

## AUTHENTICITY AND ACCURACY IN ELECTION ADMINISTRATION

#### **ASSESSING THE ROLE OF VOTER ID AND TECHNOLOGY**

Henry Atem
Executive Director
U.S. Int. Center for Electoral Support
June 18-20, 2019



## **OBJECTIVES**

- ✓ Situate the use of technology in African elections
- ✓ Examine Voter registration and voter ID in Africa
- ✓ Mirror Africa voter ID and election technology vs. the world.
- ✓ Identify challenges to election technology
- ✓ Explore available opportunities to strengthen voter ID and election technology.



# ELECTIONS ADMINISTRATION WITHOUT AUTHENTICITY AND ACCURACY







# USE OF ELECTION TECHNOLOGY AFRICA 2019

- 1. Voter Registration
- 2. Production of Voter Registration Cards
- 3. Voter verification and validation (E-Day)
- 4. Transmission of Results
- 5. Voter online verification
- 6. Voter education/information
- 7. Electoral constituency delimitation
- 8. EMB communication and finance
- 9. Presenting the election story
- 10. Monitoring threats and risks (Aggie, ERM Tool-IDEA)
- 11. Election campaigns voter reach out
- 12. Political party databases
- 13. Candidate registration





## GENERAL INCENTIVE OF BVR IN AFRICA

- 1. Restore and promote stakeholder trust and prevent potential disputes and violence
- 2. Attract regimes democratic legitimacy and funding

Break-even Reduction in Probability Violence, by Expected Cost of Post-Election Violence

		Break-even reduction in probability of post- election violence (percentage points)				
	1					
Country	Cost of	By the cost of post-election violence (as a share of GDP)				
	biometric	1%	5%	10%	105%	
	technology					
Benin	\$12,950,000	17.76	3.55	1.78	0.17	
Burkina Faso	\$23,000,000	21.44	4.29	2.14	0.20	
Cameroon	\$15,000,000	5.07	1.01	0.51	0.05	
Cote d'Ivoire	\$266,000,000	No break- even	21.38	10.69	1.02	
DRC	\$58,000,000	22.45	4.49	2.24	0.21	
Ghana	\$70,000,000	16.77	3.35	1.68	0.16	
Kenya	\$106,200,000	19.23	3.85	1.92	0.18	
Mali	\$14,300,000	13.07	2.61	1.31	0.12	
Nigeria	\$200,000,00021	3.52	0.70	0.35	0.03	
Tanzania	\$72,000,000	14.98	3.00	1.5	0.14	
Sierra Leone	\$18,600,000	52.69	10.54	5.27	0.50	
Zambia	\$14,700,000	6.20	1.24	0.62	0.06	

