

Deployment of a Comprehensive End-2-End Trusted and Secured Enrollment - Verification - Election Solution

COOPERATION
MODESTY



LOYALTY
IMPROVEMENT



Why Electoral Voting is going Electronic?



Benefits of Electronic Voting



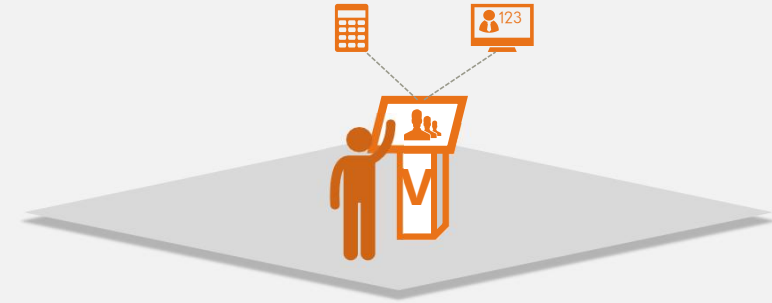
- Electronic Voting is “**FIT**” - **Fair, Innovative and Trustable**
- Every Vote Count is based on “**FACT**” – **Factual, Accurate, Clean and Transparent**
- Full Automation without Human Manipulations – **Avoid Cheating and Human Errors**
- Fast Vote Counts Consolidation - **Speedy Result Confirmation**
- Election Processes - **Secured and Auditable**
- Secrecy of Votes – **Personal and Sensitive Data are Well Encrypted and Protected**
- Vote Data Matching with Physical Printed Records – **ZERO Dispute**
- Fast and Wide Deployment with Minimal Resources – **Operations and Cost Effective**
- User Friendly & Simplicity to Vote – **Voters Satisfaction**
- Highly Accessible - **Voter Engagement and Turnover Enhancement**
- Less Carbon Footprints – **Reusable Devices & Environmental Friendly**

Traditional Voting



- Huge Workforce & Resources Allocation
- Human Interactions and Manipulations
- Manual Counting & Data Consolidation
- Time Consuming & Low Efficiency
- High Risks of Human Errors
- Not Environmental Friendly
- Data Accuracy Doubts and Disputes

Electronic Voting



- Minimized Workforce & Resources
- No Human Manipulations
- Fully Automatic Vote Counts & Statistics
- Fast and Highly Efficient
- Lowest Risks of Human Errors
- Environmental Friendly
- Data Accuracy, Security and Traceability
- Fair, Innovative & Credible
- Data Encryption & Protection
- Satisfied Voters Experience
- Operations and Cost Effective



What needs to be
done to transform
Traditional Voting
into Electronic?

