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AI Eswatini | <https://first1000.aieswatini.org>

Vision & The Problem

Building the operating system for population health across Africa by helping governments, healthcare providers, insurers, and communities predict, prevent, and manage health risks before they become medical emergencies.

The Problem: Healthcare Systems Are Flying Blind

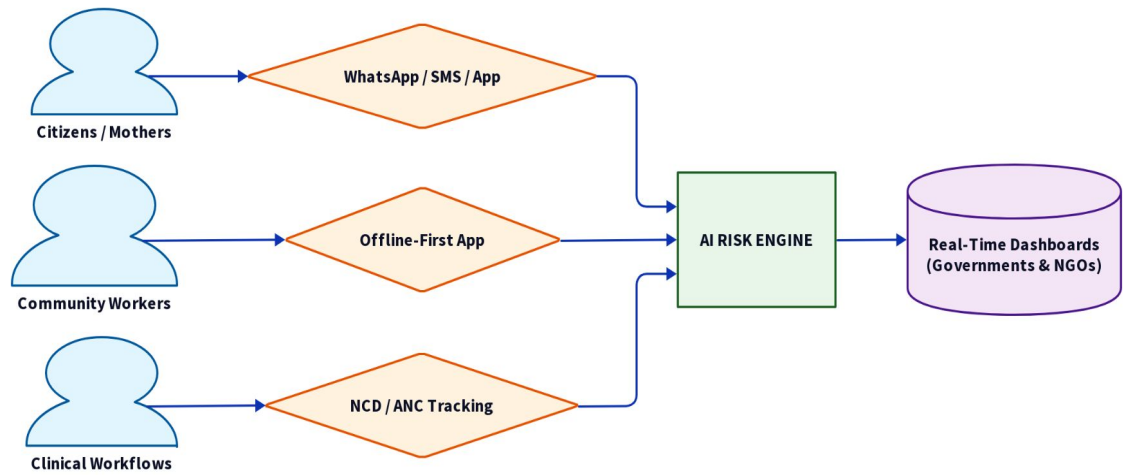
African healthcare systems are historically **reactive** because they only see patients when they physically visit a facility. By then, preventable complications have often progressed too far.

- 1. Maternal & Child Health Gaps:
 - High-risk pregnancies are identified too late, Frequent missed antenatal care (ANC) appointments, Child malnutrition and developmental delays are detected only after permanent damage occurs.
- 2. Non-Communicable Diseases (NCDs):
 - Hypertension and diabetes remain undiagnosed or inconsistently managed.
- 3. The Clinical Black Box:
 - Patients completely disappear between clinic visits, making medication adherence impossible to track, Data is deeply fragmented, and community health workers (CHWs) lack actionable tools.

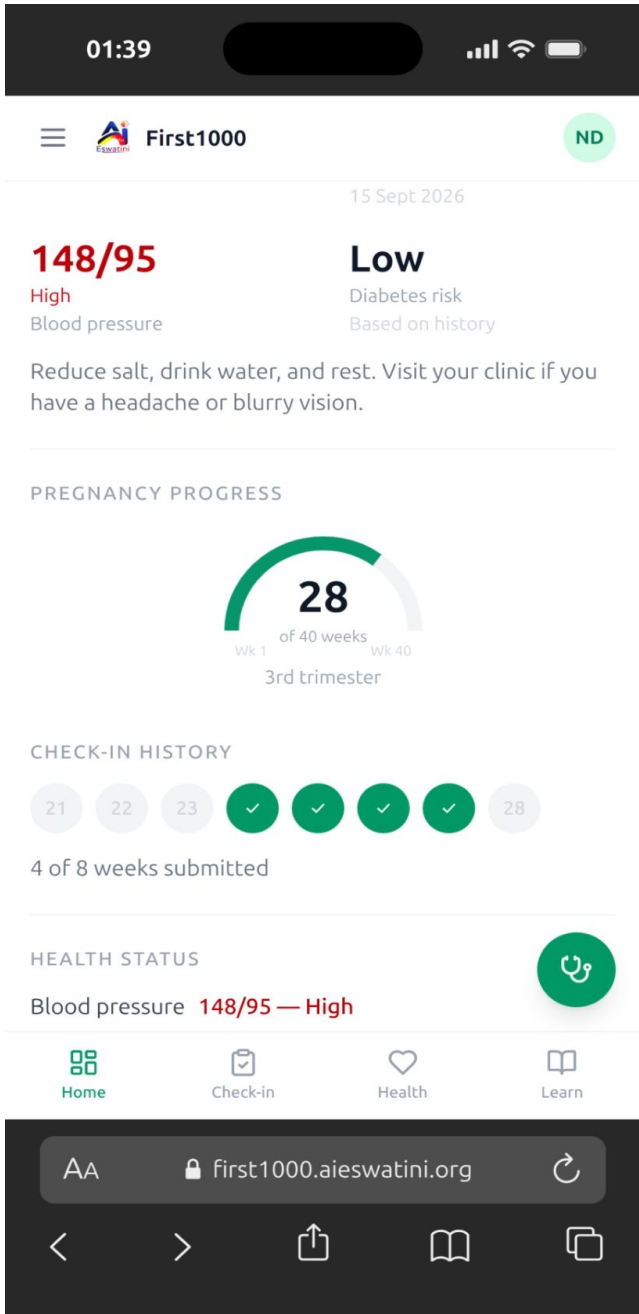
The Solution Architecture

One Platform. Continuous Health Intelligence.

