



GEOIMPACT WEST AFRICA | Q4 2025 EDITION

EMPOWERING WEST AFRICA
WITH INTELLIGENCE



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Foreword

This GeolImpact West Africa edition highlights Q4 2025 geospatial innovations, GIS Day engagements, and Sambus Geospatial's commitment to resilient, data-driven development across the region.

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Geospatial technology empowers Africa to understand change, anticipate risks, plan smarter cities, strengthen communities, and build resilient futures through data, people, and location-based decisions.

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FOREWORD

As we conclude the fourth quarter of 2025, we are pleased to present this edition of GeolImpact West Africa, highlighting how geospatial intelligence continues to drive innovation, resilience, and digital transformation across the region.

This quarter, our Solutions in Action showcase the practical impact of location intelligence in addressing some of West Africa's most pressing challenges. From advancing early flood warning systems in Ghana through cutting-edge geospatial technology, to accelerating digital transformation with automation, and transforming Nigeria's utility sector with data-driven spatial insights, these stories reflect the growing role of GIS in informed decision-making and sustainable development.

We also celebrate the spirit of learning, collaboration, and community through our GIS Day activities across our Lagos, Abuja, and Accra offices. The photo gallery captures moments of engagement, knowledge sharing, and inspiration as we connect with professionals, students, and partners to promote the power of geospatial technology.

As Sambus Geospatial continues its mission to advance location intelligence across West Africa, we remain committed to delivering innovative solutions, building capacity, and supporting our partners and stakeholders in shaping a smarter, more resilient future for the region. We hope this edition informs, inspires, and reinforces the value of geospatial thinking in driving impactful change.

Akua Aboabea Aboah
Managing Director - Sambus Geospatial

IN FOCUS

Mapping Ideas, Building Futures: Advancing Geospatial Thinking in Africa

Across Africa, decisions are getting harder to make. Cities are expanding faster than plans can keep up with. Rains are heavier, floods more frequent, and infrastructure is under increasing strain. Populations are growing, resources are stretched, and leaders are under pressure to act quickly, often with incomplete information. Behind every one of these challenges lies a simple but powerful question: where is this happening?

From Maps to Insight

Geospatial technology is helping us answer that question in new ways. Not just by showing places on a map, but by revealing patterns, highlighting risks, and guiding smarter action. What was once seen mainly as a mapping tool has quietly evolved into a powerful decision-support system.

Today, GIS platforms bring together satellite imagery, real-time data, analytics, and artificial intelligence. They allow organisations to move beyond reacting to events after they happen, to anticipating them before they unfold. This shift, from mapping what has already occurred to shaping what comes next, is changing how societies plan, invest, and protect their people.

Clarity in a Complex World

As technology advances, it's natural to feel a sense of uncertainty about the future. Social, environmental, economic, and cultural changes are happening all at once, and the pace can feel overwhelming. Yet within the noise of the data we generate every day, geospatial technology helps us find clarity. It helps us understand what is happening, where it is happening, how it is happening, and why.

Making a Real Difference

Across Africa, this clarity is already making a difference. GIS is supporting flood preparedness, improving urban planning, strengthening public health responses, optimising agriculture, and managing critical infrastructure. These are not abstract ideas or distant innovations. They are practical tools helping communities become safer, more efficient, and more resilient.

In West Africa, the need for this kind of insight is especially urgent. Rapid urbanisation, land-use pressure, flooding, and infrastructure gaps demand solutions grounded in data and local context. Increasingly, organisations across the sub-region are using GIS to simulate scenarios, test decisions, and reduce uncertainty before action is taken. Instead of guessing, they can see possible outcomes and plan with confidence.

But technology alone is not the real driver of change.

People Power Innovation

The true power of geospatial innovation lies in the people behind it, the professionals, institutions, students, and communities who combine spatial data with local knowledge to solve real problems. This raises an important question: do we have enough people with the skills to meet today's demands, let alone tomorrow's? Are these opportunities visible and accessible? And how do we ensure that no one is left behind as innovation accelerates?

