More Effective Voter Engagement

Through

Intelligent Election Solution

Sean Zheng 19 June 2019

Elections Nowadays

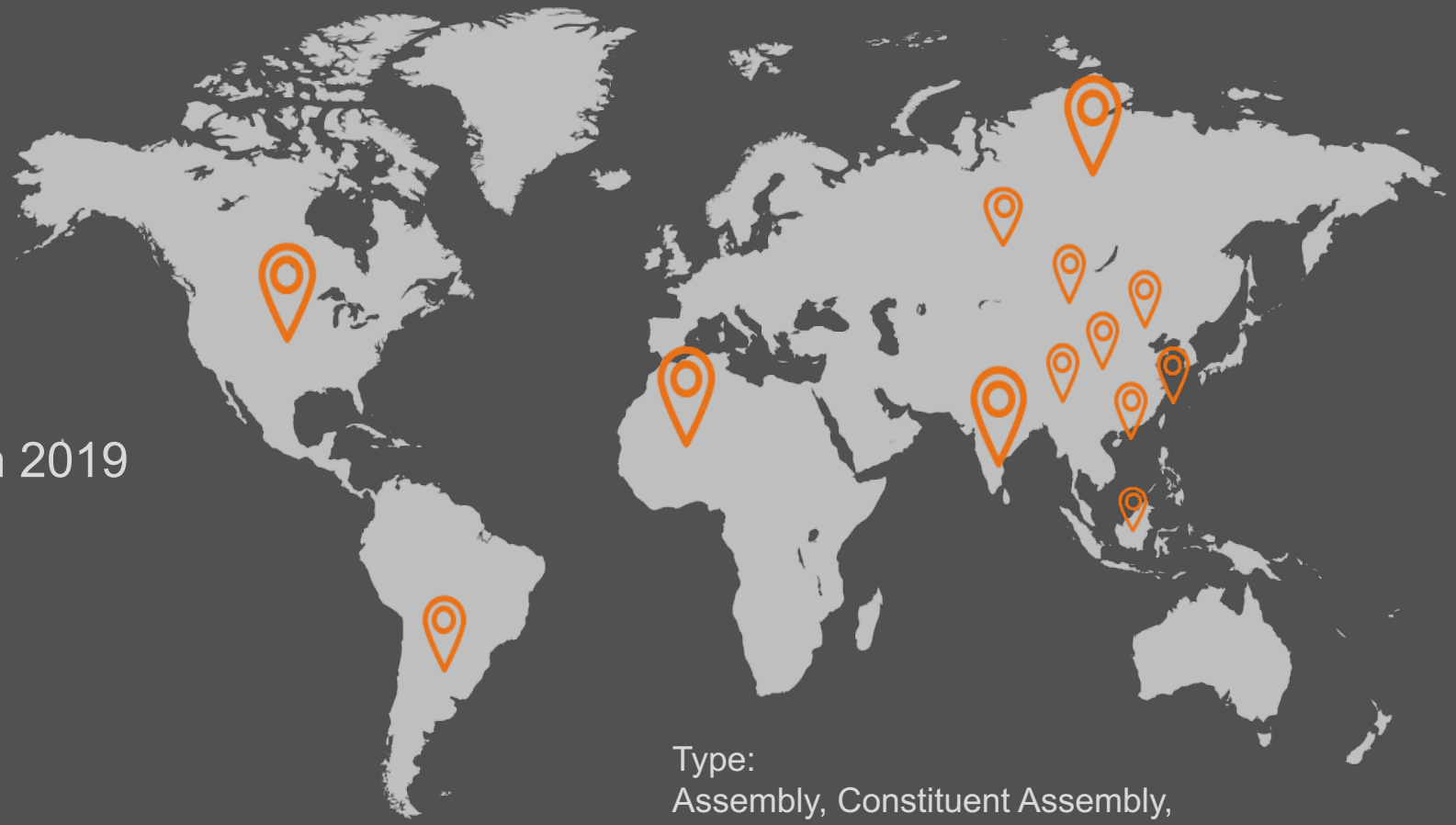
Worldwide Elections

Elections held in 2018

113

Elections scheduled to be held in 2019

102



Type:
Assembly, Constituent Assembly,
Head of Government, Head of State,
Lower House, Upper House, Referendum

