KEJETIA INTERVENTIONS
GIVING PUBLIC FORM TO THE KUMASI CENTRAL MARKET

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1. GHANAIAN EXPLORATIONS
COLOURFUL LIFE LIVELY MARKETS SOCIAL NETWORKS TRADITION STREETLIFE PATTERN AGRICULTURE HISTORY GREEN
WE ONLY ASSOCIATE AFRICA WITH CHARITY

www.vpro.nl/programma/vandisinafrika
Ghana located in Africa
GHANA EMPIRE / ASHANTI

Major Ethnic Group in Ghana

Ghana located in West-Africa

Ashanti region located in Ghana
Ghana located in West-Africa

Ashanti region located in Ghana
Ghana located in West-Africa

Ashanti region located in Ghana

Brush grass savanna

Forest woodland savanna

Tropical rain forest
GEOGRAPHY - KUMASI: GARDEN CITY
ECONOMIC HEARTBEAT - LARGEST MARKET OF WEST AFRICA

Ghana located in West-Africa

Ashanti region located in Ghana
2. KEJETIA ANALYSIS

A PLACE WHERE INTERACTION OCCURS BETWEEN PROCESSES, SYSTEMS AND PEOPLE.
KEJETIA: JUNCTION OR INTERSECTION OF MAIN ROUTES
KUMASI CITY CENTRE WITH OTHER PLANS AND THEMES
IMPORTANCE OF THE KEJETIA
FUTURE PLAN CONNECTION BY THE Bus Rapid Transit SYSTEM
THE HAAGSE MART (NETHERLANDS)

RATIO NUMBER OF MARKETSTALLS: 540
RATIO NUMBER OF VISITORS: 40,000

KUMASI CENTRAL MARKET (GHANA)

+ / - 15,000

RATIO NUMBER OF VISITORS: 200,000
POVERTY THRESHOLD

POVERTY THRESHOLD WORLD BANK (2008) $1.25

“THE MINIMUM LEVEL OF INCOME DEEMED NECESSARY TO ACHIEVE AN ADEQUATE STANDARD OF LIVING IN A GIVEN COUNTRY”

TURNOVER KUMASI CENTRAL MARKET: 440.000 EURO A MONTH
14.667 EURO A DAY

DAILY REVENUE PER PERSON: € 0.97 A DAY = $1.30
EXPERIENCE - THE NEED FOR SHADOW
ONE OF THE MAJOR SIDE STREETS
EXPERIENCE - ADAPTATION OF SPACE
I need to go to the toilet
EXPERIENCE - NON FLOW SPACE

Waiting SPOT
A PLACE WHERE PEOPLE CAN ESCAPE FROM THE MASS FLOW OF PEOPLE
HIERARCHIE
MIXED RETAIL
THE KAYAYOO ARE YOUNG WOMEN WHO LEAVE COMMUNITIES IN ECONOMICALLY DISTRESSED NORTHERN GHANA FOR URBAN AREAS IN SOUTHERN GHANA, WHERE THEY WORK AS PORTERS MOVING HEAVY LOADS AROUND BY BALANCING THEM ON THEIR HEADS. THE KAYAYOO ARE HEAVILY EXPLOITED FOR SEX AND MONEY DUE TO THEIR LACK OF HOUSING AND SOCIAL SUPPORT IN UNFAMILIAR CITIES.
KUMASI CENTRAL MARKET - THE NEW EXPERIENCE
KUMASI CENTRAL MARKET – THE NEW EXPERIENCE
COVERED PROBLEMS