▶ Electronic Voter Registration

Voter Registration and Biometric Data Enrollment▶



Personal Info



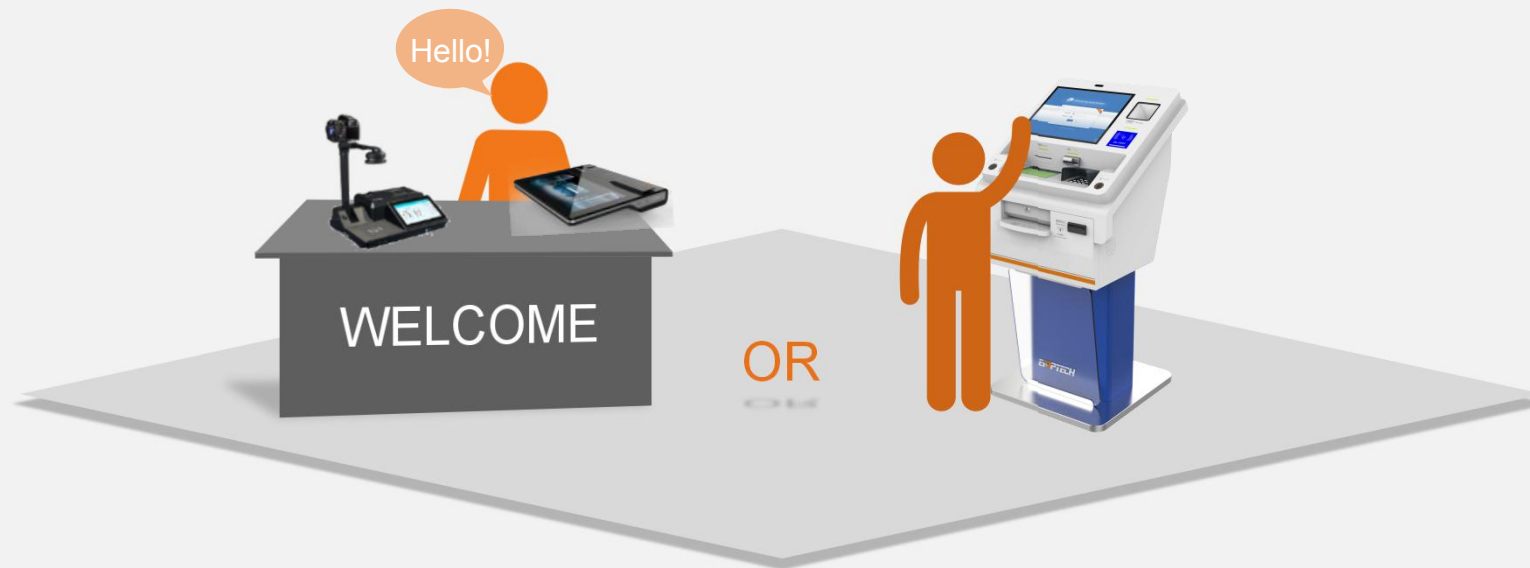
Photo



Fingerprint



Signature





Electronic Voter ID Card Issuance



