



*Revolutionizing Healthcare in Africa with AI*

Empowering Communities, Transforming Care, Combating Resistance.

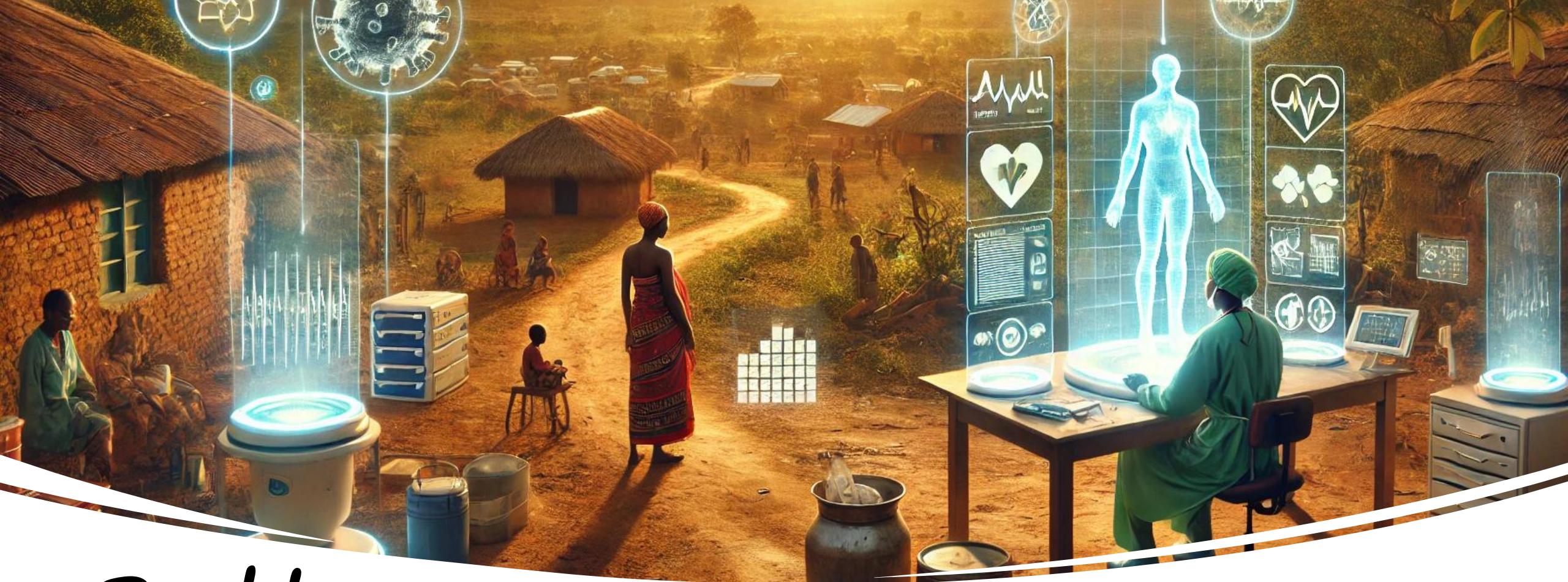
# Mission and Vision

## **Mission**

Our mission is to improve healthcare outcomes in Africa by leveraging artificial intelligence to combat antimicrobial resistance and ensure accessible, accurate, and affordable healthcare for all communities, regardless of location, language, or economic status.

## **Vision**

Our vision is to lead Africa's digital health transformation by building AI-powered solutions that create equitable healthcare access, empower healthcare workers and patients, and position African-led innovation at the forefront of global healthcare advancement.



# Problem Statement

In Africa, antimicrobial resistance causes approximately 50% of infections, contributing to the global AMR-related mortality of over 700,000 annually. Healthcare access disparities further exacerbate these challenges, with rural areas experiencing a 50% shortfall in necessary medical personnel and less than 50% medication adherence rates for chronic conditions. This situation underscores a critical need for innovative technological solutions to improve diagnostic accuracy and healthcare delivery across underserved communities.

