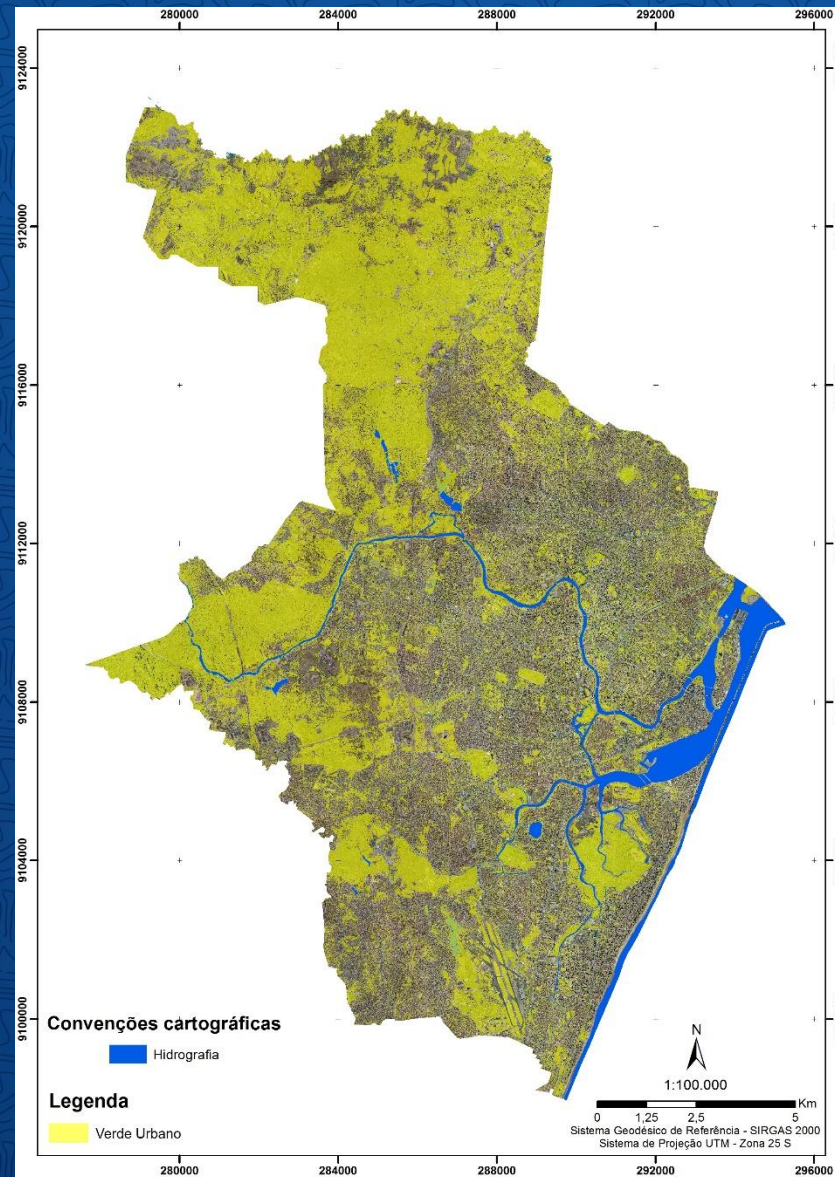




Temperature



Greens areas





The Green Roof Law (n° 18.112/2015)

Concepts:

Green Roof is a vegetation layer applied on the cover of buildings, but also on the cover of the garage buildings, to improve the landscape aspect, reduce the heat island, absorb some of the runoff of rain waters and improving the local microclimate.



