D&N TECH

Data & Networking Technologies

CORPORATE PROFILE

Digital transformation, designed in Guinea, for Guinea

Information systems, software, data, networks and certified training for public institutions, businesses and development organisations.

Conakry · Since 2016 · 2026

WHO WE ARE

A leading Guinean digital services firm

Founded in 2016 and based in Kipé (Ratoma, Conakry), D&N TECH is a Guinean company specialising in IT, digital and networking services.

The firm supports government bodies, businesses and development organisations in designing, securing, managing and transforming their information systems.

Its engineers combine command of international standards with an in-depth understanding of Guinea's institutional environment.

2016

Year founded

10 years

of experience serving public institutions

~20

public and private entities running the GEC platform

ICDL

Accredited centre; a standard recognised in over 100 countries

Mariame BAH

Founder and Managing Director

Fellow 2025
Africa's Data Future Fellowship

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THE FOUNDER

A recognised expert in data, AI and public-sector digital transformation

An experienced specialist in digital technologies, data governance and artificial intelligence, Mariame BAH founded D&N TECH. Her career, which began as a database analyst in the United States, took her to the highest levels of public-sector digitalisation in Guinea, notably as Deputy Director General of the National Agency for State Digitalisation (ANDE).

Education

Postgraduate degree (DESS) in autonomous systems computing (Paris 8); Master's and Bachelor's degrees in computer science (Paris 6)

Recognition

2025 Fellow (CSEA, Hewlett Foundation): one of 10 fellows selected from more than 5,000 African applicants

Certifications

AI for public services (ITU/UNDP, Microsoft), data governance, Internet (ISOC, ICANN), cybersecurity, Power BI

Expertise: AI for government · data governance and cybersecurity · Internet infrastructure and digital inclusion · business intelligence. Fluent in French and English.

THE FOUNDER'S CAREER

Twenty years of international expertise and public service

2006 – 2014

Direct Alliance Corporation

Arizona, USA. Database analyst, then senior database analyst; dashboards for IBM and Toshiba

2014 – 2015

Earth Institute, Columbia University

Led data management for Guinea's national Ebola response, with reporting to the Presidency and partners

2015 – 2017

eHealth Africa Guinea

IT Director: health information systems for the Ministry of Health

2017 – 2018

Ministries of Budget and of Economy and Finance

Head of IS Modernisation: BuSE, CFU, e-BIASSI, network link with the Central Bank (BCRG)

2018 – 2022

D&N TECH

Managing Director: platforms for the Ministry of Mines, AGUIFIL and the Chamber of Mines; networks for Vista Bank

2019 – 2022

Ministry of Planning (UNDP, AfDB, World Bank)

IT Consultant: design and roll-out of the SIGPIP public investment platform

2022 – 2026

National Agency for State Digitalisation

Deputy Director General: "Digital Guinea 2023-2027" strategy, national IT master plan, launch of the .GN domain

2024 – 2026

ID4Africa

Deputy Ambassador of the pan-African movement for responsible digital identity systems

Early career: software and database internships in Paris (2000 – 2003), including the Databases and Artificial Intelligence department of Paris 6 University.

OUR PURPOSE

Mission, vision and values

Mission

To deliver high-performing, secure and fit-for-purpose IT and digital solutions that maximise value for every client.

Vision

To build a more connected, skilled and self-reliant Guinea, contributing to a sovereign digital economy.

Values

Methodological rigour, attention to client needs, a teaching mindset, confidentiality and investment in local talent.

AREAS OF EXPERTISE

Eight integrated capabilities, from strategy to operations

IS audit and advisory

Information system assessments, cybersecurity, ICT governance, IT master plans

Software development

Custom web, mobile and native applications, from specifications to maintenance

Databases

Data modelling, security and analytics for decision-making

Networks and systems

Cabling, interconnections, server virtualisation and CCTV

Geolocation

GPS surveys, online and offline interactive maps, OpenStreetMap contributions

Surveys and data collection

Multi-device survey platforms that work online or offline

ICDL training

Digital skills development and international certification

IT equipment

Supply, installation, and preventive and corrective maintenance

FLAGSHIP SOLUTION

GEC: the electronic mail management platform adopted across government

A web platform that digitises the handling of official correspondence, from receipt to archiving. Deployed in almost every ministry, several state agencies and private organisations: around twenty entities in total.

End-to-end traceability

Tracking of every item with a full action history

Digital archiving

Central repository, fast search, secure retention

Management reporting

Volume and turnaround statistics for decision-makers

Access security

Role-based permissions, strong authentication, HTTPS

Three integrated modules

- GEC: incoming and outgoing mail management
- GED: electronic document management
- AR: electronic archiving

Typical 30-day roll-out

4 d	Analysis and assessment
3 d	Organisational design
15 d	Implementation and configuration
8 d	User guide and training

12-month warranty after final acceptance

Platforms at the heart of government

Solution	Client	Value delivered
BuSE	Ministry of Budget	Electronic payslips for civil servants, with a mobile authentication app
CFU	Ministry of Budget	Geolocated property census: over 4,000 buildings in one month, to within 5 m
Land titles	Government of Guinea	Management of the land title issuance process
PGC / PEC	Ministry of Mines	Census and geolocation of quarries, with dashboard and interactive map
ACIM	BSD / MMG	Mining data collection and analysis, tracking of community investments
Mining List	CPDM, Customs, mining companies	Processing and traceability of mining equipment and input lists
AGUIFIL	Guinean Housing Finance Agency	Management of social housing applications and follow-up
NIF, e-BIASSI, DAO	Ministries of Budget and Finance	Permanent tax IDs, official travel booking, tender document management

ICT assessments at the highest levels of government

Ministry of Economy and Finance

- Cabling and Internet access across departments
- Treasury – Central Bank interconnection
- Application needs and capacity-building plan

