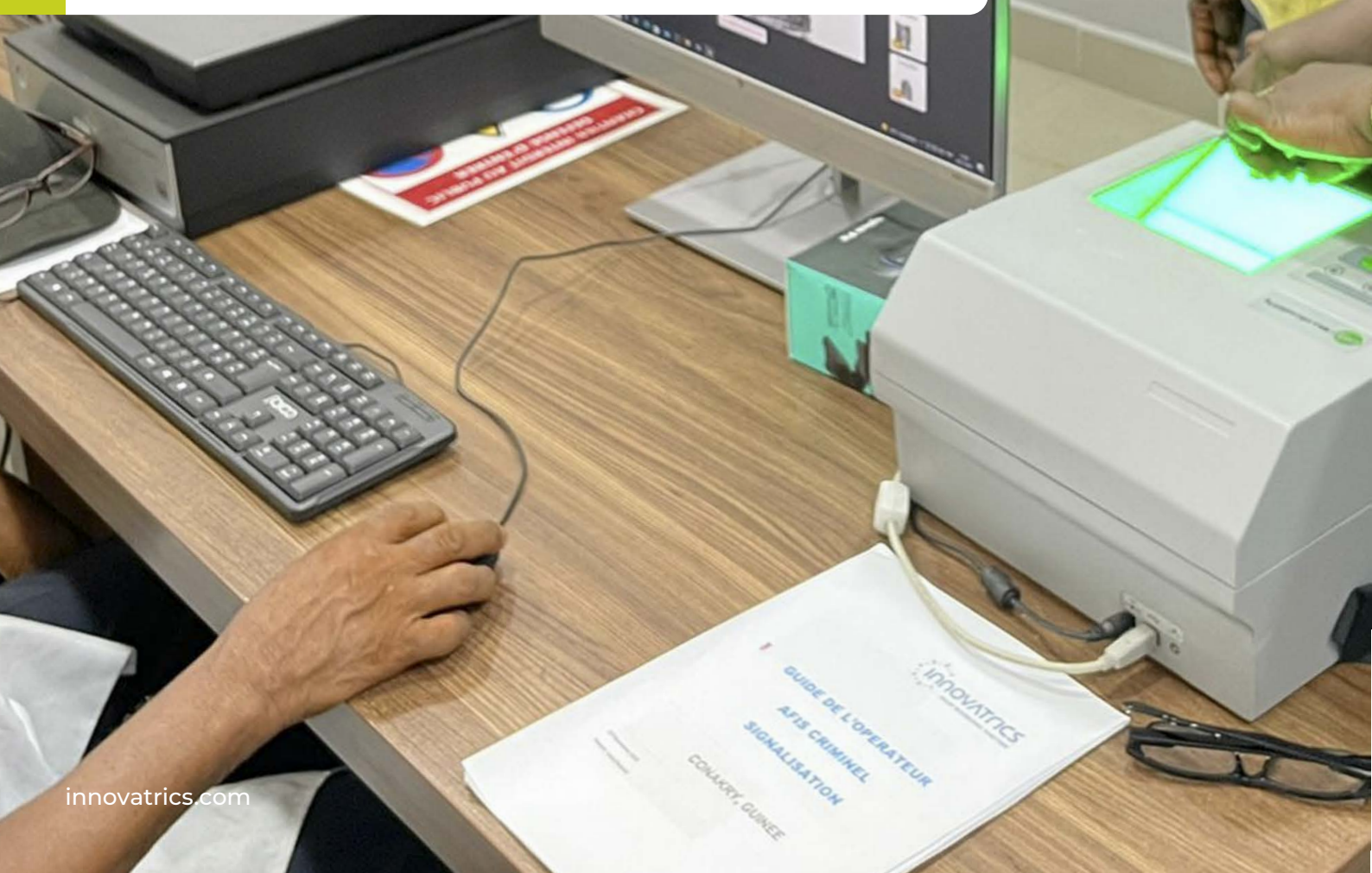ABIS

Case study | Guinea | Criminal Investigation

Digitalization of Police Investigation in West Africa

Fully digitized suspect enrollment and database | **5000 new criminal record cards** in 1 month

This system allows us to make police work extremely more efficient. The accuracy of biometrics allows us to prevent judicial errors and will greatly help us in administering justice.