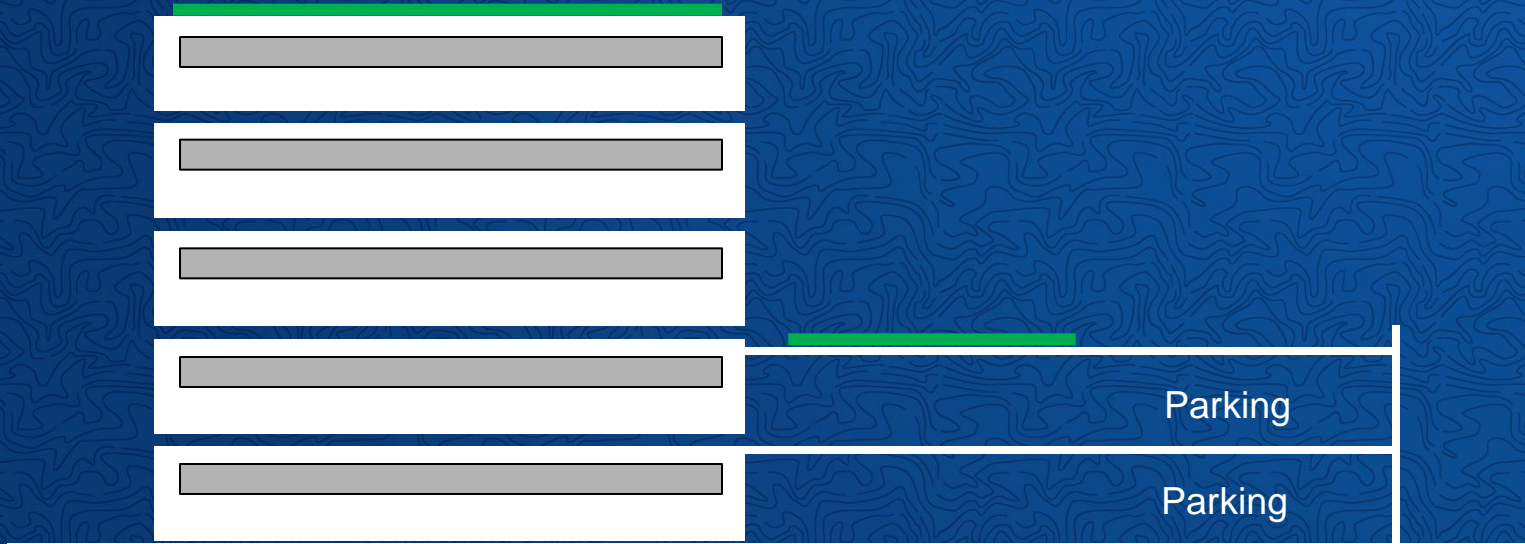
The Roof Garden Law (n° 18.112/2015)

Benefits:

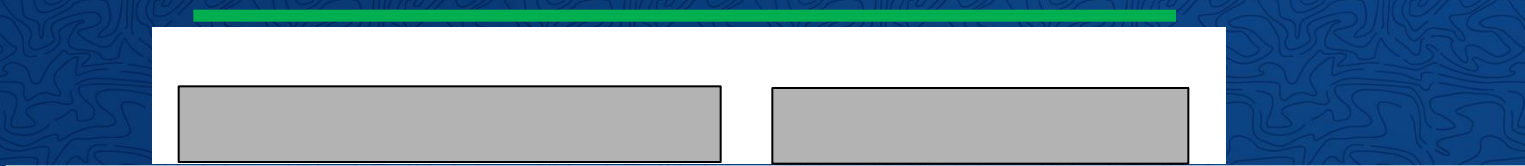
- **Absorbing up to 80% of rainwater (reducing floods)**
- **Building temperature reduction**
- **Protection of buildings from UV rays and sudden temperature changes**
- **Possibility of growing urban gardens**
- **Reduction of external noises (acoustic comfort)**
- **Energy saving (Reduction of the air conditioning use)**
- **Air quality improvement in the environment**