Ministry of Budget

- Network infrastructure and modernisation
- Application landscape and revenue agencies
- Tax services – Central Bank interconnection

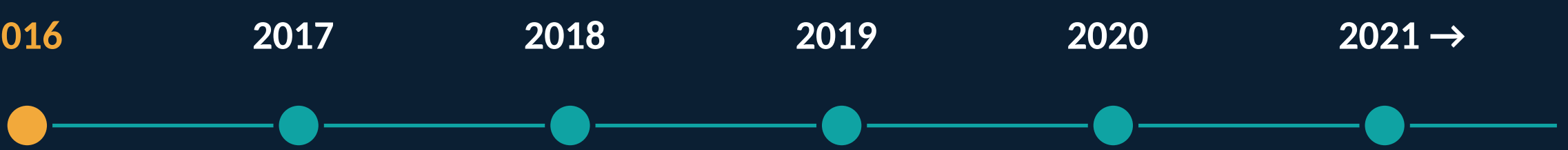
Ministry of Planning and Economic Development

- Assessment and supervised roll-out of SIGPIP
- IS assessment of the DNPP and DNIP directorates
- National Statistics Institute: assessment and IT master plan preparation

Typical deliverables: audit reports on infrastructure, business applications and cybersecurity (ISO/IEC 27001 framework), a capacity-building plan and a three-year digital transformation roadmap.

TEN YEARS OF DELIVERY

A decade of steady growth



2016 — D&N TECH founded in Conakry

2017 — Network overhaul at the Finance and Budget ministries, fibre links to the Central Bank, server virtualisation

2018 — BuSE, CFU, permanent tax IDs and e-BIASSI for the Ministry of Budget

2019 — Mining information platform, PEC app, networks for BSTP and CCIG

2020 — Mining List, ACIM database, AGUIFIL platform

2021 → — Vista Bank network and CCTV, GEC scale-up, IS assessments, ICDL centre

Source: projects published by D&N TECH (dntech.tech) and the firm's reference files.

Accredited ICDL centre: certified digital skills

D&N TECH designs and delivers digital skills programmes for businesses, public institutions, universities and NGOs. As an accredited ICDL centre, the firm trains and certifies participants to an international digital literacy standard recognised in over 100 countries.

1
Assessment
of skills needs

2
Design
of ICDL-aligned modules

3
Training
in person, online or blended

4
Certification
and learning assessment

A managed, fully traceable programme

- Joint steering committee with the client
- Minutes for every meeting
- Dashboard: attendance, completion and pass rates
- Secure shared document space

OUR APPROACH

A proven approach, from current state to client self-sufficiency

01

Current-state review

Review of systems and processes, detailed business requirements

02

Design

Functional and technical specifications, costed action plan

03

Build and deployment

Iterative development, configuration, testing and go-live

04

Training and support

User guides, team training, warranty and maintenance

Agile / Scrum

Task tracking in Jira, incremental releases

Joint governance

Client – D&N TECH steering committee, documented decisions

Regular check-ins

Daily stand-up, weekly review, monthly committee

Robust technology, security by design

Technology stack

Python / Django
Back-end

PostgreSQL
Databases

ReactJS / Redux
Front-end

Docker / Nginx
Production

Ubuntu LTS
Servers

Git
Version control

AWS or on-premises
Hosting of the client's choice

Android
Mobile apps

Security and service commitments

- Role-based access control and strong authentication
- Encryption or hashing of sensitive data
- SSL certificates, session timeouts, input validation
- Backups on dedicated servers throughout projects
- 12-month corrective warranty at no extra cost
- Confidentiality required of all staff, during and after each assignment
- Compliance with Guinea's data protection framework (Law L/2016/037/AN)

WHAT SETS US APART

Why choose D&N TECH

Local insight

A decade of projects inside Guinean government bodies, with a clear grasp of their processes and constraints.

Proven solutions

Platforms already in production, reusable and adaptable, cutting lead times and risk.

Responsive engineers

A Conakry-based team, available within 24 hours, with backup cover in place.

End-to-end offering

From assessment to maintenance, covering networks, software and training.

Knowledge transfer

Systematic skills transfer so your teams take lasting ownership.

Local impact

Creating skilled jobs and developing Guinean digital talent.

THEY TRUST US

Key partners and clients

Public institutions

- Ministry of Economy and Finance
- Ministry of Budget
- Ministry of Mines and Geology
- Ministry of Planning and Economic Development
- National Statistics Institute
- APIP
- CPDM
- AGUIFIL

Financial and private sector

- Vista Bank
- BSTP
- Mining companies
- Private organisations using GEC

Development partners

- European Union
- UNCDF
- CDS

OUR TEAM

Complementary skills, from networks to applications

Technical Lead and Project Manager

Runs projects from scoping to delivery using Agile/Scrum, coordinates the developers, safeguards deliverable quality and remains the client's day-to-day contact.

Senior Developer and DevOps

Designs platform architecture (Python/Django, PostgreSQL), makes key technical decisions and handles server deployment, configuration and operations (Docker, Nginx, AWS).

Senior Developer and Web Designer

Designs clear, responsive interfaces (ReactJS, Bootstrap) and builds client websites and portals.

Network, Systems and Support Engineers

Design and secure networks and interconnections, administer servers, install equipment and CCTV, and provide day-to-day user support.

Application Developers

Build custom web and mobile applications, including offline data collection, integrate business modules and support testing and training.

A pool of on-call experts

Depending on the assignment, the team is strengthened by specialists in cybersecurity, ICT governance and management systems, engaged with the client's approval.

Let’s build your digital transformation together

Assessment, custom solution or certified training: our team will design an offer tailored to your goals and constraints.

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