WILLIAMSON COUNTY VOTERS FOR ELECTION INTEGRITY

Ensuring Election Integrity for Tennessee Voters

September 1, 2021

WILLIAMSON COUNTY VOTERS FOR ELECTION INTEGRITY

OUR PURPOSE TODAY

- Who we are.
- The problems: A quick summary of election integrity research findings.
- The solution -- A model: A safer, more secure, comprehensive voting model that bolsters integrity in Tennessee elections.
- Highlight best practices to replace issues we've uncovered.

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WHAT WE'VE DONE

- Reviewed reports about machines, ballots, voting processes, nullification of legislators and voting laws, court cases, Big Tech/media censorship.
- Evaluated affidavits, data presentations, documentaries, Dominion user manuals.
- Interviewed poll workers.
- Attended open meetings.
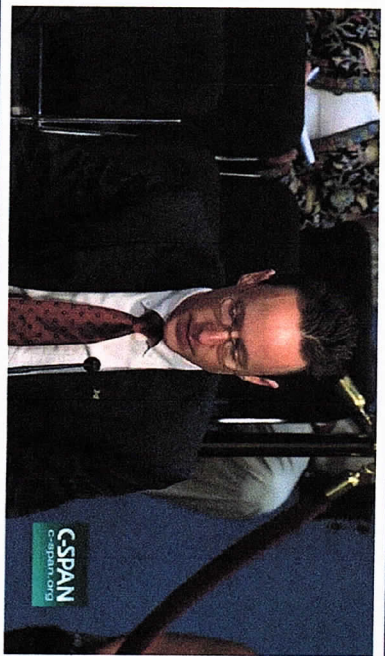- Presented our findings to legislators, government officials and the public.

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OUR CONCLUSIONS

- Issues in our 2020 election -- suspect state-wide similarities:
  - Increased security risks caused by voting system machines vulnerabilities:
  - Overconfidence in a weak, limited audit process: 1 of 3 functions;
  - Dependency on a software vendor; did we outsource the election?
- Can't audit 70% of Tennessee counties due to no paper ballots.
- System security standards older than first smart phone and being ignored.
- Confidence in voting has been severely damaged -- Nearly 6 in 10 Americans (59%) believe permanent harm has been done to the US as a result of the 2020 election process (June 2021 Democracy Fund Voter Survey).
- Tennesseans now don't trust our elections process; open meetings.
- We believe Tennessee elections are at risk.

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ISSUE ONE:

ELECTRONIC VOTING MACHINES CAN BE HACKED.
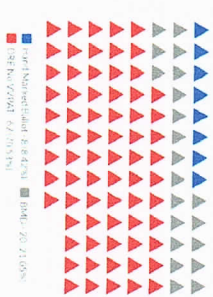

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ISSUE TWO:

MAJORITY OF TENNESSEE VOTING IS DONE ON DRE'S WITHOUT PAPER BALLOTS FOR ANY VERIFICATION OF THE VOTERS' CHOICES.

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TENNESSEE COUNTY IMPACT

COUNTIES WITH DAY-OF PAPER BALLOTS
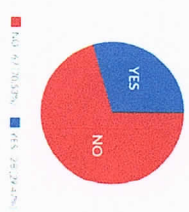
COUNTIES BY SYSTEM TYPE

Slide 1

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SO, WHAT IF WE DEVELOPED A BEST PRACTICE,
COMPREHENSIVE, WORKING VOTING MODEL TO FIX THESE
AND OTHER ISSUES....?

......IT WOULD LOOK LIKE THIS

Slide 2

Comprehensive Voting Model Recommendations

01
Enhanced Voter
Roll Integrity
Process

02
More Secure Voter
Check-in at Precinct
and Absentee Levels

03
Secure
Voter-marked
Paper Ballots

04
Optical Scanners
for Self
Adjudication and
Tabulation

05
Mandatory
Post-election
Enhanced Risk
Limiting Audit

06
Complete
Operational Audit
to Validate Election
Integrity Measures

07 Review Key Performance Indicators for Post-Model Confirmation

Slide 3

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### (1) BE MORE AGGRESSIVE WITH VOTER ROLL INTEGRITY

- Increased citizen moves in/out of state.... integrity efforts should be aggressive.
- Change list maintenance program to at least annual: Continue: US Postal Service National Change of Address (NCOA) System; Department of Safety address records; and Williamson County obituaries. BUT do deeper dive on the rolls:
  - Develop minimum voter registration software standards and check for functionality;
  - Data logic checks;
  - Fraud detection and pattern analysis
  - Retain all refinement changes for two years.