Residential buildings with 4 or more floors



Non residential buildings with more than 400 m² of roof area





OTHERS PRACTICES | MOBILITY | Non-motorized transport

CAPIBARIBE PARK



design phase



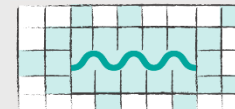
7.250 ha



30 Km



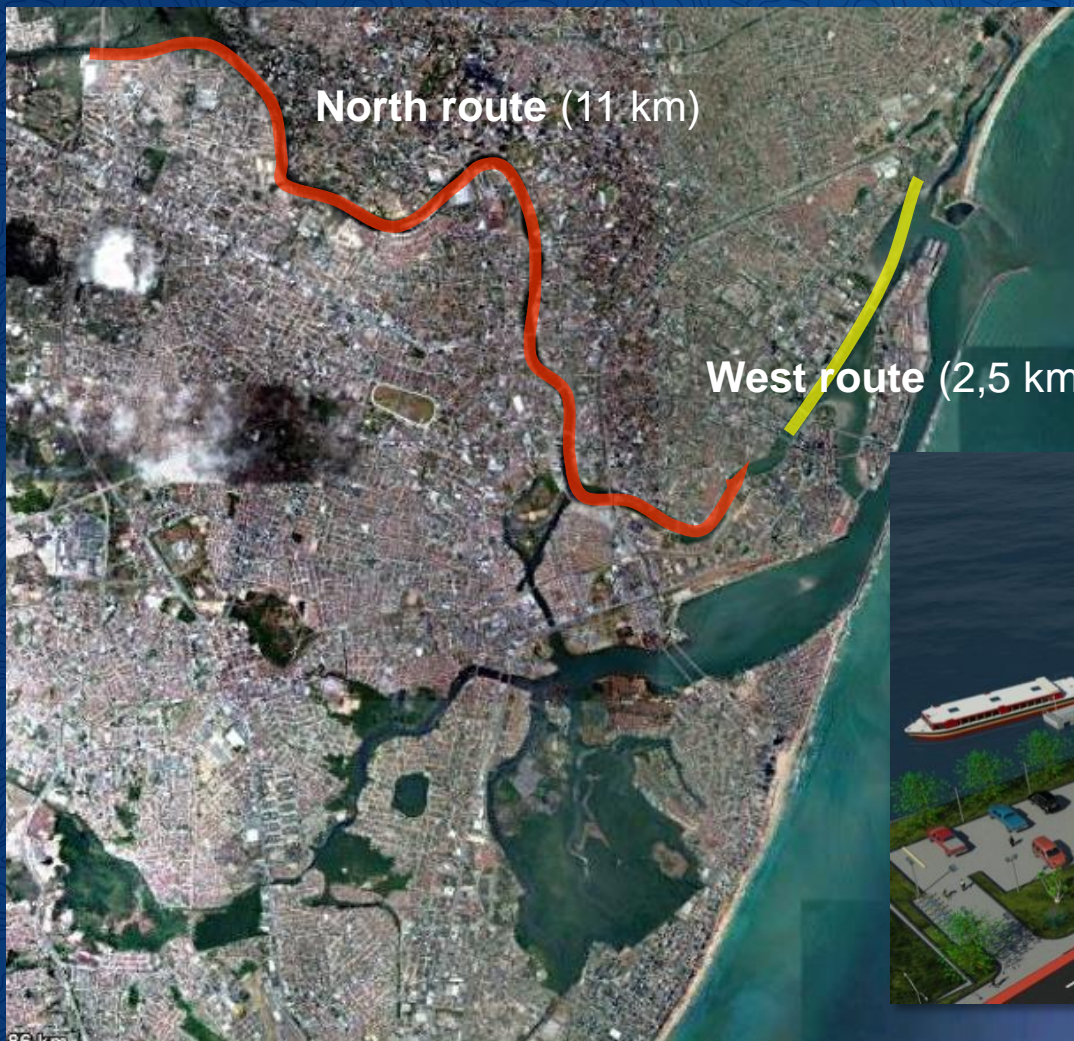
400.000



35 neighborhoods



OTHERS PRACTICES | MOBILITY | Public transport on the river



Estimated demand:
10.438 passengers / day



deployment



OTHERS PRACTICES | MOBILITY | Public transport - Light Rail



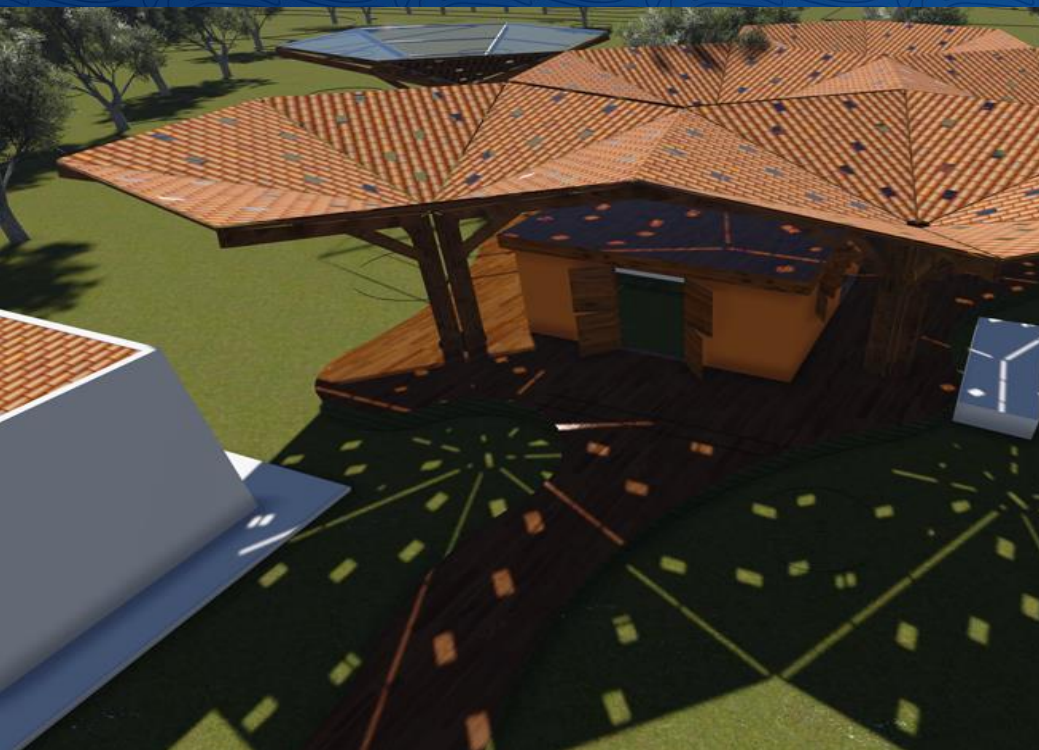
North axe:
13,4 km
South and center axes:
21,4 km

study phase



OTHERS PRACTICES | Public Administration | Sustainable public buildings

- Reforested wood
- Synthetic wood (recycled plastic)
- Rain water reuse
- Use of solar energy
- Cover with tiles of recycled plastic



Environmental Education Center - Jaqueira Park
completed deployment

THANK YOU



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