# Key Challenges

**Antimicrobial Resistance:** AMR is responsible for over 700,000 global deaths annually, with sub-Saharan Africa being disproportionately affected. Lack of tools to ensure proper medication use and adherence exacerbates this crisis.

**Disparities:** Rural areas face a 50% shortfall in healthcare workforce. Limited access to diagnostic tools and trained professionals in underserved communities.

**Inconsistent Diagnostic Practices:** Healthcare workers often struggle with accurate and timely diagnoses due to limited resources. Misdiagnoses increase treatment errors and worsen patient outcomes.

**Medication Adherence Challenges:** Less than 50% adherence rates for chronic conditions, leading to poor health outcomes and increased healthcare costs.

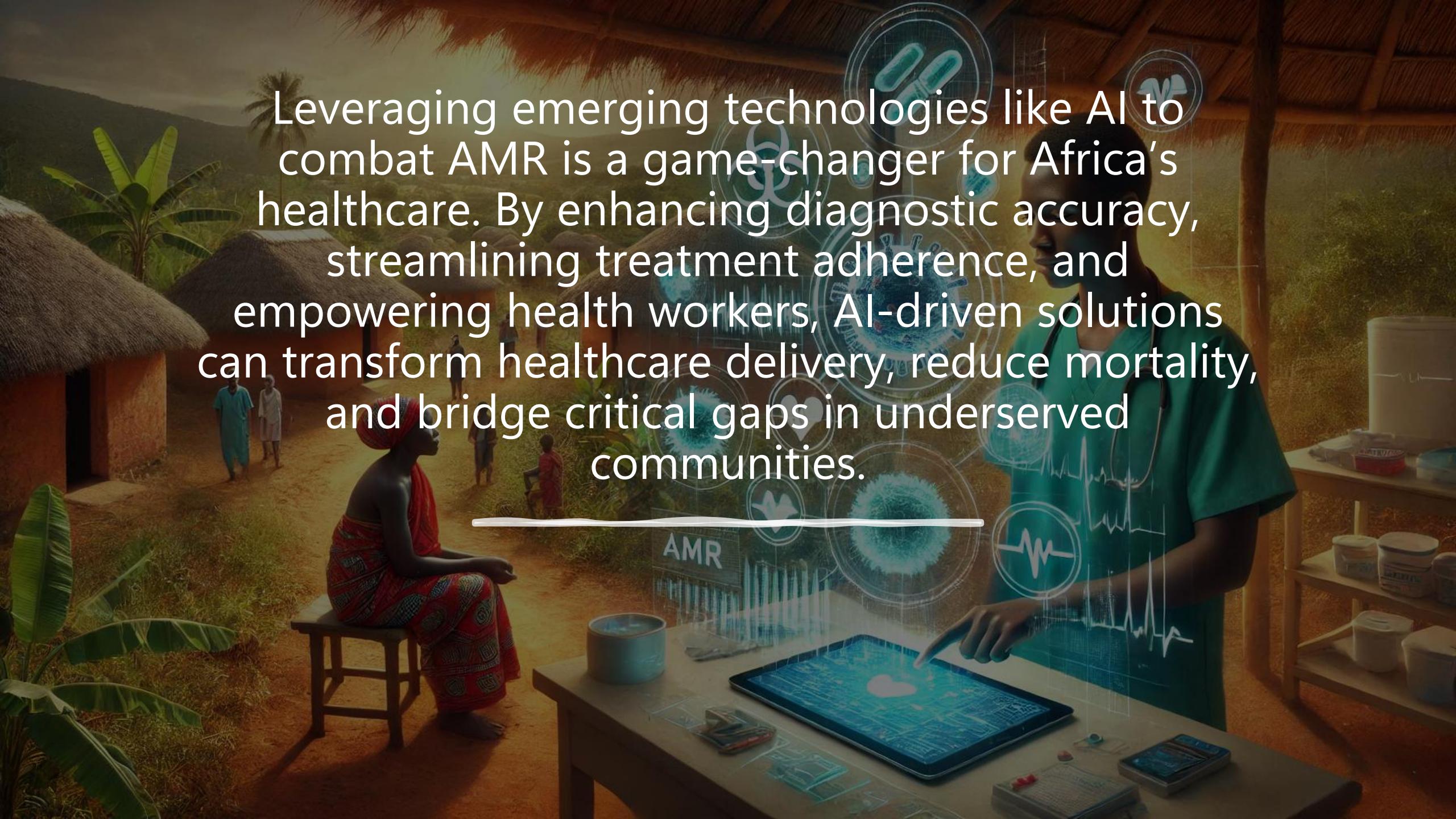
**Lack of Technological Integration:** Many healthcare systems rely on outdated or manual processes. Limited infrastructure for AI-powered solutions to streamline diagnostics and patient care.

