

# Election Observation of New Voting Technologies

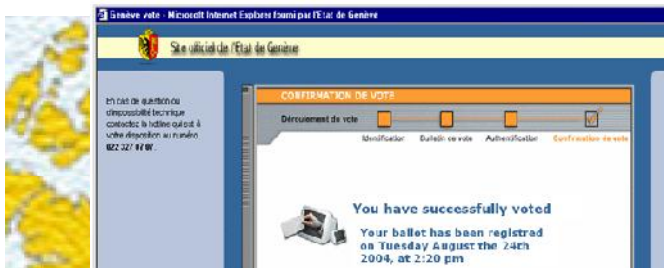


# Seven Key Principles for Observation and Assessment of NVT

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- Secrecy of the Vote
- Integrity of Results
- Equality of the Vote
- Enfranchisement
- Transparency
- Accountability
- Public Confidence

# Election Activities with NVT 2011/12



**Estonia EAM**

**Norway EET**

**Russia EOM's**

**Switzerland EAM**

## Overall Experience

- Time Schedule quite challenging – NVT starts earlier and finishes later than normal time frames
- Deployed one or more NVT analysts to join the Core Team
- NVT analysts come from academia, EMBs
- Integrated approach to analyse NVT and to compare it to the existing (paper observation) experience
- More recommendations: some 53





## Legislation

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- Further detail the procedures in the law – set-up, start, stop, counting, data destruction - needs to cover all the steps of the whole electoral process
- Important – show to the voter how his/her data is processed, and destroyed after not needed anymore - needs to give guidance to voters, candidates and administration how the system is operated and how it processes data
- Formalize clear regulations for invalid ballots

## Oversight & Management

- Formalize a body to oversee internet voting
- Technical capacity for election management body
- Formalized separation of duties
- Develop a disaster recovery plan



## Secrecy and Integrity

- Use of paper based voter credentials or smart cards
- Quality of printing process, including the potential misuse of data, is of concern
- (Formalized) Separation of Duty
- Management of Secret Keys
- Review and Improvement of Encryption Model
- For NVT Systems Involving paper to Record the Votes  
Random Hand-recount of Meaningful Number of  
Polling Stations Ballot Boxes



# Voting Process

- Develop time plan / election calendar
- Determine deadlines
- Co-operate and co-laborate with important stakeholders to protect the process against dDoS attacks
- Consider to offer end-to-end verifiability to voters & public
- Offer voter interface in multiple languages







## Testing, Evaluation, Certification and Auditing

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- Conduct end-to-end tests in real world environments to identify problems especially with interfaces
- Use final software
- Compile command-level document including publish it, as basis for audits
- Elaborate detailed specifications for evaluation and with it certification of NVT
- Delegate audit, evaluation and certification to independent competent national bodies
- Publish audit, evaluation and certification reports



# Training

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- IT literacy needed by
  - Election Management Bodies to operate  
=> internal training
  - Voters to use the system to cast votes  
=> Voter education programs
  - Observers, Political Parties, Interested Public



## Summary

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- While they are **new** they still have to **fulfill** the **existing commitments** and standards
- NVT Observation takes considerable longer
- NVT Observation Methodology has emerged and will soon be formalized → Handbook of NVT Election Observation



## Contact

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