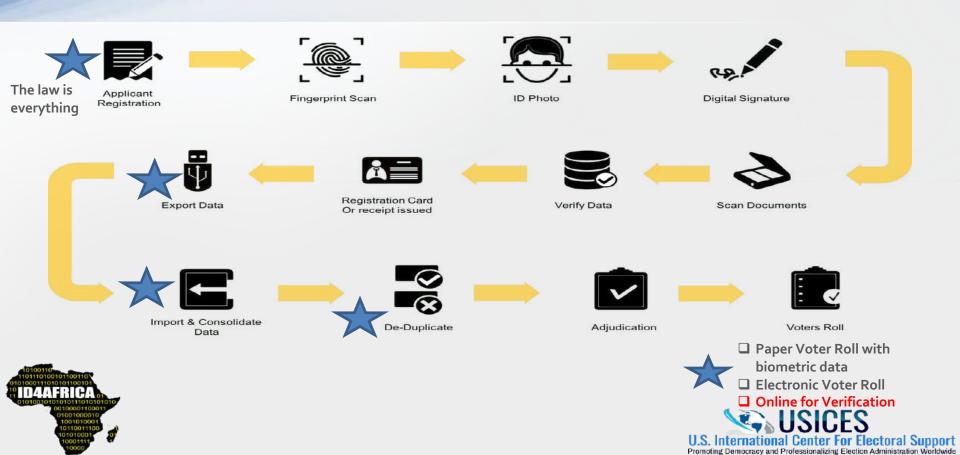
Alan Gelb and Anna Diofasi



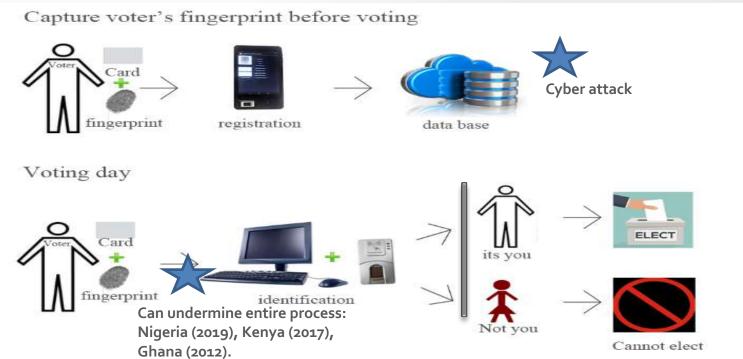




### **BIOMETRIC VOTER REGISTRATION**

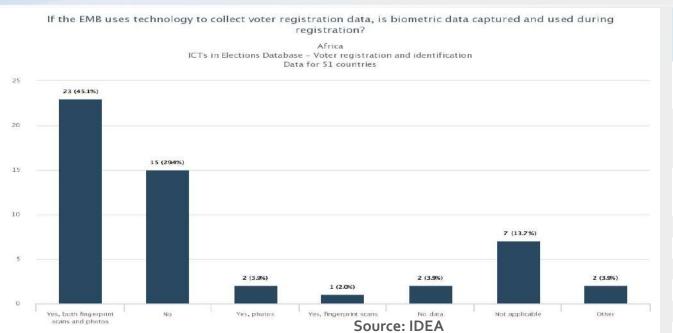


## VOTER EXPERIENCE AND E-DAY TECHNOLOGY





### 2019 BIOMETRIC VOTER REGISTRATION IN AFRICA



How is the national electoral register created?				
Value	Count			
Extracted from a population/civil registry Gabon, Egypt, SA., Benin	7 (14.0%)			
Created by the EMB using its own data collection and/or other sources of data	40 (80.0%)			
Some combination of both (see comments) Angola, Mali, Senegal	3 (6.0%)			
No data	0 (0.0%)			
Not specified	o (o.o%)			
Other	0 (0.0%)			
Total	50			
Missing data (Somalia)	1			
Grand total	51			

#### This data sets tells us the following:

- Africa trust EMBs to do voter registration as oppose to extracting voter information from population/civil registry
- Less than 50% of African EMBs use the combination of fingerprint, photo, & signature capture to produce voter cards
- More than 80% of African nations do not trust their civil registry for electoral purposes or lack the political will to modernize the population/civil registry or the national ID data systems

## E-DAY, VOTER VERIFICATION, TABULATION

Does the country provide individual online voter

Is the biometric data used in voter identification at polling stations?			
Value	Count		
Yes	22 (44.9%)		
No	25 (51.0%)		
No data	2 (4.1%)		
Not specified	0 (0.0%)		
Not applicable	o (o.o%)		
Other	o (o.o%)		
Total	49		

registration/polling assignment checks?				
Value	Count			
No	27 (55.1%)			
Yes, confirmation of registration using online interface	18 (36.7%)			
Yes, assigned polling station using online interface	12 (24.5%)			
Yes, confirmation of registration using mobile phone	9 (18.4%)			
Yes, assigned polling station using mobile phone	8 (16.3%)			
Total	49			

Are official election results
processed by an electronic
tabulation system?

Value	Count
Yes	25 (50.0%)
No	24 (48.0%)
No data	0 (0.0%)
Not specified	o (o.o%)
Other	1 (2.0%)
Total	50

If electoral register is created by the EMB, what type of technology is used for collecting registration data? 80% of EMBs collect data

Scanning technology for processing registration forms (Optical Mark Recognition or Optical Character Recognition (Botswana, Burkina Faso, Liberia, Namibia 8 (15.7%)

Digital voter registration kits/computers, off-line (Cameroon, Comoros, Cote d'Ivoire, Kenya, Ghana, Guinea, Malawi, Nigeria, Sierra Leone

18 (35.3%)



## **AFRICA VS THE WORLD**

#### How is the national electoral register created?

ICTs in Elections Database - Voter registration and identification

- Created by the EMB using its own data collection and/or other sources of data
- Extracted from a population/civil registry
- Some combination of both (see comments)
- Other
- No data



