BAGA SOLA FUTURE OASIS

A skyscraper which can preserve and help to balance the biodiversity and provide food through agriculture development.

PROBLEM/ISSUE
Climate change, desert expansion, overpopulation and overexploitation have been serious global issues that cannot be neglected in Africa. Biodiversity is losing the race of facing extinction that will cause the ecosystem to collapse and lead to the problem of food shortages. Looking into the largest lake in Africa, Lake Chad, which sits in the center of the confounded nations of Chad, Nigeria, Cameroon and Niger, is the world's fifth-largest lake and the second-largest in Africa. Nevertheless, the shrinking of Lake Chad, degrading natural resources in the lake has become a global issue and therefore requires urgent attention or else the cascading effects will overwhelm.

SITE
Baga sola is a town on the shores of Lake Chad in western Chad. Besides being a home for Chadians, there are religious camps for Nigerian who fled Boko Haram. There are several organizations involved in helping the refugees. Facilities like living spaces, which standard and food are provided for, are available. Community activities are limited, being the problem of food shortage.

ECOSYSTEM
The skyscraper hosts multiple platforms for restoring the productivity of the ecosystem, vegetation. The vegetation can be harvested, involved in cooking and consumption. Harvest water from the skyscraper is processed and used as the fertilizer for farming.

IDEA AND DESIGN INTENTION
The skyscraper acts as a depot that is in the combination of biodiversity and cultural diversity of Africa. In the world view, the skyscraper can act as an oasis in the area and offer a solution to new desertification. The skyscraper can host the agriculture development and technology of Africa to a whole new level. Food can be provided through vertical farming and a platform for cultural exchange between different nationalities can be created. Therefore, it is thinking that can be a meeting point for various cultural buildings of the country and create a new type of society in Africa.

ACTIVITY AND SPACE

The skyscraper is made of modular system, these fit into another levels, new culture is to move existence.

ÉCO-VILLAGES

Éco-villages are a type of living structure that allows for self-supporting communities and sustainable living.

LEARNING

If a community has a school, it provides them a place or a module to get education. It is an important part of the skyscraper that allows for new learning and understanding.

WATER

The skyscraper has its own water system, these fit into another levels, new culture is to move existence.

FOOD

Food is a very important aspect of life, the skyscraper has much to provide for. An ecosystem that allows for the production of food is a key aspect of the skyscraper.

TRANSPORTATION

The skyscraper can provide transport to other regions of Africa.

APPLICATION

The skyscraper can be used for various applications, such as providing food, shelter, education, and transportation.

MODULAR SYSTEM

The modular system is implemented in the construction system of the skyscraper. The modular system consists of different levels of modules that can be easily moved and adapted to different needs.