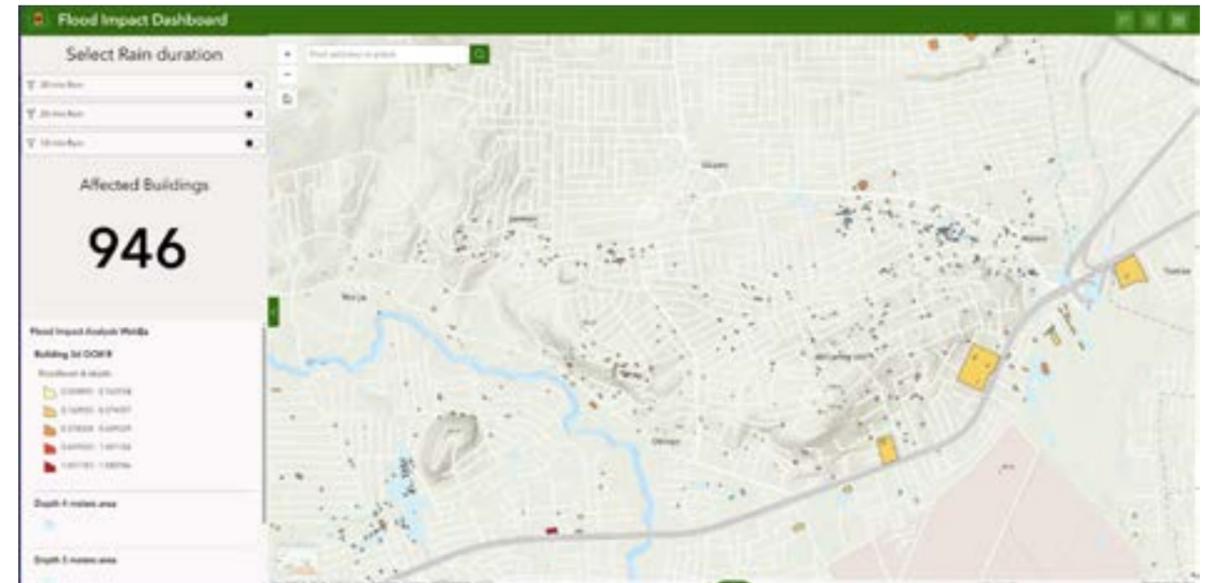
Shaping Tomorrow

At Sibus Geospatial, these questions shape our work. From the GeoAcademy programme and industry webinars to the Esri User Conference West Africa and strategic partnerships, we are expanding access to geospatial skills and creating pathways for professionals and students to thrive. Our focus is on helping people see how GIS is used in the real world, understand the tools available to them, and connect across industries with various experience levels.

As Africa looks ahead, geospatial thinking will continue to shape smarter cities, stronger economies, and more resilient societies. The future is no longer just being mapped. It is being imagined, analysed, and built, one location-based decision at a time.

We are standing at a crossroads, with the tools, the talent, and the opportunity to shape what comes next. Here, we are ready to help you map your ideas. The future is ours. Let's embrace it.

SOLUTIONS IN ACTION



Flood simulation dashboard for Weija, Ga South Municipality, Ghana

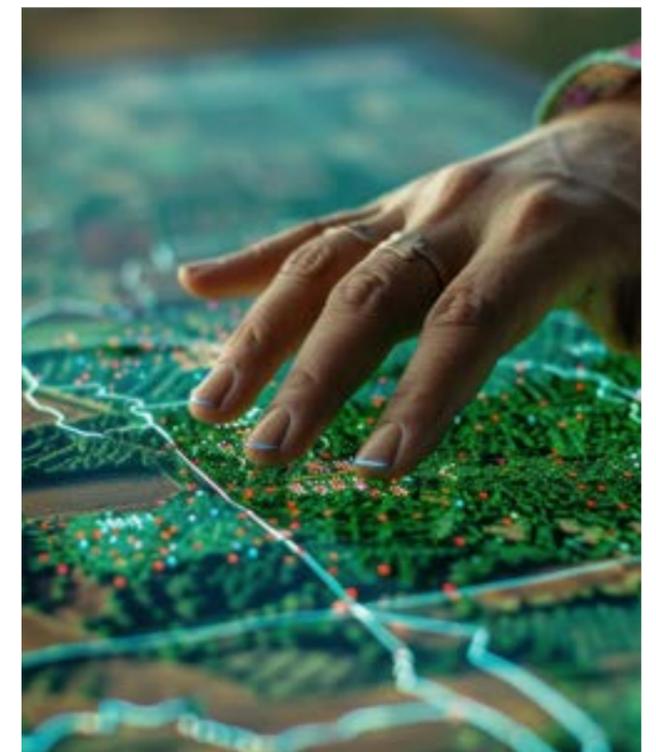
Innovating Early Flood Warning in Ghana with Geospatial Technology

