



EFFECTIVE SPATIAL PLANNING AND LAND USE MANAGEMENT TO PREVENT PERENNIAL FLOODING WITHIN MMDAS

BY AYAWASO CENTRAL MUNICIPAL ASSEMBLY



OUTLINE OF PRESENTATION

- ❖ Introduction
- ❖ Profile of Ayawaso Central Municipal Assembly
- ❖ Causes of Floods in the Municipal Assembly
- ❖ Hot Spots Areas within Ayawaso Central Municipal
- ❖ Solution to Flooding in Ayawaso Central Municipal
- ❖ Proactive Interventions by the Assembly

INTRODUCTION

- ❖ Globally, urban areas are at a high risk of flooding due to the rapid sprawling and often unplanned urban development that is outpacing the construction or improvement of drainage infrastructure.
- ❖ Ghana is confronted with myriad of developmental problems which the issue of perennial flood cannot be overlooked.
- ❖ In the Greater Accra Region, the issue of flooding continues to be a problem which most districts face. E.g. June 3rd, 2015 disaster at Kwame Nkrumah Circle.
- ❖ Ayawaso Central Municipal Assembly is one of the notable Assemblies confronted with this challenge.

PROFILE OF AYAWASO CENTRAL MUNICIPAL ASSEMBLY

❖ Ayawaso Central Municipal is amongst the newly created district established in 2019 by LI 2366

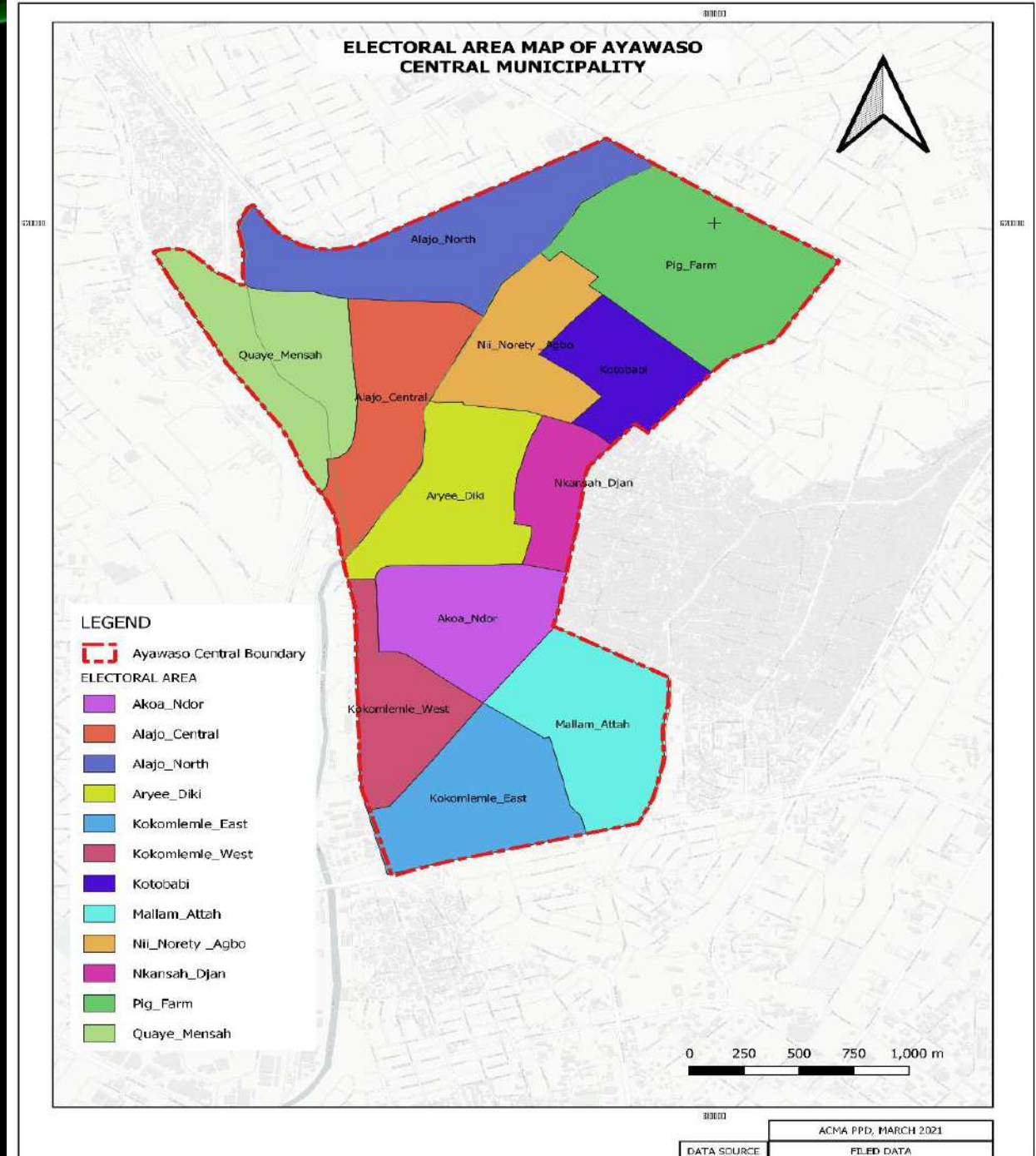
❖ Ayawaso Central Municipal has a total land size of 6.44km^2 .

