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# The Benefits of Blockchain Technology to State Government

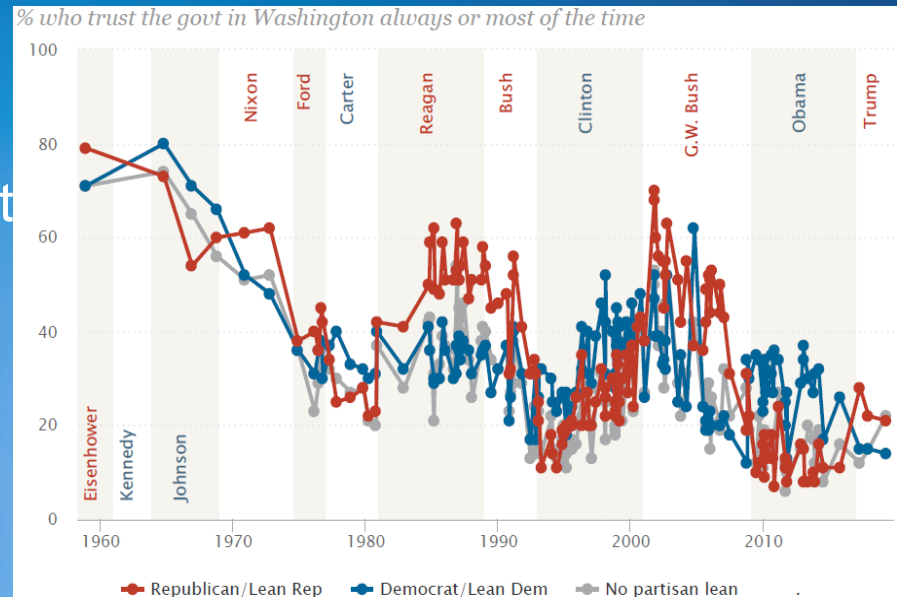
**Presented by**

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# Blockchain Building Trust for Voters

- An NPR/Marist poll in 2018 found that 47 percent of respondents believed it was either likely or very likely that not all votes would be counted in the 2018 U.S. midterm elections.
- Overseas or traveling voters often face a burdensome process to safely and securely cast their ballots.
- A lack of faith and access systems creates a problem to our democratic systems.



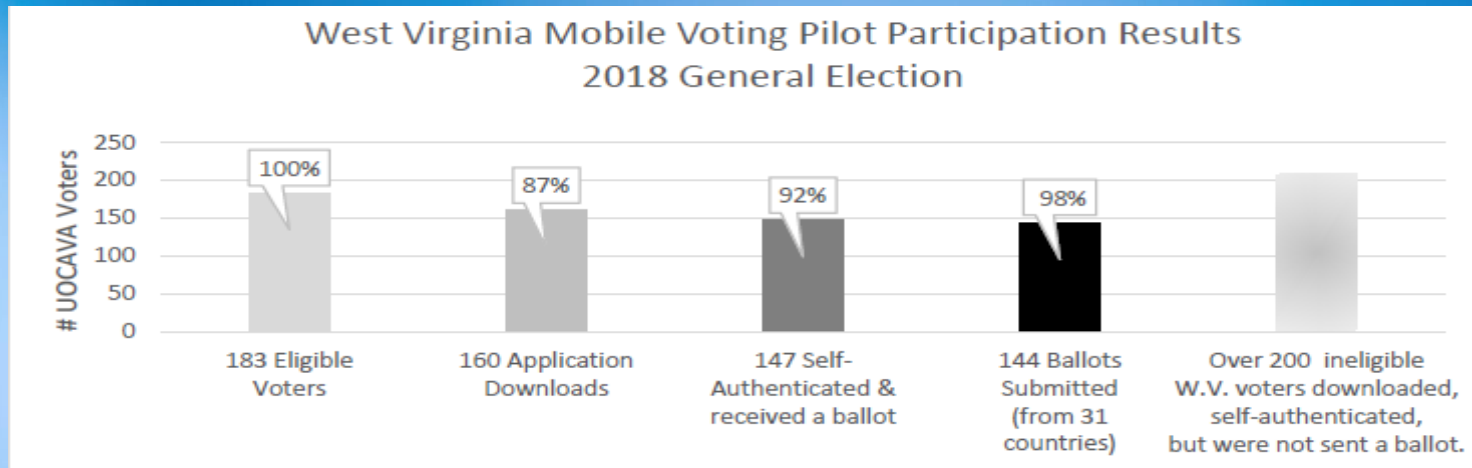
Source: Pew Research Center, April 11, 2019

# West Virginia's Mobile Voting Application on Blockchain

- In 2018 West Virginia collaborated with Voatz, a blockchain-enabled mobile voting application, to introduce mobile voting as an option for voters to cast ballots.
- The mobile voting relies on blockchain technology to ensure the votes have not been tampered with after an individual has cast their vote.
- After a voter submits their electronic vote on the app, the vote is immediately submitted to a blockchain platform.
- Election officials open and retrieve the votes from the blockchain on election night. Prior to entering the platform, the ballots are anonymized.