- Lack of public facilities
- Bad roads
- Inaccessibility
- Tall unstable market stalls
- Poorly drained gutters
- Old train track passing through
- Illegal electricity connections
- Overcrowded
- Poorly drained gutters
- Overcrowded
- Inaccessibility
LESSONS LEARNED.
1. While the activity on the market in first instance seems **chaotic**, a closer look reveals a disciplined regime and **order**.
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2. The physical structure of the market is a HOMOGENEOUS repetition of generic stalls, however this generic mesh shelters a wide DIVERSITY products and activities.
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3. Market activities are NOT MANAGED FORMALLY, but rely on complex and DYNAMIC SOCIAL STRUCTURES and hierarchies which are often unwritten and tacitly understood by all traders.
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4. Many traders on the market **SURVIVE ON A DAILY WAGE**, therefore interventions have to be extremely cautious with extended displacement or extended closure of market parcels.
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5. The market **LACKS BASIC ACCESS TO PUBLIC AMENITIES**, this causes significant **DECREASE IN PRODUCTIVITY** as well as general **DISCOMFORT** for local traders.
3.

INTERVENTION.
INTERVENTION IN CONTEXT - PLACE FOR PUBLIC AMENITIES
WHY ON THIS LOCATION?
THE ONLY OPEN INFRASTRUCTURE WHICH PROVIDES SPACE TO BUILT
THE SITUATION IN THE DRAINAGE

SMELL

CLOSING DRAIN

PLACING CONSTRUCTION
PUBLIC AMENITIES - THEIR ORIENTATION (Functions spreaded over the city)
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KUMASI CENTRAL MARKET

THE WALL OF THE ZOO
(Road to the market on the Bantama racecourse)

SATELITE MARKET
ORGANIZATION AND RESPONSIBILITY

Kumasi Metropolitan Assembly

SUPERVISOR 3

SUPERVISOR 2

SUPERVISOR 1

SENIOR STAFF OFFICE

ENVIRONMENTAL OFFICE

SANITATION 1

SANITATION 2

CLINIC

INTERNET CAFE

DAY-CARE

KAYAYOO RESTPLACE

TRO-TRO STATION

FIRE-OFFICE SECURITY 2

SANITATION

MAIN ENTRANCE / KEJETIA MONUMENT

STREET LEVEL NEW ZONGO

CENTRAL MARKET MANAGER

Kumasi Metropolitan Assembly
EMBEDDED IN THE ENVIRONMENT
ENTRANCES AND FLOWS
ROMAN HILL AND NEW ZONGO - ENTRANCES

NEW-ZONGO CONNECTION
NON-FLOW SPACES / INTERSPACE FIRST FLOOR
BY-PASS

NON-FLOW-SPACE
TAKE A STEP AWAY

PRIVATE NON-FLOW-SPACE

NON-FLOW SPACES / INTERSPACE FIRST FLOOR
ENVIRONMENTAL ATMOSPHERE

SUNSHADING

WIND FLOW

VIEW
CULTURAL REFERENCES - KENTE CLOTH
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“A TYPE OF SILK AND COTTON FABRIC MADE OF INTERWOVEN CLOTH STRIPS AND IS NATIVE TO THE AKAN (Asante, Bono, Fante and Nzema) PEOPLE OF GHANA”
BUILDING SERVICES

WATER STORAGE

ACCESS WATER STORAGE

INSTALLATION
BUILDING TECHNOLOGY

STABILITY

WOOD

STEEL

CONCRETE

INPREGNATED PALLET:

MODULAR
EASY TO REPLACE
ABSTRACT KENTE PATTERN
THE GRID - CUBES

SANITATION / WATER STORAGE

TRO-TRO

RESTPLACE

SHADOW

OFFICE
DEMOLISHING A FEW MARKET STALLS
COVERING THE DRAINAGE
PLACING THE MAIN STEEL STRUCTURE with a 4M GRID

IRON MINERALS ARE AVAILABLE IN GHANA, 4 MAIN DEPOSITS
PLACING THE BRACES
PLACING THE STEEL SUBSTRUCTURE
PLACING THE AZOBE / KAKU (RED IRONWOOD) TRUSSES