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# Consequences of Inaction; in Africa

- Antimicrobial resistance causes an estimated 99 deaths per 100,000 people in Africa, among the highest globally.
- Misdiagnoses and low medication adherence result in untreated diseases like malaria, tuberculosis, and HIV, worsening patient survival rates.
- Families in rural areas spend up to 10% of their annual income on repeat medical treatments due to ineffective care.
- Clinics and hospitals in rural Africa often serve thousands with minimal staff and outdated tools, leading to burnout and reduced care quality.





Leveraging emerging technologies like AI to combat AMR is a game-changer for Africa's healthcare. By enhancing diagnostic accuracy, streamlining treatment adherence, and empowering health workers, AI-driven solutions can transform healthcare delivery, reduce mortality, and bridge critical gaps in underserved communities.

# Our Solution: Medikal

**AI-Driven Diagnostic Support:** Utilizes advanced AI models to provide accurate and timely diagnoses, reducing errors and misdiagnoses.

**Medication Adherence Monitoring:** Sends automated reminders and tracks patient compliance, ensuring proper medication use to combat antimicrobial resistance (AMR).

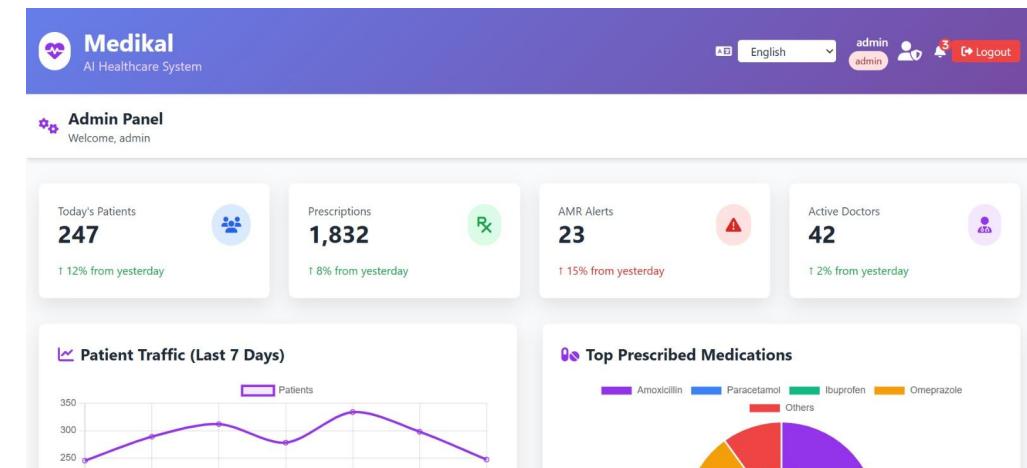
**Empowering Healthcare Workers:** Equips community health workers and clinicians with user-friendly AI tools to improve efficiency and patient care, even in resource-limited settings.

**Analytics and Insights:** Provides real-time data on AMR trends and patient outcomes, enabling better decision-making and healthcare planning.