❖ It shares boundary to the East by Ayawaso East and North Municipal Assembly, AMA to the West, Ayawaso West Municipal to the North and Korle Klottey Municipal to the South.

❖ The Municipality has a population size of 94,831 people(PHC,2021)

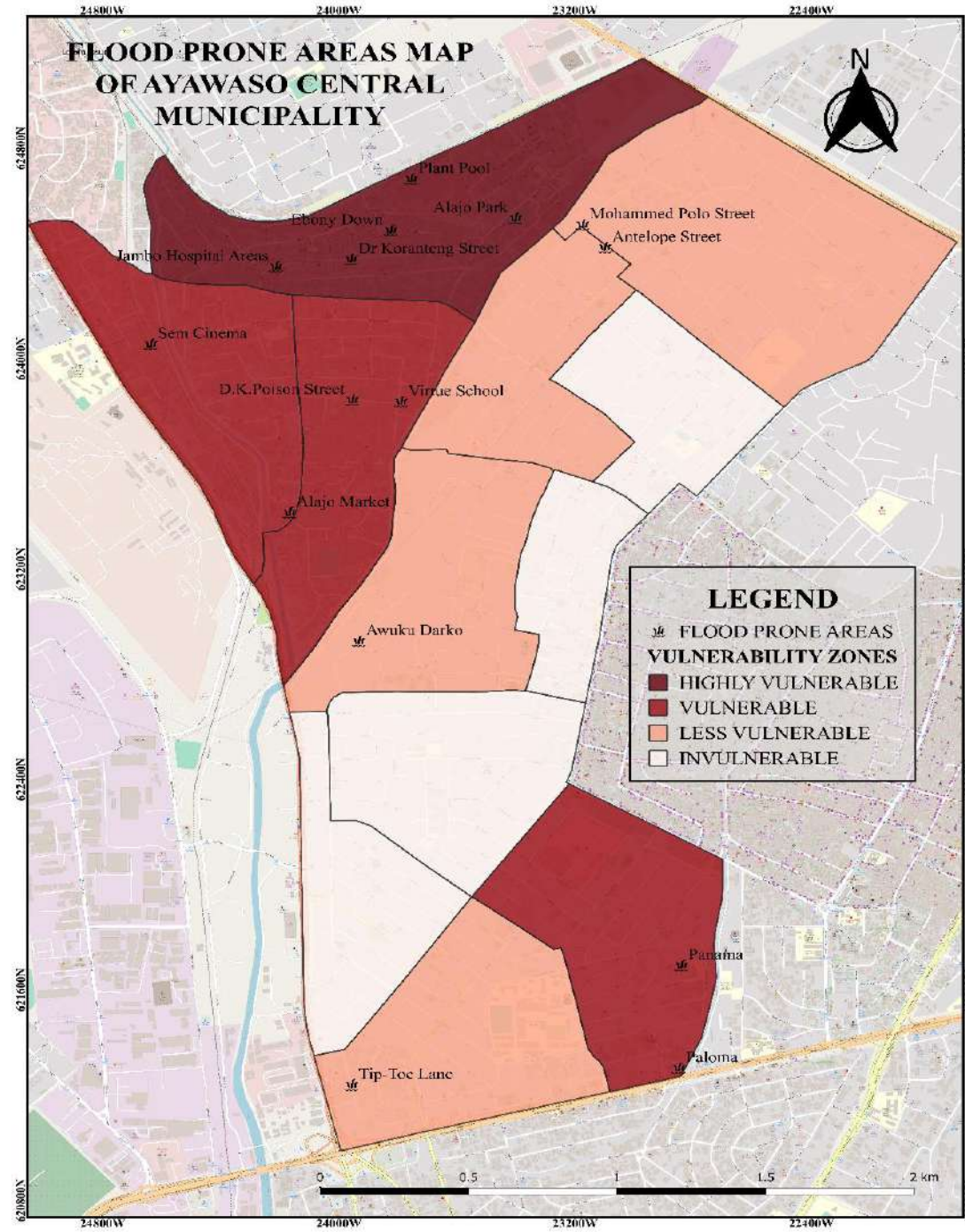
❖ The Municipality has 12 electoral areas.

