Our Stats

**Boulder**
- 215,000 registered voters
- Large University- mobile voters
- Dominion Voting System- cast vote records

**Colorado**
- 3.2 Million voters
- Mail Ballot delivery with Voter Service Centers
- Most Counties on same equipment
Motivation to Audit

2006

- Implementation of HAVA
- Counties moving to DRE-
  - Boulder County stayed paper
- Equipment Certification

Today

- Distrust of outcomes
- Russia hacking
- Closer Margins and Polarization
- RLA held up as gold standard
- Equipment Certification
Equipment and Process Evolution - 10 years

2006
• Polling Place or Vote Center
• Most counties had DRE VVPAT
• Majority of ballots cast on a DRE

2008-2012
• Voters choosing Mail Ballots - moved to paper
• More paper offered in Polling Place or Vote Center

2013- present
• All Mail Ballots with Vote Center - central count
• Majority on same equipment - with CVR
Audit Evolution- 10 years

Audited selected contest in a rescan
Audited all contest in a rescan
Audited Election Night tabulation by batch
Audited individual ballots in a rescan
Audited Election tabulation results at the individual ballot level- Cast Vote Record
Audit Evolution - Boulder County

Audit Election Night Results
Use as many of the audit principles as we could

• All contest eligible
• Randomly selected contest and batches
• Workers do not know the results they are auditing too
• Statistically based

Transparent Process and Protect Voter Anonymity

Create a predictable workload
Risk Limiting Audits

**Benefits**
- Actual audit of Election tabulation system at time of scanning
- Significantly fewer ballots in most cases—savings
- Statistically based
- Show how each ballot was tabulated
- Fewer resources needed for audit
- Improve processes

**Challenges**
- Unknown resources needed
- Potential for more ballots
- More effort and time to retrieve exact ballot
- Requires ballots to be in exact order of scanning
- No early canvass sign off
- Ensuring voter anonymity with public CVR
- Time constraints
- Hard to explain
10 years perspective

- Partnering is the only way to succeed—elections are an ecosystem
  - Find a motivated Election Administrators
  - Pilot, Pilot, Pilot
  - Go SLOW to go FAST

- Hand Counts—improve process & conversation
- Law vague, Rule specific
- Have to have information to help EA plan
- Have to have processes for all to be successful
- Issues discovered in audits make our elections better
- CVR and voter privacy are complicated
What is Next our RLA

- Automate process to ensure voter anonymity
- Continue to improve processes
- Further define our escalation process
- Continue to look at processes that impact CVR
  - Create best practices- including visual inspection of ballots
  - Automate what can be automated
- Audit role in re-counts