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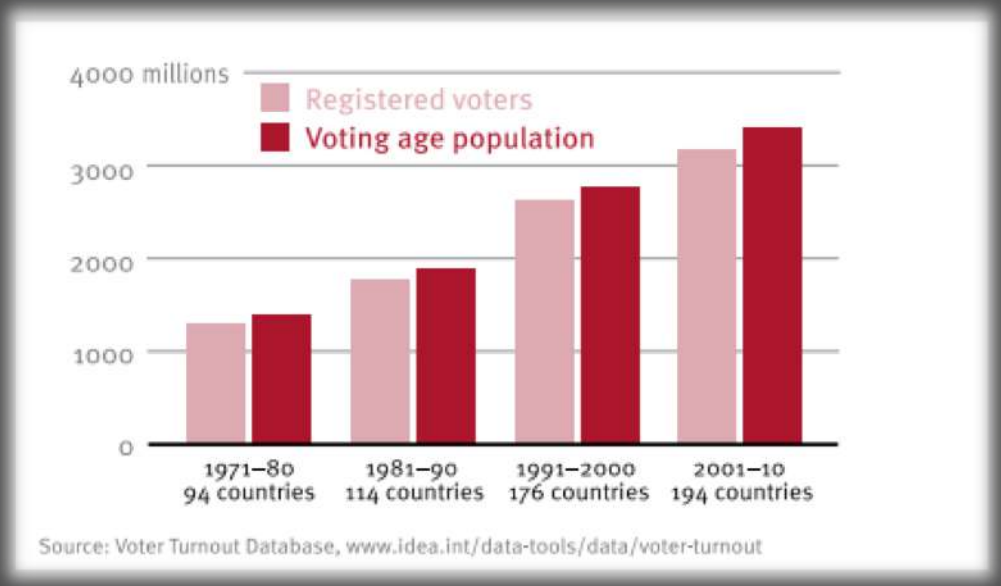
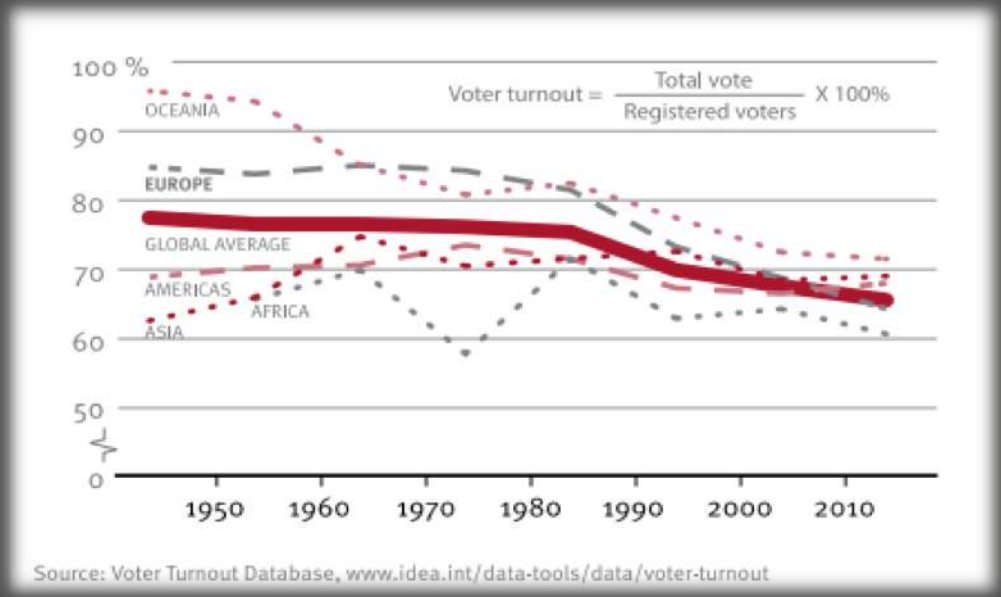
Source:International Foundation for Electoral Systems (IFES)

