

CONSULTANCY TO INITIAL IMPLEMENTATION OF OKAPI FEDERATED DATA MESH (BASED ON SPEEDYMESH ECOSYSTEM)

REQUEST FOR PROPOSALS

30 APRIL 2026

RFP No. ACDC/MIS/CS/01

The Africa Centres for Disease Control and Prevention (Africa CDC) invites qualified firms to submit proposals for the initial implementation of the Open Knowledge and Analytics Portal for Public Health Insights (OKAPI) as a federated data mesh platform.

The assignment includes establishment of a continental node, onboarding of one Member State, integration with AU Digital One Health Platform (AU-DOHP), and implementation of three priority use cases across multiple public health domains.

Duration: 8 months

Location: Africa CDC, Addis Ababa, Ethiopia

Submission Deadline: 28 May 2026

Submission Email: procurement@afriacdc.org

Interested firms are requested to submit their proposals in accordance with the requirements and instructions set out in the Solicitation Document.

Interested bidders must demonstrate experience in federated data architectures, Data Mesh, HL7 FHIR interoperability, and large-scale public-sector data platforms, preferably within African Union or multi-country environments.

The Request for Proposal (RFP) document can be obtained upon request from the procurement contact.

Objective of the Initial Phase

The goal is to establish OKAPI as a sovereign, standards-based federated data mesh for continental and regional health collaboration, built on the SpeedyMesh ecosystem.

KEY OUTCOMES

- Deploy a **production-ready continental node** for data discovery, governance, federation, dashboards, and analytics.
- Implement a **reusable Member State node** that keeps data within the country while enabling controlled data sharing.
- Deliver **three priority use cases** across at least three (target four) domains using strong data governance and HL7 FHIR standards.
- Enable **policy-controlled interoperability** with AU-DOHP and define interfaces for future integration with the Africa CDC Central Data Repository (CDR).

- Provide **reusable assets** (data templates, models, dashboards, analytics components) for future expansion.
- Deliver a **scale-up package, training, and roadmap** to extend OKAPI to up to 10 Member States.

SCOPE OF WORK

The contractor will deliver the initial phase of OKAPI, a continental federated data mesh based on the SpeedyMesh ecosystem. The work follows a milestone-based approach covering design, deployment, use-case implementation, and handover, with a strong focus on secure, scalable, and reusable solutions.

- **WP0 – Inception & Alignment**
Define the implementation approach, confirm use cases and domains, align governance and stakeholders, and establish the detailed workplan, risks, and acceptance framework.
- **WP1 – Architecture & Continental Node Setup**
Adapt the SpeedyMesh architecture and deploy the **Africa CDC continental node**, including core services such as metadata/catalogue, data contracts, policy enforcement, dashboards, integration, automation, and security baseline.
- **WP2 – Member State Onboarding & First Use Case**
Deploy the first **Member State node**, enable local data integration and governance, produce initial data products, and implement the first end-to-end use case with training and reusable onboarding templates.
- **WP3 – Interoperability, Expansion & Analytics**
Enable integration with AU-DOHP, onboard additional domains and data products, implement remaining use cases, and deliver dashboards, reusable data models, and an initial **AI-ready analytics package**.
- **WP4 – Quality Assurance & Scale-Up Preparation**
Conduct testing, validation, and performance/security checks; deliver operational runbooks and training; and provide a **reusable deployment kit and roadmap** to scale the solution to up to 10 Member States.

EXPECTED DELIVERABLES

The contractor will deliver **10 key outputs over**, each subject to validation (functional, security, performance, and user acceptance):

1. **Inception & Workplan (Week 2)**
Detailed methodology, governance alignment, use cases, risks, and full implementation plan.
2. **Architecture & Security Blueprint (Week 5)**
Complete system design, including topology, data contracts, interoperability (AU-DOHP/CDR), and security framework.
3. **DevSecOps Setup (Week 6)**
CI/CD pipelines, infrastructure automation, environments, monitoring, and security controls operational.
4. **Continental Node Alpha (Week 9)**
Initial deployment of core OKAPI services (catalogue, contracts, policy enforcement, dashboards).

5. **Member State Node + Use Case 1 (Week 14)**
First country onboarded with initial data products and first operational use case.
6. **AU-DOHP Integration + Use Case 2 (Week 20)**
Interoperability established, and second use case implemented.
7. **Domain Expansion & Data Contracts (Week 22)**
8. At least 3 (target 4) domains onboarded with reusable templates and HL7 FHIR-aligned data contracts.
9. **Dashboards & AI Analytics (Week 26)**
Continental dashboards, reusable data models, and an initial AI-ready analytics workflow (Use Case 3).
10. **QA, Security Validation & Node Kit (Week 29)**
Testing, performance/security validation, and a reusable deployment kit for onboarding new countries.
11. **Final Handover & Scale-Up Plan (Week 32)**
Training, documentation, operational readiness, and roadmap to expand to up to 10 Member States.

Interested firms are required to submit Technical Proposal and Financial Proposal as per the instruction provided under **ITC Clause 4.4**.

A complete set of the Solicitation documents in English language may be provided up on request from procurement@africacdc.org and tigistb@africacdc.org.

The deadline for submission of proposals is 15:00 hours local time (Addis Ababa Time) on **28 May 2026**. Late submission shall not be accepted and shall be rejected.

Africa CDC encourages applications from eligible African and international firms with strong technical and implementation capacity.

The address(es) referred to above is (are):

Africa Centres for Diseases Control and Prevention,
Supply Chain Division
Administration Directorate
Lafto Square, Haile Garment,
Africa CDC Office, John Nkengasong Building Tower, 4th floor, Room No. 408

For clarification and requesting bidding / solicitation documents:

E-mail: procurement@africacdc.org and
TigistB@africacdc.org

(Please submit your request for the bidding document and clarification to both emails)



Africa CDC is a continental autonomous health agency of the African Union established to support public health initiatives of Member States and strengthen the capacity of their public health institutions to detect, prevent, control and respond quickly and effectively to disease threats.

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