

State & Federal Elections with Blockchain

Proposal on how to use Blockchain for voting in state and federal elections

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Why use blockchain for elections:

- ✦ Increase security of voting machines / Reduce vulnerabilities
- ✦ Improve perception of election security
- ✦ National strategy to reduce pressure on local agencies (examples: Challenges to PA Electorates, Threats to GA Secretary of State, etc.)
- ✦ Improve access to voting with online voting capability
- ✦ Faster election results
- ✦ Transparent verification (the voter, third parties verification systems, and election officials)

How it will be successful:

- ✦ Employing multiple blockchain methods will make the entire system more secure
- ✦ Employing multiple blockchain methods will avoid a monopolization of the market and create more business opportunities
- ✦ Blockchain can provide incentives for validation of the system
- ✦ Consistency across jurisdictions, cities, counties, and states
- ✦ Reduce political influence in process and implementation
- ✦ Voters could cast ballots at any location; which improves access/convenience and can reduce wait times on election day
- ✦ Failures in one part of the system could be identified quickly and fixed

What are the risks?

- Verification and ballot submission procedures for in-person voting may rely on an internet connection that may not be available or could be interrupted

Phases

Election Blockchain Project

Phasing Plan



1 Phase 1: In Person Voting



2 In-person voting + Mail-in Voting



3 In-person voting + Mail-in Voting + Online Voting