



Mbakadou is a Senegalese rural village, population 500, inside the pre-desert Saharan area.

The primary school currently has only one classroom, and a catchment area which includes other villages dozens of kilometres away. There are problems of overheating of the classroom and erosion caused by strong desert winds.

Solidarietà Dimbalente contacted ASF-ITALIA to put together a sustainable and efficient project for the construction of the other five classrooms.

In addition to the consolidation of the existing building and the planting of extensive vegetation, the project foresees the construction of five new classrooms, a communal space and a protective wall against the winds.

The first phase foresees the construction of two new classrooms, consolidation of the existing building and the beginning of the planting project.

Appropriate materials







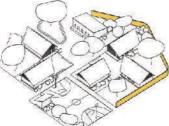
mud bricks



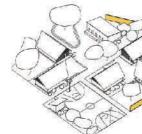
Appropriate technologies

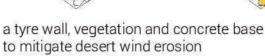


cross ventilation for thermal comfort

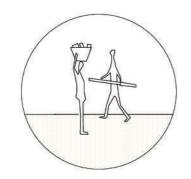


to mitigate desert wind erosion





Appropriate labour





men and women of Mbakadou will be involved in self-construction

Appropriate materials

the natural environment.

Principle 5

Waste materials such as tyres, will be used to build the wall protecting classrooms from winds. The classroom walls will be made with mud bricks in situ to avoid transport costs (the quarry thereby created will be used as a communal space for the village).

Facilitate the use of appropriate

technologies, materials and labour adequate to local values, to the cul-

tural specificity and responsive to

Typha will be used as roofing and filling panels. It's a local vegetable fibre that can provide many benefits to indoor conditions.

Appropriate technologies

Bioclimatic principles will be used. Desertification and erosion will be mitigated by vegetation, a tyre wall and concrete base for each classroom block.

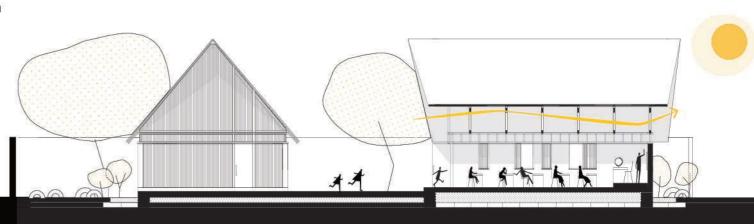
Appropriate labour

Construction will be led by a Mbakadou construction company and self-construction methods. As with the construction of the first classroom, men and women are very motivated to participate personally in the building of the school.

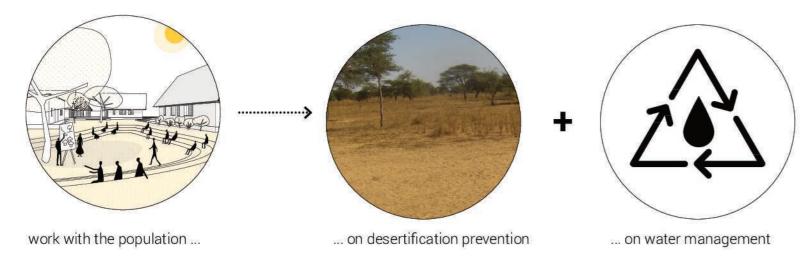
The goal is to develop new economic possibilities from their traditional knowledge.

Mbakadou Primary School

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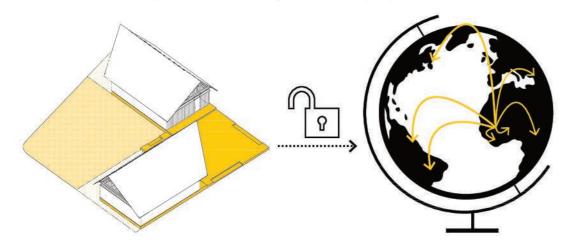
Sharing knowledge and promote discussion, reflection, awareness



Sharing knowledge and capabilities



Mbakadou Primary School is an Open Source project



Mbakadou Primary School

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Principle 6

Share knowledge, promote discussion, reflection and awareness, and collaborate in the advancement of the 'social production of habitat'.

