### Challenges

- Electorate is the ElectOS™ subsystem for voter records management. Electorate Vanadium Ledger is the underlying data storage for the warehouse, implementing the distributed digital ledger.
- Electorate Vanadium Core presents a Web services API for clients to access the data warehouse. Electorate Vanadium Ledger is the underlying data storage for the warehouse, implementing the actual distributed digital ledger.
- Challenge was to use ledging technology to vastly improve voter roll integrity without requiring extensive technical effort.
- Challenge was to easily and quickly develop an open source voter registration ledger which improves election administration system integrity, security and verifiability.

### Solution

- AWS ProServe introduced Amazon Managed Blockchain as a fully-managed solution running Hyperledger Fabric, and deployed using Cloud Development Kit (CDK).
- This solution wraps the ledger as a single point of access control decisions about which software has the privilege to access the ledger.
- Currently, the design supports the Electorate Vanadium Core as the sole component with that access.
- The solution provides a rapid means to deploy Vanadium technology on AWS Managed Blockchain to provide a security prophylactic for central voter registration systems without requiring any modifications to existing systems.

### Results

- Automated deployment of Electorate Vanadium Ledger on Amazon Managed Blockchain.
- Successful storage and retrieval of voter registration transactions with immutability and auditability guarantees.
- Ensures verifiable, accurate, secure and transparent operations.
- Simplifies administration of election information.
- Dramatically improves election data security.
- Enhances trust in the voting process.

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**Customer Profile:**

OSET Institute, established in 2007 is nonpartisan, nonprofit on a mission to increase confidence in elections and their outcomes in order to preserve the operational continuity of democracy — ultimately worldwide.

The TrustTheVote® Project is the flagship fiscally-sponsored membership-based effort and a first-ever of its kind digital public works project. The goal is to develop publicly owned election software technology (the “People’s Voting System”) for any jurisdiction to adopt, adapt and deploy.

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**Working with AWS Professional Services has been the most productive, results-oriented, and delightful experience in our organization’s 16-year history. The AWS Professional Services team is agile, responsive, and a genuine partner delivering tremendous value.**

- Gregory Miller, Co-founder & Chief Operating Officer