Flooding in southern Ghana has become an all-too-familiar reality. On a single day (21st May 2025) floods claimed four lives and displaced over 3,000 people in Accra. These recurring catastrophes highlight the urgent need for better ways to anticipate and manage disaster risks.

As part of Sibus Geospatial's 2025 GIS Day celebration and our commitment to building a more sustainable society, we demonstrated how digital mapping tools can support disaster preparedness and asset management. During a session with officials from the National Disaster Management Organisation (NADMO), a rainfall simulation showed how water flows across different landscapes.

By analysing land features such as slopes, valleys, and low-lying areas, the simulation helps identify flood-prone zones before heavy rainfall occurs. This visual, "what-if" approach enables planners and emergency responders to move beyond assumptions, plan safer infrastructure, protect critical facilities, and respond more effectively.

The showcase reinforced how combining local knowledge with modern mapping technology can transform complex data into practical insights, helping communities plan ahead, reduce losses, and save lives.



Technical Corner

	What was the challenge? Yearly flooding with few effective measures for mitigation
	What was the solution? A means to predict flooding with considerable accuracy: A flood simulation that enhances flood prediction for early warning systems, cross-team collaboration and decision-making was needed
	Who was the solution meant for? National Disaster Management Organisation, Ghana
	What tools/technology were used? <ul style="list-style-type: none"> • ArcGIS Pro (Professional Plus) • ArcGIS Dashboards • Digital Elevation Model (DEM) data • Terrain data • LiDAR
	Where was the data from? Weija, Ga South Municipality, Ghana
	How else can the solution be applied? Predictive analysis, especially in <ul style="list-style-type: none"> • Flood management • Crop management



Driving Digital Transformation Through Automation

Africa is becoming more digital. Communities, organisations and individuals alike are embracing a more virtual way of doing things. With this digital transformation, our society is becoming more advanced and integrated.

In late 2025, Samburg Geospatial introduced two smart digital tools designed to make work faster, easier, and more accurate.

