



**Elizabeth Glaser
Pediatric AIDS Foundation**
Fighting for an AIDS-free generation



Digital Health at The Elizabeth Glaser Pediatric AIDS Foundation

The Elizabeth Glaser Pediatric AIDS Foundation (EGPAF) partners with ministries of health to design, develop, deploy, and maintain national health information ecosystems. A proven leader in the fight to end HIV and AIDS, EGPAF's experience shows that digital health solutions—and the strategic data we're able to capture and leverage—will be key to reaching and sustaining HIV epidemic control.

EGPAF's approach blends technical expertise in the delivery of health services with our digital health capabilities, to strengthen national data systems to improve patient health services.

By the Country

Malawi

Developed a national integrated electronic medical records system used in 770 facilities, with reliable interoperable modules, automating clinic services and allowing for real-time patient data.

Kenya

Piloted and scaled up the cloud-based Kenya EMR across 300 facilities, ensuring that all clinical decision-support capabilities are located at the point of care.

Democratic Republic of Congo & Cameroon

Expanded integrated electronic medical records systems to enhance patient data sharing across facilities. In each country, EGPAF established a clinical data repository to receive, store, and transform data from various sources, including patient-level data and clinical information.

Mozambique

Collaborating with the ministry of health to create a national patient management system.

Lesotho

Working with HISP South Africa to transform the existing eRegister system into a comprehensive, hospital-wide point-of-care solution, with a focus on improving HIV indicator outcomes across the country.

Zimbabwe

Developed a new Malaria Module in Zimbabwe's Impilo electronic health record system that enhances malaria detection, treatment, and reporting.

Tanzania

Using SMS printers in 113 health facilities to expedite the return of lab results, particularly for early infant HIV diagnosis, reducing turnaround time to under two weeks.

Our digital health strategy has three guiding principles:



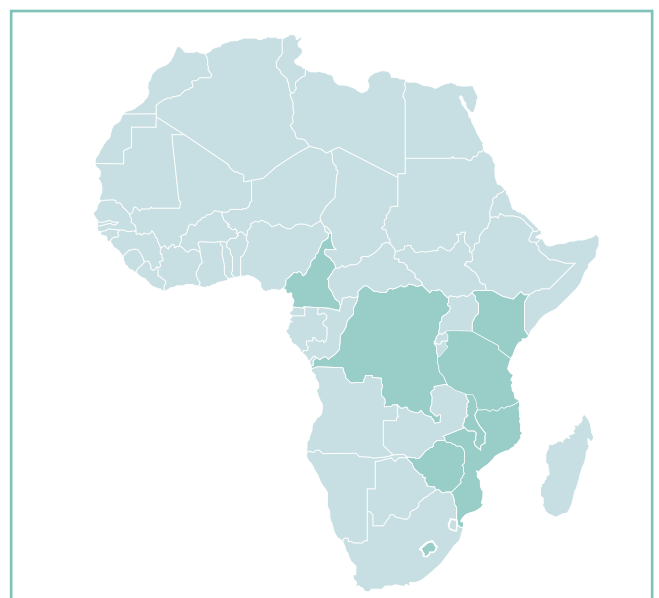
At the point of service, systems designed to **standardize quality and patient-centered care**



Hospital-wide digitalization that allows for a **comprehensive perspective on the patient's care**



Nationally **interoperable services that centralize and process longitudinal patient data** from diverse sources, making it available for nationwide analytics



Working with Ministries of Health across Africa, EGPAF builds sustainable technology solutions to advance precision health care.



Clinic-wide HIS and use of EMR systems

EGPAF develops and supports clinic- and hospital-wide information systems linked to electronic medical records that are integrated and interoperable across health programs, labs, pharmacies, and payment systems.



Interoperable Systems

EGPAF ensures integration and interoperability of systems and modules for improved patient care, and seamless exchange of information from the patient, community, and facility.



Data Lakes and Big Data

EGPAF-managed data lakes aggregate and manage data, including collection, consolidation, processing, storage, modeling, and data visualization, enabling MOH program managers to discover useful insights to guide decision-making.



Health Informatics

EGPAF dashboards and health informatics tools help country leaders map out existing resources and gaps, to more accurately respond to client needs and to triangulate data from multiple sources to drive policy and resource allocation.



Digital Tools for Patients and Providers

EGPAF develops and adapts a wide range of SMS tools and mobile applications to help providers support patients in tracking their own healthcare, interact more seamlessly with the health system, and access information.



AI and Machine Learning

EGPAF is harnessing the power of AI and machine learning to provide improved care to the people who need it most, leveraging the vast platform of data within EMR systems and national data repositories.



Scaling HIS Infrastructure

EGPAF works closely with MOHs to train and support MOH infrastructure teams to design, deploy, and maintain all infrastructure required for National Health Information Systems.



Partnerships and Investment

EGPAF partners with a variety of technology companies that offer solutions to advance our vision for digital health use in the HIV space, and that provide value to MOHs, in keeping with their program needs.

To learn more about digital health at EGPAF, visit pedaids.org/digitalhealth.

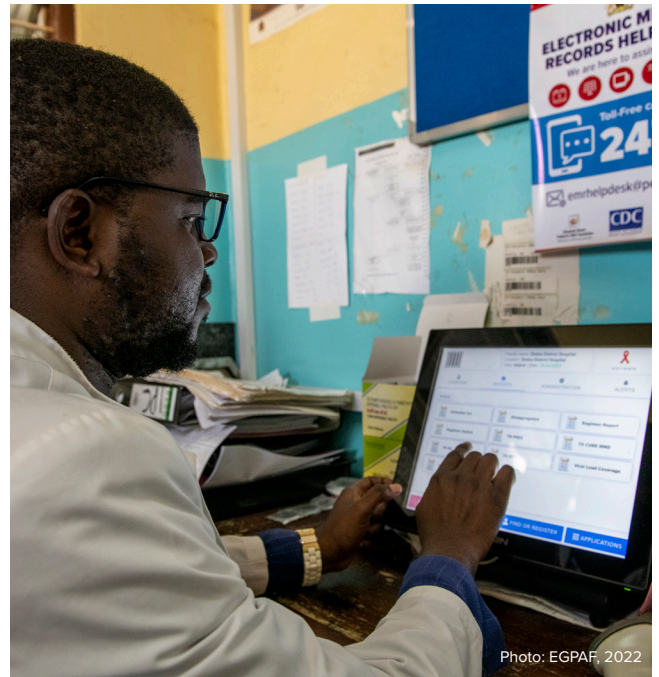


Photo: EGPAF, 2022

HIS Spotlight

EGPAF has supported Malawi's Ministry of Health with the following:

- Developed and deployed at scale an integrated, easy-to-use electronic medical record system (EMRS) with reliable, interoperable modules and automating clinic services that allows access to real-time patient data.
- Automated reporting from clinic EMR systems: Currently generating 16,000 reports quarterly, covering 100% of people living with HIV on antiretroviral therapy in Malawi (943,399 people) across all 790 clinics that provide HIV services.
- Integrated lab information systems to work across clinic systems, sample transportation, and return of test results, reducing turnaround time from 52 days to 5 days.
- Modernized a birth and death registration system to link with the National ID system.
- Established the Central Data Repository (CDR) that receives, stores, and transforms data from multiple sources, including patient-level data from antiretroviral therapy, outpatient department, antenatal care, TB, and HIV testing modules, as well as other clinical, lab systems, and birth/death registration data.
- Created the Malawi Analytics Platform (MAP), a web-based platform that provides end-users with reports, data analytics, and dashboards for program decision-making.