

Transforming Healthcare and Beyond:

Biometric System for
Universal Health Insurance
and Social Security in the
Republic of Congo

ID4Africa 2025
May 21, 2025

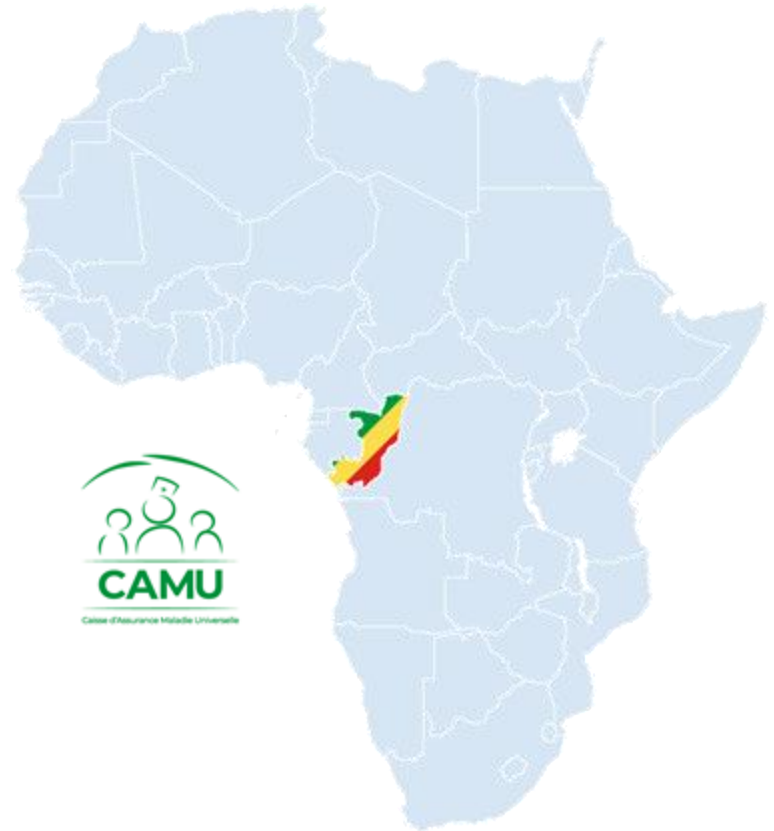
 INNOVATRICS



Transforming healthcare

Functional ID System for the Universal Health Insurance Fund (CAMU)

- Universal health scheme for all
- Fraud prevention
- 2 types of biometrics



Multimodal ABIS with biometric verification

Civil identification ABIS for CAMU

- 3 million records target
- Fingerprints and face
- Custom enrollment
- Custom client verification