Abdoul Malick Kone
General Director of the
National Police in Guinea

Challenge

Paper based fingerprint database

Limited number of forensic experts

Small criminal police **fingerprint database**

La police technique et scientifique in Conakry, Guinea, is the only police department in the entire country with a limited number of forensic experts trained to collect latent prints, enroll, analyze and catalog fingerprints.

Since the identification of suspects from fingerprints was paper based

and performed manually by a forensic expert, the process took considerable time which could affect criminal investigations. Moreover, the criminal police fingerprint database was rather small, amounting to only 7,500 records.

Solution

Multimodal ABIS for criminal investigation

Digitize existing database

Train the police force

After a thorough analysis of the Guinea criminal investigation process, our team deployed a customized Automated Biometric Identification System for criminal investigations using fingerprint, palm print and facial biometrics. Starting with digitizing their paper archive, 7500 paper fingerprint record cards were also digitally migrated into the new ABIS database. Live enrollment was introduced, making the enrollment procedure much easier, accurate and faster.

With a powerful and easy-to-use user interface for adjudication of latent prints, forensic experts were able to quickly perform a side-by-side analysis of potentially matching fingerprints. The criminal case management module allowed Guinea's police force to search and identify connections between biometric evidence from different crime scenes and court exhibit creation. Innovatrics experts also provided training sessions on how to efficiently use ABIS for their intended purposes from day 1.

Results

Fully digitized suspect enrollment and identification

More accessible biometric evidence

Zero downtime

The National Police of Guinea can now quickly identify criminals by their fingerprints using digital tools. Along with digitizing their paper files, ABIS also enables them to enroll new records into the database significantly faster through dedicated fingerprint scanners.

The procedure can easily be learned by any police officer, solving the problem of a limited number of trained officials in the Guinea police force.

The ABIS adjudication tool shortened the time needed for identification from hours to seconds. On top of that, any new fingerprint loaded into the ABIS is immediately checked against existing records, instantly notifying the user of potential matches in open cases.

The power of efficient algorithm

Criminal Case Management as an Effective Tool against Crimes

Innovatrics Criminal case management aids the Guinea police force in readily establishing connections between biometric evidence from different crime scenes and court exhibit creation to expedite criminal investigation procedures.

Easy Analysis of Matching Fingerprints via Adjudication Tool

The adjudication of latent prints helps forensic experts in reliably performing a side-by-side analysis of potentially matching fingerprints. Through this tool, the police can annotate matches, accurately measure their sizes, compare partial latent fingerprints, and others.

Enrollment from Paper Cards for a Fully Digital Database

Any piece of information can make a difference in crime solving. Obtaining data from paper to digital can make any database

Before	After
Paper-based suspect enrollment of biometric cards	**Fully digitized suspect enrollment** and database
7500 criminal record cards in database	**5000 new** criminal record cards in 1 month
Small task force trained to analyze and Catalog fingerprints	**Procedure can easily be learned** by any Police officer
Hours to identify suspects using fingerprints	Suspect identification via **fingerprint recognition reduced to seconds**

more efficient. Our technology can easily and quickly enroll paper fingerprint record cards into the new ABIS system.

About us

We are an independent EU-based provider of multimodal biometric solutions. Our algorithms consistently rank among the fastest and most accurate in fingerprint and face recognition. Since 2004, we have partnered with all types of organizations to build trusted and flexible biometric identification solutions. Our products are being used in more than 80 countries, benefiting more than a billion people worldwide.

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