EXTREMELY HARD, MAXIMUM LENGTH 50 M and SUSTAINABLE IN WATER CONDITIONS
PLACING THE LIGHT TYPOLOGY PALLETS

EASY TO PREPARE
INTERNATIONAL MATERIAL
LIFETIME WITH INTENSIVE USE AROUND THE 3 YEARS
POSSIBLE IN SOFT AND HARDWOOD (DEPANDS ON THE AVAILABILITY OF WOOD
THE SITUATION IN THE OPEN DRAIN

- Buttress steel
- (Existing) Cement block 460mm x 130mm x 230mm
- Concrete cover 100mm
- Concrete base 500mm x 400mm
- (Existing) Open drain (concrete)
- Concrete foundation pile 300mm x 200mm
Azobe wood beam 150mm x 50mm

Azobe wood (structural beam) 300mm x 100mm

Impregnated pallet, light typology 1000mm x 800 x 144mm

Azobe wood (structural column) 300mm x 100mm

Joist Hangar 5mm x 100mm
Plywood flooring (height 5mm)

Fixed joint / node

Installation space (electricity and water)

Galvanized steel U-profile 200mm x 100mm

Buttress steel
FUTURE DEVELOPMENT
4. REFLECTION.
STRENGTH -

INTERCULTURAL EXCHANGE - Confluence of Western and African design culture

URBAN ACUPUNCTURE - Respect to the existing patterns, networks and systems

PUBLIC AMENITIES - Meet some of the needs and demands of the locals

ARCHITECTURAL AESTHETIC - Organizational, Kente structure, Autonomous but Integrated and Modular
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CONSIDERATIONS -

HOW SHOULD WE DEAL WITH ADAPTATION AND MODIFICATION IN ARCHITECTURAL DESIGN?

HOW SHOULD WE TAKE POSITION AS ‘WESTERN’ ARCHITECTS IN AFRICAN COUNTRIES?

SHOULD WE USE ARCHITECTURE TO SOLVE AFRICAN ‘PROBLEMS’?
MEDA WO ASE!

QUESTIONS?
CONSTRUCTION IN RELATION WITH FIRE
CONSTRUCTION IN RELATION WITH FIRE

STEEL CORRUGATED SHEET

CONCRETE DRAIN
Galvanized steel stair frame
Azobe wood handrail 100mm x 100mm
Azobe Plywood stair step (height 5mm)
Galvanized steel stair frame
Galvanized Steel supporting beam
2x Galvanized steel U-profile 200mm x 100mm
Azobe wood handrail 100mm x 100mm
Galvanized steel railing frame 200mm x 100mm
Azobe Plywood flooring (height 5mm)
2x Galvanized steel U-profile 200mm x 100mm
(New) Cement block 460mm x 130mm x 230mm
CONSTRUCTION - STEEL AND WOOD

- Pallet 1000mm x 800mm
- Plywood flooring (height 5mm)
- 2x Galvanized steel U-profile 150mm x 50mm
- Galvanized steel U-profile 200mm x 100mm
SUPERVISOR OFFICE.

ENVIRONMENTAL OFFICE.

KAYAYOO RESTPLACE.

RESTPLACE.

SANITATION

TRO-TRO WAITING SPACE.
AZOBÉ WOOD = RED IRONWOOD or IN GHANA KAKU

EXTREMELY HARD, and used for railroad ties and BRIDGE PLANKING

It’s natural habitat is SUBTROPICAL OR TROPICAL MOIST LOWLAND FOREST

maximum length of a tree is up to 50 METER

Also SUSTAINABLE in WATER CONDITIONS
Minerals presented in Ghana are: gold, **BAUXITE**, manganese and **IRON**

4 main **DEPOSIT** in Ghana: **OPON MANSI**, Shieni, Pudo and Adum Banso

Located on 15 HILLS over 24 km STRIKE
ADAPTATION IS AN EVOLUTIONARY PROCESS WHEREBY A SPACE BECOMES BETTER SUITED TO THE NEEDS OF THE USERS