The enrollment journey

Registration

Policy holder submitting documents

Pre-enrollment

Submission of demographic info of beneficiary through service portal

Enrollment

The beneficiary completing their CAMU profile

The enrollment

Pre-enrollment via the service portal

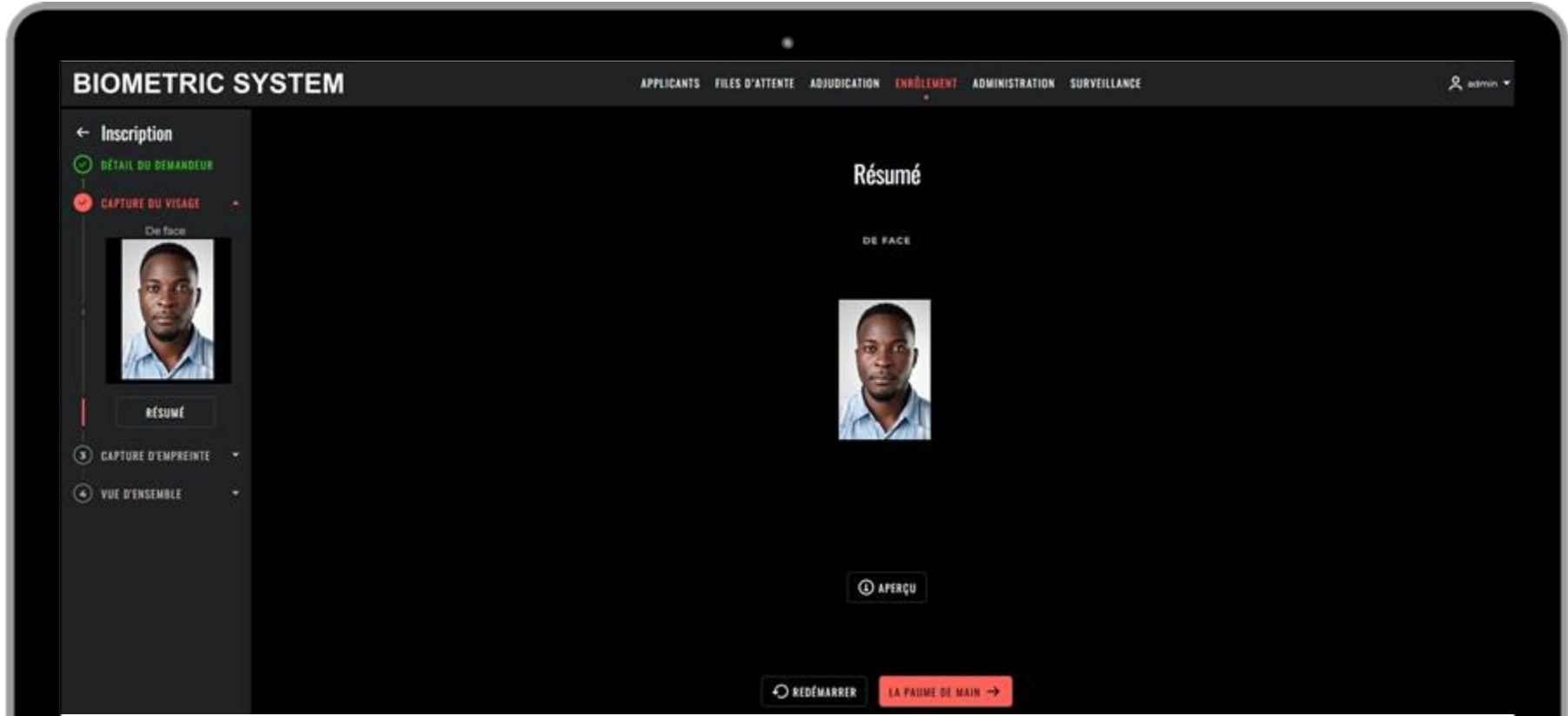
07 stations in 03 cities

ID card & fingerprint & face

