VERIDOS

IDENTITY SOLUTIONS

by Giesecke+Devrient
and Bundesdruckerei



Bangladesh's route to the future

End-to-end ePassport system, locally produced ePassports,

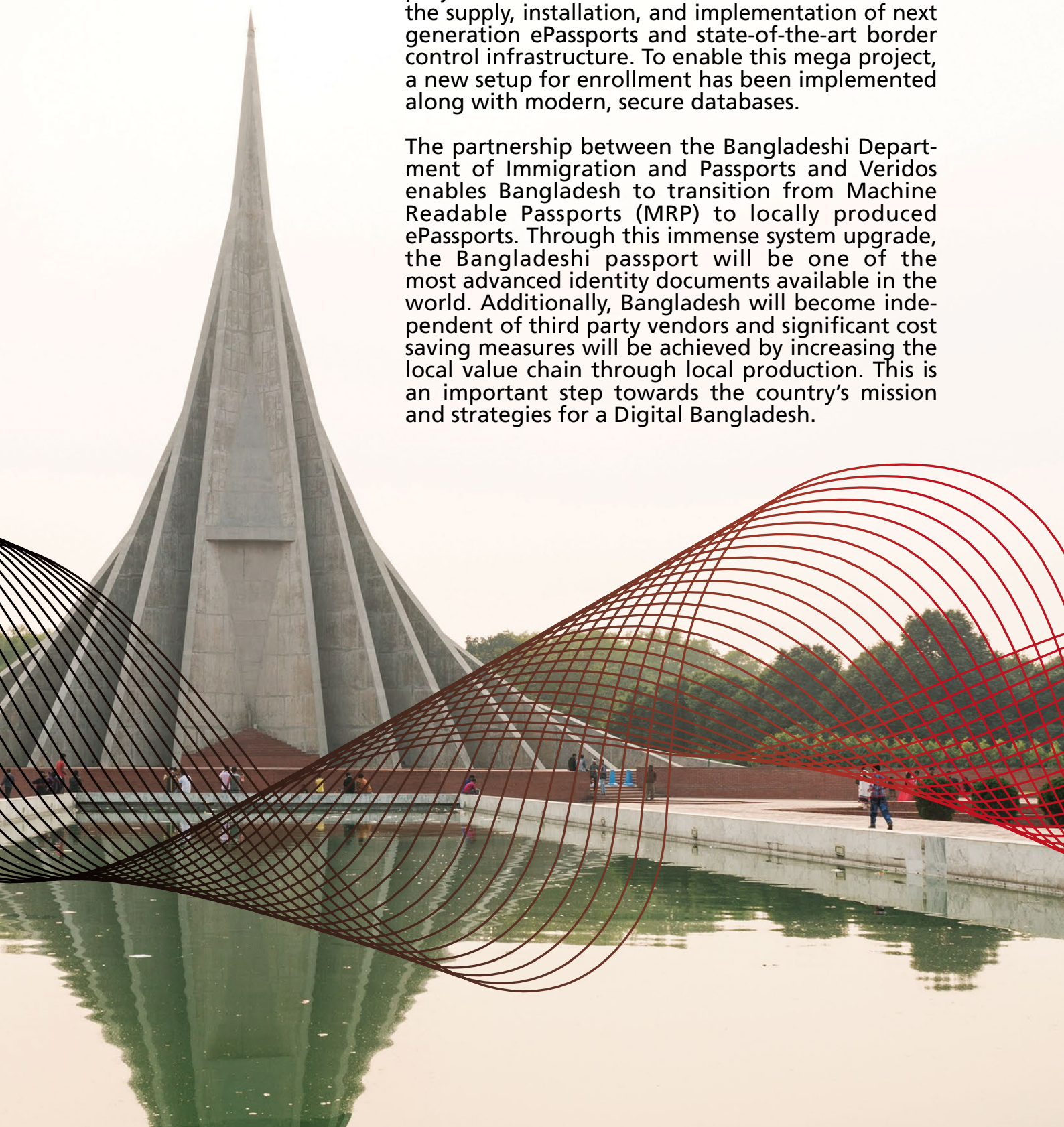
and state-of-the-art border control

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Veridos' customized solution for Bangladesh

Veridos has introduced the first ePassport for the People's Republic of Bangladesh. The comprehensive project includes the entire value-chain inclusive of the supply, installation, and implementation of next generation ePassports and state-of-the-art border control infrastructure. To enable this mega project, a new setup for enrollment has been implemented along with modern, secure databases.