Card Personalization

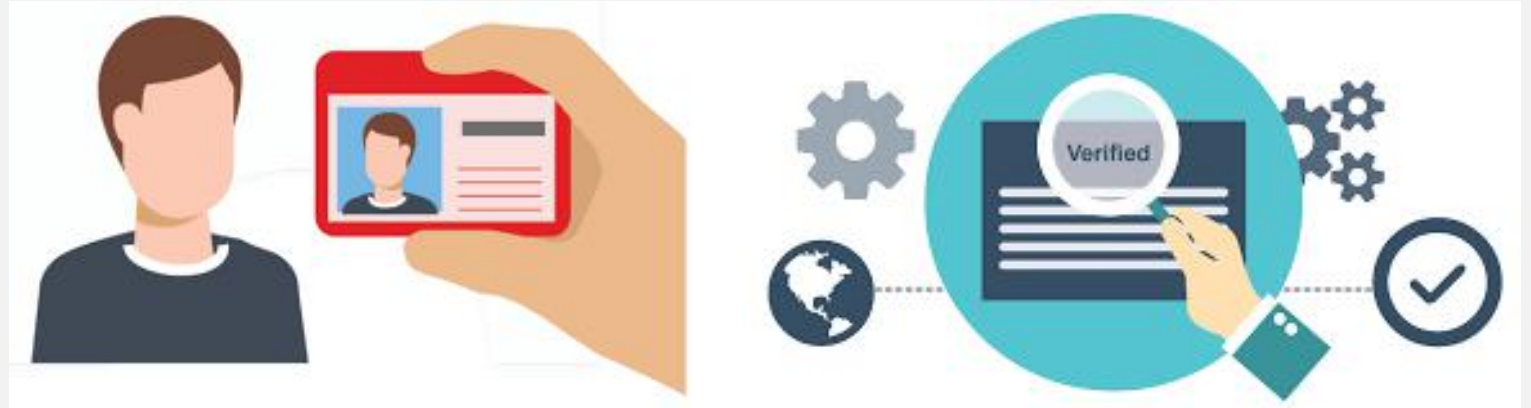
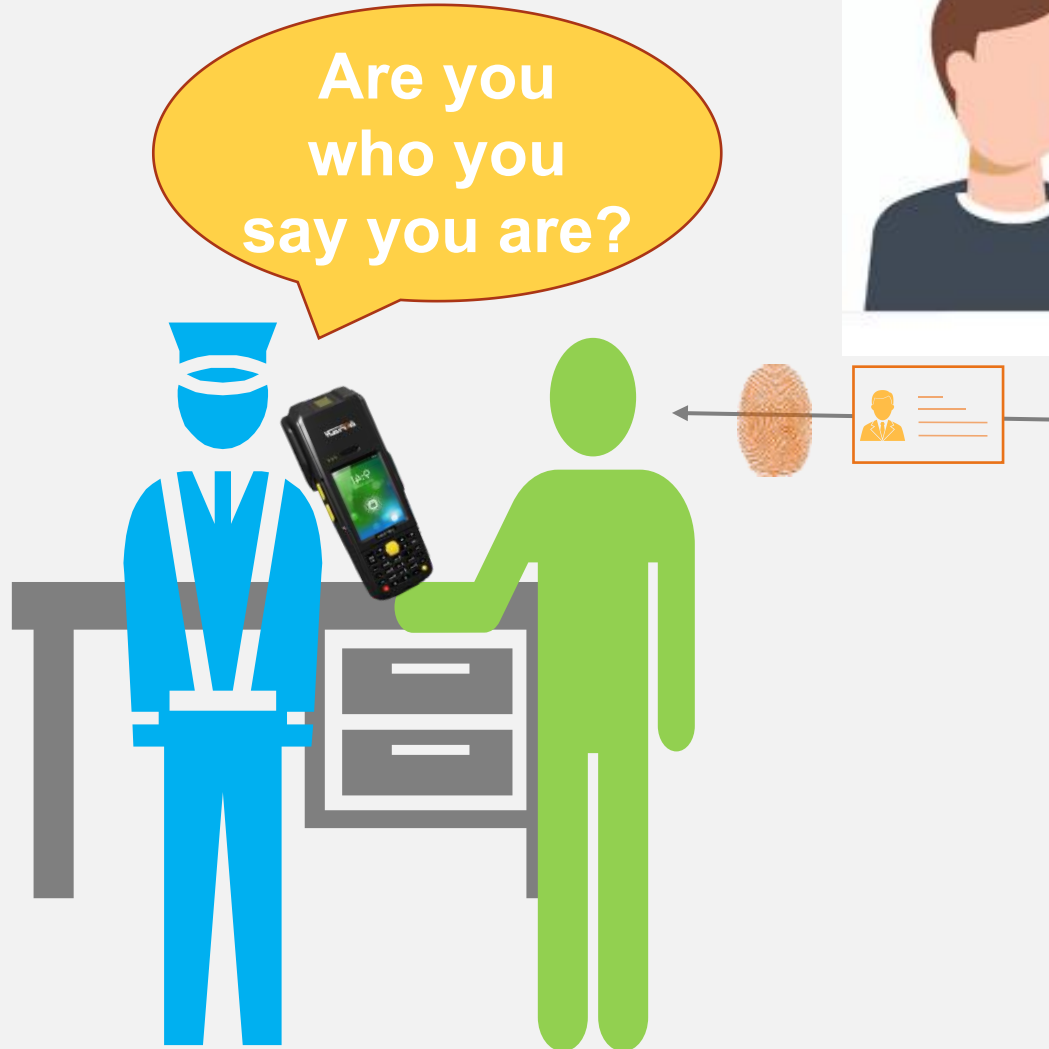
- Overlay
- Printing
- Security Reinforcement
- Hot Lamination
- Punching
- Chip Encryption
- Quality Operations

