

# ACCURACY IN ELECTIONS



NCSL

Strong Elections, Strong States

New Orleans, Louisiana

April 1, 2023







#### PARTIAL INDEX TO CITIES AND TOWNS

Abbeville.....D-3	Mandeville.....D-5
Abita Springs.....D-5	Manafield.....B-1
Alexandria.....C-3	Many.....B-2
Arcadia.....A-2	Markville.....C-3
Baker.....C-4	Marrero.....D-5
Bastrop.....A-3	Metairie.....D-5
Baton Rouge.....D-4	Minden.....A-2
Bayou Cane.....E-4	Monroe.....A-3
Bogalusa.....C-5	Morgan City.....E-4
Bossier City.....A-1	Moss Bluff.....D-2
Breaux Bridge.....D-3	Natchitoches.....B-2
Bunkie.....C-3	New Iberia.....D-3
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Chalmette.....D-5	New Roads.....C-3
Columbia.....B-3	Oak Grove.....A-3
Crowley.....D-3	Oakdale.....C-2
Curt Off.....E-4	Opelousas.....D-3
De Ridder.....C-2	Pineville.....C-3
Donaldsonville.....D-4	Plaquemine.....D-4
Eunice.....D-3	Port Allen.....D-4
Franklin.....D-3	Raceland.....D-4
Gonzales.....D-4	Rayne.....D-3
Grambling.....A-2	Ruston.....A-2
Hammond.....D-4	Shreveport.....A-1
Houma.....E-4	Sidell.....D-5
Jeanerette.....D-3	Springhill.....A-2
Jennings.....D-2	St. Martinville.....D-3
Jonesville.....B-3	Sulphur.....D-2
Lacombe.....D-5	Tallulah.....A-4
Lafayette.....D-3	Thibodaux.....D-4
Lake Charles.....D-2	Ville Platte.....C-3

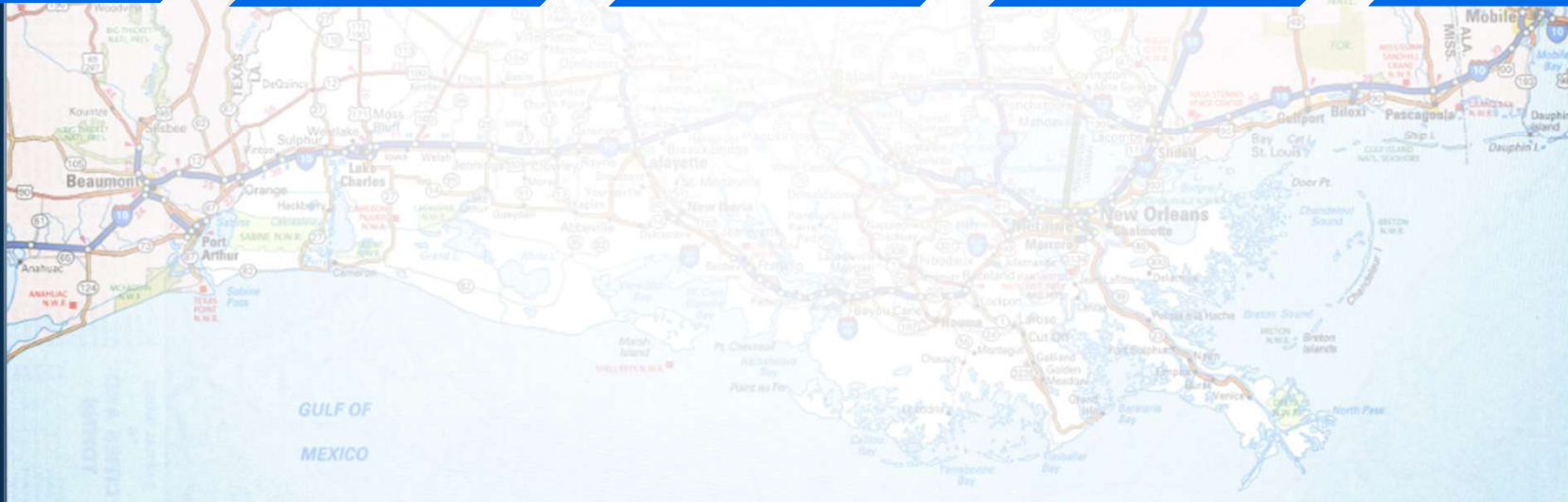
Geographic  
Information

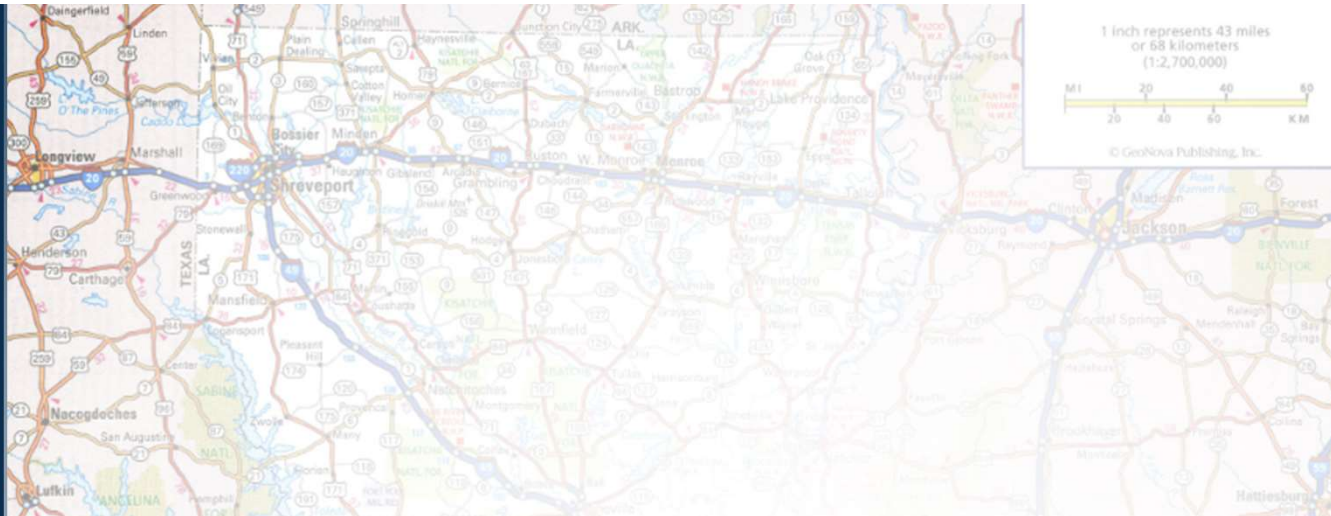
Voter  
Registration

Ballot  
Design

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Counting

Results  
Reporting





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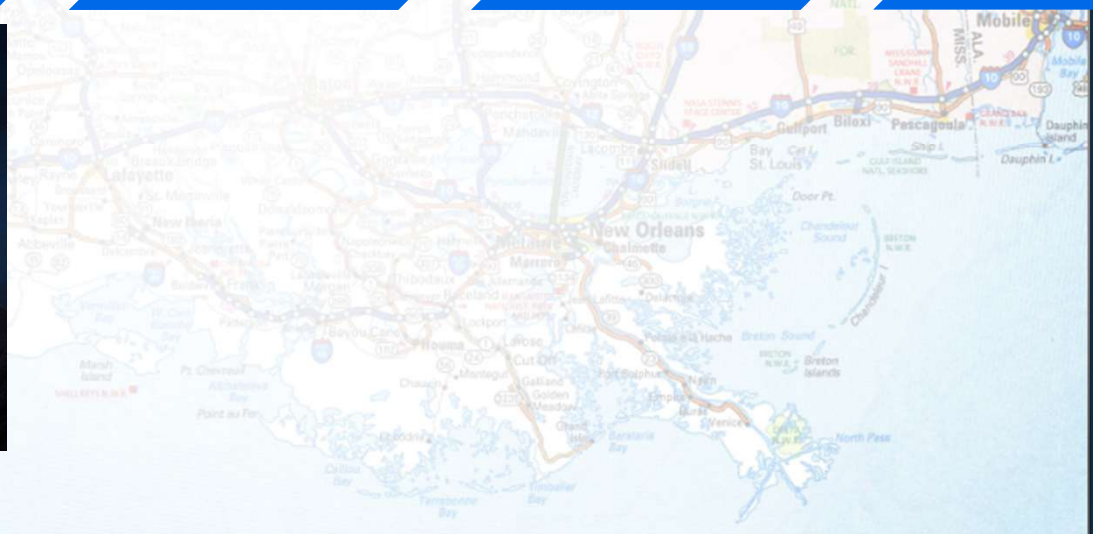
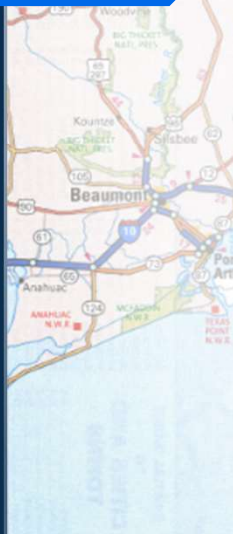
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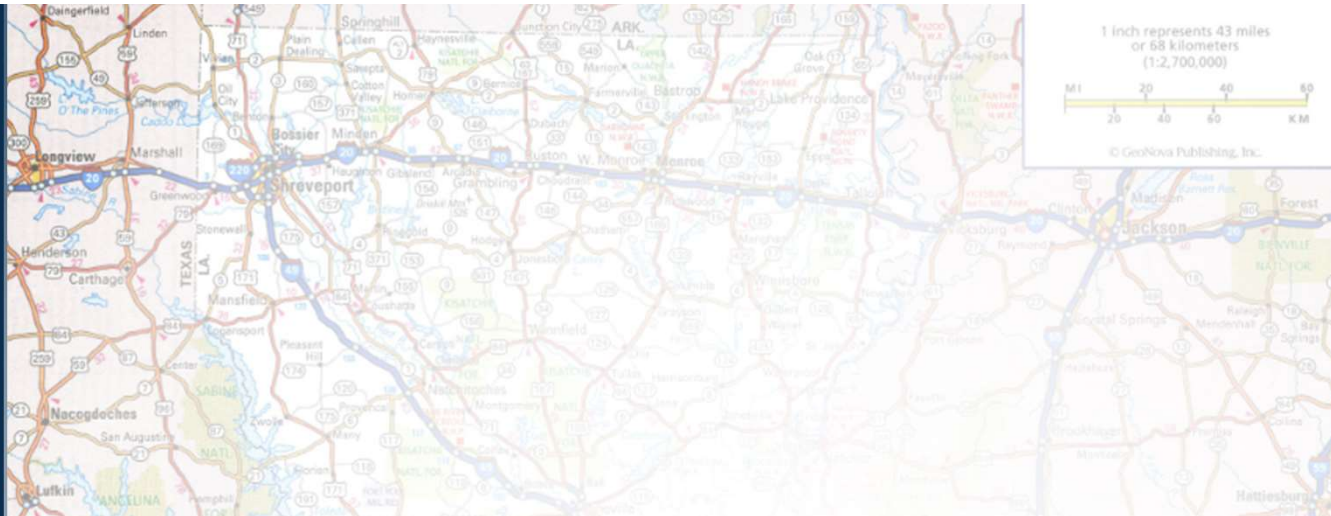
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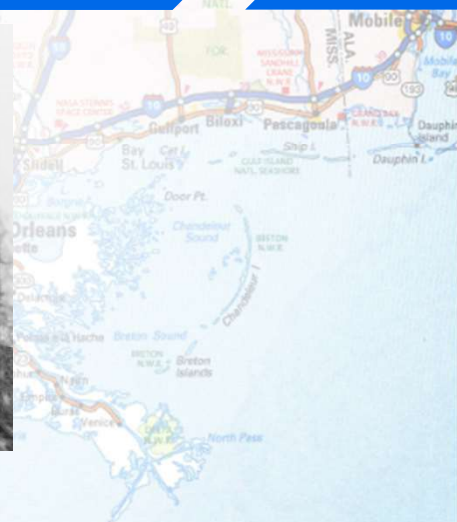
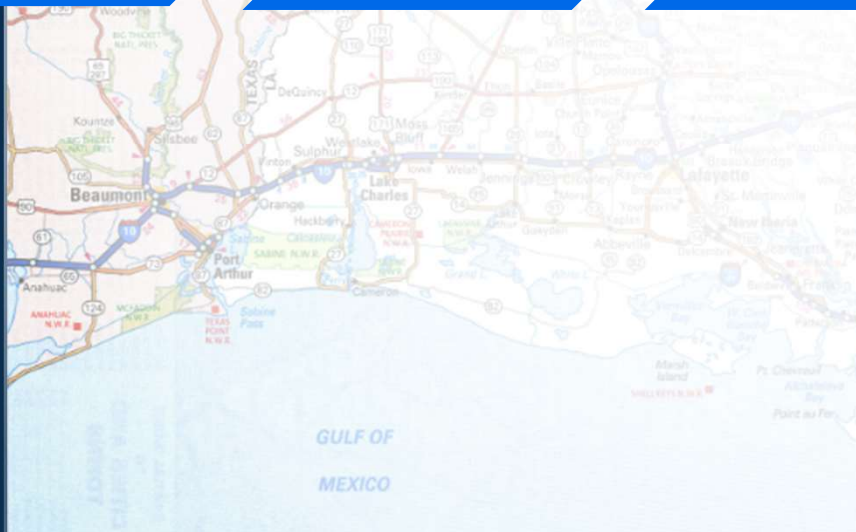
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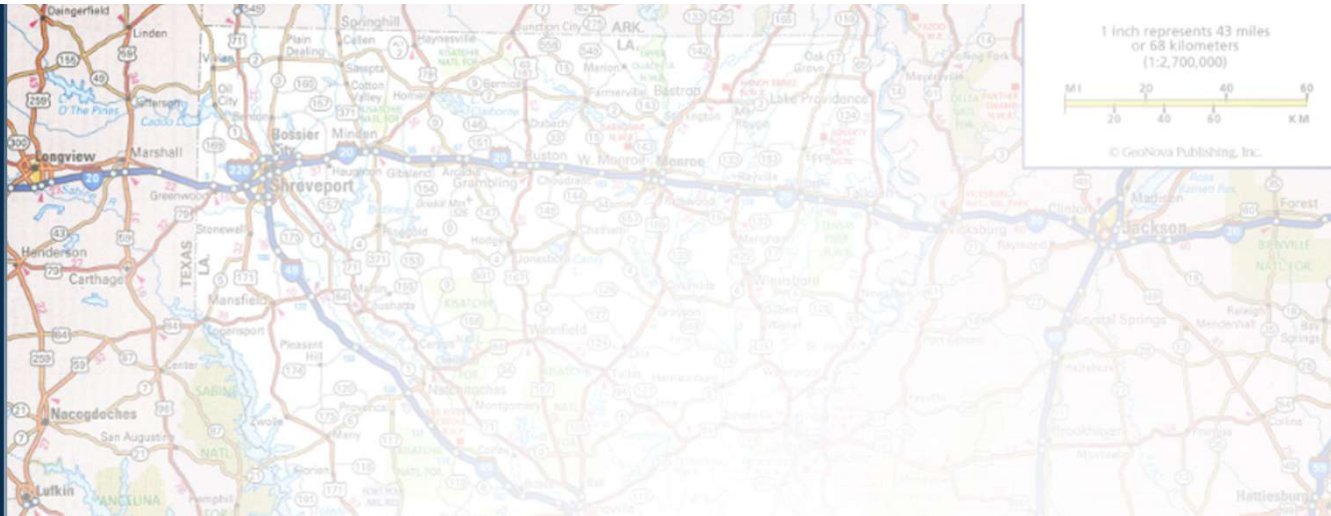
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1 inch represents 43 miles  
or 68 kilometers  
(1:2,700,000)