The partnership between the Bangladeshi Department of Immigration and Passports and Veridos enables Bangladesh to transition from Machine Readable Passports (MRP) to locally produced ePassports. Through this immense system upgrade, the Bangladeshi passport will be one of the most advanced identity documents available in the world. Additionally, Bangladesh will become independent of third party vendors and significant cost saving measures will be achieved by increasing the local value chain through local production. This is an important step towards the country's mission and strategies for a Digital Bangladesh.



PROJECT AT A GLANCE

- Introduction of **state-of-the-art, secure electronic passports** (ePassports) that are compliant with ICAO* travel standards
- Local production at a new, **modern factory in Bangladesh**
- ePassport with a **polycarbonate data page and vivid color picture** in high definition powered by Veridos' **CLIP® ID** technology
- Installation of 50 automated border control (ABC) **eGates** at 5 sites
- Expected production of up to **5 million ePassports** per year
- High skilled **job creation** through technology transfer and local production



*International Civil Aviation Organization (ICAO)

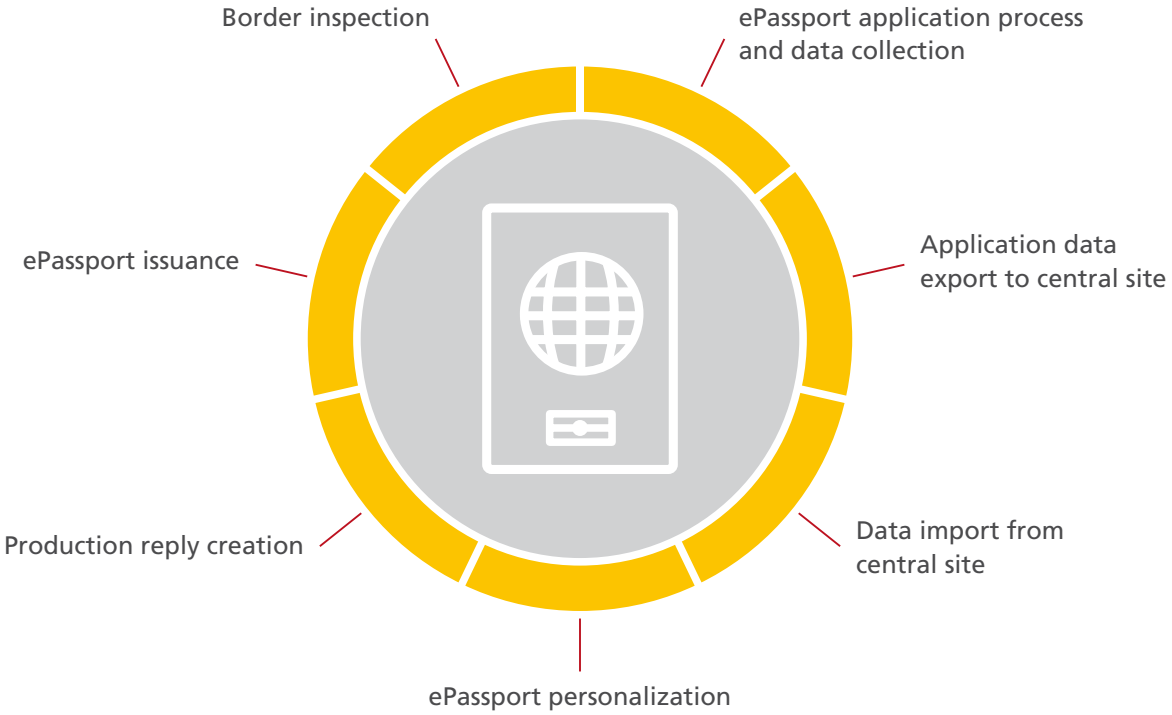


Enhanced ePassport System

A full-service approach
for Bangladesh.
Built to last.