Global Trend





- An anlysis from IDEA shows that the total number of registered voters has always been lower than the total estimate of the VAP in each decade from 1971-2010.

- Global voter turnout was fairly stable between the 1940s and the 1980s, falling only slightly from 78% to 76% cent over the entire period. It then fell sharply in the 1990s to 70%, and continued its decline to reach **66%** in the period of 2011–2015.

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Source:International Institute for Democracy and Electoral Assistance (International IDEA)

Global Voter Turnout

in 2017 Elections

Global Average Turnout

66.25%

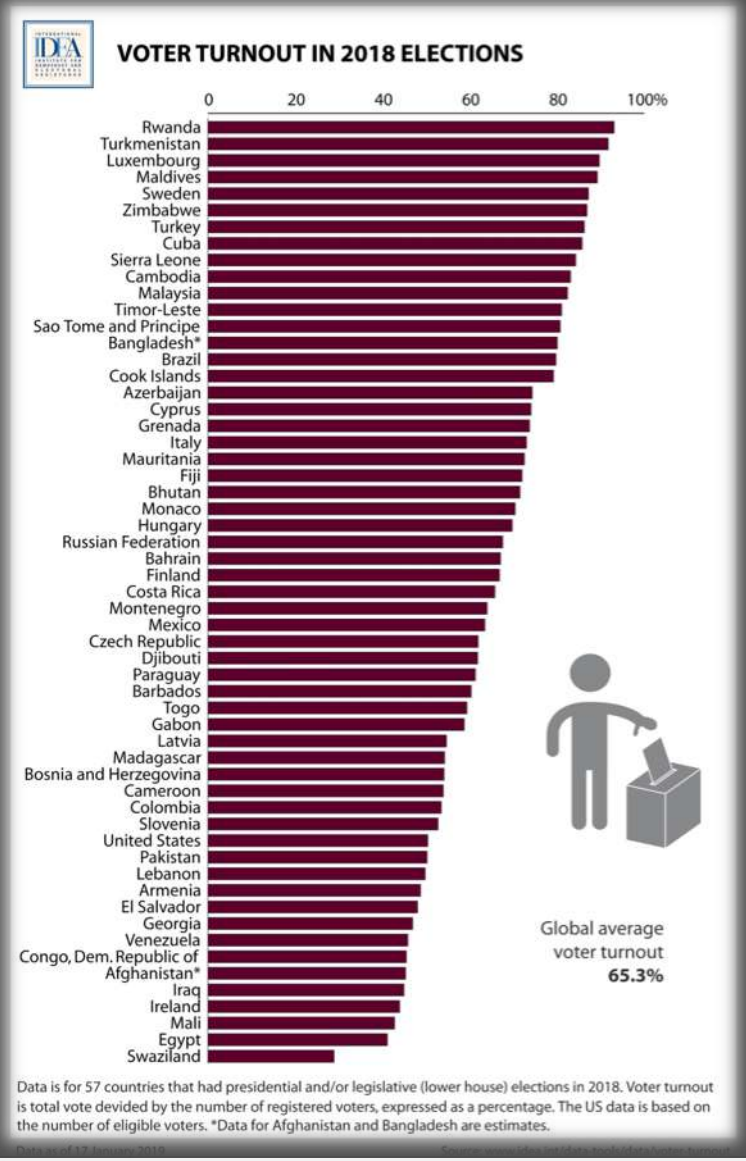
...

in 2018 Elections

Global Average Turnout

65.3%

Voters Turnout is Declining Worldwide...