Slide 4

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(1) BE MORE AGGRESSIVE WITH VOTER ROLL INTEGRITY

- Add innovative resources beyond the basics for monthly checks:
  - E-Verify: 8 USC§1373(c): Fed gov MUST respond to state/local officials' request to determine immigration status of individuals;
  - U.S. Immigration Services SAVE;
  - Social Security's Master Death File;
  - County tax records; residence vs. commercial address,
 - Tennessee Bureau of Investigation (TBI).

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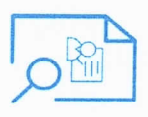
(2) SECURE THE VOTER REGISTRATION PRECINCT PROCESS

- Return to precinct-based voting vs. Voting Centers for both Election Day and Early Voting.
- Keep registration software, but go offline for early voting, day-of-election.
- Eliminate the need for an internet connection for day-of-vote registration:
  - Which prevents hacking and real-time monitoring of all voting;
  - Thus, preventing cheaters from knowing how many voters are left in precinct that can vote during and after Early Voting; so
- You can halt nefarious attempts to insert enough Election Day votes via the technology to change election outcomes.

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(3) HIGH SECURITY VOTER-/HAND-MARKED PAPER BALLOTS

- Same security standards used by U.S. Treasury to prevent counterfeiting.
  - Randomized ID, watermark UV light-reactive throughout full paper.
  - Embedded ballot holograms of translucent mylar.
  - Microprinting of words, images in the hologram.
  - Ballot ID helps with Enhanced Risk Limiting Audit.
  - Ensure vote counted as the voter cast it.

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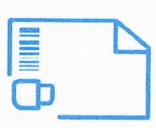
(4) ...COUNTED BY OPTICAL SCANNERS

- Quickly counts all paper precinct/absentee ballots and tallies results.
- Scanner software/hardware will have been checked via Security Risk Evaluation
  - Separate process independent of the vendor.
- Only one optical scanner & one backup needed per precinct.
- Current Dominion optical scanners allow self-adjudication.
- All precinct tallies must be verified to County totals and, then, to State certification totals.

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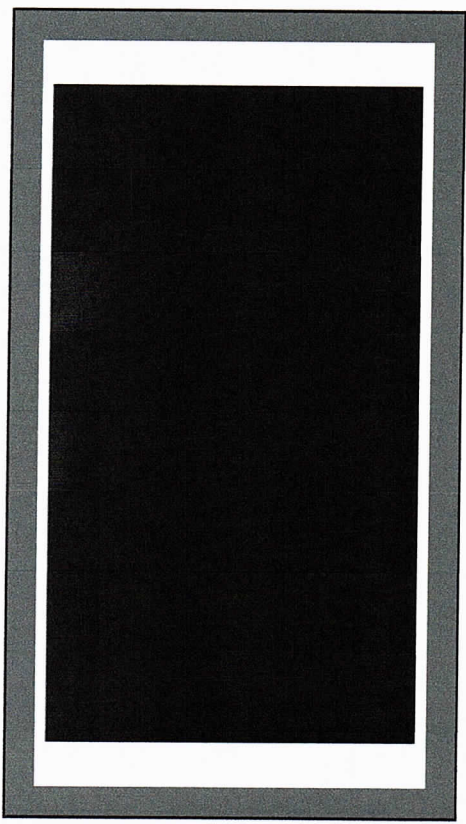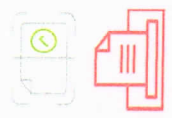
(5) WITH A MANDATORY, POST-ELECTION ENHANCED RISK LIMITING AUDIT OF PAPER BALLOTS TO SUBSTANTIATE THE MACHINE COUNT.