M 1 20 40 60 80  
K M

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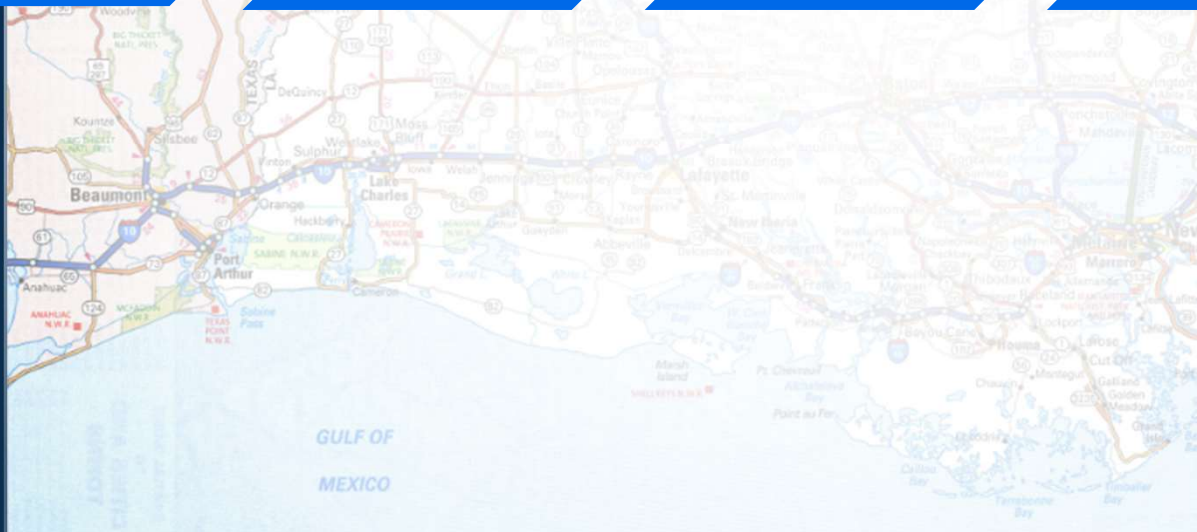
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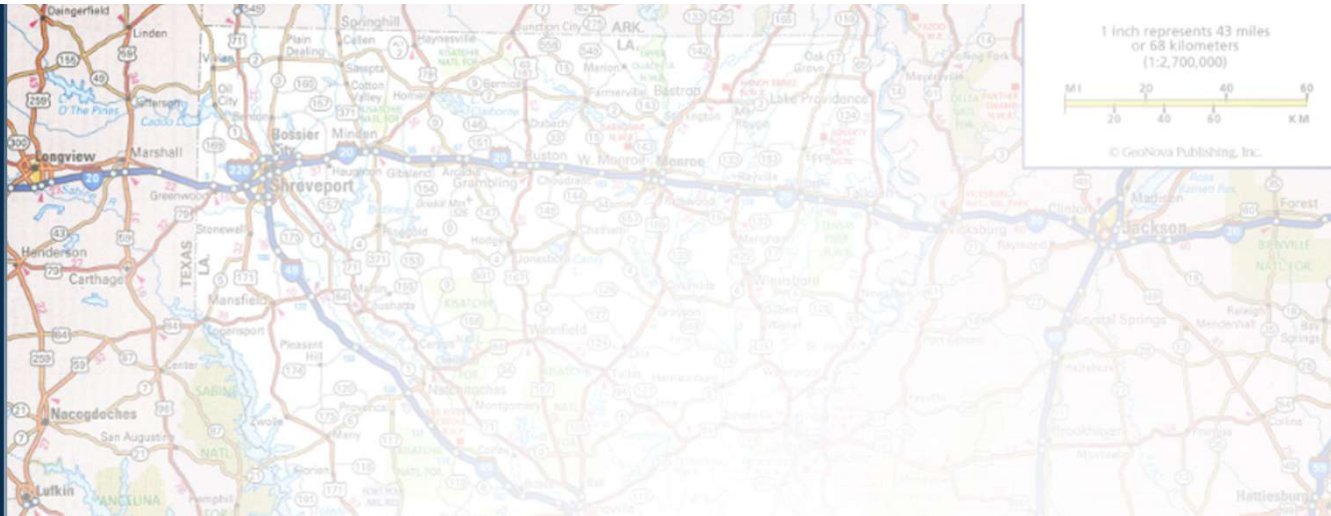
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# CHARLES STEWART III



Kenan Sahin Distinguished Professor  
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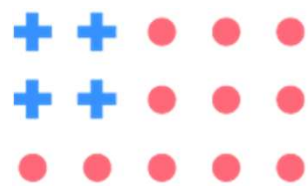


# Caltech/MIT Voting Technology Project

Founded in November 2000

<https://vote.Caltech.edu>

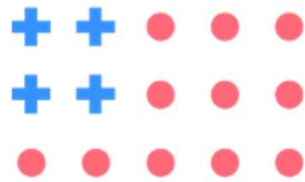




# MIT ELECTION DATA + SCIENCE LAB

FOUNDED IN JANUARY 2017

<https://elections.mit.edu>



# MIT ELECTION DATA + SCIENCE LAB

Research

Gather/disseminate  
election data

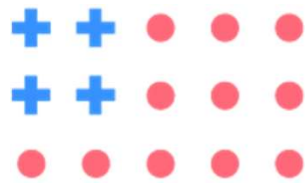
Work with election  
officials

Encourage official/  
academic exchange

Support ESRA

- **Election-night reporting**
- **Survey of the Performance of American Elections**
- **Elections Performance Index**
- **Trust in elections**
- Social media and election officials
- **Post-election audits—accuracy and attitudes**
- Attitudes toward election spending
- Polling place placement
- Line length
- Vote-buying opportunities with RCV





# MIT ELECTION DATA + SCIENCE LAB

Research

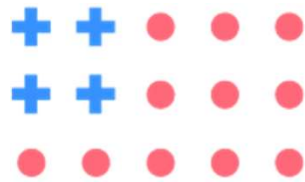
Gather/disseminate  
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Work with election  
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Support ESRA

- Nationwide precinct returns
- **Audit outcomes**



# MIT ELECTION DATA + SCIENCE LAB


Research

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Work with election  
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Encourage official/  
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Support ESRA

- 
- Placement of polling place
  - Consequences of RCV
  - Accuracy of signature verification
  - Effects of automatic voter registration
  - Accuracy of voter lists



# MIT ELECTION DATA + SCIENCE LAB

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## EXPERTS

MEDSL encourages and disseminates the work of leading academic authorities in election science. Search for experts in any branch of election research by location and research area.





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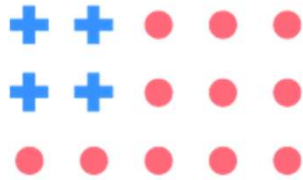
Support ESRA

Upcoming Event

## 2023 ESRA CONFERENCE **REGISTER TO ATTEND**

The 7th Annual Summer Conference on Election Science, Reform, and Administration (ESRA) will be held in-person from Wednesday, May 31st to Friday, June 2nd at the University of Georgia in Athens, GA. Registration and more information is now available! We look forward to seeing you there.





# MIT ELECTION DATA + SCIENCE LAB

Research

Gather/disseminate  
election data

Work with election  
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Encourage official/  
academic exchange

Support ESRA

## Core Team



Charles Stewart III Ph.D.  
Founding Director



Camilla Alarcon  
Senior Research Associate



Samuel Baltz  
Research Scientist



Monica Crane Childers  
Manager, Measuring Election  
Administration + Election  
Science



Claire DeSoi  
Communications Director



Alex Flores  
Postdoctoral Fellow



Joelle Gross  
Senior Research Associate



Kate Murray  
Senior Research Associate



Jason Rhode  
Program Coordinator



Jack Williams  
Senior Research Associate

## Current Graduate Researchers



Jacob Jaffe



Joe Loffredo

## Current Undergraduate Researchers



Chidubem Ezike



Fernanda Gonzalez



Kaiwen Guo



Kirsi Rajagopal



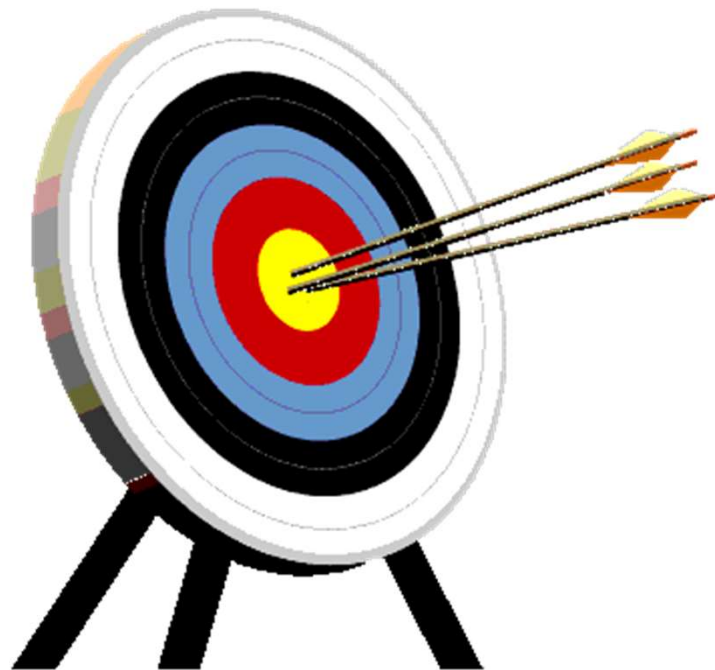
Tayae Rogers



Alec Sheres

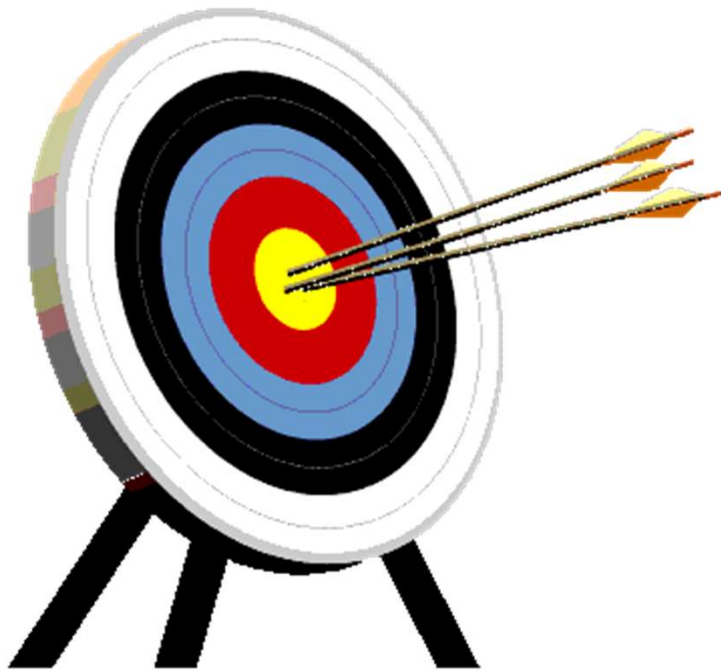


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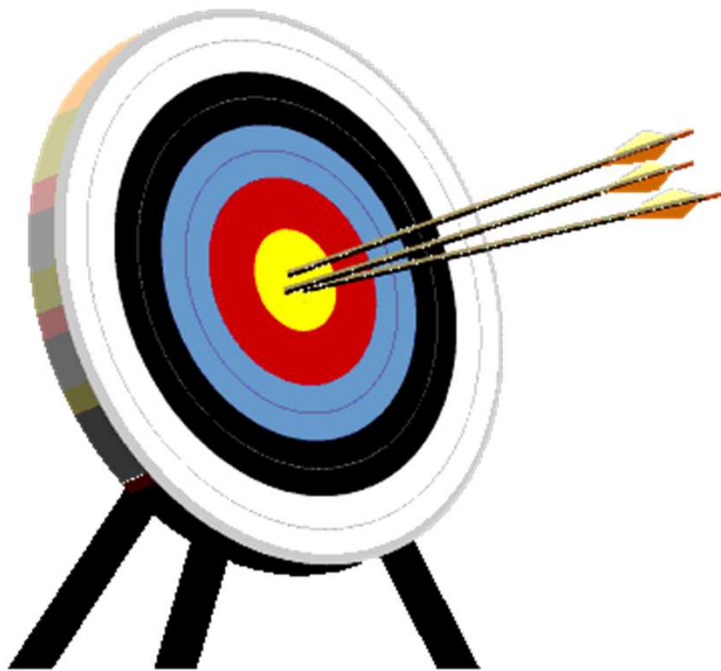


# ACCURACY



Correct outcomes

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Correct outcomes

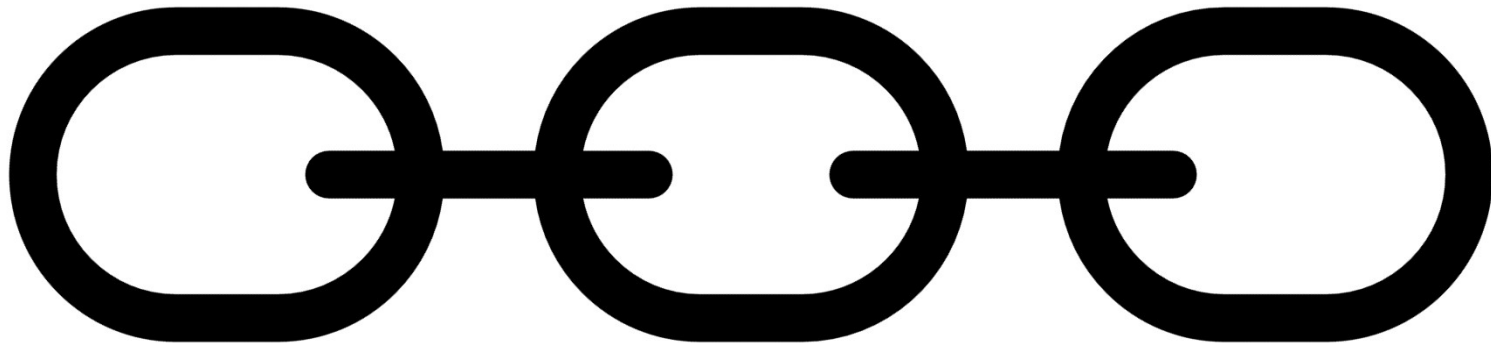
Voter trust

# FROM THE VOTER'S PERSPECTIVE

Registration

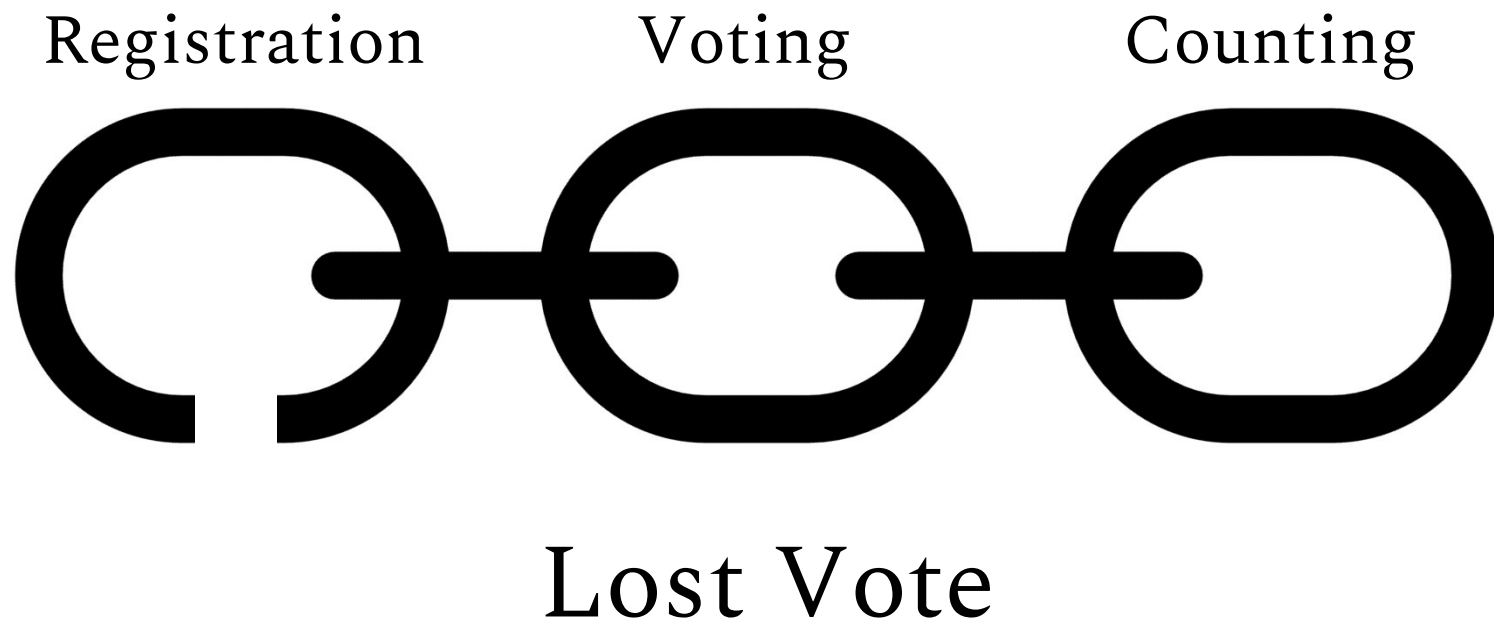
Voting

Counting





# FROM THE VOTER'S PERSPECTIVE



# 2000 Election

## 4 TO 6 MILLION LOST VOTES

1.5 to 2 Million Lost Because of Faulty  
Equipment and Confusing Ballots

1.5 to 3 Million Lost Because of Registration Mix Ups

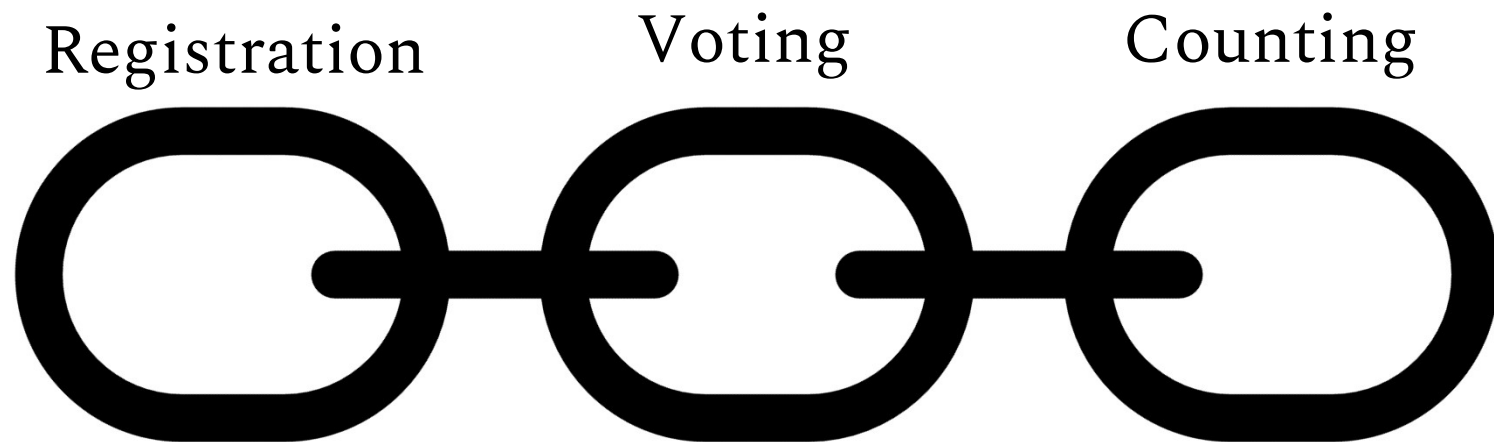
Up to 1 Million Lost Because of Polling Place Operations