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Source:International Institute for Democracy and Electoral Assistance (International IDEA)

What is the election that people really want

Transparent Trustable Efficient

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Digitalization in Election

End to End Solutions

Registration	Enrollment Site	Data Center	Perso Solutions	Verification	eVoting

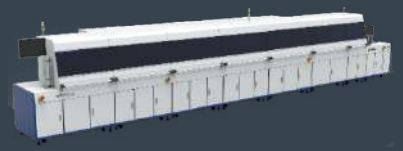
Voters

Enrollment Kits

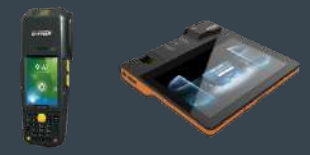
Data Record

Key& Data Management System

Data Prepare



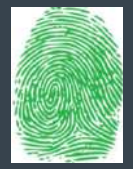
Perso Systems



Verification devices

EVM

Face

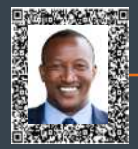


Finger print

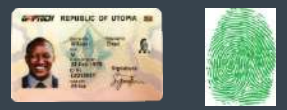
DB

Voters Cards

Or



iCode



Matching

Data Encrypted and Managed

Issued

iCode is an advanced technology from EMP, it should be supported by Intelligent Terminal

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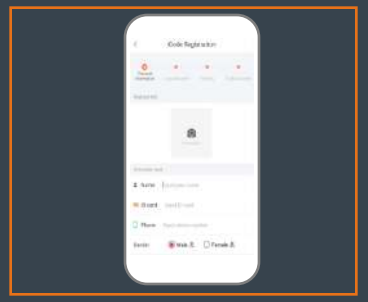
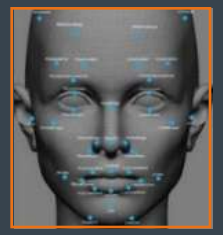
Improving Enrollment Experience – One ID One Vote





iCode

Smart devices enable people to register from anywhere!

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What is iCode? A trusted identity.

iCode, refers to a graphic code consists of ‘QR code + Biometrics’, which can be authenticated offline using intelligent mobile terminal, and it can carry different data of personal features. It enhances the security level of current “QR code” issues, easy to tamper, copy, or deny, etc.. It is a new secure coding system of reading convenience, high capacity, and high security.

Technical Features：

- iCode adopts Reed Solomon algorithm for error correction and tolerance adjustment;
- 4-level error correction options: 7%, 15%, 25%, and 30%;
- Coding capacity may adjustable under 1000 byte.
- The face photo is using digital water printing with anti-fake technology