❖ The Municipality has the Odaw River, Onyansia River traversing through it and the Nima drain



FLOOD HOTSPOTS AND AREAS WITHIN AYAWASO CENTRAL MUNICIPAL

ELECTORAL AREA	FLOOD HOTSPOTS
ALAJO NORTH	Jambo Hospital, Ebony Down Dr. Koranteng Street, Alajo Park , Plant Pool
ARYEE DIKI	Awuku Darko
ALAJO CENTRAL	Alajo Market, D.K Poison Street, Virtue School
KOKOMLEMLE EAST	Tip Toe lane
NII NORTEY AGBO	Antelope Street
MALLAM ATTAH	Paloma and Panama



FLOOD HOTSPOTS WITHIN AYAWASO CENTRAL MUNICIPAL

FLOOD PRONE AREA MAP OF AYAWASO CENTRAL MUNICIPAL ASSEMBLY

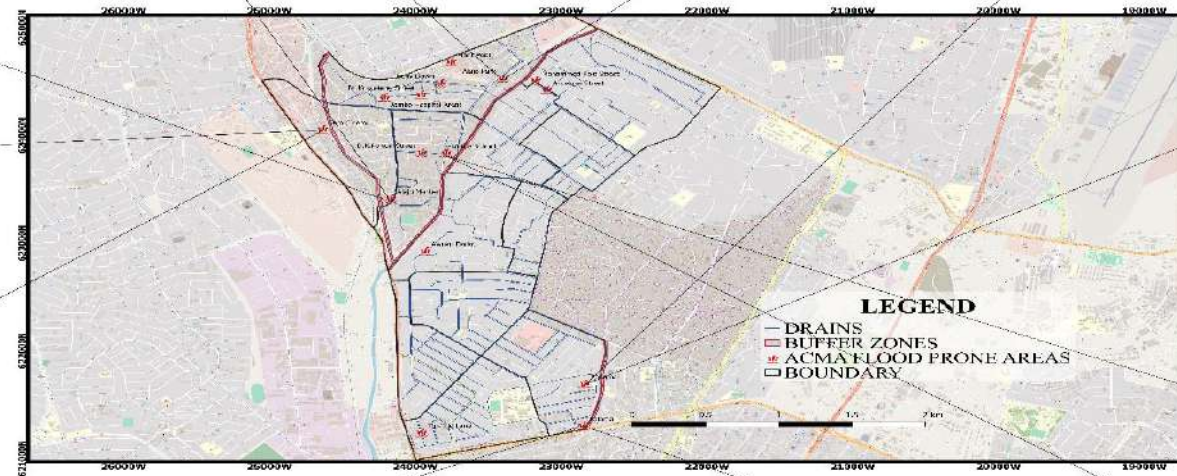
ALAJO MARKET



PANAMA



ALAJO PARK



SEM CINEMA



VIRTUE SCHOOL



PALOMA RESTAURANT

FLOOD SCENES AT ALAJO NORTH AND ALAJO CENTRAL ELECTORAL AREAS



FLOOD SCENES AT PALOMA RESTAURANT



FLOOD SCENES WITHIN THE MUNICIPALITY



FLOOD HOTSPOTS AND AREAs	CAUSES
Jambo Hospital, Ebony Down Dr. Koranteng Street, Alajo Park , Plant Pool	Sanitation Challenges (bad solid waste management practices –indiscriminate dumping of solid waste into drains and open spaces), Natural feature (low elevation , lower course of the odaw river)
Awuku Darko	Inadequate drainage infrastructure, Spatial Planning (Haphazard Development)
Alajo Market, D.K Poison Street, Virtue School	Natural feature(Lower course of the Odaw river) Spatial Planning, Bad Construction practices (Paving of lots with impermeable building materials),
Tip Toe lane	Sanitation Challenges (bad solid waste management practices),
Antelope Street	Infrastructure/engineering challenges (inadequate sizing of drainage culvert (3m x3m triple cell))
Paloma and Panama	Spatial Challenge (encroachment of drainage reservation, paving of properties with impermeable building materials)

CAUSES OF FLOODS IN THE MUNICIPAL ASSEMBLY

- ❖ Sanitation Challenges (Bad solid waste management practices)
- ❖ Spatial Planning Challenges (Bad construction practices, encroachment of drainage reservation).
- ❖ Inadequate drainage infrastructure and engineering challenges
- ❖ Enforcement Challenges
- ❖ Natural Feature (Low Elevation)

SOLUTION TO FLOODING IN AYAWASO CENTRAL MUNICIPAL

- ❖ Periodic desilting and dredging of drains within the Municipality
- ❖ Urban upgrading project (Construction of new drains and repair of broken down drains within the Municipality)
- ❖ Protection of ecological sensitive zone.eg Growing of trees within buffer zones
- ❖ Sensitization of the general public on good construction and sanitation practices.
- ❖ Effective and stringent enforcement of laws and regulations especially the building regulations and building codes
- ❖ Construction of Bailey bridge
- ❖ GARID and Hydrological Services interventions.

SCENES FROM DESILTING AND DREDGING EXERCISES



IMAGES OF NEW DRAINS WITHIN THE MUNICIPALITY



The image features a solid black background. At the top, there is a decorative, wavy border with a color gradient. From left to right, the colors transition from a warm orange-red to a bright yellow, then to a vibrant green, and finally to a light blue on the far right. The waves of the border are smooth and fluid, creating a sense of movement.

THANK YOU