Unknown Losses Because of Absentee Ballot Problems

Source: Caltech/MIT Voting Technology Project, *Voting: What Is/What Could Be*

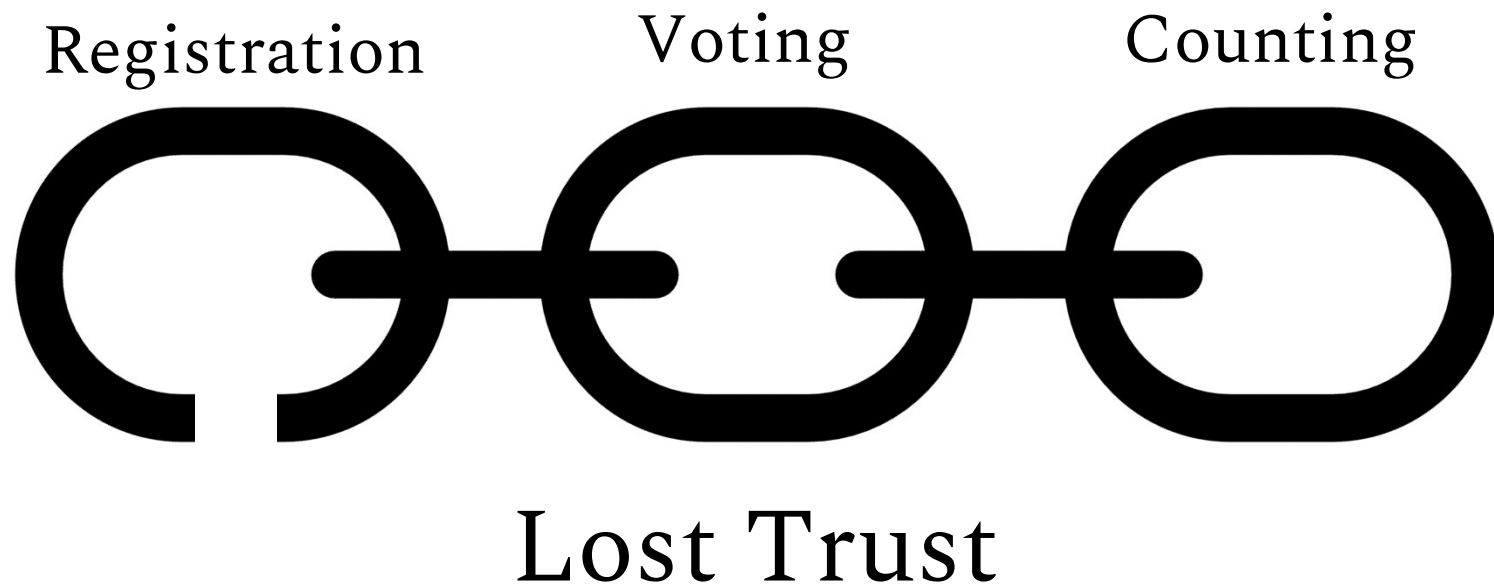


# FROM THE SYSTEM'S PERSPECTIVE





# FROM THE SYSTEM'S PERSPECTIVE



## Registration

- Ineligible voters
- Dead voters
- Unregistered voters

## Voting

- Inaccurate calibration
- Confusing ballots
- Ballot shortages
- Light ink

## Counting

- Mis-programmed scanners
- Mis-programmed EMS systems
- Tired ballot counters

# LOST TRUST?

## Registration

- Ineligible voters
- Dead voters
- Unregistered voters

## Voting

- Inaccurate calibration
- Confusing ballots
- Ballot shortages
- Light ink

## Counting

- Mis-programmed scanners
- Mis-programmed EMS systems
- Tired ballot counters



# WHAT WE KNOW ABOUT VOTER TRUST



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# WHAT WE KNOW ABOUT VOTER TRUST

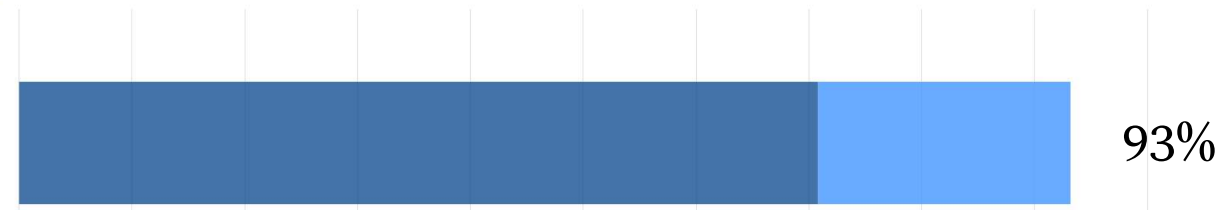
- + Voters are less trusting when they personally have a bad experience.
- + Voters are more trusting when their candidates win.
- + Voters are more trusting when public figures they trust defend the system.
- + Voters are more trusting the closer the process is to them geographically.



# How confident are you that votes [at level] were counted as intended?

2022 respondents

Your vote



0 10 20 30 40 50 60 70 80 90 100%



Very confident



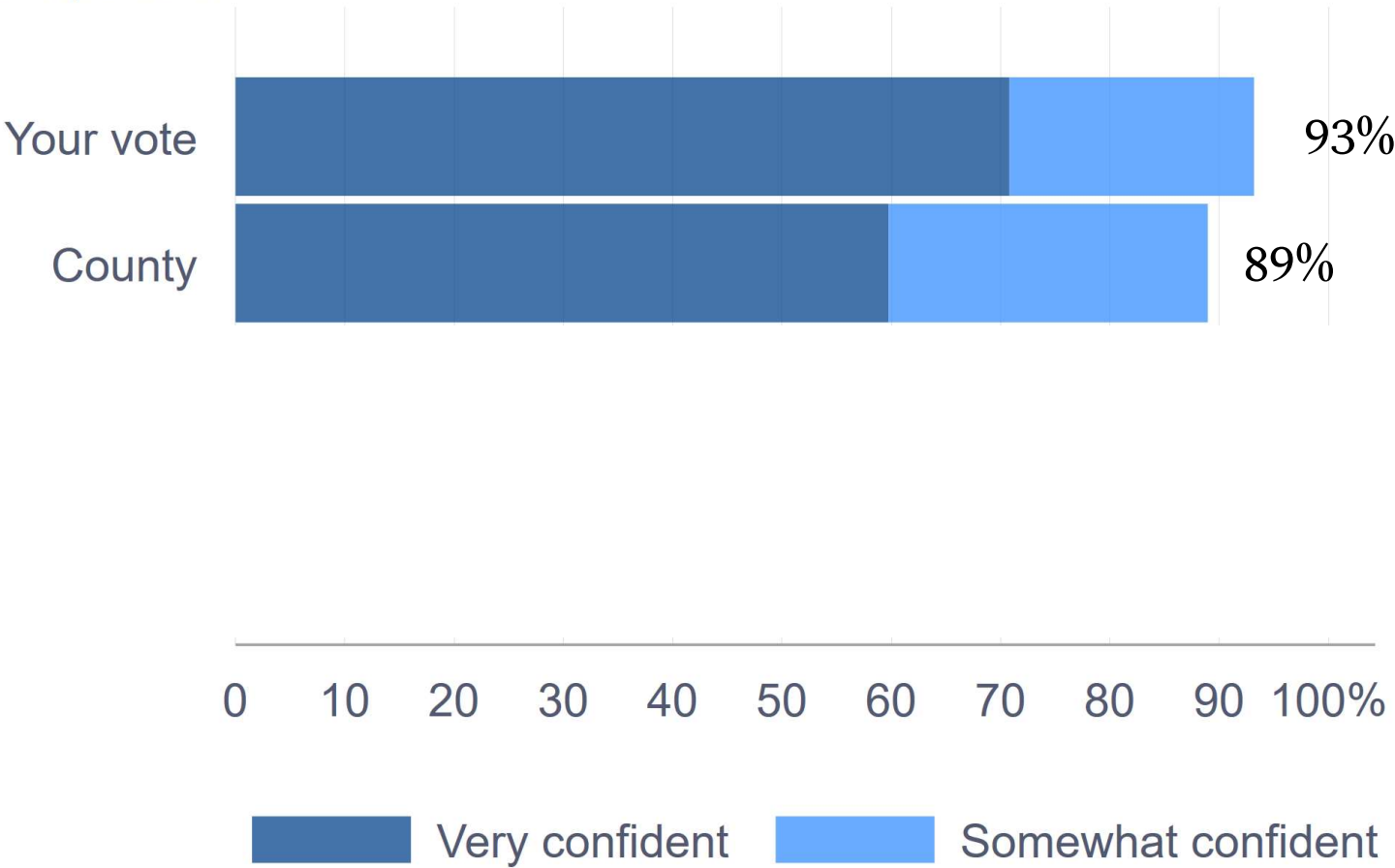
Somewhat confident

Source: Survey of the Performance of American Elections



# How confident are you that votes [at level] were counted as intended?

2022 respondents

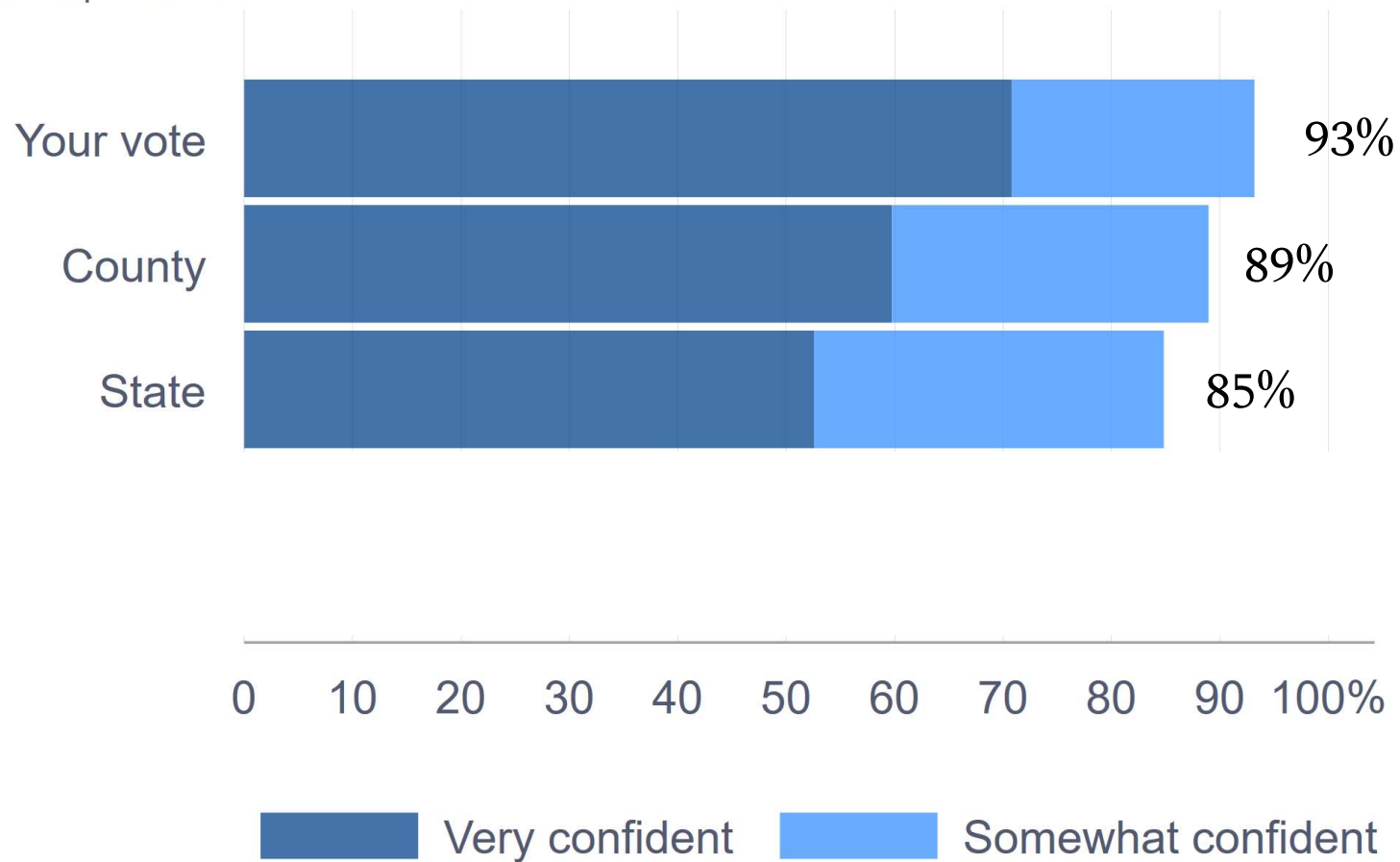


Source: Survey of the Performance of American Elections



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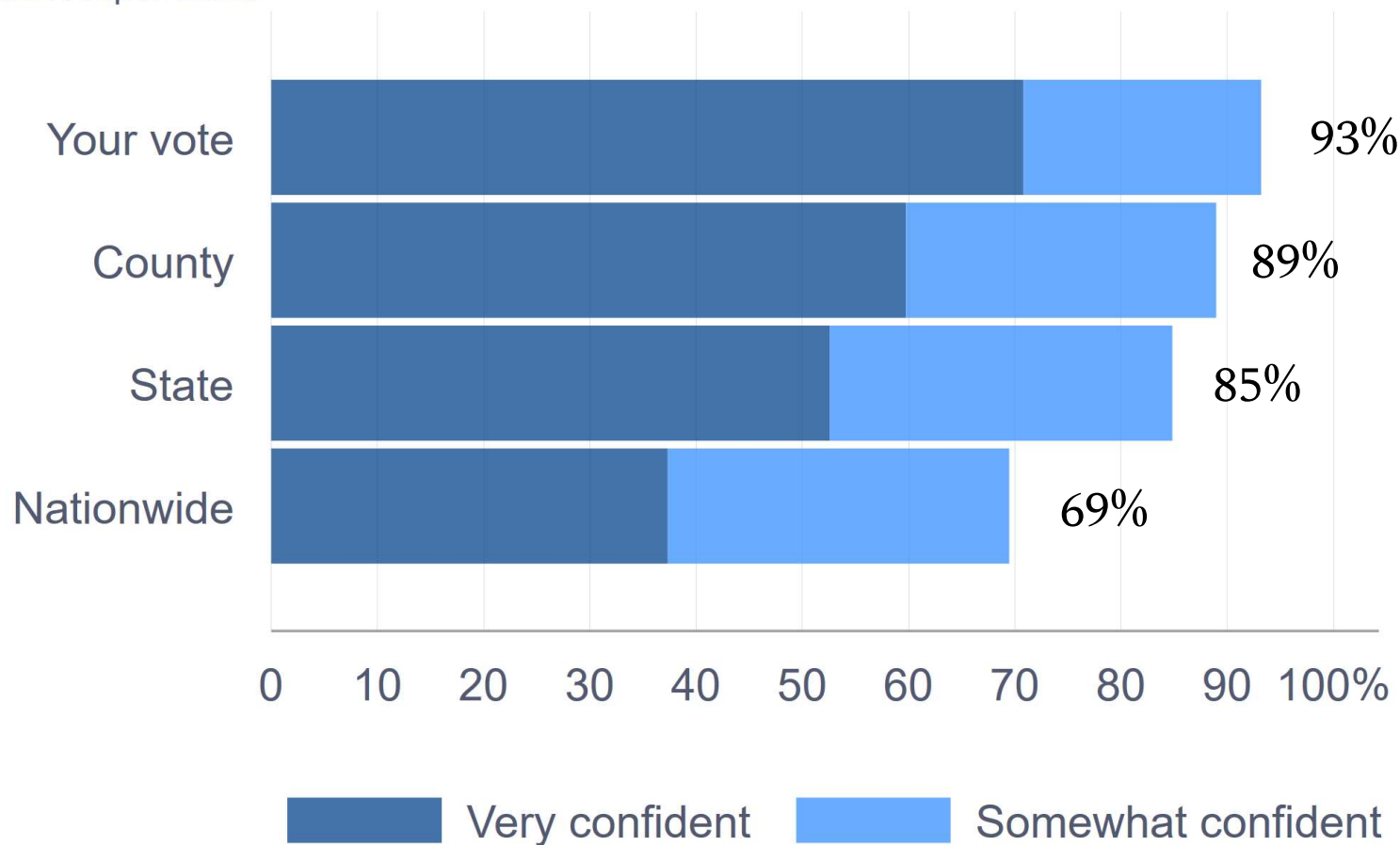
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Source: Survey of the Performance of American Elections