**Accessibility, Inclusivity & Language Localization:** Offers offline functionality and multilingual support—including local African languages—so communities in rural or underserved areas can access and use the platform regardless of connectivity or language barriers.

**Comprehensive Patient Management:** Simplifies record-keeping and treatment tracking, creating a seamless healthcare experience for patients and providers.

**AMR Awareness Tools:** Educates communities about the risks of antimicrobial resistance and promotes preventive measures.



# Who Medikal Serves

**Hospitals:** Tackle complex cases by reducing misdiagnoses and improving treatment plans with AI-powered tools.

**Clinics (Public and Private):** Support frontline healthcare providers with accurate diagnostics and patient management systems to streamline workflows.

**Community Health Workers:** Empower health workers in rural and underserved areas with easy-to-use AI tools, enabling better care delivery and increased health literacy.

**Schools and Educational Facilities:** Promote early health education and use AI tools to monitor student health trends, addressing challenges at their roots.

**Policy Makers and NGOs:** Provide actionable insights through data analytics to shape policies and interventions against antimicrobial resistance.

**Patients in Underserved Communities:** Enhance access to quality healthcare, education on medication adherence, and preventive measures for better health outcomes.



# The Future with Medikal

**Reduction in Mortality Rates:** Decrease AMR-related deaths by enhancing diagnostic accuracy and ensuring effective treatments.

**Improved Medication Adherence:** Achieve over 80% adherence to prescribed treatments through automated reminders and tracking tools.

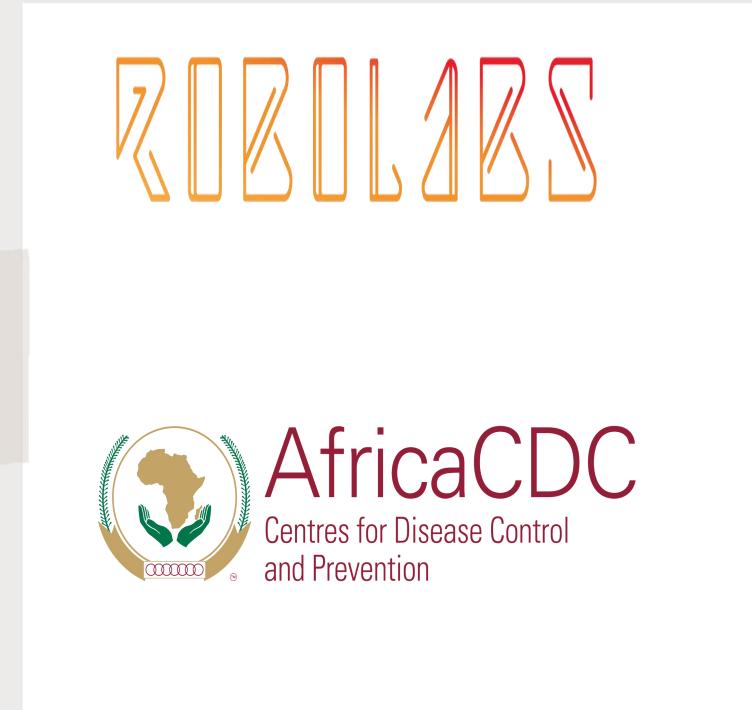
**Empowered Health Workers:** Equip over 10,000+ community health workers with AI-powered tools, improving healthcare delivery in underserved areas.

**Healthcare Cost Savings:** Reduce unnecessary treatments and hospital readmissions, saving millions in healthcare expenses annually.

