State Automated Information System - Elections

Technical Overview

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UNDP - Moldova
Motivation

for
Centralized e-Register of Voters
Out of Country or Displaced

- Estimate of 2.3 Million Voters
- 30% of Voters working outside of Moldova
- 15-25% break away region
- Disabled people voting from home
- Hospitals and Prisons
Multiple Voting

- Many paper lists causes a silo effect
  - Difficult to pick up multiple registrations
  - Difficult to spot discrepancies
  - Different formats
  - Different layouts

- Central Database
  - Easy to find Duplicates
  - One place for Voter updates
  - One place to see Voting Status
  - Live Results available to all

- Period after elections – correct cycle to start big IT developments
Many believe that the bad quality of the ROV were one of the main reasons for the unrest after April 2009 Parliamentary Elections.

Voter can proof:
- he is a citizen
- His domicile but is not on the local voters list
- this cause mistrust
- But he will be added to supplementary list

Supplementary Lists is a good indicator of the Quality of ROV.

Supplementary List of July 2009 Parliamentary Elections was overall roughly 10% of Voters.

The e-ROV reduced the Supplementary count at the Pilot from 4% (31) to 0.2% (2) Voters.
Electronic Register of Voters

Centralised Database
Web Based
CEC IT Team

- Smart
- Willingness
- Eager to make it work
- Proudly Moldovan
- Right Electoral Cycle for capacity building
## Alegeri

### Alegător

<table>
<thead>
<tr>
<th>Detalii</th>
<th>Valoare</th>
</tr>
</thead>
<tbody>
<tr>
<td>Numărul de alegători incluși în ștatele electorale</td>
<td>936</td>
</tr>
<tr>
<td>Numărul de alegători incluși în ștatele suplimentare</td>
<td>0</td>
</tr>
<tr>
<td>Numărul de alegători care au primit buletine de vot</td>
<td>90</td>
</tr>
</tbody>
</table>

### Detaile documentului

<table>
<thead>
<tr>
<th>Detalii</th>
<th>Valoare</th>
</tr>
</thead>
<tbody>
<tr>
<td>Numărul documentului</td>
<td>A34052311</td>
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<tr>
<td>IDNP</td>
<td>200203404758</td>
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### Adrese

- **Alegeri**: 16.11.2009 - Local
- **Circumscripție**: 032 - ȘTEFAN VODĂ - ȘTEFAN VOODA - Sİ
- **Sat**: 000 - ȘTEFĂNEȘTI -
- **Secție de votare**: 026 - ȘTEFĂNEȘTI -

### Buletin primit
Import process

- **ROP**
  - Web Service
  - Validate
  - Export Locality Codes
  - Export Citizens

- **Admin**
  - E-Token + PIN
  - Create Election
  - Import Locality Codes
  - Import Citizens

- **CEC Web**

- **E-Voter List**
Voter Search process

ROP
- Web Service
- Validate
- Export Locality Codes
- Export Citizens

CEC Web

Operator
- Search Document Nr

E-Voter List
What do the Voters think?

Voter Education
Vs.
Technology Problems
A total of 396 voters were interviewed, representing 26% of the total number of voters on the voter lists, and 50% of voters who actually voted.

<table>
<thead>
<tr>
<th>Sex</th>
<th>Male</th>
<th>44.2%</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Female</td>
<td>55.8%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Age:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>18-29</td>
<td>15.2%</td>
</tr>
<tr>
<td>30-45</td>
<td>28.5%</td>
</tr>
<tr>
<td>46-60</td>
<td>36.4%</td>
</tr>
<tr>
<td>60+</td>
<td>19.9%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Education:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>No education</td>
<td>4.0%</td>
</tr>
<tr>
<td>Incomplete secondary education</td>
<td>20.7%</td>
</tr>
<tr>
<td>Secondary school</td>
<td>24.5%</td>
</tr>
<tr>
<td>Vocational school</td>
<td>32.8%</td>
</tr>
<tr>
<td>High school</td>
<td>.8%</td>
</tr>
<tr>
<td>Higher education</td>
<td>16.6%</td>
</tr>
<tr>
<td>REFUSAL</td>
<td>.5%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ethnicity:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Moldovan</td>
<td>63.6%</td>
</tr>
<tr>
<td>Romanian</td>
<td>3.5%</td>
</tr>
<tr>
<td>Russian</td>
<td>26.0%</td>
</tr>
<tr>
<td>Ukrainian</td>
<td>5.1%</td>
</tr>
<tr>
<td>Gagauzian</td>
<td>1.0%</td>
</tr>
<tr>
<td>Bulgarian</td>
<td>.5%</td>
</tr>
<tr>
<td>Other</td>
<td>.3%</td>
</tr>
</tbody>
</table>

15 November 2009

Executor:

GALLUP INTERNATIONAL
Centrul de Investigații Sociologice și Marketing “CBS-AXA”
Are you satisfied with the procedure of testing the Electronic Register of Voters?

Yes: 85.9%

No: 5.1%

Don’t know: 9.1%
Do you think it is good to use electronic voters’ lists?

- Yes: 91.4%
- No: 4.0%
- Don’t know: 4.5%
Did you find easily the operator and computer in the polling station?

Yes: 93.9%

No: 4.5%

Don’t know: 1.5%
Was your name found in the electronic voter list?

- Yes: 93.4%
- No: 1.8%
- Don’t know: 4.8%
Do you think the electronic system of keeping records about voters will somehow affect your personal data?

- Yes: 18.2%
- Don't know: 19.7%
- No: 62.1%
- Don't know, 97.2%

Interventions can be made to the Register without the voter's presence, 2.8%
Where was your name found easier, in the computer or on paper?

- In the computer, 58.3%
- On paper, 31.6%
- Don’t know, 10.1%
Do you think the electronic verification of voters’ lists will make the voting procedure more difficult?

- Don’t know, 12.6%
- Yes, 8.6%
- No, 78.8%

**HOW?**

- Don’t know 70.6%
- The registration on paper is faster, more efficient 11.8%
- The electronic registration procedure is too slow 8.8%
- The voter cannot follow the registration procedure in the computer 5.9%
- The procedure is too complicated 2.9%
Lessons Learned

Expected New Solutions
Lessons Learned

- Too many lists to be synchronized
- IDNP to be used
- Voter Education
- Operator Training
- Number of Computers
- Windows Updates
- Internet Connection
- Connection Speed
Legal Implications

Law in the Digital Age
Electoral Law or Electoral Code Changes

- Communication with Register of Population
- Digital Results Tabulation
- EMB Members and Observer Accreditation
- Supplementary Lists
- Mobile Votes
- Local Elections
- Display of Voters Lists
- Approval Procedures
Future Possibilities

Extension to i-Voting
Thank you

Questions?