European Commission United Nations Development Programme International IDEA

Joint Training on Effective Electoral Assistance

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Electronic Voting Systems

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Joint Training on Effective Electoral Assistance Day 3 **Introduction to Electronic Voting**

Two main categories of e-voting

E-voting in controlled environments (EVM or DRE voting)

E-voting in uncontrolled environments (internet voting, PDA or mobile telephone voting)

E-voting in uncontrolled environments

- Internet voting is being piloted in more than 30 established democracies
- Estonia, October 2005, first country-wide elections with the possibility to vote through internet
- □ Tests on Internet voting have not given yet a definite answer on how to ensure the secrecy of the vote and eliminate the potential coercion exerted on remote voters
- □ Internet voting will soon be available for countries which enjoy a deep trust in their respective EMB and have a relatively conflict-free society, where the secrecy issue has a more limited weight than in other younger democracies, where the trust in the institutions and in the EMB might not be a given.

E-voting in controlled environments

- More than half billion voters in the world already use this form or voting in two of the most populous world democracies (India and Brazil)
- Does not present the same range of advantages normally attributed to uncontrolled internet e-voting (better turnout, enable voters' mobility, facilitate disadvantaged categories)
- □ It does not endanger the fundamental requisite of the secrecy of the vote
- It does offer some important answers on the issue of transparency through a development of various forms of auditing mechanisms. Possibility to introduce Voter Verified Audit Trails (VVATs)
- Increase in requests by EU partner countries









The Venezuelan voting machines

- Touch Screen to support multiple electoral races
- Printer Attached to produce VVAT
- Two memories available







The Venezuela Paradox

- □ The extreme sophistication and high reliability of the voting system does not make up for the lack of trust in the EMB among several stakeholders
- The huge investment in technology has not been yet matched by a similar effort in capacity building and voter information
- □ The higher the distrust in the EMB, the higher the need for transparency and security measures



Main consideration in favour of e-voting

- Longer-term cost reduction
- □ Speed and accuracy of the results
- Potential turn-out increase
- □ Fraud prevention



Main consideration against e-voting

- Lack of transparency
- Increased training and voter information needs
- Vendor "dictatorship"
- Increased potential for central manipulation

Issues for Discussion

- ☐ There is an inverse relationship between the degree of sophistication and security measures applied to EVM and degree of trust enjoyed by the EMB
- The key role played by independent auditing procedures
- What role observation can play in electoral processes using e-voting in controlled environment?
- E-voting in controlled environment with touchscreen machines producing VVAT appears to be the most reliable and transparent way forward for e-voting in developing countries. It will not be the cheapest option.