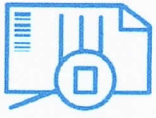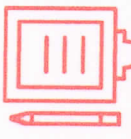- Helps verify – with minimal cost – that the winner won.
- Statistical, random sample, hand-counted, end-2-end, ERLA.
- 99% confidence with 1% hand-counted ballots in a 2% margin race.
- If numbers of ballots don't match, implement hand recount of ballots.
- Higher confidence audit vs. partial (BMD tabulator or recount) audit.
- The randomized number on ballot helps access ballots in audit sample.
- Checks tallies from registration, precincts and county-to-state results.
- Update TCA 2-20-103 to achieve this extra security; in process.

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IMPLEMENT KEY PERFORMANCE INDICATORS (KPI'S) TO TRACK SUCCESS OF THE PILOT PROGRAM.

- Precinct Voter flow.
- Adjudication percentage.
- Ease of adjudication.
- Success of Enhanced Risk Limiting Audit.
- Any validated fraud opportunity found in the model's implementation.
- Customer intercept survey.

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(6) …AND AN OPERATIONAL AUDIT OF EFFECTIVENESS/ EFFICIENCY OF ACTIVITIES TO ENSURE ELECTION INTEGRITY AMONG ELECTION COMMISSION OPERATIONS STATEWIDE.

- Evaluates the effectiveness/durability of election integrity procedures, systems and training @ county level to include, but not limited to:
  - Voter identification, registration and maintenance; chain of ballot custody; voter-to-voter ballot controls, transparency and oversight; mandatory audits; election & scanner certification; compliance with state and federal laws and operational security.
- State Election Coordinator selects 20% of Tennessee counties annually for this audit; cycling through all counties in a 5-year period. Independent auditor audits
- This audit + ERLA cover all county recommendations from NASS Task Force on Vote Verification: Post-election Audit Recommendations

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IF WE AREN'T ABLE TO GET ALL OF THESE COMPONENTS… THEN THERE'S A LOT OF ISSUES TO ADDRESS.

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SECURITY RISK EVALUATION – VERSUS RECERTIFICATION -- OF VOTING & REGISTRATION MACHINERY

- TEC subcommittee has committed to recertify all 5 brands.
- Recommend: Security Risk Evaluation of all brands vs. recertification.
- None of five voting machine brands are certified beyond the 2005 VVSG 1.0 standards. (2015)(2021)   Create Minimum Voting System Requirements?
- Evaluate voting equipment and registration equipment.
- Establish bi-partisan independent citizen committee to identify, fix, replace
- Include credentialed data/internal/process control experts and IT/ cybersecurity experts. But NO vendors.

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MACHINE CERTIFICATION PROCESS EXCEPTIONALLY WEAK

- The Dominion Result Tally and Reporting (RTR) system (per manual):
  - Allows for mass vote changing by deleting results previously entered from secure removable media and replacing them with data from a local file… with no dual-party authentication required;
  - Reports can be published to "Public" transfer points inferring that there is at least an indirect connection to the internet.
- Remote clients can communicate with the server through Dominion… again inferring a network connection.

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MACHINE CERTIFICATION PROCESS EXCEPTIONALLY WEAK

- Election Assistance Commission (EAC) oversees vendor election integrity efforts.
- With no public debate, EAC recently, secretly, approved guideline changes requested by machine manufacturers that reduce manufacturers' cost and substantially weakens the security of voting systems, such as:
  - Allow wireless networking devices in machines.
- Jessica Bowers (Dominion/TEC/WillCo) oversees certifications for EAC.
- Vendors do their own cyber reviews; then Voting System Testing Lab (VSTL) checks against the 2005 standards.
- Only 2 VSTLs accredited to do certifications; ProV&V: unsecure website.

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VOTER ROLL DATA INTEGRITY IS CONCERNING

- Bad data implies potential database integrity issue: garbage in=garbage out.
- Counts don't match: Reconciliation between SoS stats & WillCo voter history shows a potential 269 more ballots cast than reported in WillCo.
- Individual voter registration ID numbers appear to be assigned sequentially with evidence of reuse/reassignment over time.
- One voter registered in 2021 has a general election vote history in 2020.
- Estimated 100-101% voter registration of 18+ population on 11/3/20.
- One team member found five extra voters between two addresses.
- WCEC Voter Maintenance needs to be active, not passive.