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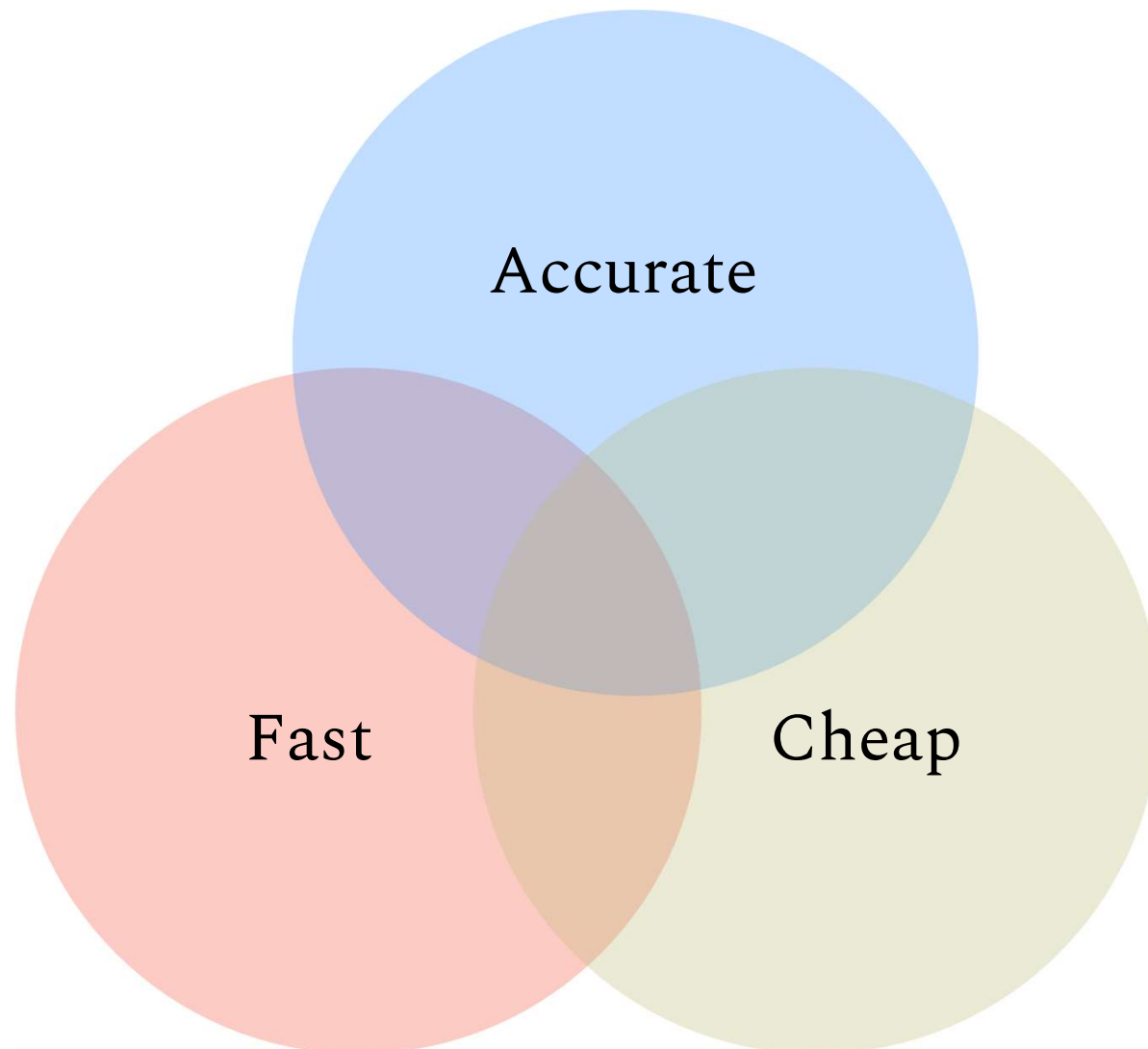


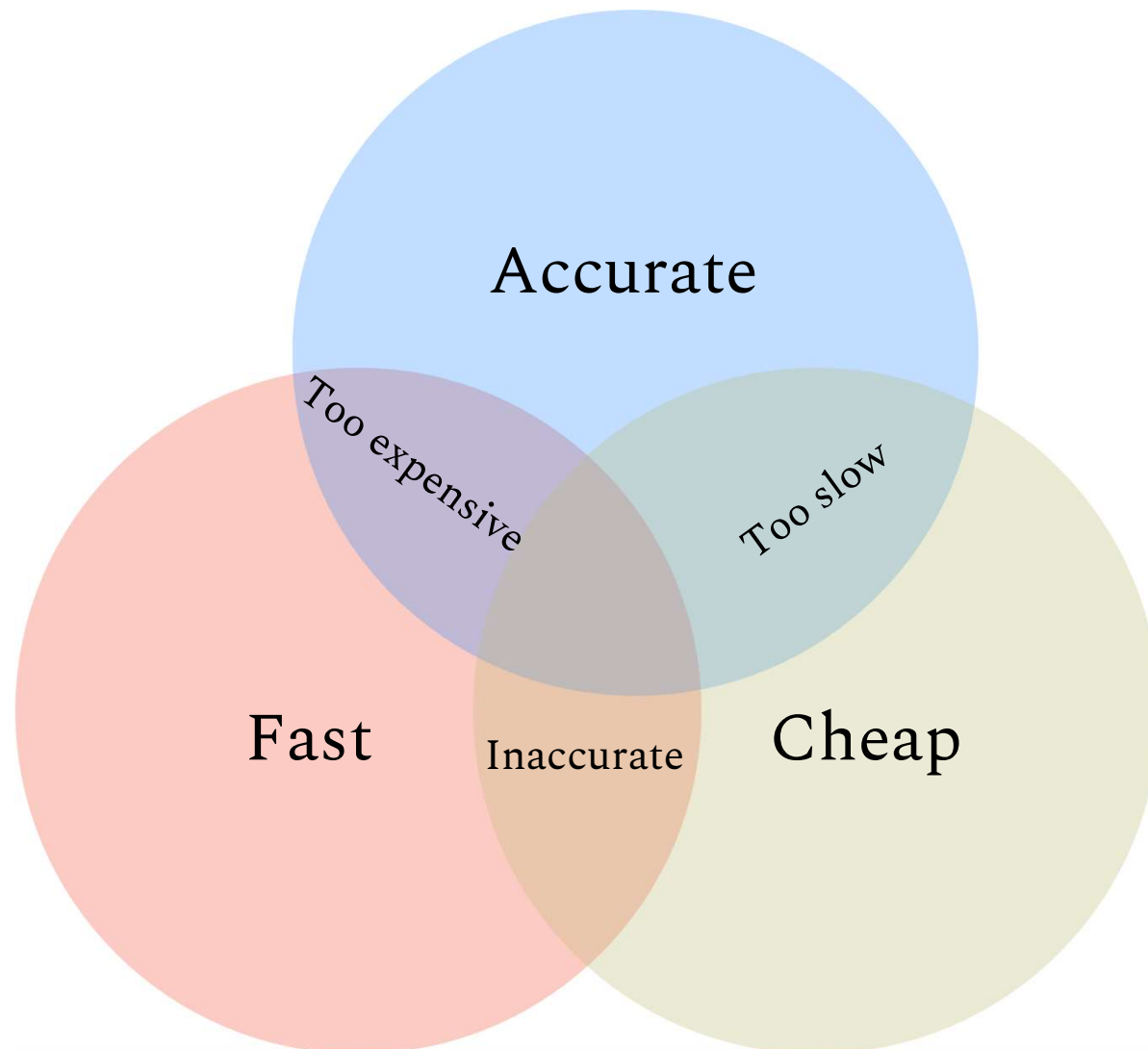
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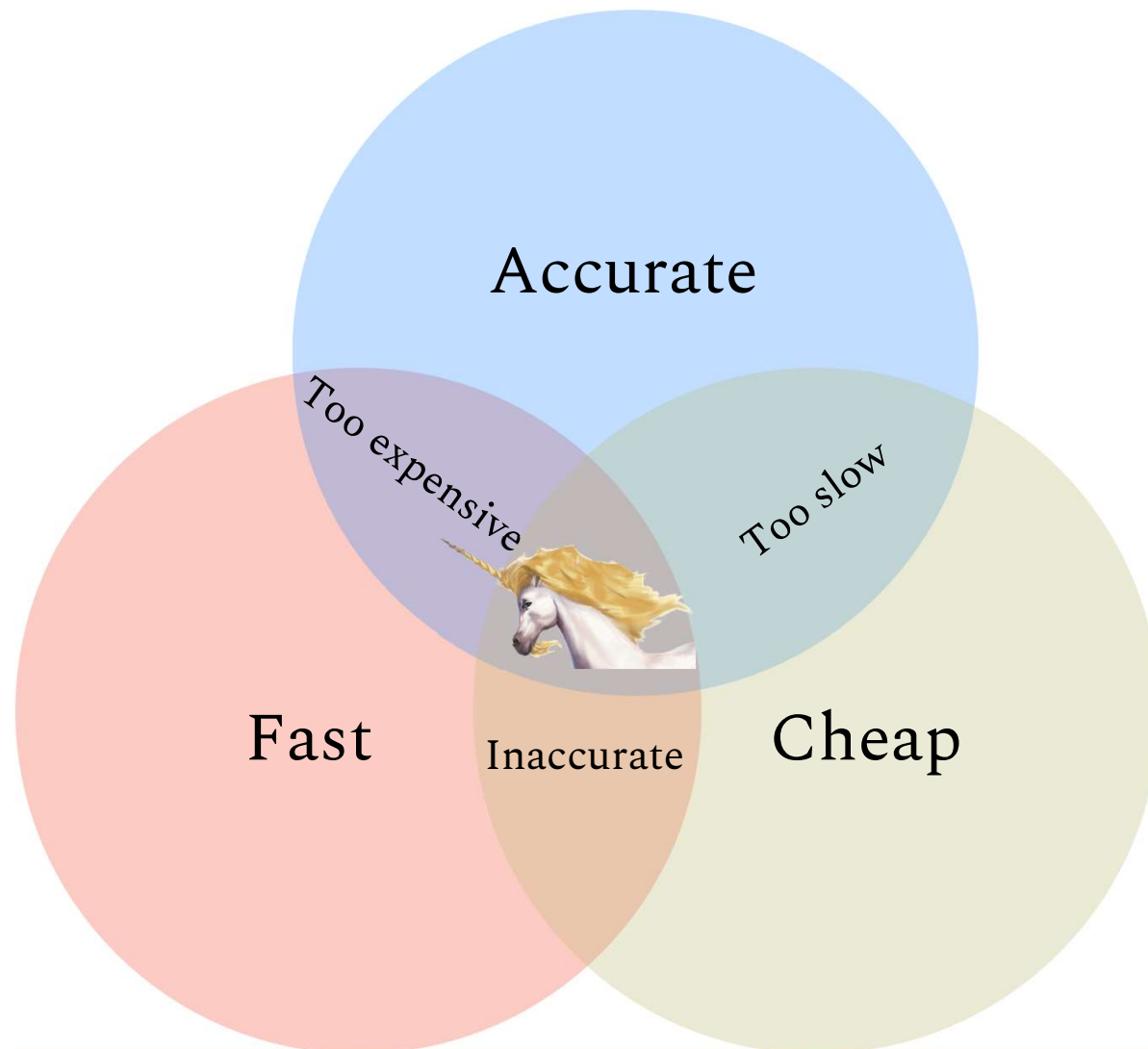




# Challenges to Accuracy















# JASPER COUNTY, IOWA, 2020

## Federal

- President & Vice President
- Senator
- House of Representatives

## State

- Senator
- State Supreme Court Justice Retention (4)
- Appeals Court Judge Retention (6)
- District Court Judge Retention (6)
- Ballot Question

## County

- Supervisor
- Auditor
- Sheriff
- Soil & Water Conservation Board (4)
- Agriculture Extension Council (5)

## Local

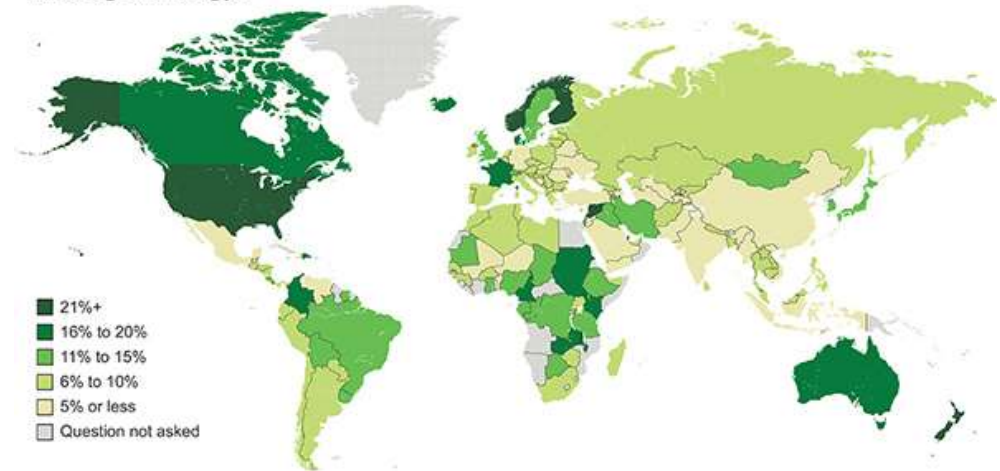
- Township Trustees

Total Choices: 34





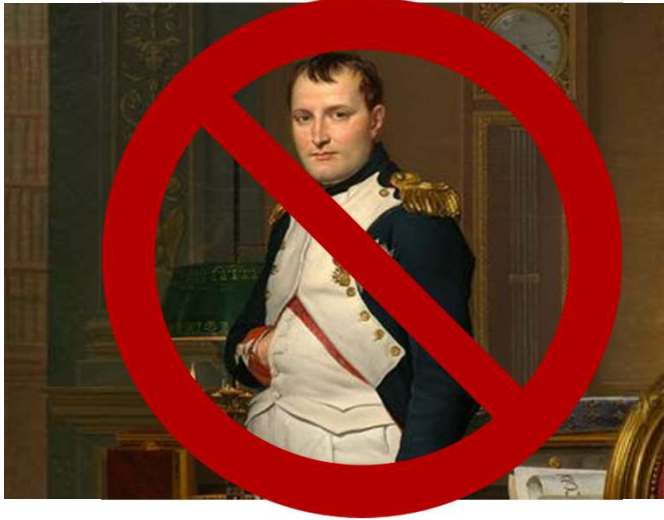
*Did you move from another city or area within this country in the past five years?*  
Percentage answering yes



Source: [https://news.gallup.com/poll/162488/381-million-adults-worldwide-migrate-within-countries.aspx?utm\\_source=alert&utm\\_medium=email&utm\\_campaign=syndication&utm\\_content=morelink&utm\\_term=All%20Gallup%20Headlines](https://news.gallup.com/poll/162488/381-million-adults-worldwide-migrate-within-countries.aspx?utm_source=alert&utm_medium=email&utm_campaign=syndication&utm_content=morelink&utm_term=All%20Gallup%20Headlines)