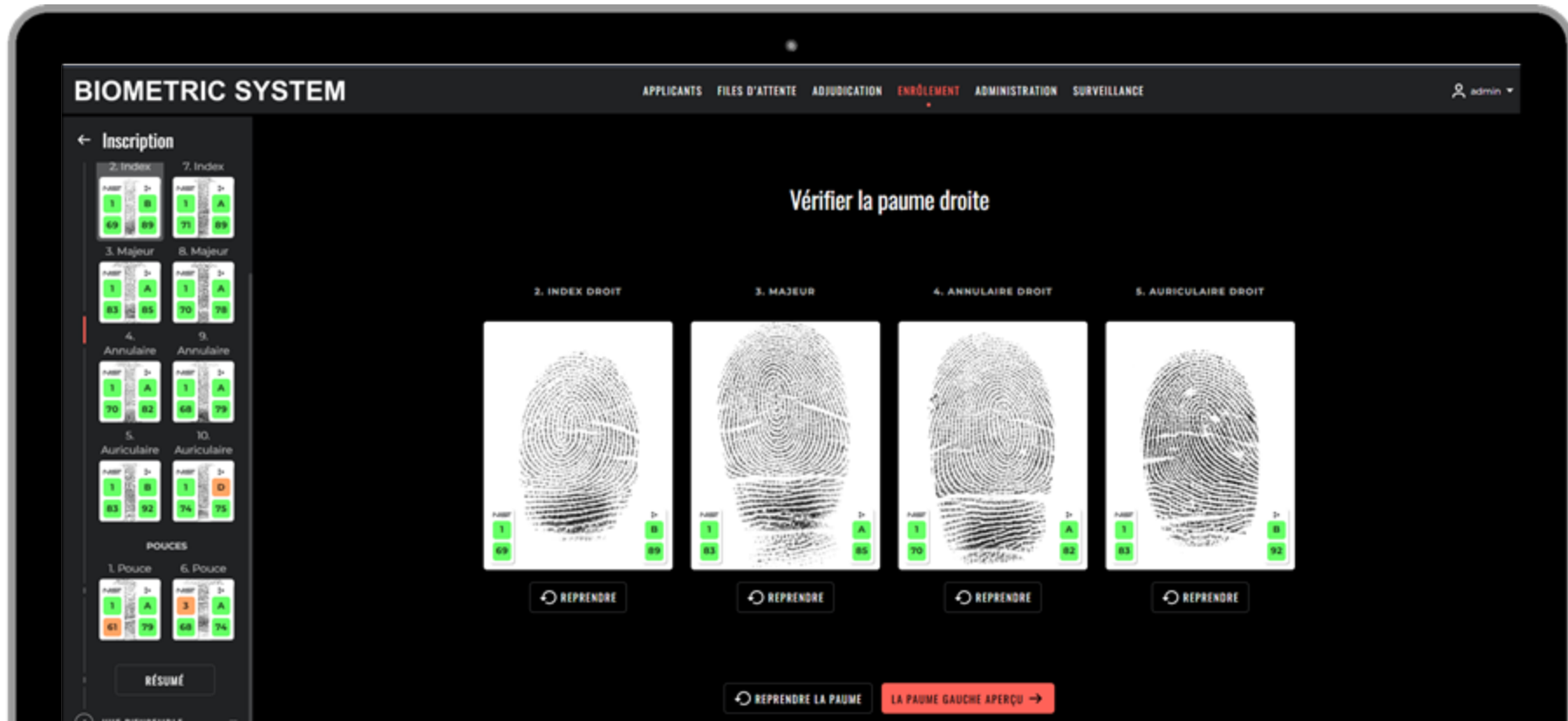
Duplicate check in ABIS



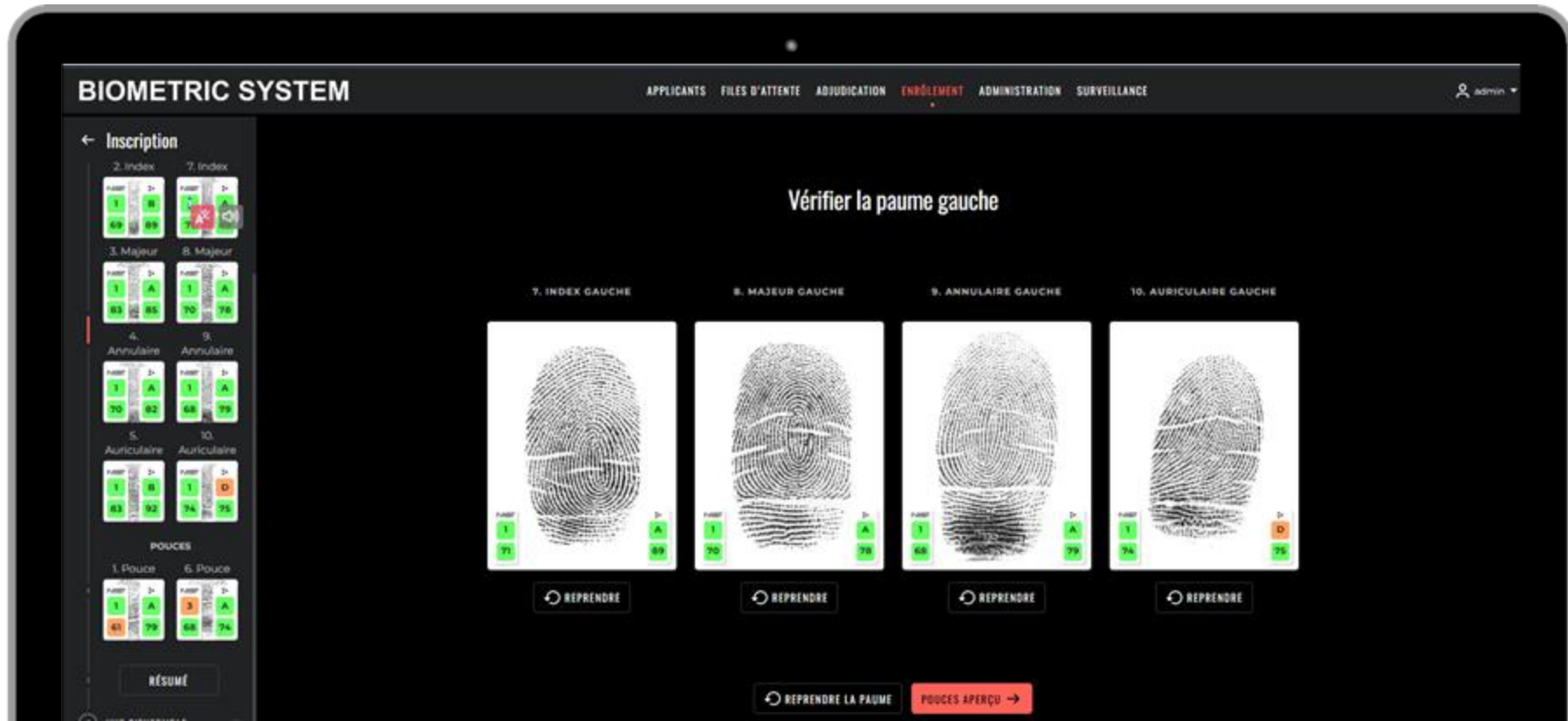
The enrollment



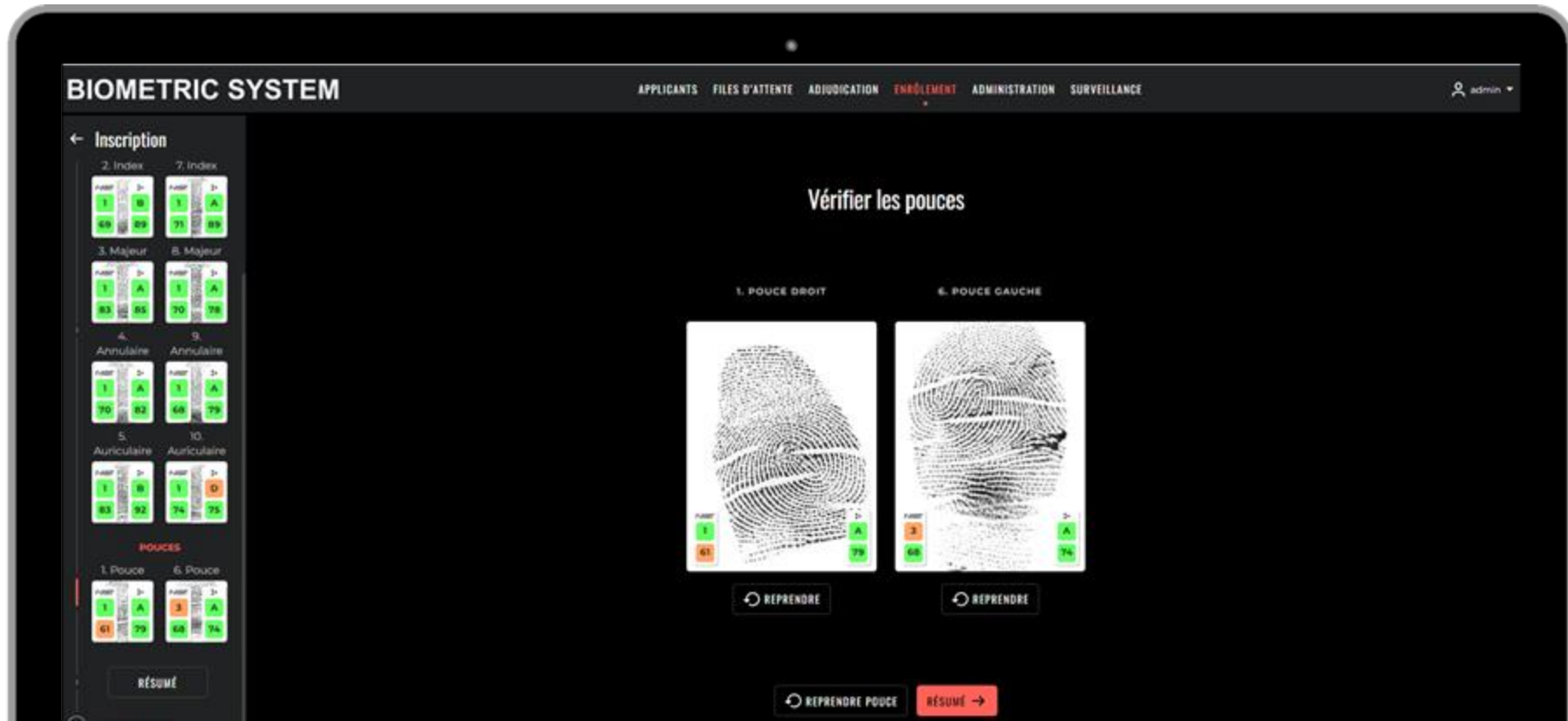