011101000
01000010011101000
010000100100010011101000





Voter ID Verification



- Contact or Contactless Card Reading
- Optional: ePassport MRZ or Barcode Reading
- Encrypted Data Transfer (Local or OTA)
- Personal Data Verification
- Photo Verification
- Fingerprint Verification





Electronic Voting

Voter Identity
Verification & Mark on

Step I

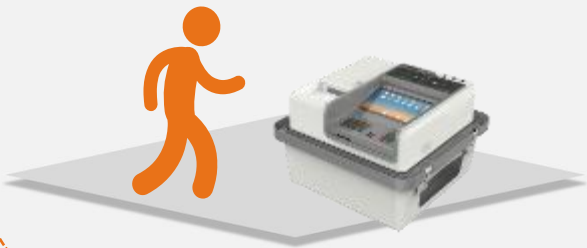
Pollbook



EVM login (optional 2nd
level Identity
Verification inside Polling

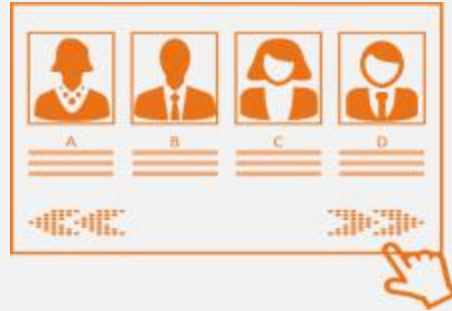
Unit

Step II

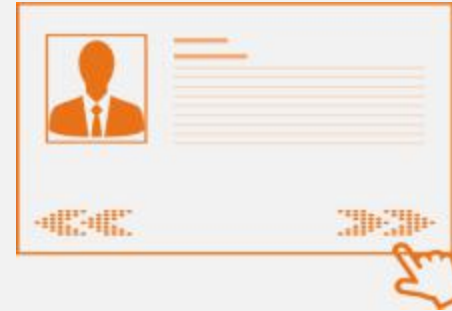


View Candidates
List in EVM

Step III



View Candidate
Details in EVM



Electronic Vote
Casting



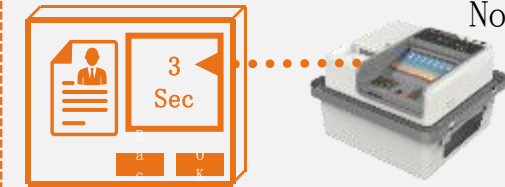
Ballot Paper
Printing



Ballot Confirmation
& Casting into Ballot Box

Step IV

Window View
No Touch
No Tamper



Data Encrypted and Managed

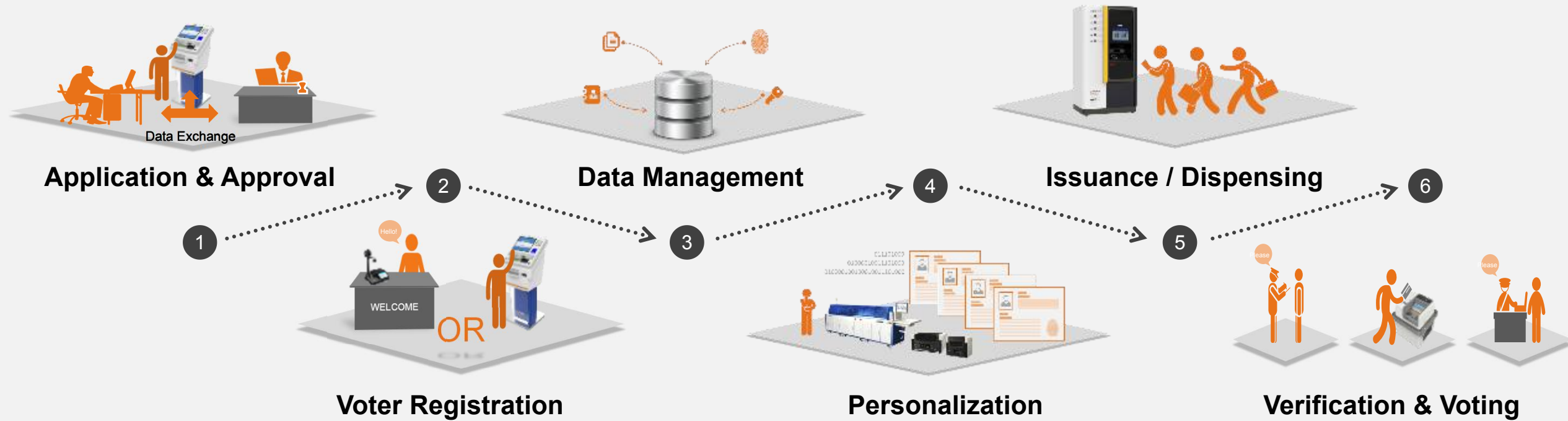




Who can
provide
End-to-End
Comprehensive
Electronic
Voting Solution
and Services?



EmperorTech's Trusted End-2-End Solution



One Voter... One ID... One Vote

▶ Biometric Data Enrollment

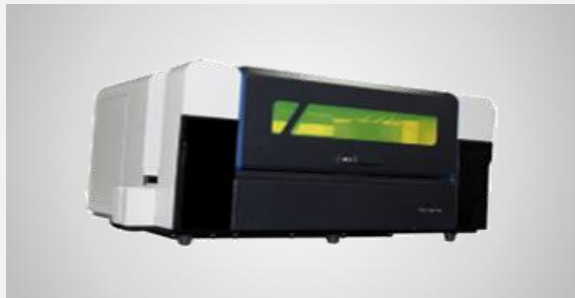
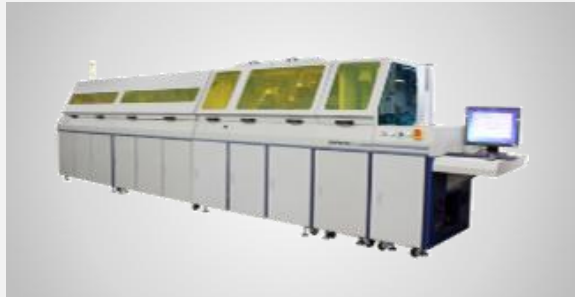
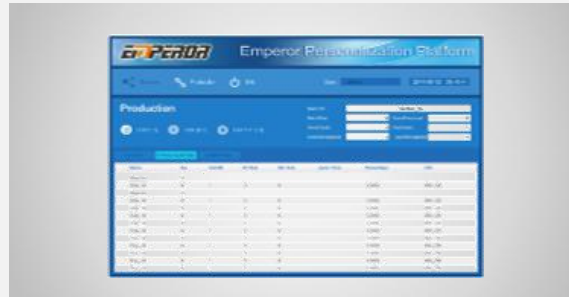


