Risk-Limiting Audits with Arlo

# California RLA Pilots



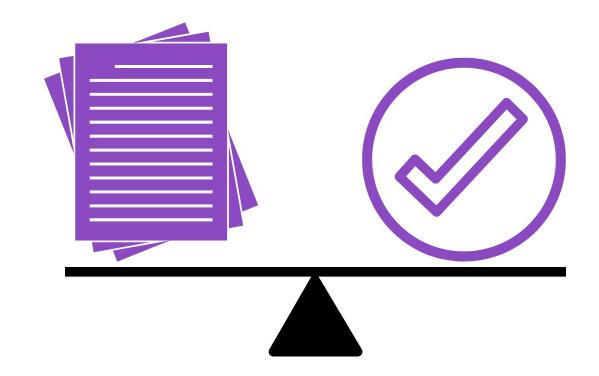
# A Risk-Limiting Audit

- Post-election audit
- Requires paper ballots
- Checks that the winner won

# A Risk-Limiting Audit

- Works against hacking and human error
- Can correct a wrong outcome

# EFFICIENT & EFFECTIVE



Not too much, not too little, just the right amout

### What's the Difference?

#### 1% Audit

 Verifies a specific batch was tabulated correctly

#### Risk-Limiting Audit

Verifies that the winner won

# **Different RLA Types**

#### **Ballot Polling**

\*randomly selected ballots

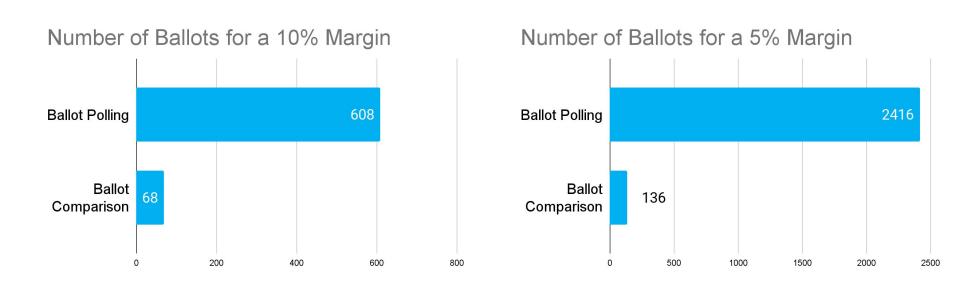
#### **Ballot Comparison**

- \*randomly selected exact ballots
- \*compared to Cast Vote Records

#### **Batch Comparison**

- \*randomly selected batches of ballots
- \*compared to batch totals

## What's the Difference?



# **Nov 2020 Statewide Contests**

Prop	Margin	Ballot Polling Pull Numbers
23	25.1%	182
18	11.6%	870
19	2.08%	26,166

# **California Pilots**

- November
  - Inyo
  - El Dorado
- March
  - Orange

# **Ballot Storage Conversations**

Solano
Alameda Marin
San Luis Obispo
Orange
Inyo El Dorado
San Diego
San Bernardino
San Benito

# **Audit Preparation**

properly secure all ballots in a container

create ballot manifest

# **Audit Conduct**

audit setup & sample size

randomly select ballots

retrieve ballots

tally the votes

done? yes/no

maintain ballot custody

# **Arlo Overview**

- Web based
- Provides placeholders & labels to manage audit
- Transparent
  - Easy to display data entry to observers
  - Generates report with all required data

# **Arlo Uploads**



# Arlo Downloads

#### Round 1 of the audit is in progress.

0 of 1 audit boards complete.

#### **Round 1 Data Entry**

Ballots to audit: 34

- Download Aggregated Ballot Retrieval List
- Download Placeholder Sheets
- Download Ballot Labels
- P Download Audit Board Credentials

#### **Audit Board Progress**

3 of 34 ballots audited

Audit Board #1: 3 of 34 ballots audited

In progress

# **Arlo Data Entry**



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https://voting.works/risk-limiting-audits/

https://docs.voting.works/arlo

https://www.sos.ca.gov/elections/risk-limiting-audits