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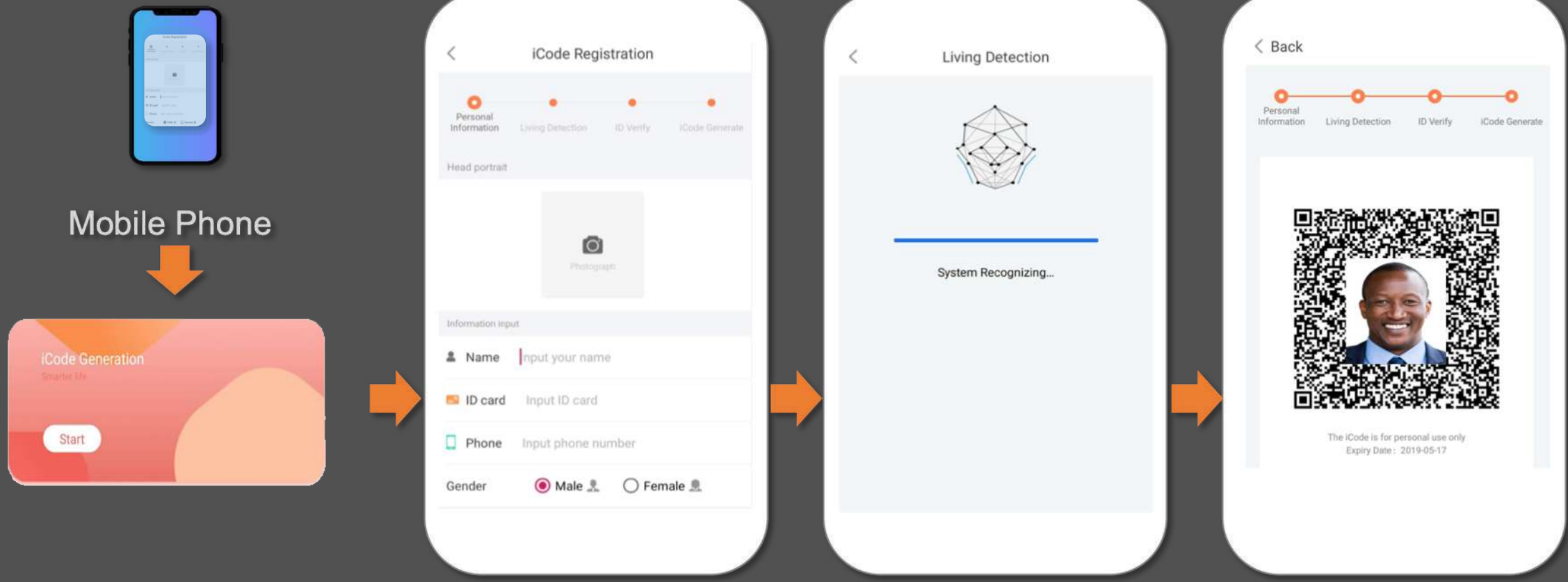
Easier Participation in Elections



iCode can be registered & verified through a smartphone very easily, which is a kind of more convenient participation way!

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EVM – Electronic Voting Machine

EVM

- Block-chain
- Tamper-proof

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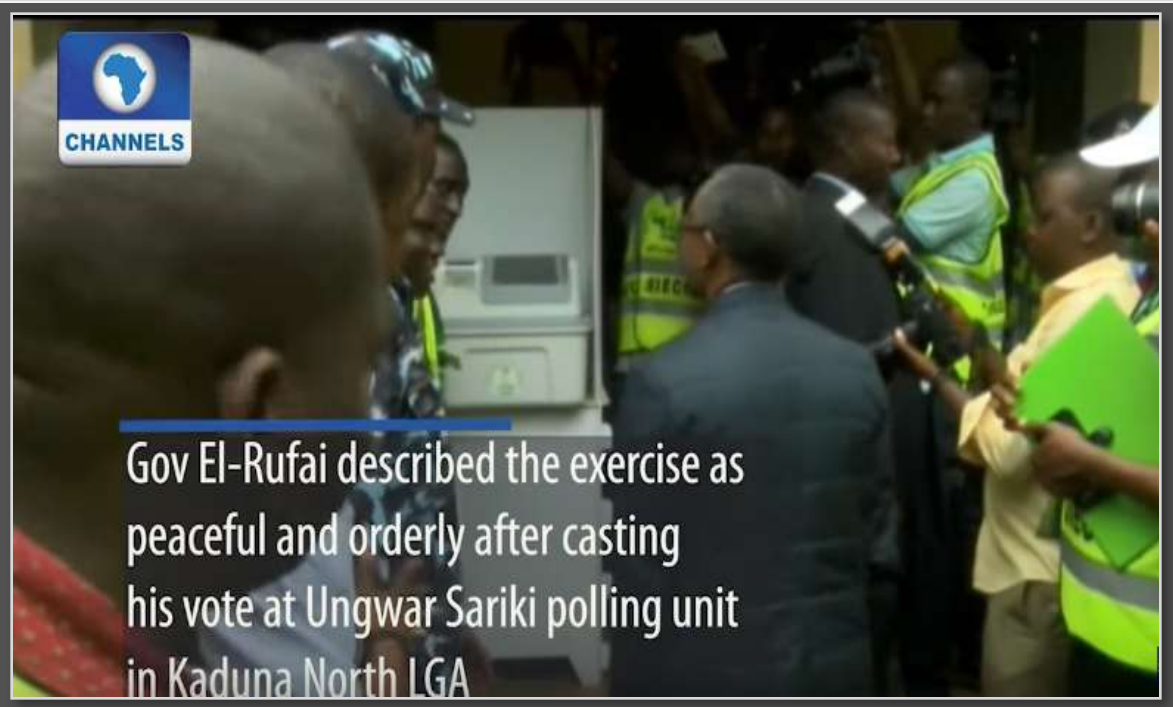
CHANNELS

