

Public Election Administration Technology INNOVATIONS UPDATE

Q-4 2022 Summary of TrustTheVote® Projects You Can Support

This Executive Briefing is to bring our crypto-community supporters and TrustTheVote Project members up-to-date on the latest initiatives made possible by your tax-deductible financial support this year. We are well on our way to making our \$500K milestone by the end of the year toward this specific work, so let's entice those considering support with the very latest.

Immediately Actionable Digital Ledgering Projects

Work with AWS and the Hyperledger Project

While everyone presses for smartphone voting on a Blockchain-class ledger, the regulatory framework still requires evolution and there remain security challenges. So, in the meantime, we're working on three initiatives to help election officials realize the power and value of ledgering technology.

The OSET Institute Office of the CTO continues to collaborate with [AWS](#) on their [Managed Blockchain](#) project, including a new initiative to deploy Ethereum on Amazon Managed Blockchain for purposes of helping election officials implement the initiatives outlined below.

What: Two projects specifically designed to better "securify" voter registration rolls and one project to enable voters to independently verify that their ballots were counted as cast.

Benefit: With these three initiatives deployed, voters will be able to better and more rapidly manage changes to their voter registrations (*authorized or unauthorized*) and they will be able to (re)build their own belief and trust in elections and their outcomes. All of this is about putting more control into the hands of the voter and using immutable ledgering technology to make that possible.

Impact: With more control over their participation and outcomes, we believe more voters will be comfortable participating, and be satisfied that their participation counts as it should. That could translate into greater turnout in 2024, provided we can deploy pilots of these services in the second half of 2023. Longer term, these worked-examples of Blockchain-class technology in election administration will evolve the innovation mindset and empower more advancements of this nature.

What's required is the balance of directed funding to make these innovations possible, and we're on our way to raising that balance for these three projects. To be sure, if ranked-choice voting or risk-limiting audits (*both also poised for Blockchain-class innovations*) are more your thing, we should connect on two other projects we're working on with the Ranked-Choice Voting Resource Center ("[RCTab](#)") and U.C. Berkeley ("[Guthrie](#)"). However, for this update, we focus on three projects in particular since so many in the crypto-community have inquired (*and made significant grants and gifts already, thank you!*)

Vanadium™

This is the ground-breaking ledgering system that wraps and “securifies” existing state voter registration database systems with Blockchain-class technology to eliminate the risks of external cyberattacks. Vanadium could one day redefine voter registration systems, making them more reliable, as well as providing a tripwire to detect efforts to compromise the data.

and the Hyperledger Project to bring this to life. Now, we need to finish production work on the administrator’s console; build deployment mechanisms in AWS and Google Cloud; complete NIST SP 800-53 security protocols and StateRamp compliance, conduct a security review with DHS/CISA, and then manage pilot deployments. This project needs ~\$150K to finish, and it’s a great opportunity to showcase Blockchain technology. Every tax-deductible gift helps!

VoteReady™

The TrustTheVote Project has already rolled out VoteReady as a back-end service for monitoring changes to voter-rolls, and soon the App will be available for voter’s mobile devices (iOS and Android). VoteReady is like “LifeLock®” for your voter registration. The moment a change occurs or is about to happen to your registration record or status, your mobile device gets an alert.

Your support of this project can help ensure we get this into voter’s hands in 2023—which will set-up voter registration drives in 2024 to address the inevitable “activities” (*some wanted; some very unwanted*) that registrants will be subjected to during the presidential election cycle. Once the App is finished, we can begin pilot deployments with several interested states and voter registration organizations like our technology adopter partners [RockTheVote](#) & [VotoLatino](#). This project needs about \$125K to finish. Every tax-deductible gift moves this closer to reality!

VoteTracker+™

This is an exciting and somewhat exotic breakthrough that is at an early stage of proofing, but we think this could be huge. Imagine the ability to verify that your ballot has been counted as cast, once you’ve finished casting that ballot? Well, at a very high-level, that’s it!

The researchers working on this out of our Boston/MIT OSET Institute community are pretty clever. There is a bunch of cryptography, and other tech to make it work, and the engineers are using the popular software administration service, GitHub as a unique testbed. This is a potential breakthrough cast-ballot verifier to increase confidence in elections and their outcomes, and worth supporting. To produce a viable pilot and convince an elections jurisdiction to give it a try in an off-year, lower-stakes election in 2023, requires \$225K. Every gift helps!

Thank you, the crypto-community, for taking an interest in the only 501(c)(3) nonprofit open-source election administration software foundry in the world. And we especially appreciate those who already chose us as a year-end beneficiary of your philanthropic giving.

If you would like to support us via crypto-currency gift, please visit our support page on the [Endaoment](#) crypto-community philanthropy site (<https://app.endaoment.org/orgs/20-8743186>)