The enrollment



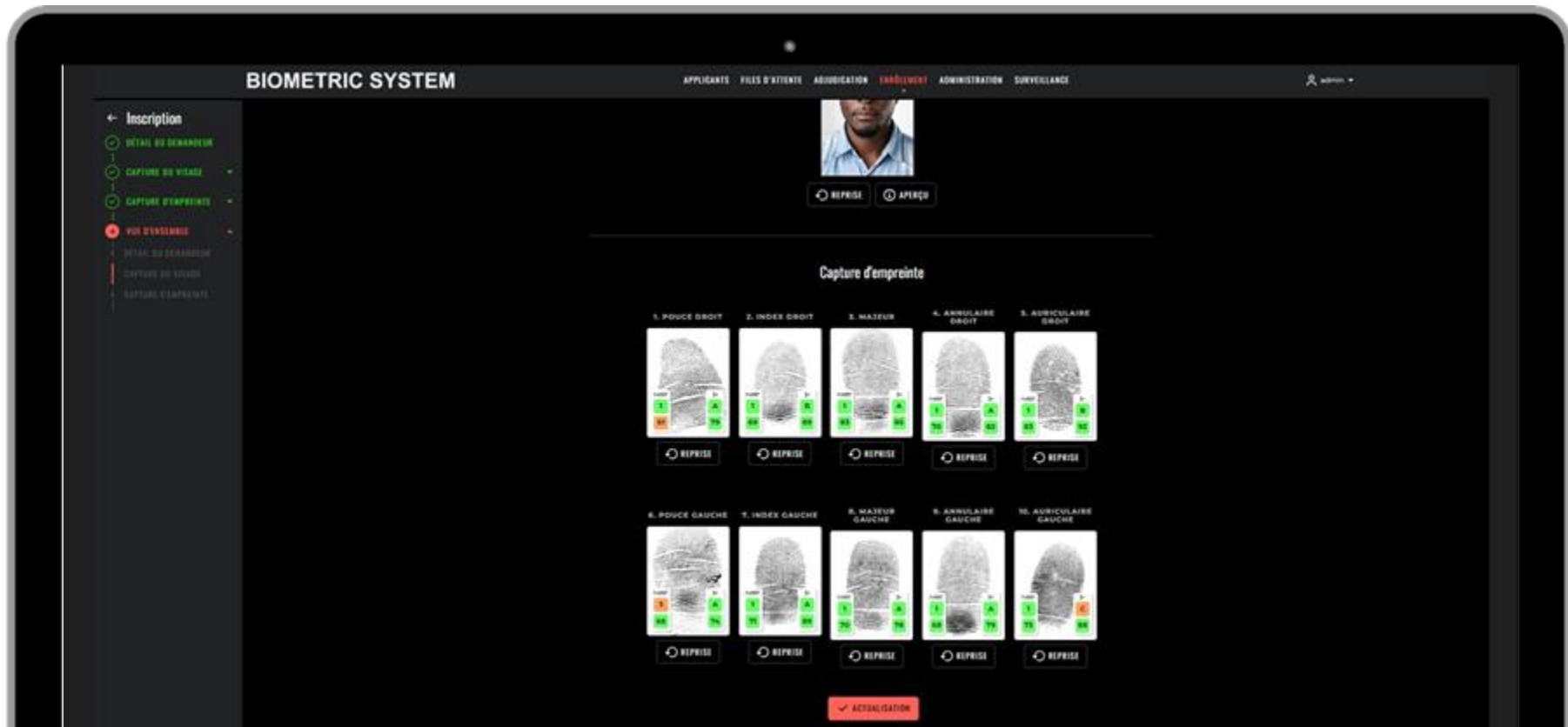
The enrollment



The enrollment



The enrollment



The verification

Unique ID number

Verification at
a point of care:

Fingerprint +
unique ID
(online only)

Coming up: offline
verification

Smart cards with embedded biometrics



The production phase

Training CAMU's agents

6 population groups targeted separately

Enrollment

- 11/2023 - ongoing

Verification in health facilities

- 04/2025 - Ongoing

Brazzaville, Pointe-Noire, Oyo



The second client

Second database?

→ Hosting architecture

→ Legal framework



RÉPUBLIQUE DU CONGO
 MINISTÈRE DE LA
 FONCTION PUBLIQUE, DU TRAVAIL
 ET DE LA SÉCURITÉ SOCIALE



**The Universal Health
 Insurance Fund
 (CAMU)**



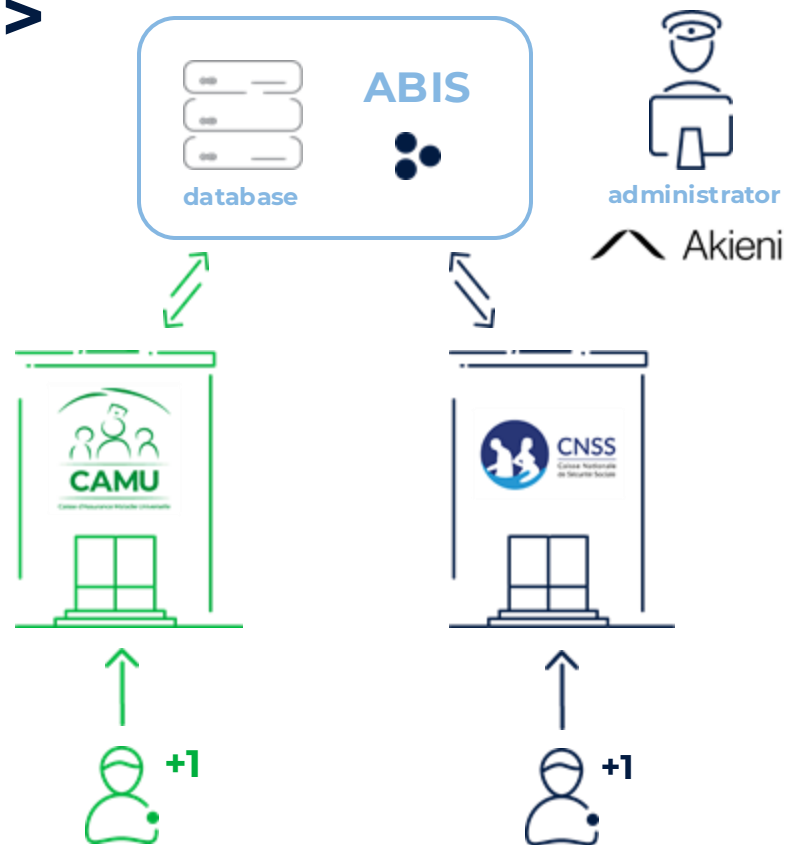
**The National Social
 Security Fund
 (CNSS)**

Foundational ID System > Multi-tenant ABIS

Centralized database

→ Data privacy

→ Access rights



ABIS and client SW consequences

- Updated data fields to accommodate both entities
- Universal UID
- Universal Enrollment and Verification User Interface
- ABIS keeps the core demographic and biometric data only



Key results



Universal health scheme governed by CAMU



Optimized IT investment costs for CNSS and CAMU



Centralized multi-purpose biometric database



Precise targeting of healthcare payments (no ghost beneficiaries exploiting the system)



30 employees from 6 African nations



NIST top-ranked biometric algorithms



Well-established in government projects



600+ large-scale projects



Akieni Academy



80+ countries



Thank you!

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