El-Rufai Hails Conduct Of Kaduna LG Polls



The governor Nasir El-Rufai of Kaduna State said:

"The whole voting process just took me less than 10 seconds,so it is quite easy,very smooth and straightforward."

"I think it can work at the national level.It has been successful now and we believe it can be duplicated across the country."

Source:Channels Television

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Device Management System

EVM provides Voter Verifiable Paper Audit Trail (VVPAT)

Systematic Data Monitoring on Voting Platform

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End to End Security

Data and system backup

Transmission protection

Encrypted storage

Block-Chain Technology

Equipment Anti-dismantle

Multiple Distributed Key Protection Mechanism

Symmetric & Asymmetric Systems

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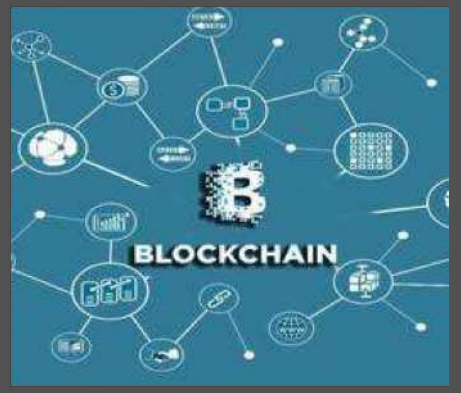
Technology enhance Trust and Simplification

Biometrics Recognition

EVM (Smart Devices)

Blockchain



More efficiency and transparency to engage more people into credible elections!

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Elections in Digital Era

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

VS

Intelligent Voting

- Minimize Workforce & Resources
- Operations Cost Down
- Minimize Human Manipulations
- Fully Automatic Vote Process
- Minimize Risks of Human Errors
- Data Accuracy, Security and Traceability
- Fair, Innovative & Credible
- Data Encryption & Protection

