

PROPOSAL TO NBRDA

Programme Component Scope

To: Director-General, National Biotechnology Research and Development Agency

From: Basani Digital Innovations Limited

Date: December 2025

Re: Proposed Scope of Engagement – National Genomics & Digital Health Programme

1. OVERVIEW

Following our signed MOU, Basani Digital Innovations Limited submits this brief to clarify the specific programme components we propose to execute under the NBRDA-Basani partnership. This will help coordinate efforts with other parties the Agency may be engaging.

2. PROPOSED COMPONENTS

Basani proposes to lead execution on the following **four core components**:

Component A: Digital Health Platform (MeddyPal)

What: Citizen-facing digital health platform for patient onboarding, health records, and service access.

Deliverables:

- Personal Health Record (PHR) system for Nigerian citizens
- Insurance plan comparison and enrollment module
- Telemedicine, appointment booking, and laboratory results integration
- Integration with NBRDA's genomics initiatives

Our Contribution: Platform already developed; ready for deployment and customization.

Component B: Genomics & Biobank Infrastructure

What: Laboratory infrastructure for genomic sequencing and biological sample storage.

Deliverables:

- Next-generation sequencing (NGS) laboratory setup
- Biobank facilities (ultra-low freezers, liquid nitrogen storage)
- Sample tracking and chain-of-custody systems
- Bioinformatics pipeline for variant analysis

Our Contribution: Delivered through technical partnerships with genomics specialists who have existing infrastructure.

Component C: AI & Analytics Layer

What: Intelligence systems transforming raw health and genomic data into actionable insights.

Deliverables:

- Clinical decision support tools
- Disease surveillance dashboard for public health
- Predictive risk analytics and population health reporting

Our Contribution: AI/ML development capability; deployed progressively as platform generates data.

Component D: Data Architecture & Integration

What: Technical backbone connecting all programme elements with secure, compliant data governance.

Deliverables:

- Cloud infrastructure (AWS/Azure) for health data storage
- Interoperability framework (HL7 FHIR standards)
- NDPR-compliant data governance protocols

Our Contribution: Technical architecture design and implementation.

3. EXECUTION APPROACH

Phase	Timeline	Focus
Phase 1	Months 1-6	Platform deployment (3 pilot states); Legal/regulatory alignment
Phase 2	Months 6-18	Genomics integration; Initial sequencing (10,000 genomes)
Phase 3	Year 2-3	AI features deployment; Scale to additional states
Phase 4	Year 3-5	National coverage; Commercial sustainability

4. WHAT WE REQUIRE FROM NBRDA

1. **Facility access** for joint operations (office space, laboratory coordination)
2. **Staff assignment** to Joint Implementation Task Team
3. **Letters of support** for grant applications
4. **Regulatory facilitation** (ethics approvals, inter-ministerial coordination)
5. **In-kind contributions** as outlined in MOU

5. FUNDING MOBILIZATION

Basani will lead joint applications to: Gates Foundation (sickle cell genomics), Wellcome Trust (capacity building), World Bank MAMA Fund (maternal health), and pharmaceutical partnerships.

Target: \$50-100M over 5 years through combined donor, government, and commercial sources.

6. NEXT STEPS

1. Confirm which components fall within Basani's scope vs. other parties
2. Establish Joint Implementation Task Team (weekly meetings)
3. Finalize MOA converting MOU into operational agreement
4. Submit first grant application (target: Q1 2026)

This document outlines Basani's proposed scope. We remain committed to NBRDA's coordination with other programme partners.