

Iceland Online Voting + Residents Referendums

Voter process

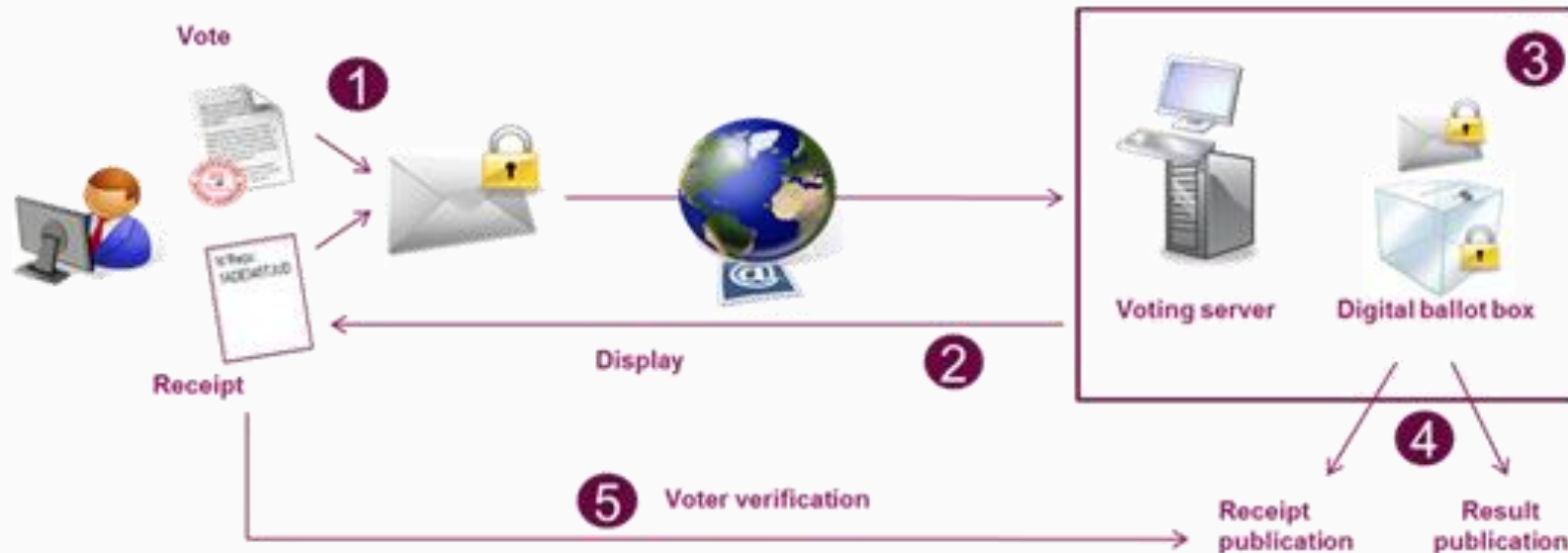
- With the use of a web browser, voters connect via a secure channel to the referendum web pages.
- The voters unique national identification number (Kennitala) is validated via an SAML protocol through the National Registry.
- Once fully identified, the voter accesses personalized multi-lingual ballot options and proceed to vote with under/over voting notifications during the process.
- After the vote is cast, the voter receives a specific “counted-as-cast receipt notifying him/her that the ballot was recorded in the system.

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Election Committee process

- After the election is closed, the digital ballot box is sealed.
- The ballot box contents are decrypted via a mixing service that validates the integrity of the ballot box and each individual ballot.
- The content is then shuffled to remove any correlation between voters and votes while decrypting its contents.
- In order to decrypt votes, it is necessary to obtain the participation of the Election Committee

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- 1** Ballot is encrypted using asymmetric cryptography
- 2** The voter is provided with a counted as cast voting receipt
- 3** The ballot is secure stored in the tamper proof digital ballot box
- 4** The ballots are decrypted by the Electoral Board using a Mixing process
- 5** Voters can verify that their vote was counted