Electronic Voting

Agora Voting

You can find out more at
agoravoting.com

Or find it on GitHub at
github.com/agoravoting

AGORA VOTING

A secure open-source online voting software that protects the privacy of the vote and makes elections end-to-end verifiable.

WHAT DOES IT DO?

The tool allows organisations to carry out secure, flexible and transparent elections online. Votes are encrypted by the voter's web browser and are kept private from even the election administrators. It has been used in multiple elections in Spain, including by political parties such as Podemos to do internal binding elections.

FEATURES:

- **Voter authentication and authorisation:** multiple options for checking the authenticity of voters, e.g. via codes delivered by post, ID card recognition, one-time SMS/email password codes.

- **Secure private voting:** ballots are encrypted in the web browser.

- **Verifiable and transparent results:** a fully verifiable counting process that opens the ballot boxes and tallies the results, preserving the secrecy of the vote.

- **Multi-device:** users can vote from laptop, tablet or mobile device.

TECHNICAL SPECS

- Scalable to hundreds of thousands of votes.

- Easy-to-use voting and administrative web-based interfaces.

- Modular software design; easy to integrate with other tools, such as external authentication methods.

- ElGamal homomorphic encryption scheme.

- Schnorr proof of plaintext knowledge [11] to make the scheme CCA2-secure.

- The cast-or-audit mechanism implemented at the voting booth is exercised by enough voters to render altering ballots on a large scale very unlikely.