Source: IDEA



## **AFRICA VS THE WORLD**

Continent	Extracted from a population/civi I registry	Created by the EMB using its own data collection and/or other sources of data	Some combination of both (see comments)	No data	Not specified	Other	Countries researched
Africa	7 (14.0%)	40 (8o.o%)	3 (6.o%)	o (o.o%)	o (o.o%)	o (o.o%)	50
Americas	5 (20.0%)	17 (68.0%)	2 (8.0%)	1 (4.0%)	o (o.o%)	o (o.o%)	25
Asia	14 (32.6%)	18 (41.9%)	9 (20.9%)	o (o.o%)	o (o.o%)	2 (4.7%)	43
Europe	32 (72.7%)	5 (11.4%)	7 (15.9%)	o (o.o%)	o (o.o%)	o (o.o%)	44
Oceania	o (o.o%)	12 (92.3%)	1 (7.7%)	o (o.o%)	o (o.o%)	o (o.o%)	13
Total	58	92	22	1	o	2	175

Source: IDEA



## **AFRICA VS THE WORLD**

Election cycle	Africa	Europe	USA	
Pre-election period	BVR / manual voter registration	Population/civil registry	Online VR / MVA / SSA/ AVR/ Same-Day Registration	
Pre-election period	Online verification	Online verification	Online verification	
Election Day	Voter list/ biometric verification	Poll books/Paper	E-Day poll book	
Election Day	Voter card / strict ID laws	No voter cards/ strict ID law	No voter cards/Flexible ID laws	
Election Day	Paper ballots	Electronic and paper ballots	Electronic voting/paper trail	
Election Day/post election	Manual transmission /Electronic-days after	Electronic transmission of results / same day	Electronic transmission of results / same day	

## **CHALLENGES IN AFRICA**

### 1. Availability of Funding and consistency / Infrastructure

- Life cycle of technology is 1 to 3 elections
- Maintenance in between election
- Cyber security tasks
- Corruption in procurement
- Capacities

### 2. Transparency, testing, certification, and post election audit

- Feasibility on appropriateness
- Demonstration
- User interface and accountability

Security (use to be hardware, now its more about software)

Training Timing / Consensus





## RECOMMENDATIONS

- 1) Needs Assessment: Conduct a thorough assessment to make a decision about where in the election cycle to introduce technology and define your objectives
- 2) Research, Study and Consult with Key Stakeholders for Appropriateness: Visit other countries, learn, analyze, consult with experts, and explain to stakeholders on decision.
- 3) Plan for Time: Develop a timeframe for implementation, acceptable with key stakeholders and developing rationales for implementation. Ensure a transitional plan with minimum disruption.
- 4) Work with Executive and Legislature: Sell project to government. Understanding legislative calendar, use a legislative salesman, get hearings, draft legislation.
- 5) Work with International Election Assistance Agencies and Funding Partners:

  Solicit support from international partners.
- 6) Develop Request for Proposal (RFP) and Procure: The request for RFP is your first, last and best chance to get the technology and system right. The system is never better than the RFP. Its either you manage the vendor/service provider or they manage you.



## RECOMMENDATIONS

- **7) Define Roles and Responsibilities:** Know who does what and why. Without clearly defined roles and responsibilities problems will occur. Effective training can be very costly.
- 8) Ensure Testing and Certification: Know the "known unknowns" such security, accessibility, auditability, usability, convenience, transparency and testing requirements.
- 9) Conduct Post Election Audits: Conduct audits and report on its effectiveness to stakeholders
- **10) Involve the Academia:** Stakeholder perception in the work we do is at best assesses by the academia. Elections in the has been revolutionized because of research conducted by state universities in the U.S.
- **11) Collect and Preserve Data:** Election administration is data driven. Without data we cannot have good and sustained policy decisions or legislation.



## **TAKE AWAY**

- ❖ Voter ID generated through a biometric civil registry is cost effective for EMBs, enhance accuracy and provides for currency if actively and effectively maintained.
- Using voter ID card for multiple purposes increases its value, effectively increases turnout.
- ❖ Voter ID is useful when voter registration is made accessible to citizens.
- Learning and sharing experiences provides avenues for improvement.
- The rapid penetration and use of internet tell us that the future may be block chain voting with digital voter ID.
- Nothing can be achieved without the political will of the government.



## Thank you

**Henry Atem** 

**United States International Center for Electoral Support** 

Tel: +1 240 143 1433

Email: henry.atem@usices.org