Sharing knowledge

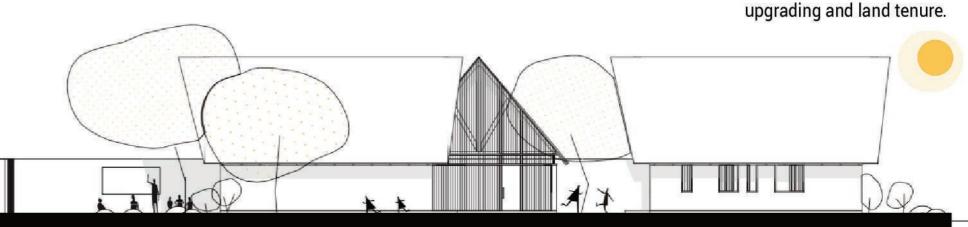
In this project we will apply water management in the bathroom block. The cooperation with TypHas is precious from many standpoints: in addition to training local thatchers, it gives us the chance to test this material in hitherto unused solutions.

Promoting discussion, reflection and awareness

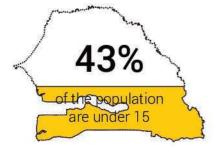
We are now organizing an Indiegogo crowdfunding campaign to assist in funding and increase awareness of desertification. Through
Solidarietà Dimbalente ASF-ITALIA is working
with the population on desertification. We
started with their knowledge (capability approach) of building techniques, planting and
water management. We defined solutions
together appropriate for their culture and responsive to the natural environment.

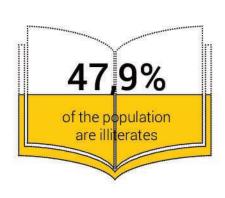
Collaborating in the advancement of the 'social production of habitat'

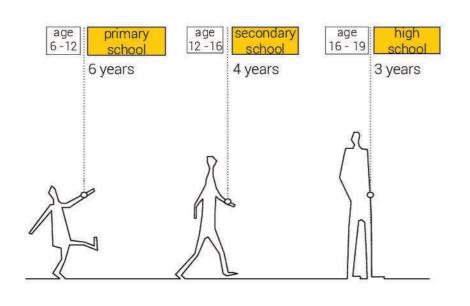
The aim of the project is to build a school, to create an autonomous local network, and to create an open source model available for other similar situations, with the aim of rural upgrading and land tenure.

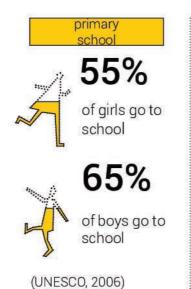


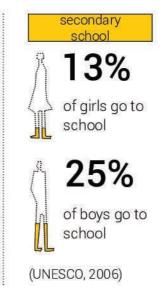
Understanding Senegal educational problem



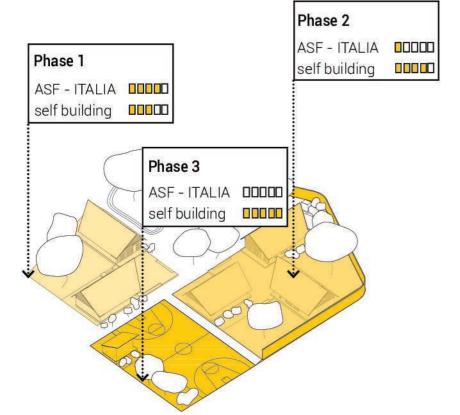








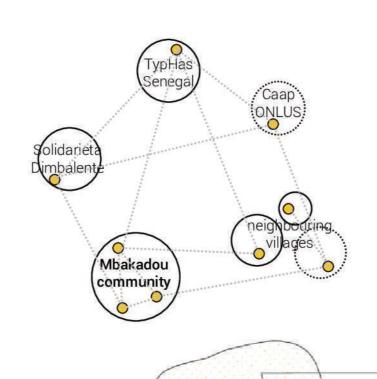
Construction phases



Mbakadou Primary School

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Construction of a community-based powerful network



Principle 10

Defend, promote and enable access to adequate and dignified habitat for all as a "Fundamental Human Right".

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