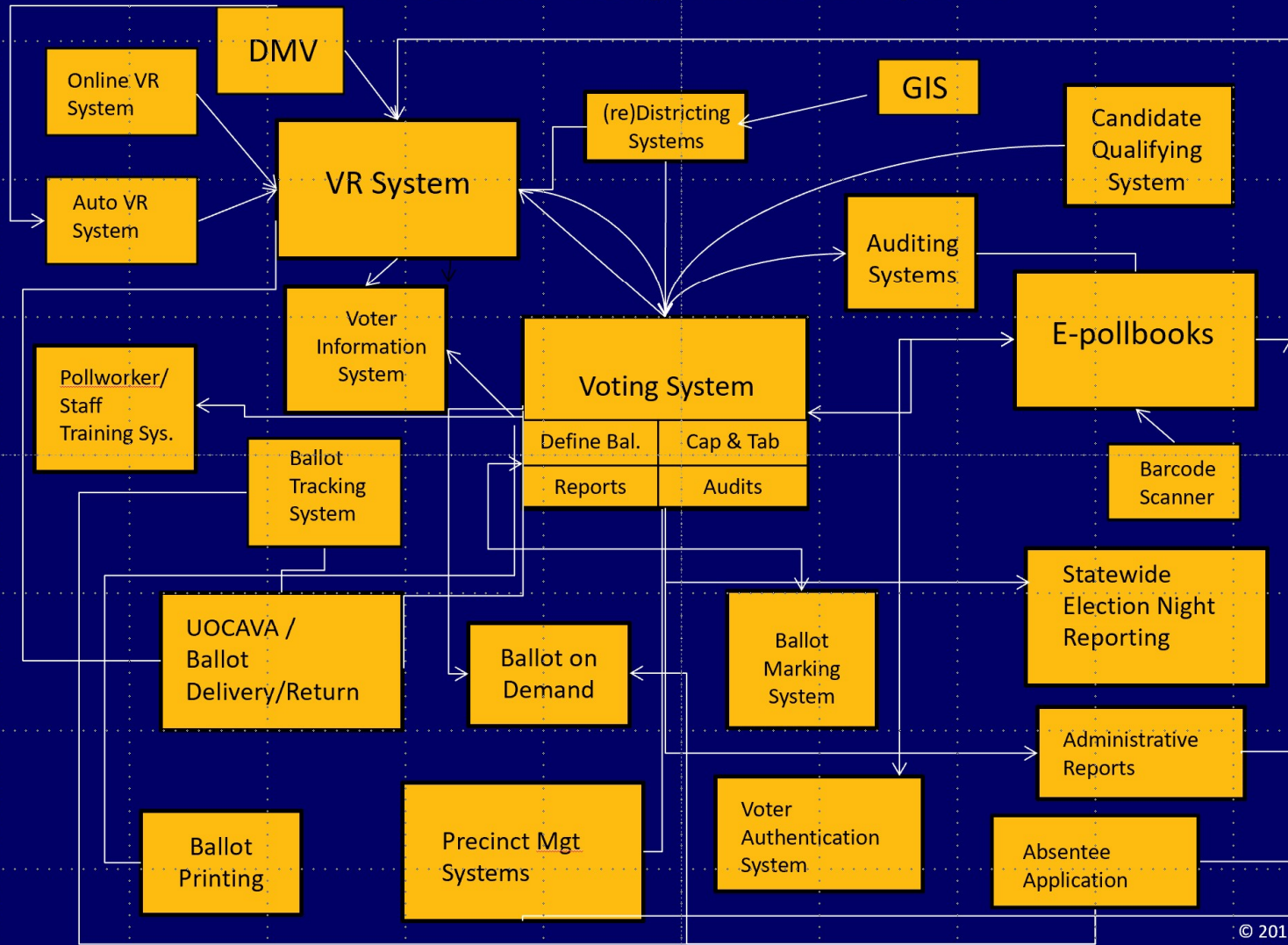








## Interaction of Voting and Election Systems

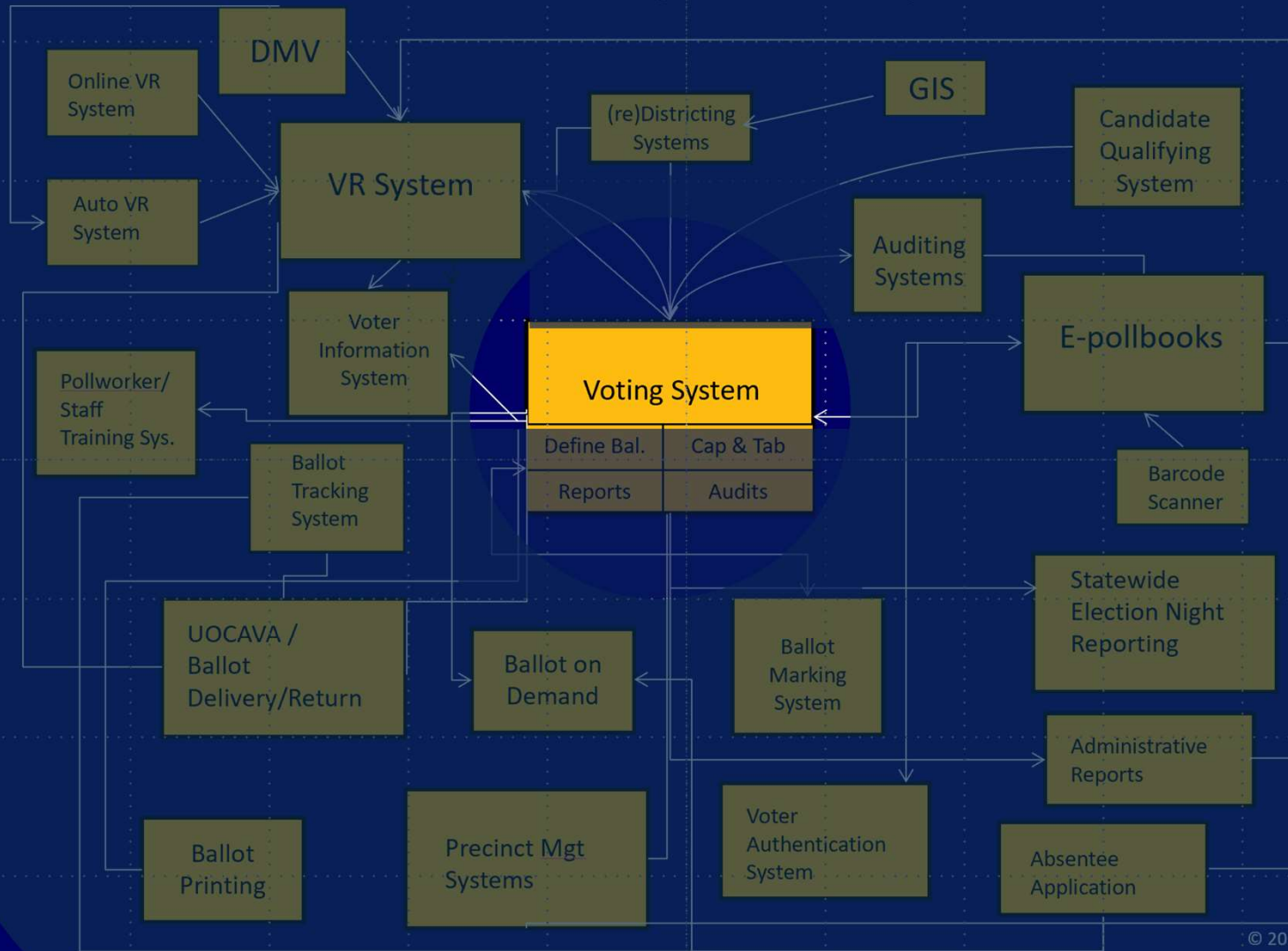


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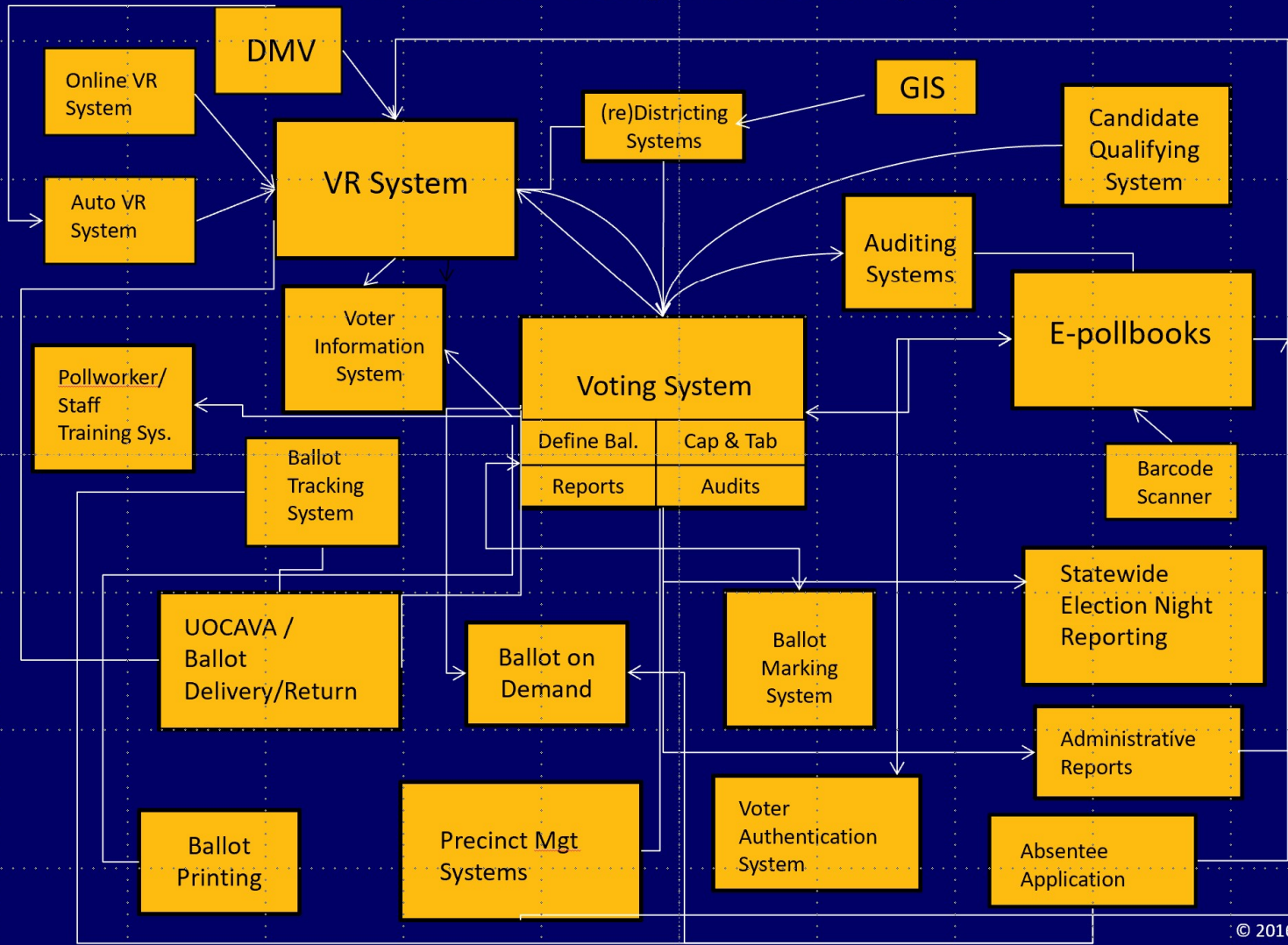
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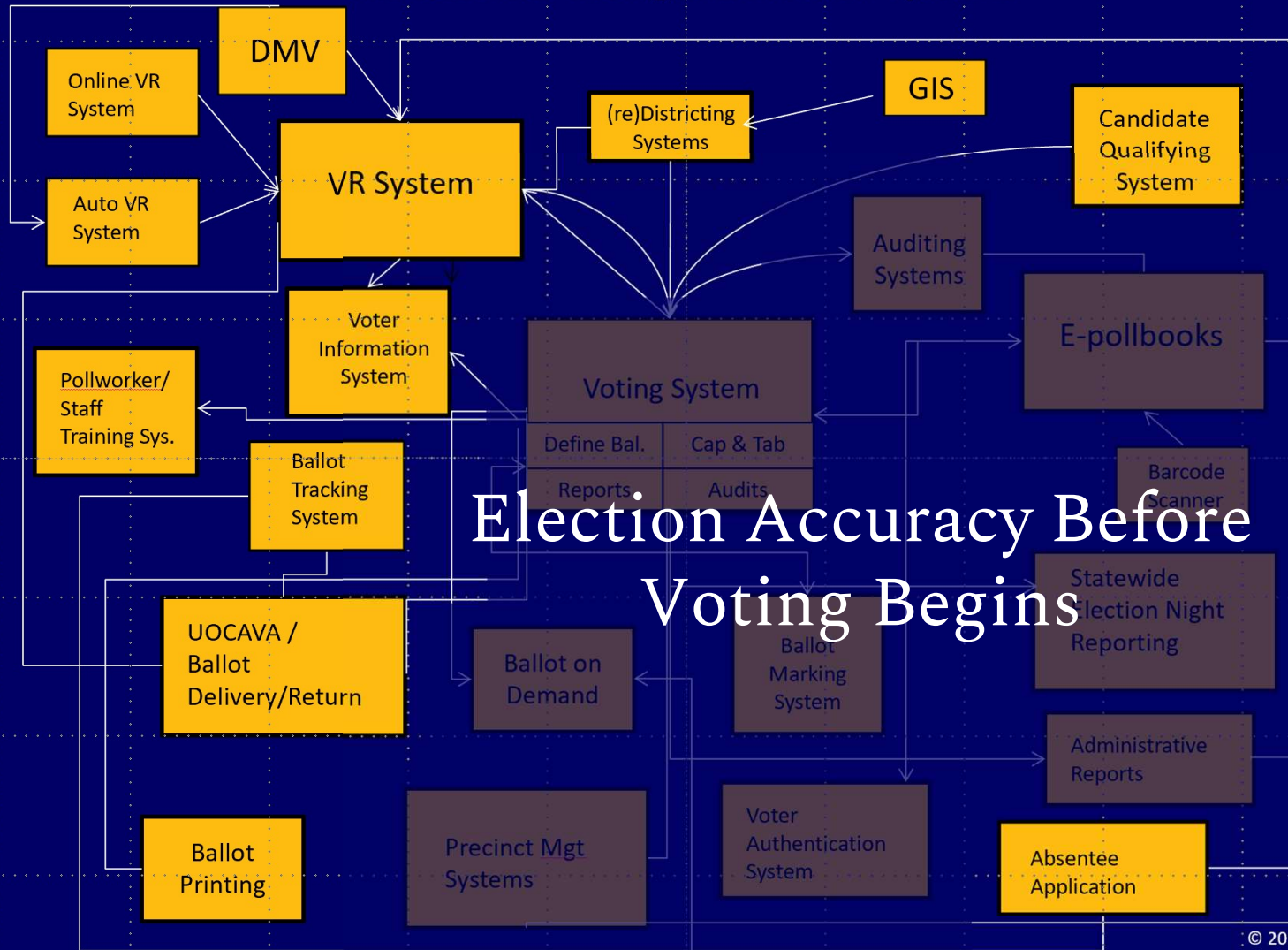
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## Interaction of Voting and Election Systems



## Interaction of Voting and Election Systems



Election Accuracy Before  
Voting Begins

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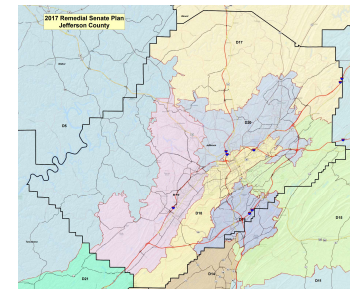
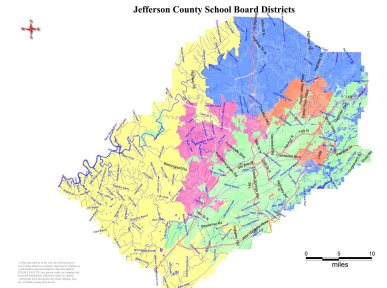
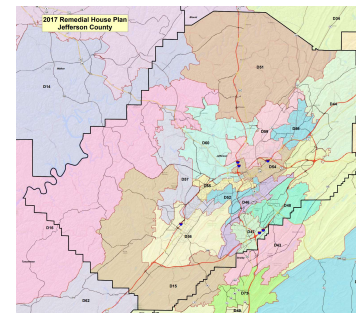
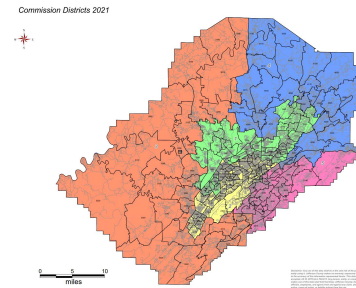
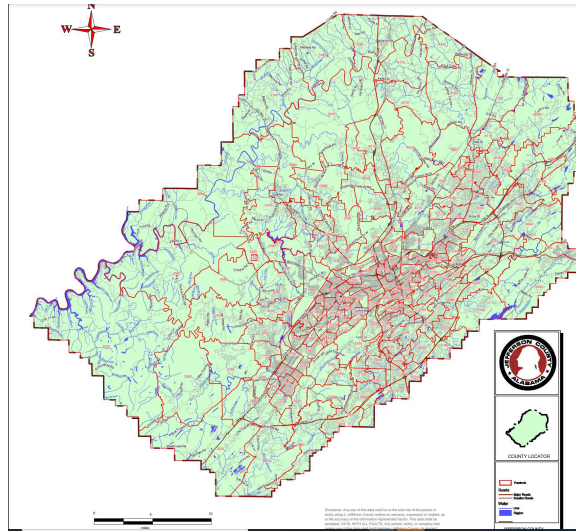
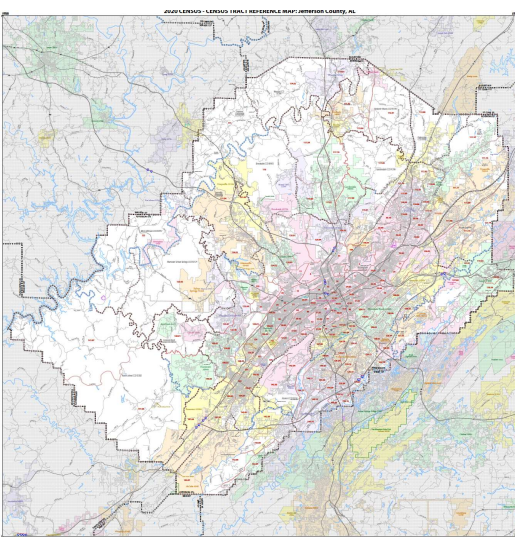