Veridos has modernized the entire ePassport infrastructure for the People's Republic of Bangladesh. Innovative ePassports produced at one local production site and state-of-the-art ID and border control infrastructure are part of the project's vast scope that are now generating high qualified jobs for a young Bangladeshi generation.

ePASSPORT SYSTEM BUSINESS PROCESSES



DOCUMENT VERIFICATION

- Authentication
- Document reading

BORDER INSPECTION

- Manual Control
- Automated Control

BORDER SUPERVISION

- Location-level Border Operations Management
- Location-level Border Systems Management

BORDER INSPECTION

- Country-level Border Operations Management
- Country-level Border Systems Management

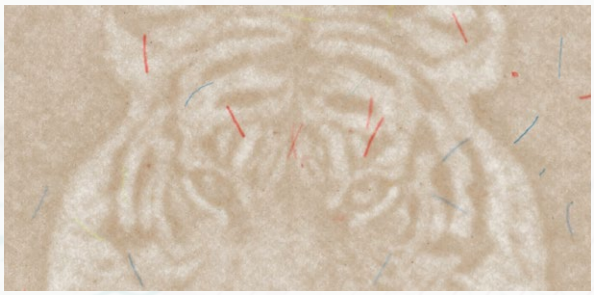
Major characteristics of the new ePassport system

- Upgrade of 72 regional passport offices (RPO); 72 special branch offices, and 80 Bangladesh Foreign Missions (BM)
- Introduction of Public Key Infrastructure and Public Key Directory
- Data Center and Disaster Recovery Center
- Enrollment and issuance based on ICAO compliant ePassport solution. A total of 260 devices will be available for mobile enrollment and will be distributed among Regional Passport Offices and Foreign Missions (FMs)
- Upgrade of Automated Fingerprint Identification System

What makes this ePassport secure and unique?

All new ePassports for the People's Republic of Bangladesh contain a contactless chip module with crypto functionality. The chip stores biometric information to authenticate the identity of the ePassport holder such as:

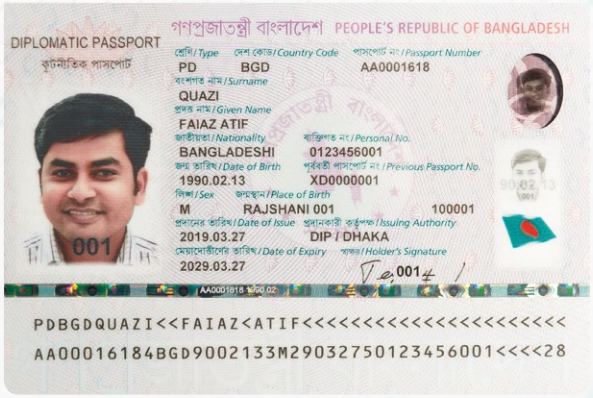
- Iris
- Fingerprints
- Face image
- Personal data



The innovative ePassport chip, compliant with ICAO standards, enables contactless and secure, accurate identification, making this new ePassport an incredibly reliable travel document for Bangladeshi citizens.

More than 40 security features in all security levels (1, 2 and 3) have been incorporated into the ePassport and its design.

- Personalized **polycarbonate data page**
- Vibrant color picture with **CLIP® ID** technology
- **Holographic security thread**
- **Clear window** with personalized photo
- **Multiple Laser Image**
- **MAGIC-ID** – the waving Bangladeshi flag
- **Watermarks** on security paper technology



Advanced border control solution

The new integrated border control system is equipped with the capability to read the electronic data of the ePassports and will allow citizens to pass through checkpoints quickly and securely.

The innovative eGate solution integrates passport forgery detection software, external systems background checks, and a complex tailgating recognition system. All these security features prevent forgery attacks and will detect the existence of more than one person trying to enter the gate.

The self-service eGates have a modern design, are customized based on specific regional airport or land port requirements and have an optimized user interface to ensure easy usage, high passenger throughput and high user acceptance rates.

- State-of-the-art eGates for automated border control
- Border control system with manual control
- Improved passenger flows by faster processes
- Intuitive, easy and fast processing of arrivals and departures
- Secure borders due to biometric scanning technology
- Future-proof system adaptable to changing needs



A modern factory for locally produced ePassports

To achieve local supply, cost reduction, and high skilled job creation, Bangladesh's Department of Immigration & Passports (DIP) set up their own factory for ePassport production, enabled by Veridos. Daily production capacity will reach up to 25,000 ePassports. Moreover, due to a modular factory design, DIP can increase production (e.g. by adding security printing equipment, manufacturing of polycarbonate data pages, etc.) according to their needs in the future.