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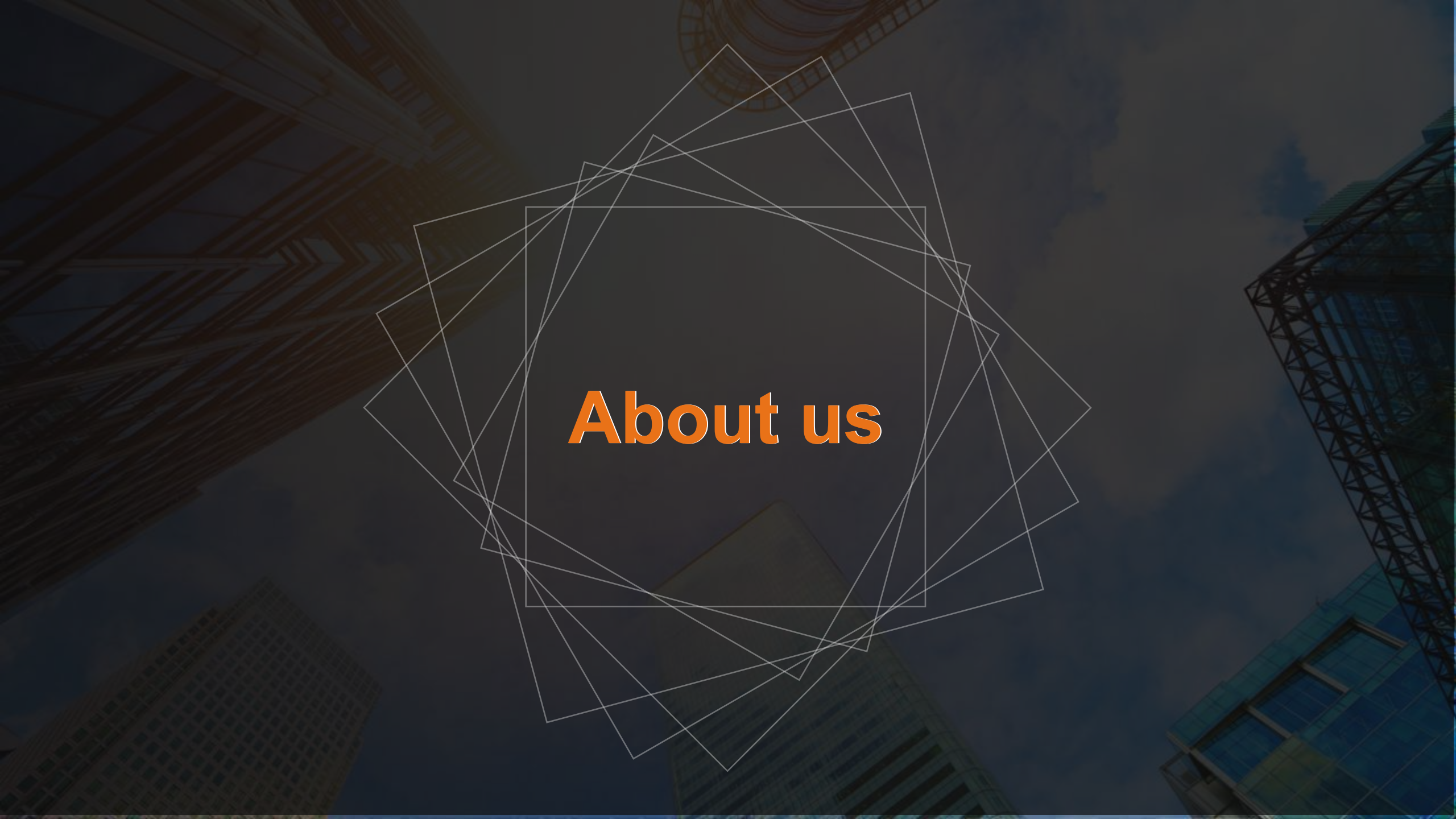
About us

Solution Provider

Who is Emperor Technology

- Founded in 1995,with 24 years of global deployment and achievement
- IPO in 2016,China
- A leading Secure ID Solution & Service Provider

Business Units

- Public Security
- Smart Election
- Smart Banking
- Smart Transportation

Products

- **Personalization Machine for Secure ID Document**
  Centralize & Decentralize Personalization
- **Self-service Kiosks**
  KYC & Application, Identity Verification
  Document Issuance
- Smart Terminal
  Identity Enrollment&Verification,EVM

Services

Headquartered in Shenzhen, China.
We also have representative offices in the **India, Nigeria, United States, Russia and other countries.**
Our Service network covers more than 20 countries and regions around the world.

Secure ID Document Cases

- China
- Kazakhstan
- Kyrgyzstan
- Belarus
- … …

Smart Election Cases

- Nigerian General Election in 2015 & 2019
- Kaduna Election in 2018

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Intelligent Election bring More Trust to People

THANK YOU!

(Booth F07)