# DISTRICTING

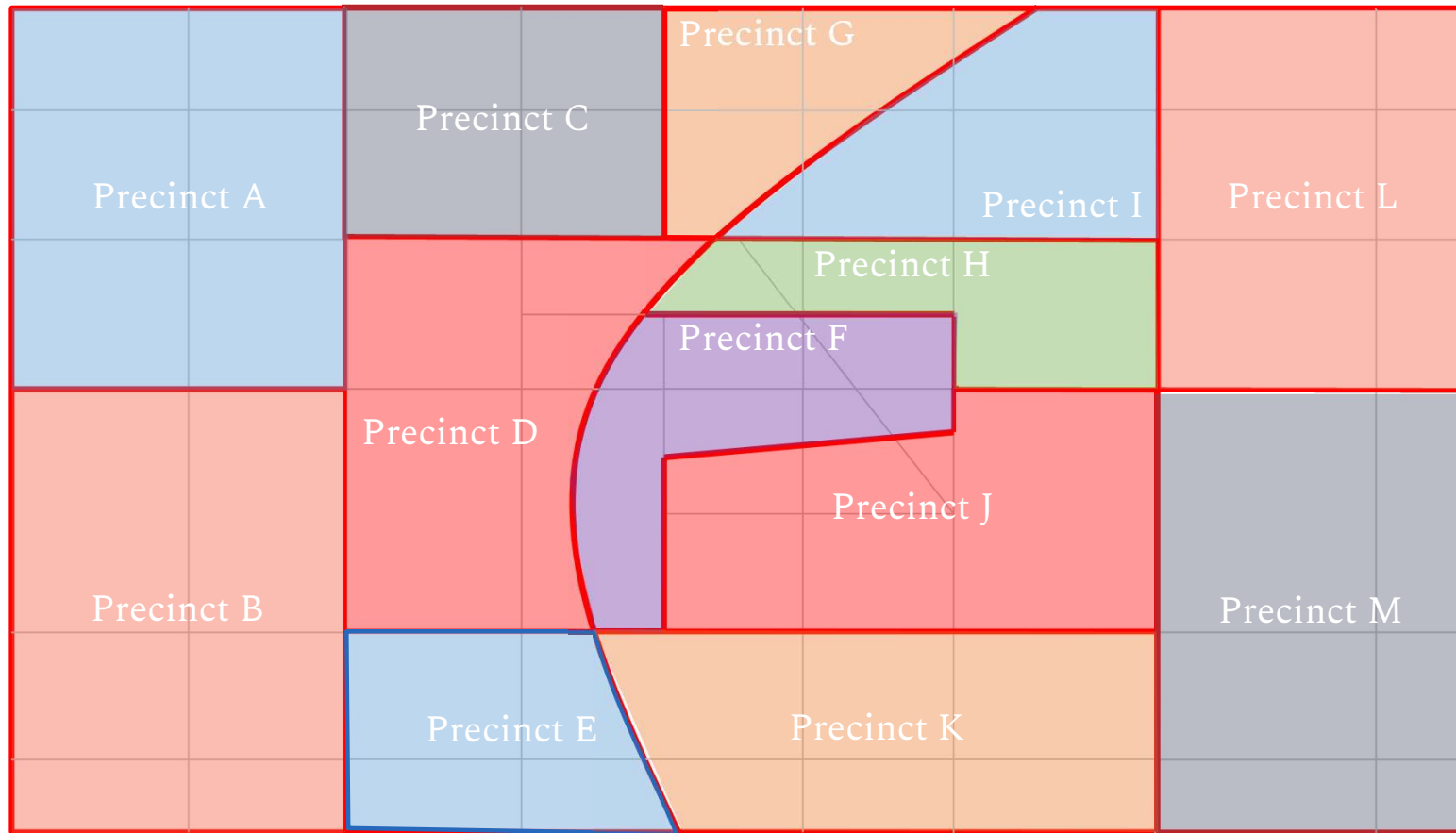
Census

Precincts

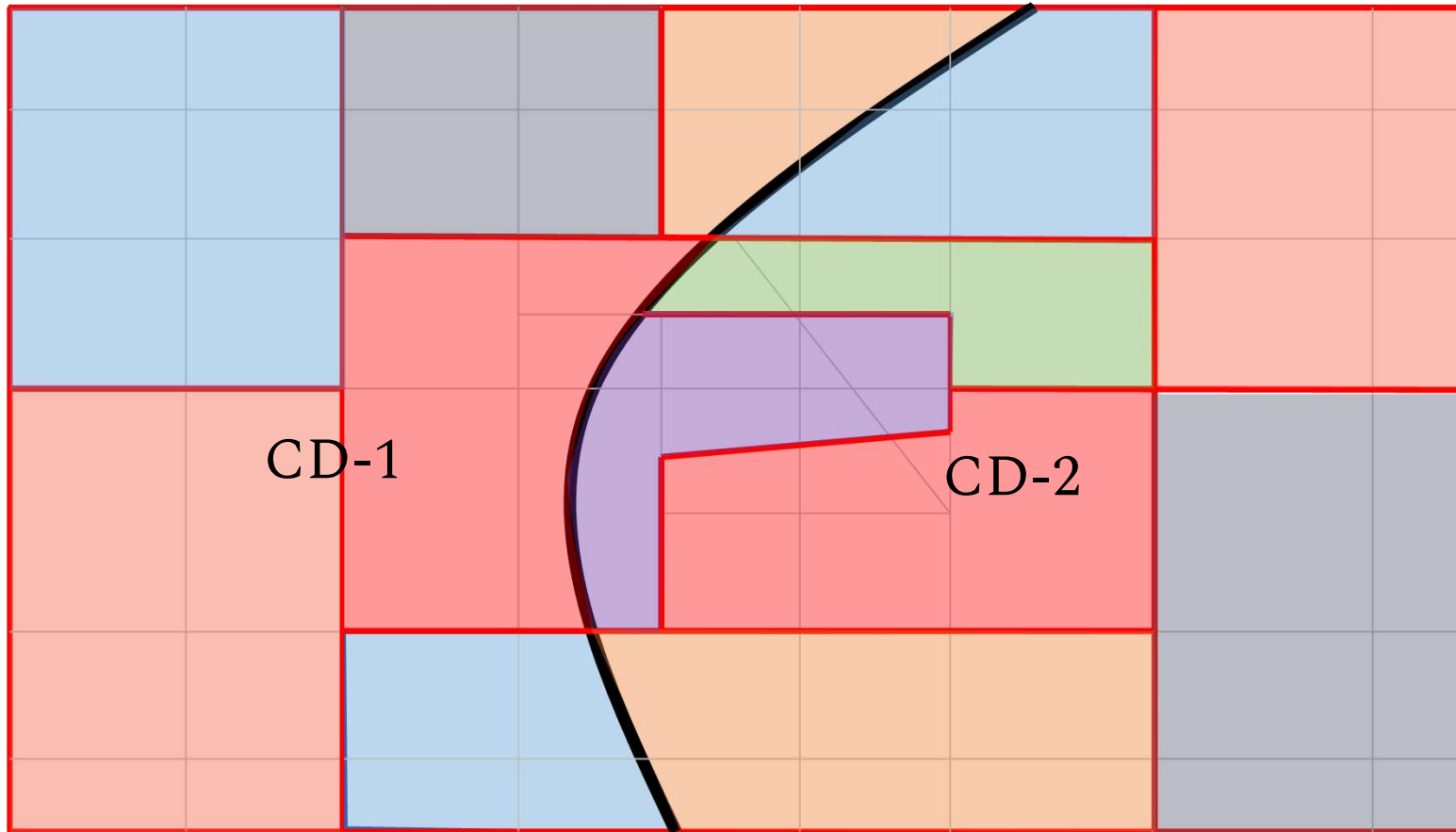
Districts



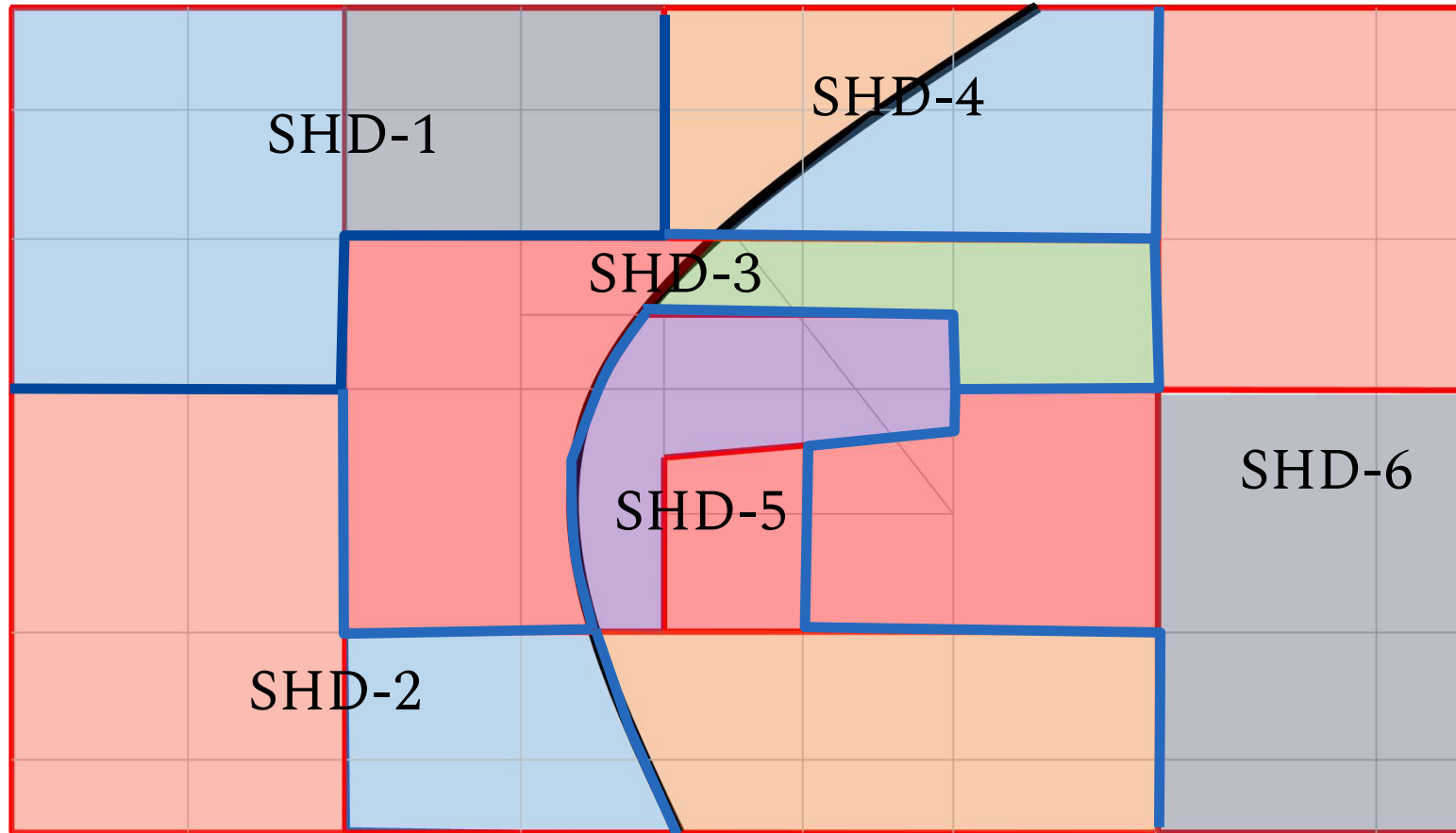
# Voting Tabulation Districts (Precincts)