- Mobile, Fixed and Self-service Data Collection Methodologies for Secure ID Documents
- Biometric Data Collection Configurations: ID Document Reading, Portrait, Fingerprint, Signature, etc
- Highly Customization for different User Experiences

▶ ID Card Production and Issuance

Laser - UV - Inkjet - Thermal

Centralized - De-centralized





Identity Verification

1 Handheld Verifier



Product Description

- Contactless Card Reading
- Fingerprint Verification
- MRZ Reading (Optional)
- 1D / 2D Barcode Reading
- Vocal Assistance

2 Emperor ID Tablet



Product Description

- Contact/Contactless Card Reading
- MRZ and Barcode Reading
- Fingerprint Verification
- 8" Touch Screen

- Vocal Assistance
- 4G, 3G, Wi-Fi, Bluetooth and GPS

VCOS Machine



Product Description

- Secured Features and Voter Experience are Highly Customized per Electoral Committee Requirements
- Votes are scanned optically thus Vote Data are recorded both electronically and on paper simultaneously
- Paper Ballots can be scanned on precinct-based optical scan system in the polling place (Precinct Count)
- Paper Ballots can also be collected in a ballot box to be scanned at a central location (Central Count)
- Vote Data Matching electronically with Physical Paper Ballots Collected

Electronic Voting with Matching & Verifiable Printed Paper Record - Electronic & Paper Combined Voting with User Friendly, Convenient and Secured Voting Procedures



⚙️ Product Description

- Biometric Dual Access Control
- Touch Screen
- User Friendly and Convenient Interface
- Easy & Clear Candidate Information Display
- Simple Voting Operations
- Automatic Vote Receipt Printing
- Automatic Vote Count Management
- Secured Ballot Paper Storage
- Tamper Proof

▶ Electronic Voting Machine (RFID Ballot)



▶ Electronic Voting Machine (RFID Ballot)



Excellent Voter Experience

- 21.5" LED-Backlit Display Screen
- Capacitive Touch Screen
- Privacy Protection
- Vocal Assistance

Artisan Industrial Design

- Robust and Tamper Proof Casing
- Light Weight for Mobility and Logistics Convenience
- Adjustable Angles for Voting Convenience

Trusted and Secured Features

- Embedded RFID Reader and Thermal Printer
- Simultaneous RFID Encoding and Ballot Printing
- 3 Way Vote Data Matching and Management Mechanism