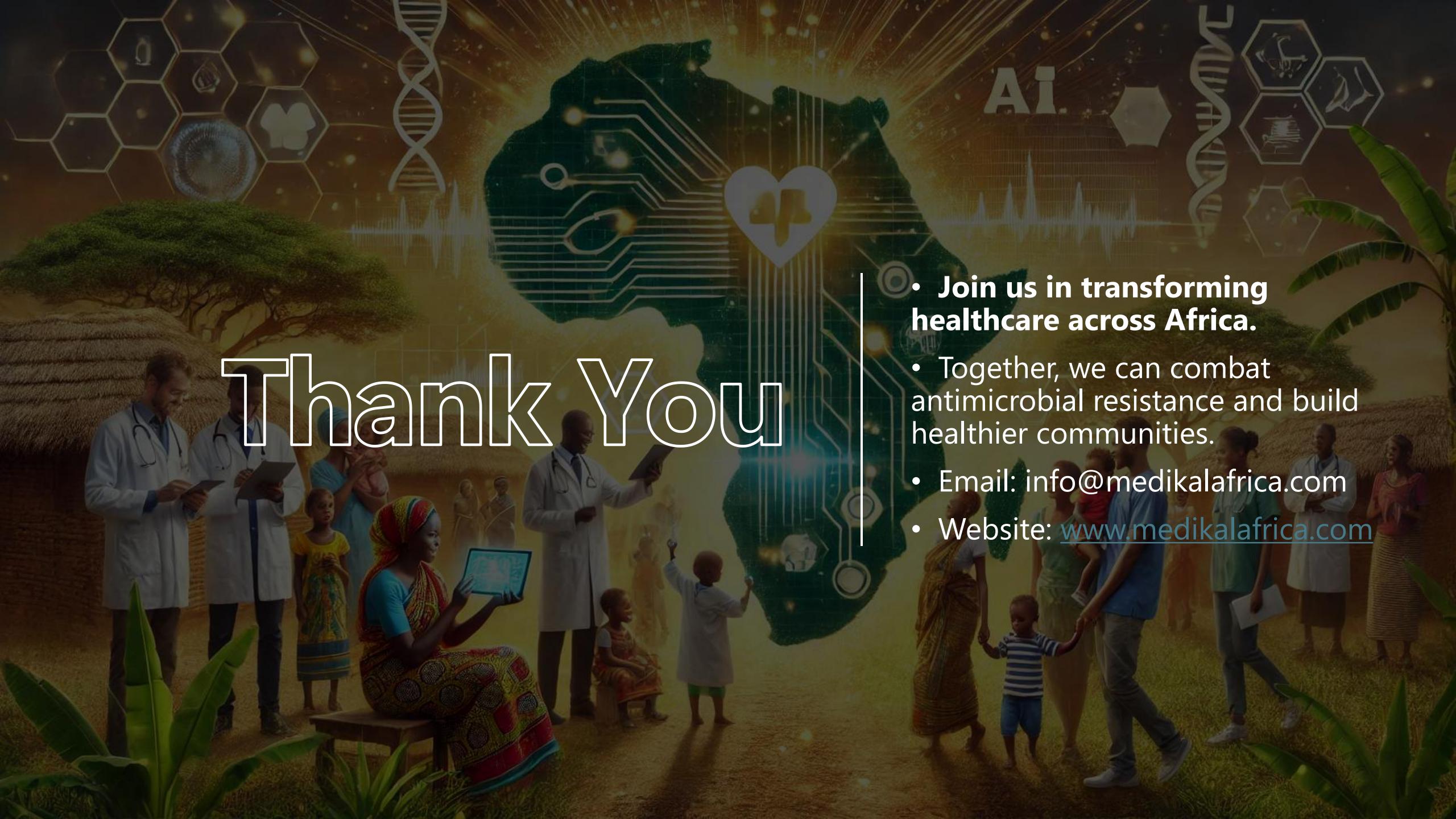
**Expanded Healthcare Access:** Provide essential diagnostic and treatment support to rural communities, bridging healthcare gaps for over 1 million people.

**Data-Driven Decision Making:** Generate actionable insights to inform policies and improve healthcare systems, contributing to sustainable health outcomes.





# Partners & Stakeholders



# Thank You

- **Join us in transforming healthcare across Africa.**
- Together, we can combat antimicrobial resistance and build healthier communities.
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