# Results of the WV Blockchain Pilot

- The Office of the Secretary of State ran several audits on different components of the app prior to implementing the pilot program discovered no problems or errors.
- The app was tested in the November 2018 primary election, in which ~144 people used it to vote. After the votes, the Office of the Secretary of State performed a full audit of all mobile votes. The Secretary of State deemed the technology “widely successful” in the days following the election.



# Blockchain for Land/Auto Titling

- The process of land and auto titling can be cumbersome and nontransparent.
- Digitizing titles can streamline transactions.
- Titling now relies on paper copies which can be lost and easily falsified.
- If titles are placed on an immutable public ledger (blockchain), it will be easier for parties to authenticate documents and complete transactions.
- CTA member companies such as Ownum are already working to implement digital car titles which are stored on the blockchain.

# Use Case: Republic of Georgia

- In 2016 the Republic of Georgia partnered with The BitFury Group to create a non-corruptible land titling system.
- They created a private and permissioned blockchain system that would be integrated into the Public Registry's digital record systems.
- The system features a built-in digital timestamping service that protects citizens' confidential information and is used by the governing body to quickly validate a citizen's vital information and evaluate ownership of property
- Since implementing its blockchain-based land registry, Georgia has been consistently ranked by the World Bank as one of the five easiest countries in the world to register property.



# Safeguarding Citizen Information

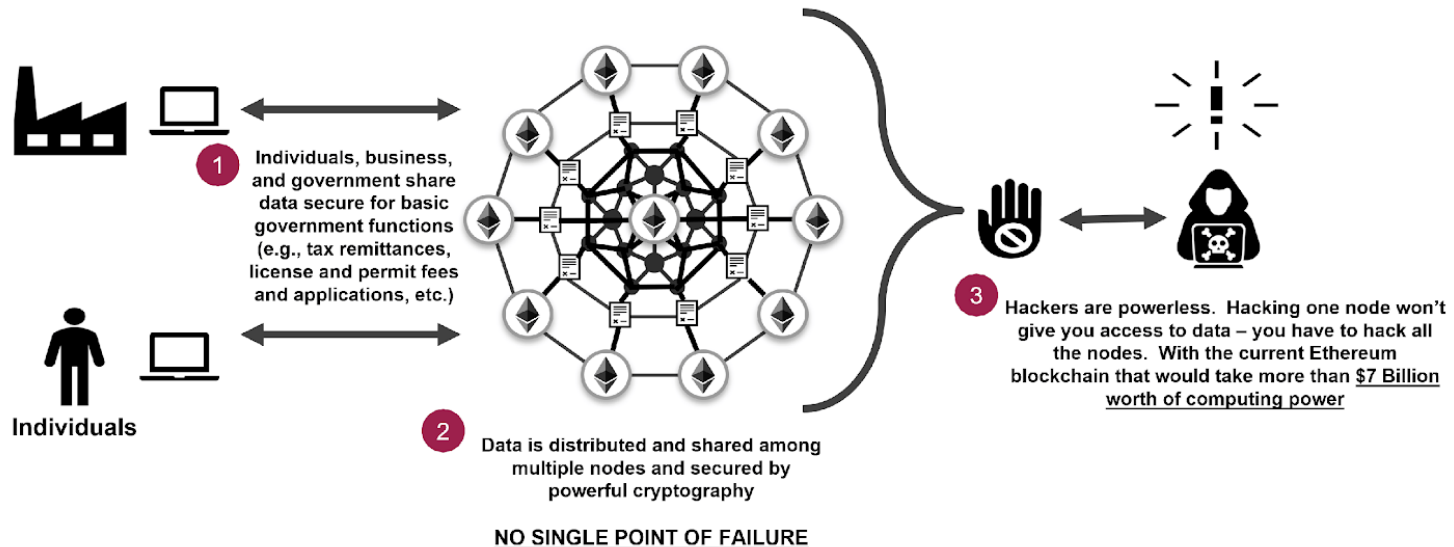
## Understanding Blockchain in Government

### Why Blockchain Works for Government: Decentralized Solutions

By decentralizing data, blockchain protects citizen and sensitive government data

#### The Paradox of Blockchain

*By giving up total control and centralizing data management, the overall system becomes more secure and less subject to hacking and data thefts*



Source: ConsenSys

# Thanks.

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