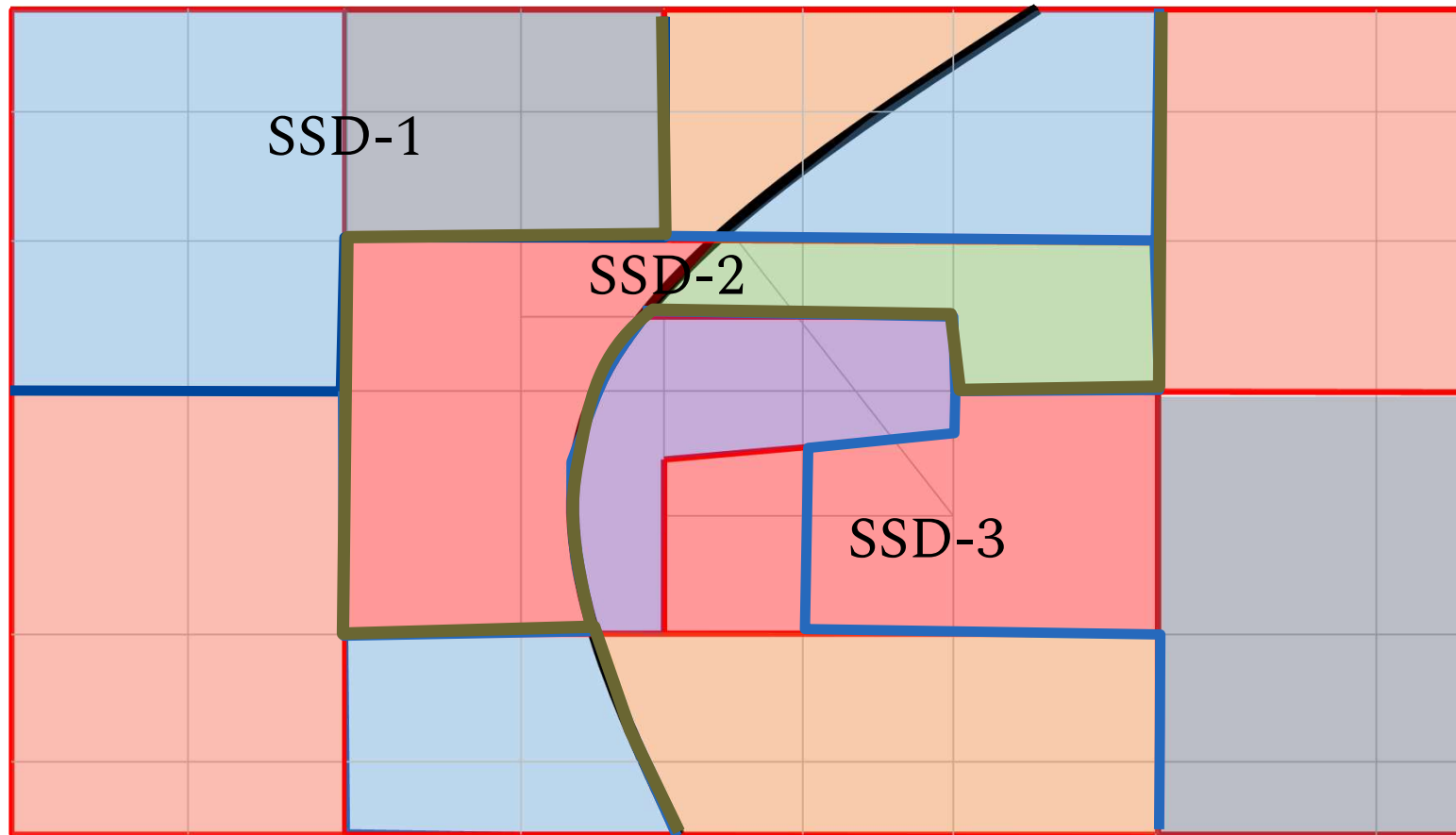
# Congressional Districts



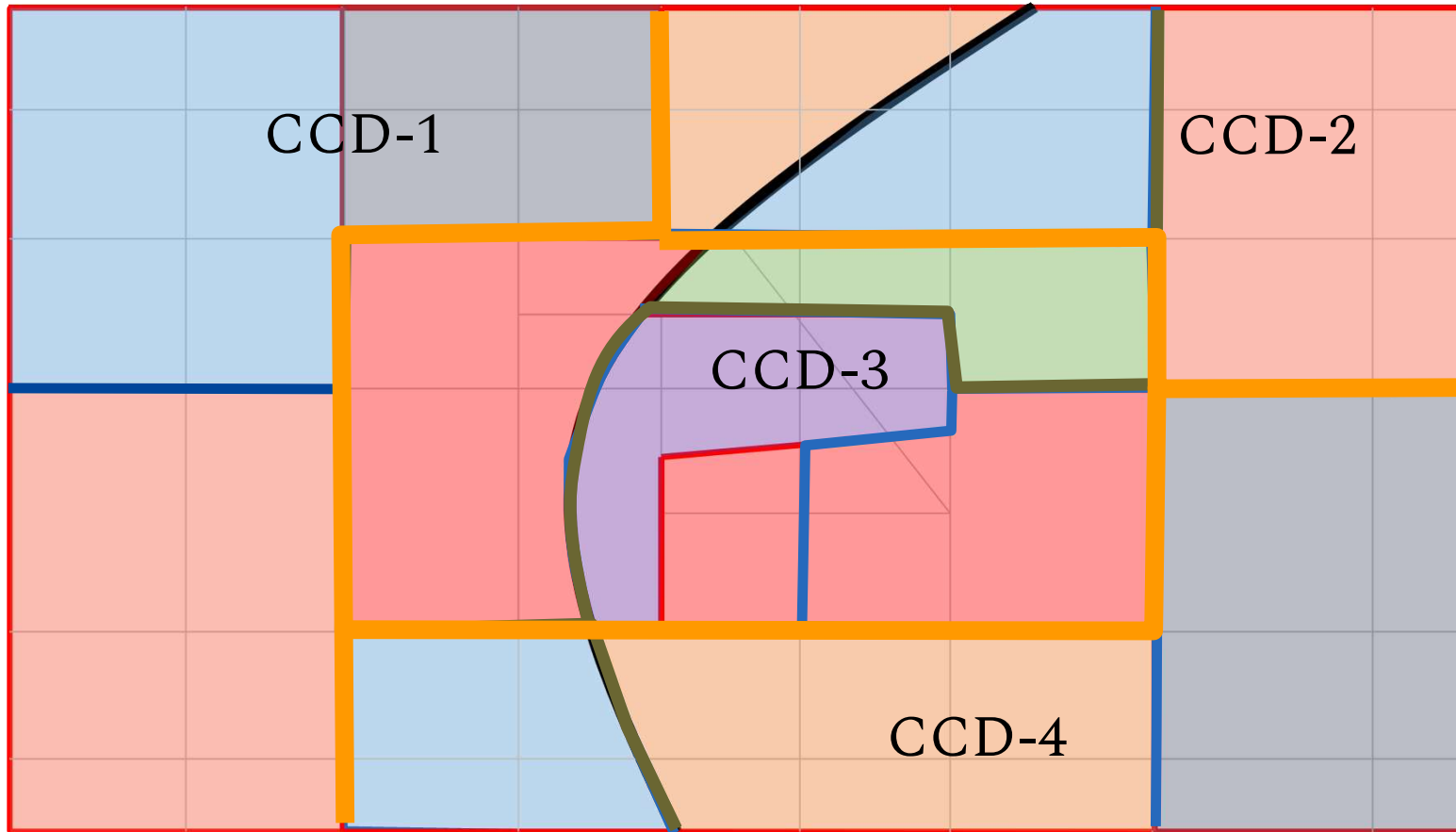
# State House Districts



# State Senate Districts



# County Commission Districts





3.8M active voters





3.8M active voters

6,372 precincts



3.8M active voters

6,372 precincts

8,624 district combos



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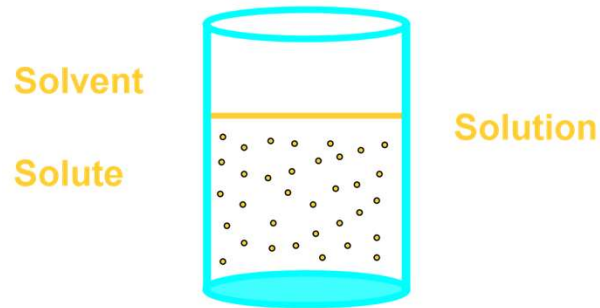
42% of precincts  
have more than 1  
district combo

# THE PROBLEMS

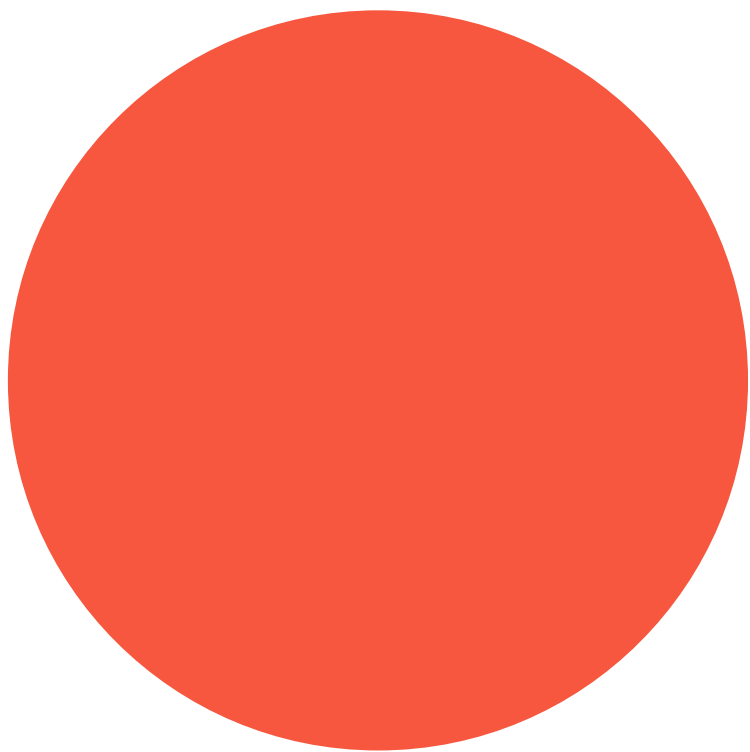
- + The traditional way of drawing maps and translating maps to updated voting files was manual and error-prone.

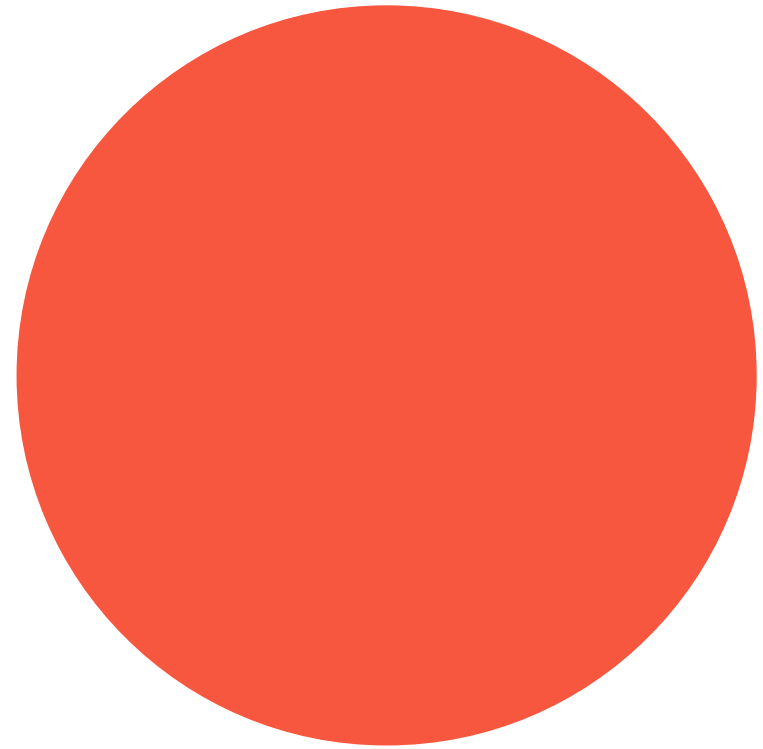
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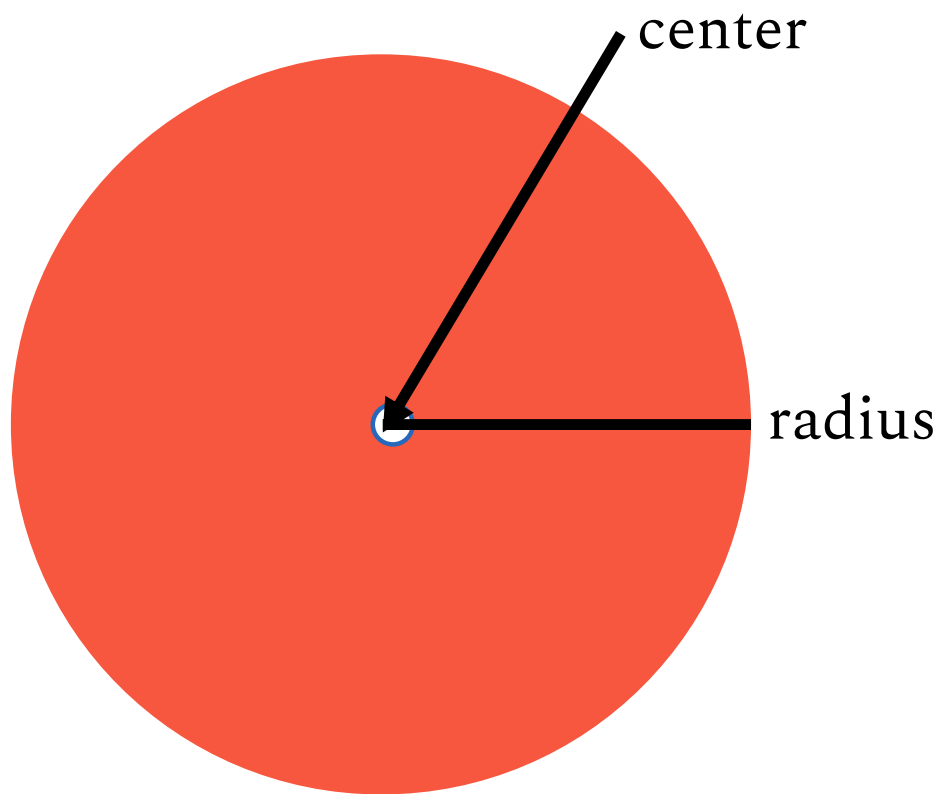


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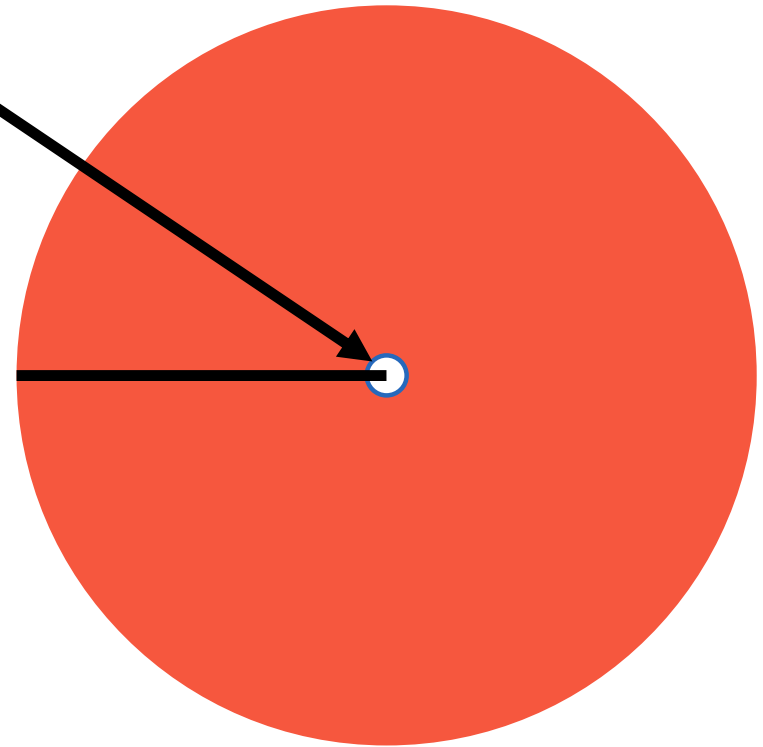


Color it red, the rest is white



new center

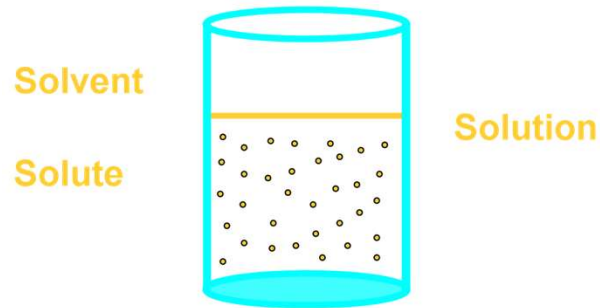
radius



Color it red, the rest is white

# THE PROBLEMS

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- + Voters given the wrong ballot
  - One estimate has 12% of voters being given incorrect ballots
- + Candidates running in the wrong district

Google

voters given wrong ballots



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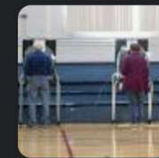
About 1,870 results (0.50 seconds)

AP News

### [Some voters cast wrong ballots in split Nashville district](#)

NASHVILLE, Tenn. (AP) — Election officials said Tuesday that some Tennessee voters have cast ballots in the wrong congressional district in...

Nov 1, 2022



FOX 13 Tampa Bay

### [Wrong ballots sent to 168 Hillsborough County voters following redistricting changes: 'This is not fraud'](#)

The Hillsborough County Supervisor of Elections Office is thanking an eagle-eyed voter for discovering a mishap with the Tampa City Council...

1 month ago



About 12 results (0.29 seconds)

Savannah Morning News

### [Elections Board error causes 4 early votes to go to wrong GA House race](#)

Due to a Board of Elections error, 4 Chatham County voters from Precinct 8-1 will not get a say in their state representative race for May...

