

HP + Amini



HP has long believed that companies have a role to play in safeguarding our planet and communities. We aim to be the most sustainable and just technology company. At HP, sustainability isn't only the right thing to do – it's good for business.

Meet Kate Kallot

Kate heads up Amini, Africa's only artificial intelligence-based climate data aggregator. She was named one of Time Magazine's 2023 100 most influential people in AI. Kate and her team of data scientists are leveraging geospatial data and big data analytics to detect groundwater sources in vertical farming locations to help address critical issues of food scarcity and climate change.



Empowering Africa's Farmers to Feed the Continent

Amini's transformative data processing, powered by the collaborative strength of HP and NVIDIA AI workstation solutions, has revolutionized agriculture. With high-performance computing, driven by HP and NVIDIA AI workstation solutions, Amini has enabled real-time data analysis. These technologies play a pivotal role in providing critical information to 7 million small stakeholder farmers through Amini running their AI models on HP AI Workstations.

60% of African population working as small holder farmers.*

Since partnering with HP and NVIDIA the team has been able to scale their work 10x*, and their insights are already bearing fruit. Farmers now harness data for actionable insights into weather patterns, crop health, and market trends. Models are created, trained, and deployed from HP and NVIDIA AI workstation solutions. Their first application enabled insurance companies to offer lower prices to Kenyan farmers, give millions of farmers life-changing help while achieving higher crop yields.

Two Z8 Fury desktops with four RTX 5500 cards provided to Amini resulted in 23x faster geospatial analysis with Rapids compared to cloud.*

23x



- NVIDIA Rapids with GPU integration has revolutionized our geospatial computations, achieving a remarkable 23-fold increase in processing speed.
- This acceleration enables more iterative testing, higher-resolution data analytics, and enabling content-wide data analysis with unprecedented efficiency and speed.

HP is taking aggressive action to address issues where we can make the biggest impact – climate action, closing the digital divide and protecting human rights. That’s why HP, NVIDIA and Amini recently opened an AI Climate lab in Nairobi, Kenya. This collaboration is a result of HP’s involvement in the United AI Alliance. The lab, which features Z by HP AI Workstations is managed by Amini, in collaboration with the UNAIA & Kenyan Ministries, President and First Lady of Kenya, and Ministry of ICT.

“We need to find a way that the people in the global south get access to the right information, the right tools that will help them lift themselves out of poverty.”

- Kate Kallot

\$30,000 Amini’s monthly savings on cloud compute resources thanks to on-prem solutions from Z by HP.*

Additional Data Applications

While our top priority is making sure farmers are productive enough to feed the continent, we are also involved with many other projects that help Africans preserve their heritage and way of life.



Historical Records Digitization:

Amini’s collaboration with PMO Barbados is instrumental in digitizing historical records, including those related to the slave trade. The advanced computing capabilities of HP and NVIDIA AI workstation solutions ensure efficient processing and preservation of historical data.



Climate Adaptation:

The combined power of HP and NVIDIA AI workstation solutions enables the monitoring and analysis of climate data for more informed decision-making.



Cultural Heritage and Technology:

Amini’s contribution to historical digitization showcases the democratization of AI - HP and NVIDIA AI workstation solutions will help Barbados get started on this digitization journey.

While the digital economy holds promise for many, it also threatens to leave billions behind.

That’s why we’ve worked to establish the AI Alliance foundation. An organization with the goal to support governments, non-profits and local developer communities with training and technology to democratize AI and improve informed policy making in the African continent. HP and NVIDIA AI workstation solutions together are the platform of choice to extend to future public sector engagements.

* This claim comes from Amini and has not been independently verified by HP.

