EROSION FOR BETTERMENT

a multi-scaled and multi-disciplinary case study of the Volta Delta, Ghana

by Eva Ventura
my name is Abina!
my name is Abina!

bay
my name is Abina! bay east of Volta river mouth
my name is Abina!
my name is Abina!
my name is Abina!
Deconstruct
Landscape architecture
Multiple disciplines

economy / management

civil engineering

architecture

urbanism

landscape architecture

anthropology
Come and see!
Why?
Akosombo dam

before construction

after construction
intervene (fixate)
20 km

intervene (fixate)

do nothing (erode)
intervene (fixate)
do nothing (erode)
work with nature
Why do we have to run away from erosion?
threat
accommodate
Erosion can be designed to be an integrated beneficial element of daily life
Erosion
existing protection
characteristics erosion

takes away land
characteristics erosion
takes away land
fills it up with water
low area
How to open it?
ridge
closing channels
Fuvemeh pulled in
inlet

scales of design
boathouse
assemblyhouse
pavilion
pathway
courtyard
private courtyard
compound
private home
coconut farm
tidal inlet
market
communal storage

scales of design

village

inlet
scales of design
scales of design
sedimentation
erosion
settlements

next scale
dynamic and prone to sedimentational or erosional changes
fixed to preserve and protect preferable shape of landscape
new settlements
dynamic with tides (more or less stable due to morphology of inlet)
inlet design

Dynamic and prone to sedimentational or erosional changes
Fixed to preserve and protect preferable shape of landscape
New settlements
inlet design

sedimentation
erosion
settlements

next scale

dynamic and prone to sedimentational or erosional changes
fixed to preserve and protect preferable shape of landscape
new settlements

dynamic with tides (more or less stable due to morphology of inlet)
sedimentation, erosion, settlements

next scale

dynamic and prone to sedimentational or erosional changes
fixed to preserve and protect preferable shape of landscape
new settlements

dynamic with tides (more or less stable due to morphology of inlet)
sedimentation
erosion
settlements

next scale
dynamic and prone to sedimentational or erosional changes
fixed to preserve and protect preferable shape of landscape
new settlements
dynamic with tides (more or less stable due to morphology of inlet)
community design

- 71/109

- sedentation
- erosion

- dynamic and prone to sedimentational or erosional changes

- fixed to preserve and protect preferable shape of landscape

- homes

- new settlements

- vegetation

- dynamic with tides (more or less stable due to morphology of inlet)
community design

dynamic and prone to sedimentational or erosional changes

fixed to preserve and protect preferable shape of landscape

new settlements

vegetation

dynamic with tides (more or less stable due to morphology of inlet)

homes
compound
pavilion
gathering house
gathering house
boathouse
designed
market
sedimentation
erosion
dynamic and prone to sedimentational or erosional changes
fixed to preserve and protect preferable shape of landscape
new settlements
vegetation
dynamic with tides (more or less stable due to morphology of inlet
market
sedimentation  erosion  

dynamic and prone to sedimentational or erosional changes

fixed to preserve and protect preferable shape of landscape

new settlements

vegetation

village design

next scale

market

infrastructure
Village design

- Sedimentation
- Erosion

Dynamic and prone to sedimentational or erosional changes

- New settlements
- Vegetation

Fixed to preserve and protect preferable shape of landscape

Dynamic with tides (more or less stable due to morphology of inlet)

Infrastructure

Market
Next scale

Village design

Sedimentation

Erosion

Dynamic and prone to sedimentational or erosional changes

Dynamic with tides (more or less stable due to morphology of inlet)

Fixed to preserve and protect preferable shape of landscape

New settlements

Vegetation

Market

Infrastructure

Gathering house
waterfront

borders
transportation route

borders
agriculture

borders
vegetation

borders
By using erosion to design an affording landscape like a tidal inlet, placing an attractive element to start development which at the same time welcomes erosion (changing the attitude towards it), defining the edges of settlement and by leaving enough room for interpretation both for the cultural people and dynamic nature.