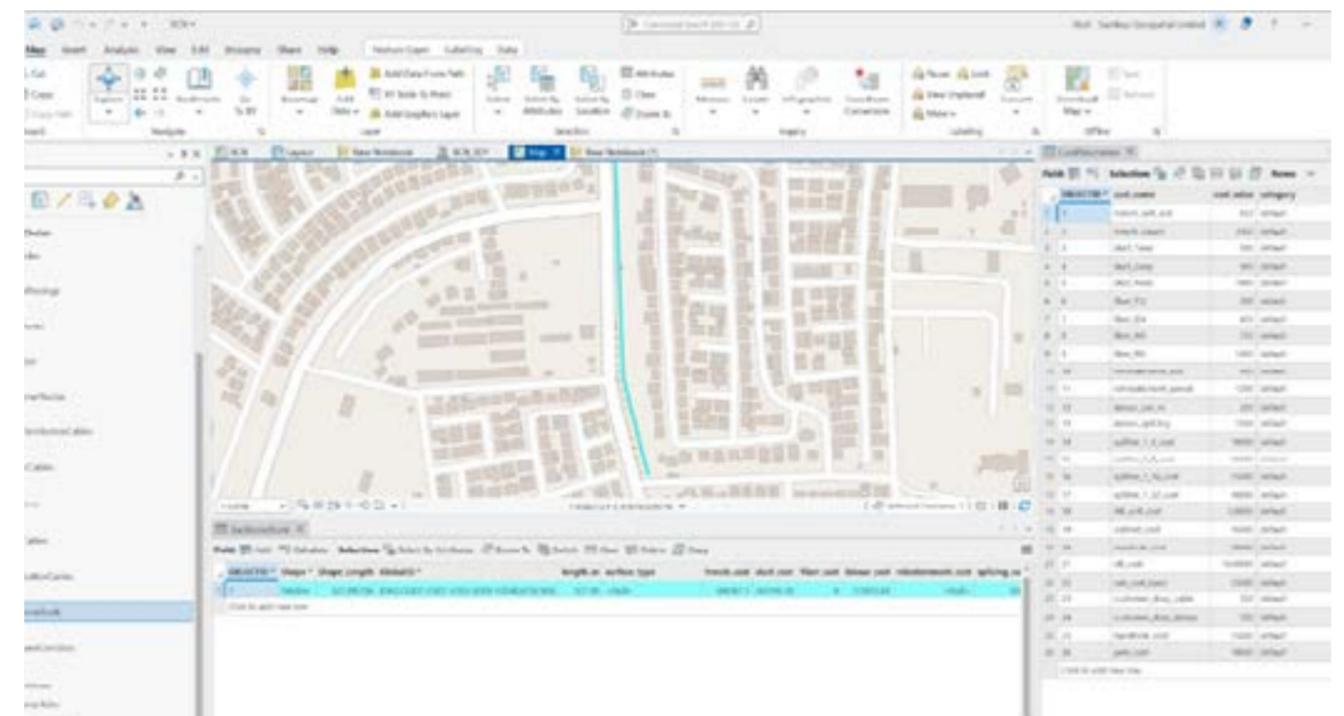
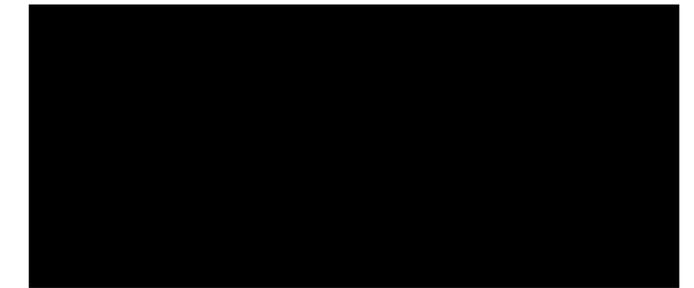
The first tool helps companies calculate how much it will cost to build fibre-optic internet networks. Before this, engineers often used spreadsheets and manual calculations, which could take a lot of time and lead to mistakes. Now, the system automatically creates detailed cost estimates directly from digital network designs.

This means companies can plan projects faster, avoid errors, and make better decisions about their budgets. The tool was developed for Backbone Connectivity Network

(BCN) and successfully presented to their leadership team.

The second tool helps organisations move their online maps and data to a more secure internal system. Normally, transferring this information can take weeks and be very complicated. Samburg created a solution that moves everything, including maps, dashboards, and data, quickly and safely in just a few days.

Together, these new solutions show how Samburg Geospatial is using technology to solve real problems. By reducing mistakes, saving time, and improving security, the company is helping organisations work smarter and make confident decisions.



Fibre Cost Automation Tool

Technical Corner

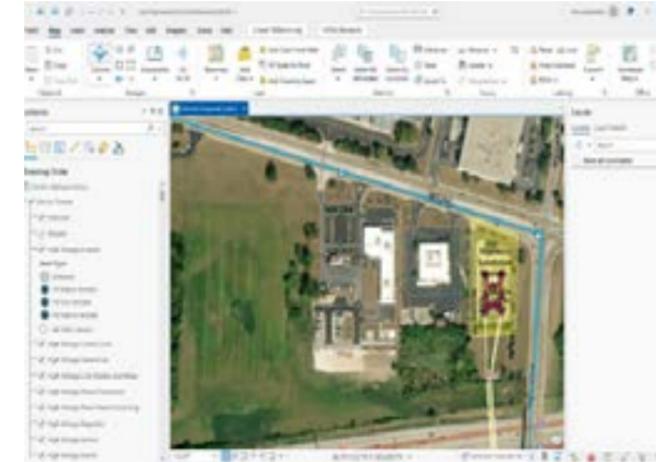
	<p>What was the challenge?</p> <ul style="list-style-type: none"> • The need to eliminate manual cost calculations, spreadsheets, and slow planning processes in fibre network design • Time-consuming, error-prone portal migrations when organisations move from ArcGIS Online to ArcGIS Enterprise
	<p>What was the solution?</p> <p>A fully automated, real-time fibre network cost modelling solution that:</p> <ul style="list-style-type: none"> • Automatically generates BOQs and cost breakdowns • Supports scenario analysis and faster decision-making <p>A one-click portal migration automation tool that:</p> <ul style="list-style-type: none"> • Clones entire ArcGIS Online environments into ArcGIS Enterprise • Preserves functionality, styling, and dependencies
	<p>Who was the solution meant for?</p> <p>Backbone Connectivity Network (BCN)</p>
	<p>What tools/technology were used?</p> <ul style="list-style-type: none"> • ArcGIS Pro • Automation and rule-based GIS modelling
	<p>Where was the data from?</p> <ul style="list-style-type: none"> • Abuja, Nigeria
	<p>How else can the solution be applied?</p> <p>Any organisation requiring:</p> <ul style="list-style-type: none"> • Network cost modelling • Enterprise GIS migration and data sovereignty <p>Including</p> <ul style="list-style-type: none"> • Telecommunications infrastructure planning • Utility networks (power, water, gas) • Transport and linear infrastructure projects • Smart city and urban infrastructure planning