First1000 builds a unified digital health layer connecting citizens, community health workers, facilities, and policymakers.



- > **AI Health Companion:** Accessible via WhatsApp, SMS, Voice, and a Mobile App. Provides automated appointment reminders, targeted health education, symptom monitoring, and triage.
- > **AI Risk Engine:** Quantifies risks and predicts high-risk pregnancies, maternal complications, child malnutrition, developmental delays, and NCD complications.
- > **Community Health Worker Platform:** An offline-first app for household management, home visit tracking, referral management, and risk prioritization.
- > **Population Health Intelligence:** Live dashboards providing real-time intelligence for systemic resource allocation.



Technical Traction & Pilot Pipeline

Platform Readiness

- **Completed:** System architecture built, AI risk engine designed, and core maternal/NCD workflows fully mapped.
- **Validated:** Analytics dashboard framework complete and the **offline-first deployment model** validated for low-connectivity rural settings.

Targeted Pilot Scope

- **Participants:** 500 mothers, 200 NCD patients, 50 Community Health Workers.
- **Geographic Scale:** 2 distinct regions in Eswatini.
- **Ecosystem Engagements:** Actively coordinating with local public health stakeholders, community networks, and NGOs.

Market Opportunity & Competition

Market Dynamics

- **The Global Shift:** The global digital health market exceeds **\$427 Billion**, rapidly pivoting from treatment to proactive prevention.
- **Beachhead Market (Eswatini):** 1.2 Million people. A perfect testbed where national-scale deployment is entirely achievable.
- **Regional Scale:** Expanding from Eswatini into the broader Southern African region (16 countries, 300+ Million people).

Competitive Matrix

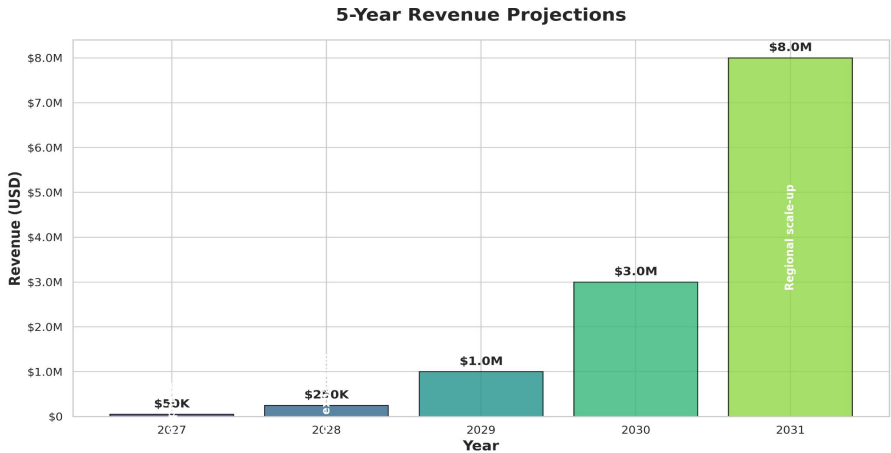
Company / System	AI Risk Prediction	Maternal Health Support	NCD Management
First1000	Yes	Complete	Complete
TruMD Eswatini	No	No	Partial
Notsa App	No	Partial	Partial
MoH WhatsApp Line	No	Partial	Partial
CIMS	No	Yes	Partial
FLAS	No	Partial	Partial

Business Model & Financials

First1000 leverages a high-margin recurring revenue model with an expected **75–85% gross margin**.

Revenue Streams:

- > **Government SaaS Licensing:** Annual subscriptions for Ministries of Health.
- > **NGO & Donor Programs:** Implementation and monitoring delivery contracts.
- > **Insurance & Healthcare Providers:** Risk management and preventive care licensing.
- > **Average Contract Value (ACV):** \$25,000 to \$250,000 annually.



The Executive Team & Funding Request

Robert Selemani (Cloud Platforms Engineer & Data Scientist): 5+ years in AI/Cloud architecture across health and tech sectors. Alum of Chatham House (Queen Elizabeth II Academy).
Bandile Malaza (Software & AI Engineer): Enterprise systems customizer, Microsoft Responsible AI Coach, and multi-award-winning AI engineer (SATNAC, Deep Learning Indaba).
Samkelo Msibi (AI Researcher & InfoSec Specialist): Expert in cybersecurity governance, privacy engineering, and regulatory data protection compliance.
Thembinkosi Mkhonta (Software Engineer): Cloud-native backend infrastructure specialist, Co-founder of Fundmo, and 1st-place SATNAC & MTN MoMo Hackathon winner.
Khanyisile Magagula (AI & Computer Vision Researcher): Specialist in Edge AI for low-resource diagnostics. Work featured by Google Research and Google Health.

Pre-Seed Raising: \$250,000, 24 months Runway

Breakdown: 40% Product Development, 25% AI Infrastructure & Compute, 20% Pilot Deployment Delivery, 10% Compliance, 5% Core Operations
> **Core Milestone:** Fully deploy the platform nationwide in Eswatini and lock in the first institutional contracts.