

EEG & Neurotechnology: Reading the Brain's Electrical Story

EEG remains one of the most accessible and powerful windows into brain function — and it is more critical than ever for African healthcare.

What EEG actually measures

EEG records the brain's electrical activity through scalp electrodes. It is non-invasive, affordable compared to imaging, and uniquely able to capture brain dynamics in real time.

The African epilepsy gap

Africa has some of the highest epilepsy rates globally, yet access to EEG remains scarce. Expanding EEG capacity is one of the most impactful neurodiagnostic investments the continent can make.

Beyond diagnosis

Modern EEG underpins brain-computer interfaces, sleep medicine, ICU monitoring and cognitive research. It is foundational neurotechnology.

Key takeaways

- EEG is non-invasive, affordable and powerful
- Africa urgently needs broader EEG access
- EEG underpins many emerging neurotechnologies
- Trained technicians are as important as the equipment

Africa focus

Investing in EEG infrastructure and training is among the highest-impact neurodiagnostic priorities for African healthcare systems.