Transforming Nigeria's Utility sector with Geospatial Intelligence

Electricity distribution networks are growing more complex, yet many utilities still rely on fragmented records and limited visibility into how assets connect across the grid. When faults occur, this lack of clarity slows response, prolongs outages, and increases operational strain. This challenge calls for a smarter way to understand and manage power infrastructure.

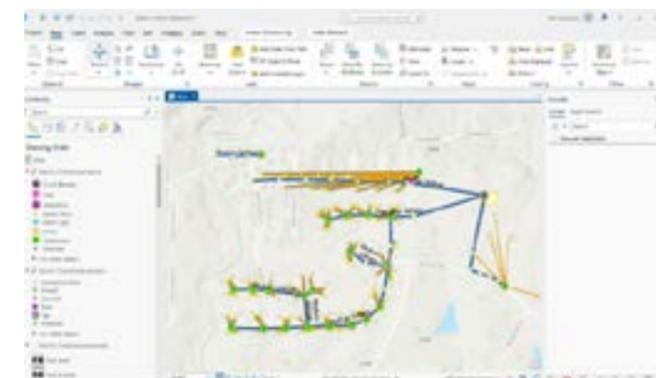
In Q4 2025, Sibus Geospatial demonstrated how geospatial technology can support better electric distribution management through a Utility Network Intelligence demo for Yola Electricity Distribution Company.

The demo presented a digital utility network model that visualizes power distribution from injection



substations through transformers to downstream assets. By connecting infrastructure spatially, it showed how utilities can clearly understand asset relationships, trace power flow, and assess outage impacts within a single geospatial view.

This map-based approach illustrates how utilities can move from reactive operations to informed decision making. By turning complex network data into clear visual insight, the demo highlighted a practical path toward faster fault isolation, better maintenance planning, and improved network reliability



Technical Corner

	<p>What was the challenge?</p> <p>Fragmented operational data, limited visibility, delayed response times and decision-making</p>
	<p>What was the solution?</p> <p>ArcGIS-powered geospatial solutions that unified operational data into integrated map-driven dashboards</p>
	<p>Who were the solutions meant for?</p> <p>Yola Electricity Distribution Company</p>
	<p>What tools/technology were used?</p> <ul style="list-style-type: none"> • ArcGIS Pro • ArcGIS Online • ArcGIS Dashboards
	<p>Where was the data from?</p> <ul style="list-style-type: none"> • ESRI Portal • Pseudo Data
	<p>How else can the solution be applied?</p> <p>Asset management, field operations, risk monitoring, & compliance</p>



UPCOMING EVENTS



Q1 Webinar
Date: TBD



Esri Partner Conference
Date: 8th - 9th March 2026
Location: Palm Springs, California



Young Scholar Award Submissions
Deadline: 27th February 2026



GeoAcademy
Next cohort: Q1 TBD



Esri User Conference 2026
Date: 13th - 16th July 2026
Location: San Diego, California



Esri User Conference, West Africa 2026
Date: 15th -16th September 2026
Location: Accra Ghana



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