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VOTING CENTERS ARE AN OPENING FOR FRAUD

- Early Voting locations and Voting Centers require poll books connected to the internet with VPN to prevent duplicate, multiple check-ins by the same voter.
- Tech allows malicious actors the ability to monitor voting activity real-time (number voted, number left to vote, specific voters who have voted, etc.)
- Lose control of precinct-level data and ability to more quickly identify fraud.
- VPNs, other tech can be hacked: (T-Mobile, Marriott, Colonial Pipeline, Yahoo, Facebook, Twitter…) Why take a chance?

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WITHOUT SECURITY, FAKE BALLOTS CAN BE INSERTED

- Allegations of pristine absentee ballots into the count in several states.
- Supported by numerous affidavits.
- Halderman affirms that ballot security must be improved.
- Cannot depend on vendor-supplied ballots.

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BALLOT MARKING DEVICES HAVE ISSUES – EXAMPLES:

- BMDs can be hacked, misconfigured or contain malware.
- BMDs actually create longer voting lines and cost twice paper ballots.
- BMDs rely on voters detecting ballot error, yet only 5-7% voters find and report errors.
- BMDs can show one thing on the screen but print something different.
- Voters understand BMDs aren't trustworthy; don't want the technology.

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WEAK AUDITS YIELD FALSE ELECTION CONFIDENCE… AUDITS ARE THE ONLY WAY TO TRULY CHECK ELECTION RESULTS

- 70% of counties are not even audited.
- Of those audited, only 1 of 3 process functions are examined.
- Gives a false positive, over-confidence with the election audit.
- The audit should be end-2-end and answer these questions:
  - Ballot scan code represent voter's vote? (Voter intention > vote cast)
  - Tabulator correctly record, count the ballot? (Vote cast > vote count)
  - Report system correctly tally tabulator votes? (Vote count > vote tally)

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ENSURE MACHINE AND VOTING PROCESS ISSUES REPLACED WITH BEST PRACTICE SOLUTIONS STATEWIDE

- Our deep dive in Williamson County revealed issues.
- Believe many of these issues are common with other Tennessee counties.
- Three categories of solutions:
  - Technological solutions;
  - Process solutions;
  - Legislative solutions.

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ENSURE MACHINE AND VOTING PROCESS ISSUES REPLACED WITH BEST PRACTICE SOLUTIONS STATEWIDE -- EXAMPLES

TECHNOLOGICAL

- Passwords managed by users & required change on first login and if compromised. All system users should have separate UIDs, forced changes.

PROCESS

- County election officials must ensure sufficient resources/staff are trained to operate election system fully, without machine vendor presence or interaction with the system.

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ENSURE MACHINE AND VOTING PROCESS ISSUES REPLACED WITH BEST PRACTICE SOLUTIONS STATEWIDE -- EXAMPLES

LEGISLATIVE

- Audits recommendations will require legislation.

National integrity sources 25 General Best Practices, including:

- Election laws/regulations can't be changed within 180 days prior.
- No automatic voter registration; no day-of-vote registration.
- No drop boxes -- ease of tampering; no chain of custody.
- Ballot counting continues without pause until all votes tabulated.

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IN SUMMARY

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WHAT WE RECOMMEND

- **Paper ballots**: Hand-marked, random sequenced, watermarked.
- **Voter rolls**: Make them more secure.
- **Precinct voting**: No voting centers, no online check-in.
- **Enhanced Risk Limiting Audit**: Post-election, end-2-end validation vote count.
- **Chain of custody**: Ballots/precincts/County/**State totals, physical accountability**.
- **Operational audit**: Annual state audit of county election commissions.
- **Security Risk Evaluation**: Of all voting side & registration side machinery
- Our Goal: **Ensuring Election Integrity.**

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Ensuring Election Integrity for Tennessee Voters

June 2, 2021