Our Different Electronic Voting Solutions



**Trusted and
Highly
Customized
Solution**



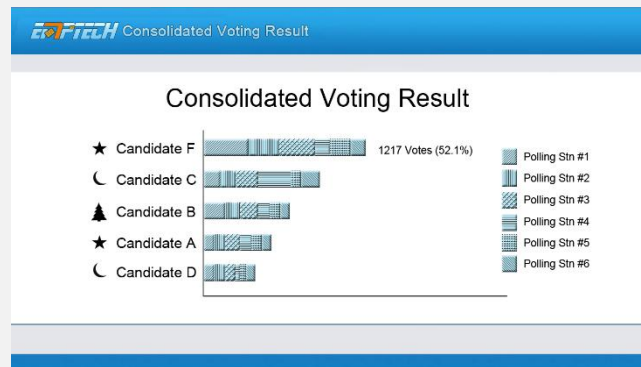
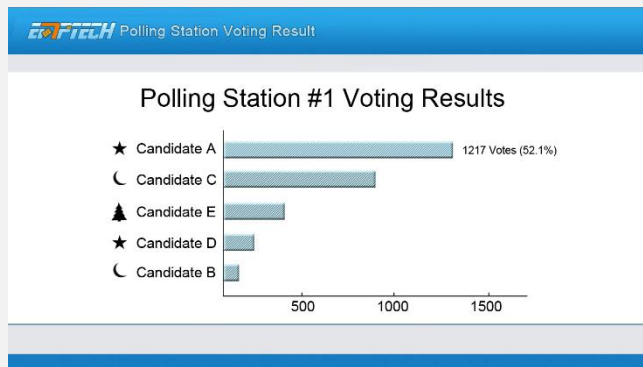
Type	Standalone	Mobile (Rechargeable battery)	Mobile (Rechargeable battery)
Ballot Format	Paper Ballot	Printed Paper Ballot	Printed Paper Ballot with RFID Encoding
Ballot Recognition	Scan	Vote via System + Paper ballot Printed	Vote via System + RFID Encoding + Paper Ballot Printed
Tally Efficiency	Simultaneous	Simultaneous	Simultaneous
Voter Ability Level	Low Literacy and Machine Operation Proficiency	Basic Literacy and Machine Operation Proficiency	Basic Literacy and Machine Operation Proficiency
Legislation Requirements	No impact to legislation	Possible Election or New Laws and Regulations Approval Needed	Possible Election or New Laws and Regulations Approval Needed



Total End-2-End Solution & Services from A to Z



- ❖ Vote Data Encryption and Management (Local Storage & Secured Transmission)
- ❖ Vote Statistics and Data Consolidation Management



- ❖ Remote Voting Machine Monitoring System (VMMS)
- ❖ Other Value Added Services:
 - ❖ Consultancy Services (Standards, Regulations, Procedures, Approvals, Certifications, etc)
 - ❖ Polling Center Design, Renovation, Ballot and Accessories Production
 - ❖ Administration, Logistics and Training Services

900,000,000+
ID Cards Produced

100,000,000+
ePassport Produced

30,000,000+
Public Transportation Data &
Transactions are being managed
per Day



300,000+
Registration Devices are
in Operations

Worldwide Successes & References

30+
Very Satisfied BIG
ACCOUNTS
Worldwide

200+
Transportation Token
Sorting Machines are in
Operations

1,000+
Perso Devices are in
Operations

1000+
Kiosks are in
Operations

50+
Security Related
Patents Registered

Issuing
150,000
ePassports every day



ePassport

China Citizen ePassport
China Diplomatic ePassport



Location

Covers all 31 Provinces of China
3 Overseas Perso Centers



Equipment





Issuing **900,000,000**
China National eID Cards



Time

From Y2005



Sample



Equipment



Kazakhstan ePassport



Customer

Ministry of Interior of Kazakhstan



Time

Y2014



Sample



ePassport



Equipment



High-speed Issuance



Kazakhstan eID



Customer

Ministry of Interior of Kazakhstan



Time

Y2014



Sample



Color photo
based on polycarbonate substrate



Equipment



High-speed Issuance



State Bank of India-Banking Card Dispenser



Self-service Banking Card Issuance / Dispensing



Customer

State Bank of India



Scope

250+ branches in India



Equipment



Instant
Issuance Kiosk



Account
Opening Kiosk

▶ Smart Transportation (Fare Payment)



20,000+ payment terminals

installed in **100+** cities



To support **30 million+** transaction data every day with high integrity and security



80% Market Share
In China

Shenzhen Metro
Automatic Clearing Center

Beijing Metro
Ticketing Center Equipment Provider



▶ Nigeria Voter's Card

Issued

70,000,000 Voters' Cards



Customer

Nigeria Independent National Electoral Commission (INEC)