Identity solutions for a strong economy

The People's Republic of Bangladesh has achieved strong economic growth over the past few years, joining the emerging Next Eleven nations in the process. Bangladesh hosts a young population ready to participate in the transformation into a middle income country, a goal set for 2021. By building local high-tech passport production sites and training by Veridos specialists, Bangladesh will provide citizens and future generations with secure identity documents. This component will fuel growth by creating high skilled jobs in production and service.

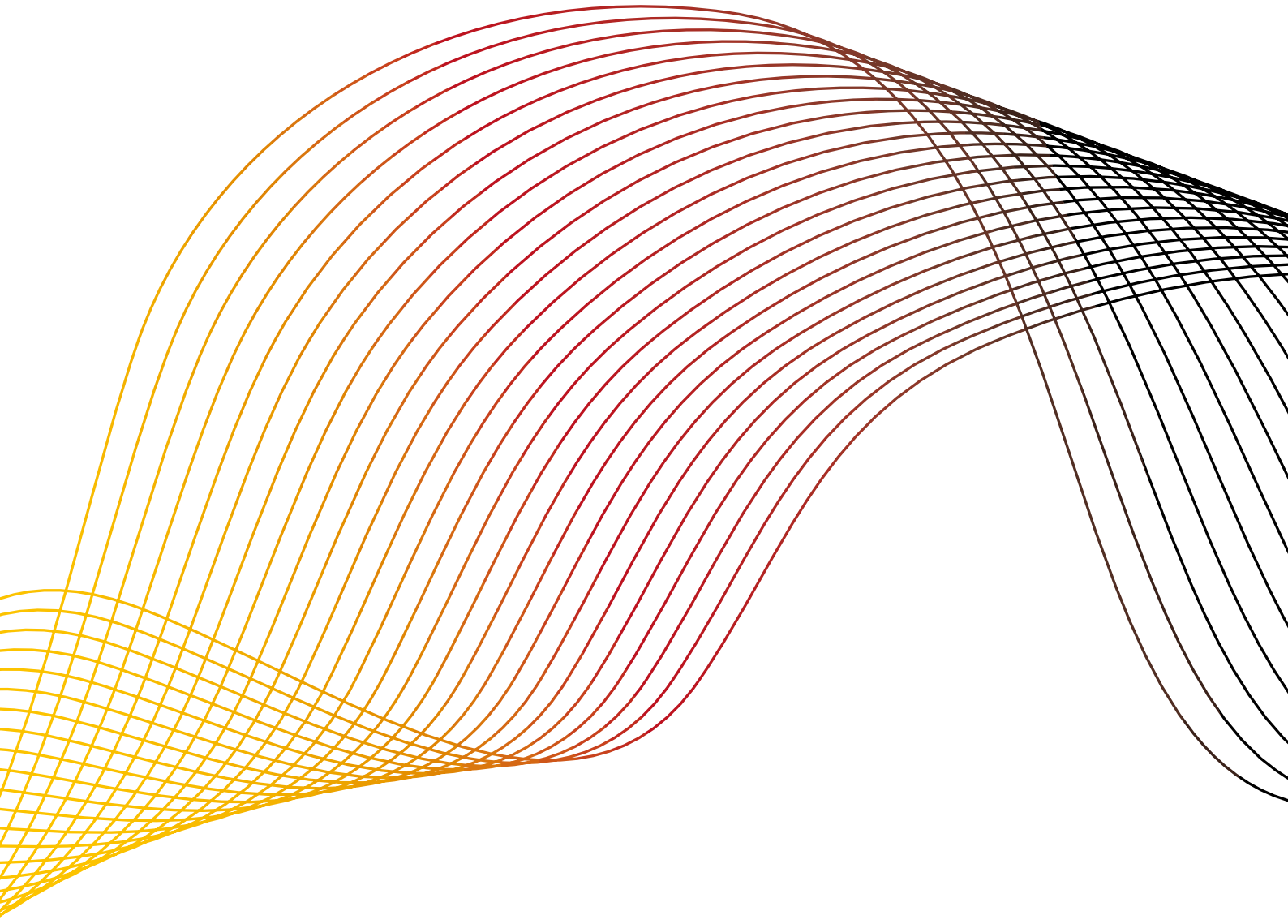


Veridos is happy to accompany the People's Republic of Bangladesh in building the next generation of ePassports.

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