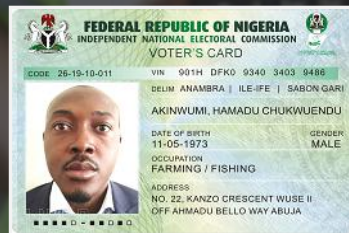


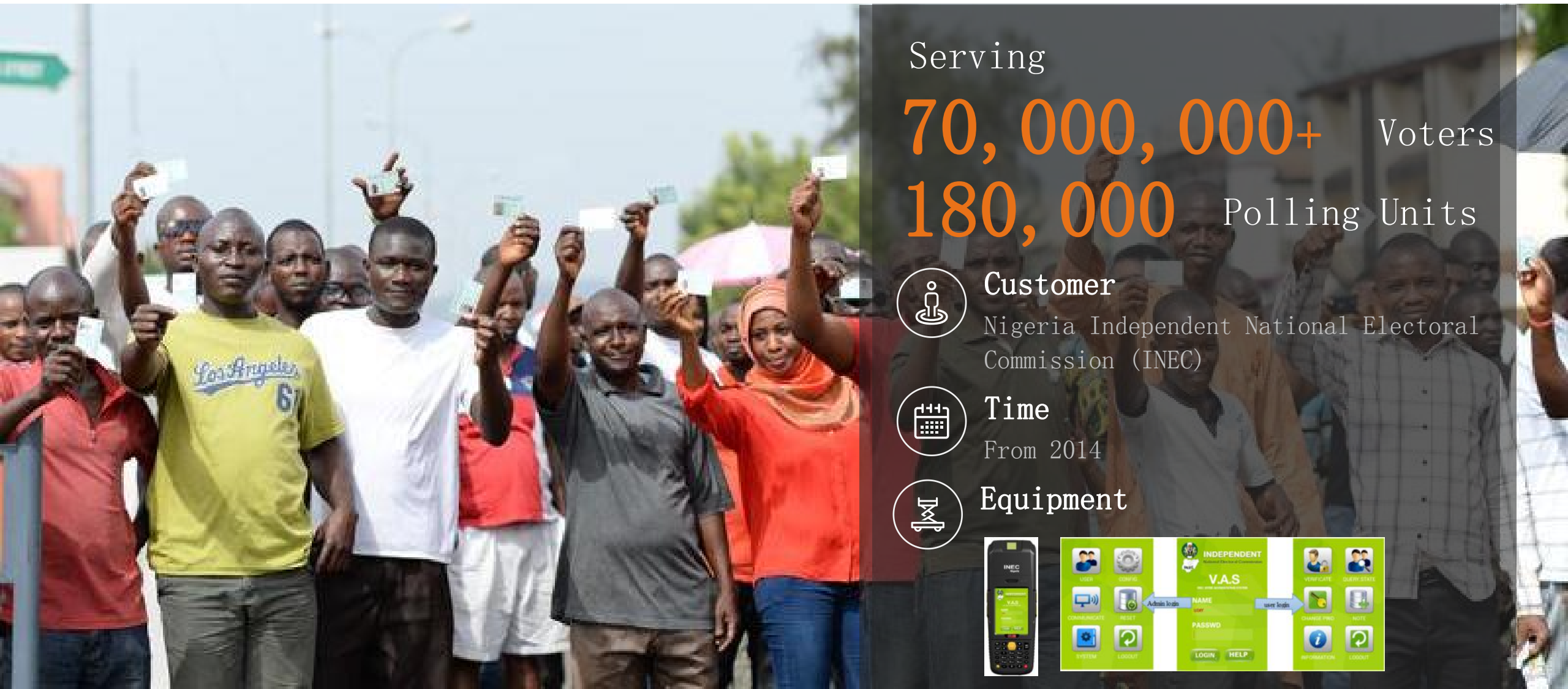
Time

From 2012



Sample





Serving
70,000,000+ Voters
180,000 Polling Units



Customer

Nigeria Independent National Electoral Commission (INEC)



Time

From 2014



Equipment





Technologies Boost Stronger Democracy



"I commend President Jonathan for his leadership throughout the electoral process and his statesmanship in upholding the democratic process. I also applaud the INEC for having organized and carried out the elections in a professional manner under challenging circumstances."

—— The Secretary-General of UN, Ban Ki-moon

Letter
from The
chairman
of INEC



The chairman of INEC, Professor Attahiru M. Jega, OFR addressed a letter to praise Emperor Technology for the excellent coordination and project implementation which set a strong technical foundation for promised credible elections.

"I am very impressed by the decision of INEC to use technology in this election. The Permanent Voter Cards are very high-tech. They are more high tech than my voter card from the state of Virginia in the US. My voter card does not have biometric. It does not have my fingerprint. The high-tech gives the process more integrity"

—— The US Ambassador to Nigeria, James Entwistle

"Nigeria's Independent National Electoral Commission (INEC) and its Chairman, Attahiru Jega, deserve special recognition for what independent international observers have deemed a largely peaceful and orderly vote. I commend INEC for its extensive efforts to increase the credibility and transparency of the electoral process."

—— The US President, Barack Obama



Thank You

Emperor Tech