May 5, 2022



# The Atlanta Journal-Constitution

Georgia Politics

AJC Peachtree Road Race

Opinion

Sports

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## Georgia candidate running in wrong House district





**NSGIC**  
GEO-ENABLED ELECTIONS

= National States Geographic Information Council

## ELECTION MODERNIZATION WITH GIS



<https://elections.nsgic.org/>







# 253 million eligible



253 million eligible



210 million registered



9.5 million die (5%)

253 million eligible



210 million registered



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90 million move  
within state (43%)

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between states  
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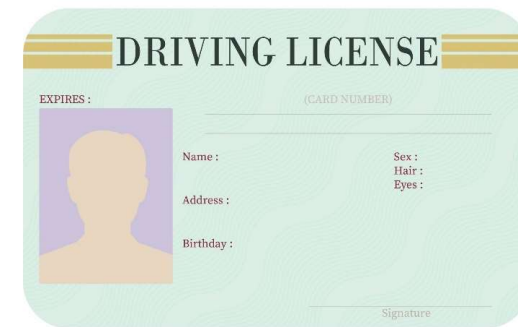
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**DRIVING LICENSE**

EXPIRES : \_\_\_\_\_ (CARD NUMBER) \_\_\_\_\_

Name : \_\_\_\_\_ Sex : \_\_\_\_\_  
Address : \_\_\_\_\_ Hair : \_\_\_\_\_  
Birthday : \_\_\_\_\_ Eyes : \_\_\_\_\_

Signature \_\_\_\_\_

210 million registered



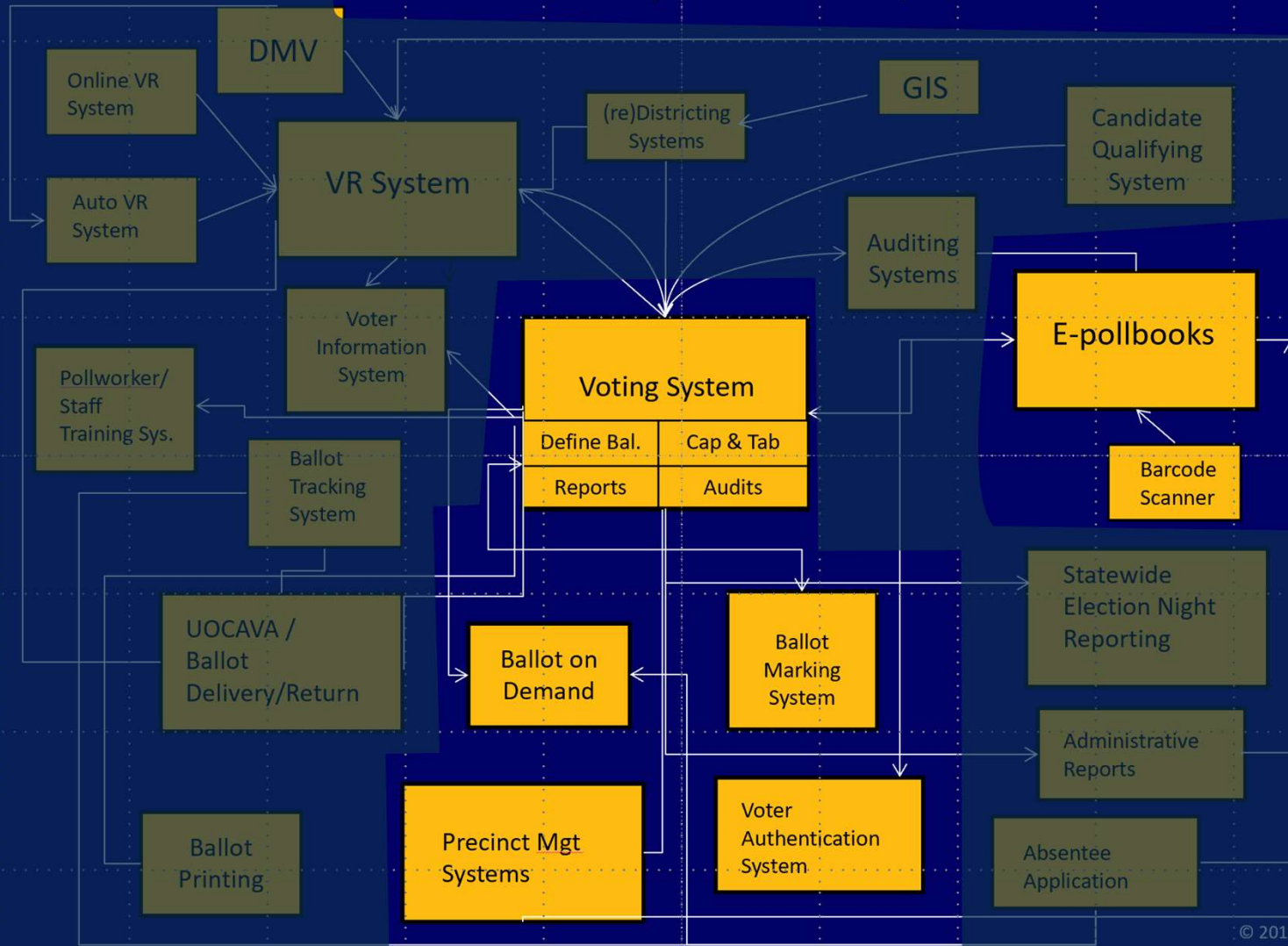
19 million move  
between states  
(9%)

**POSTCARD**

Correspondence

Address

## Interaction of Voting and Election Systems



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1700s to now



1890s to 2010



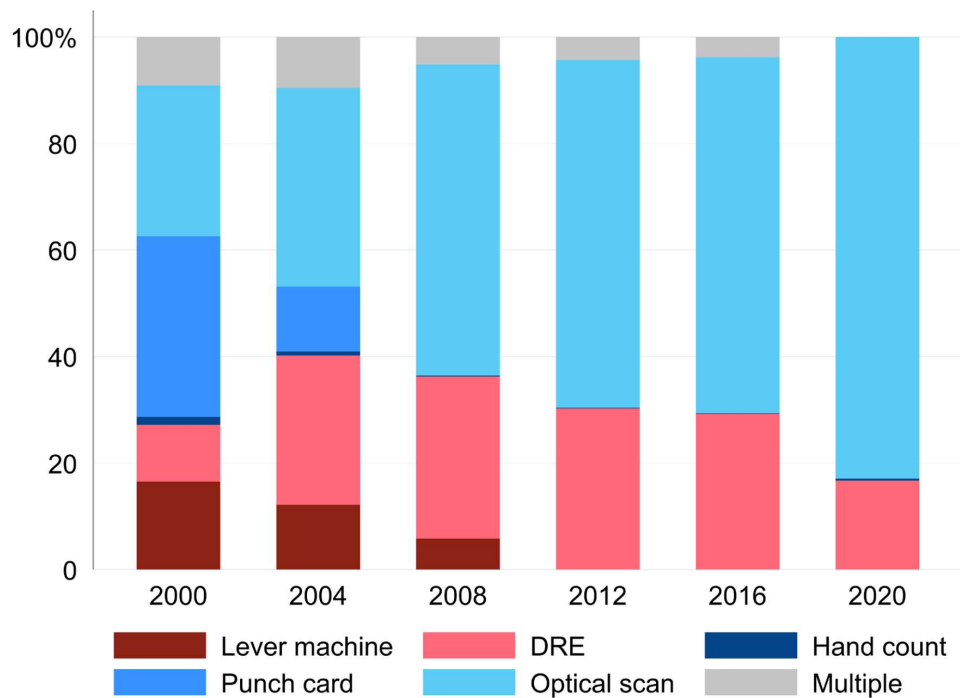
1960s to 2010



1960s to now



1970s to now

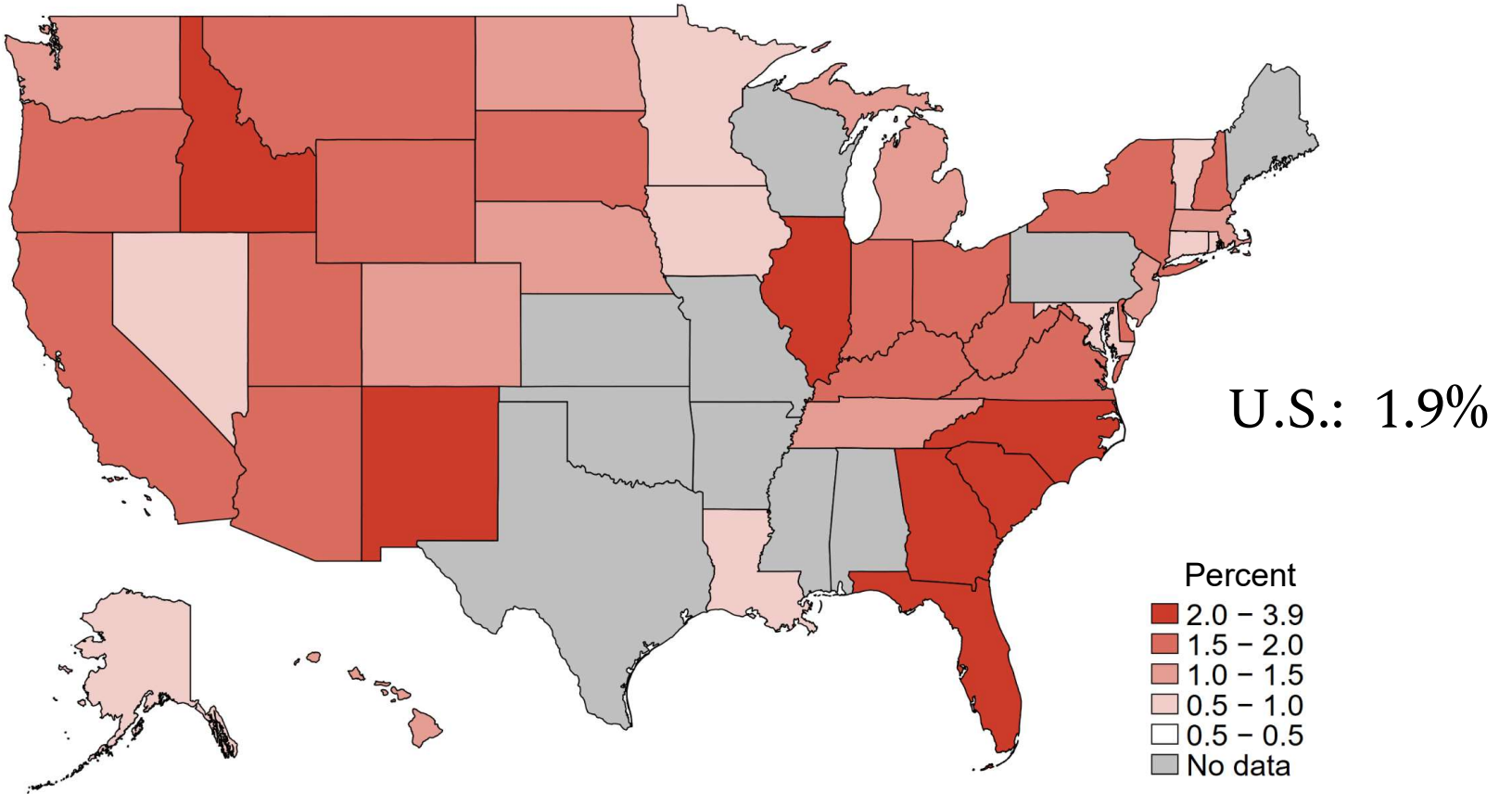


RESIDUAL VOTE RATE IS (ONE) MEASURE OF  
ACCURACY

$$\frac{\textit{Overvotes} + \textit{Undervotes}}{\textit{Turnout}}$$

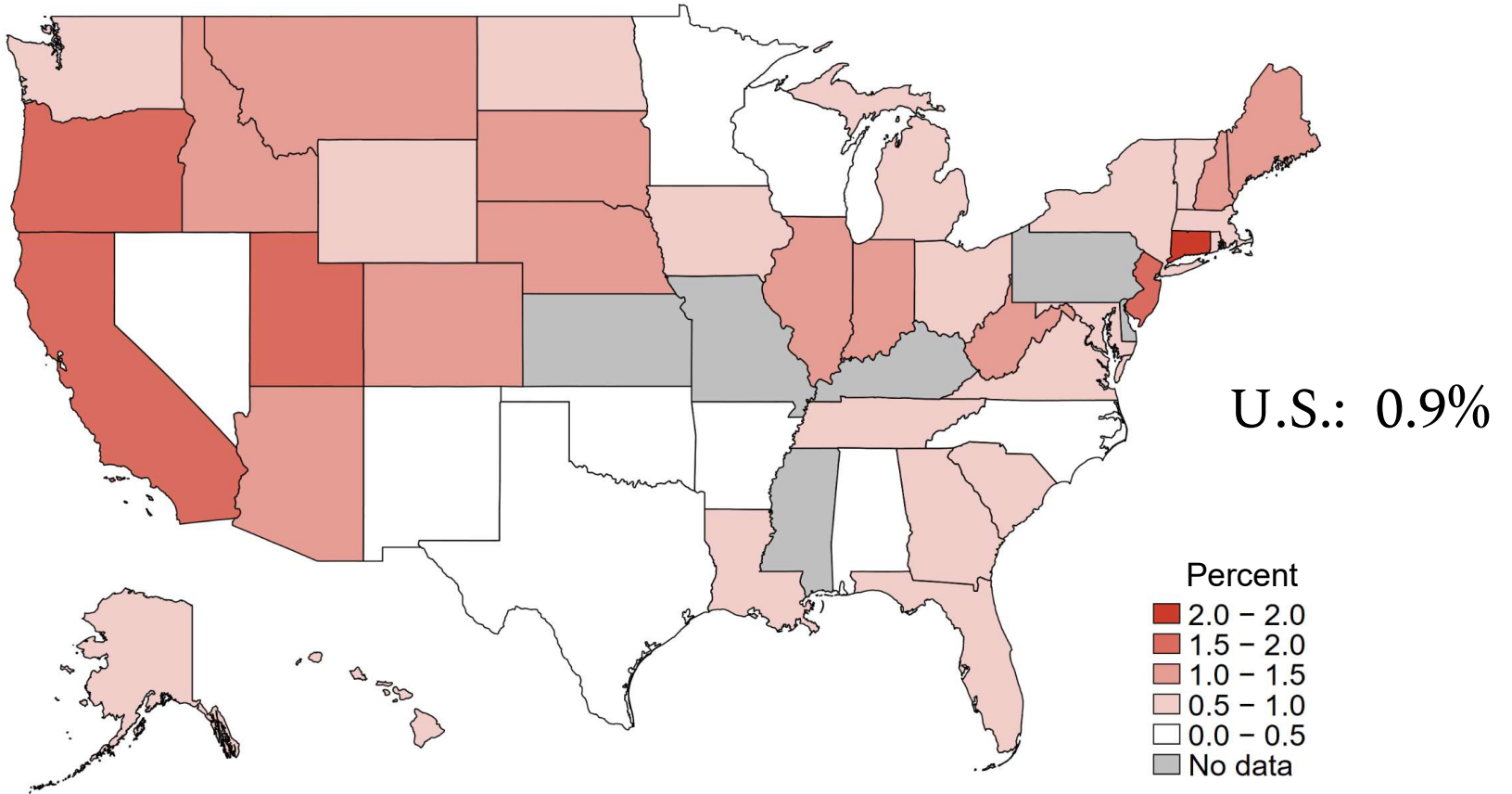


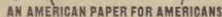
# RESIDUAL VOTE STATISTICS IN 2000





# RESIDUAL VOTE STATISTICS IN 2020





THE WORLD'S GREATEST NEWSPAPER

★ ★

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BY THE CHICAGO TRIBUNE)

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# DEWEY DEFEATS TRUMAN

## G. O. P. Sweep Indicated in State; Boyle Leads in City

# REPUBLICAN TICKET AHEAD OF 1944 VOTE

## Town Balloting Gives Trend

### Probable Winners

SENATOR—Wayland Brooks (R.)  
GOVERNOR—Dwight H. Green  
(R.)  
LT. GOV.—Richard Yates Rowe  
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SECRETARY OF STATE—William G. Stratton (R.)  
AUDITOR—Simon A. Murray (R.)  
TREASURER—Elmer H. Droste  
(R.)  
ATTY. GEN.—George F. Barrett  
(R.)

BY ARTHUR EVANS

## Tops Coghlan in Hot Race for Attorney

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STATE'S ATTORNEY—John S. Boyle (D.) or Malachy J. Coghlan (R.)

RECORDER OF DEEDS—Victor L. Schlaeger (D.)

CIRCUIT COURT CLERK—John E. Conroy (D.) or Mrs. Mabel Reynolds (R.)

CORONER—\*A. L. Brodie (D.) or Frank Kaitzeu (R.)

SUPERIOR COURT CLERK—\*Henry Sonnenschein (D.)

SANITARY DISTRICT TRUSTEES (3)—Frank W. Chesrow (D.), John A. Cullerton (D.), and Castimere Brick (D.) or Walter E. McCann (R.)

MUNICIPAL COURT BAILIFF—\*Albert J. Homan (D.)

MUNICIPAL COURT CLERK—Joseph L. Gill (D.)

\*Re-elected.

BY GEORGE TAGGE  
Heavy Democratic  
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fices.

# RECORD CITY VOTE SEEN IN LATE TALLIES

## Suburban Ballot Near 375,000

A high record vote seemed certain for Chicago yesterday in the first post-war Presidential election. A turnout of 1,900,000 was indicated in the final sampling of precincts in each of the 50 wards, according to Chief Clerk John S. Rusch of the Chicago election board. This prediction was based on a projection of 1,789,776 one hour before the polls closed.

TOPS 1944 RECORD  
The old record was  
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## BULLETINS ON ELECTIONS

## COOK COUNTY

resident--749 pcts.  
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Dewey R 128,916. Wal-  
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524 pcts. of 5023 in  
Cook county: Boyle D  
134,682, Coghlan R80,-  
100. Heller P 3,959.

Secretary of state--  
14 pcts. of 4143 in  
Chicago: Barret D 4,-  
003, Stratton R 1,494.  
State treasurer --14  
pcts. of 4,143 in Chi-  
cago: Smith D 3,994,  
Droste R 1,475.

Secretary of State--  
4 precincts of 9,231  
in Illinois, Barrett D  
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## NATION

Birmingham, Ala..  
Nov. 2 (AP)-Gov. Thurmond, the State Rights Democratic candidate, won Alabama's 11 electoral votes.

Alabama 2 boxes of  
2.408, Thurmond 116,  
Dewey 37, Wallace 3.

Arkansas--2 distri-  
cts of 2,217 Truman 85;  
Dewey 2, Wallace 2.

Florida--60 pre-  
cincts of 1,523. Dewey  
2,083. Thurmond 3,173.

Truman 11,657, Wallace 1,151; governor, 39 precincts. Acker R 2,369, Warren D 9,743.

Georgia-105 out of  
1,736 precincts Truman  
2,272. Dewey 325.  
Thurmond 690. Wallace

Ohio-1,575 polling  
places of 9,710. Tru-  
man 187,830. Dewey  
221,233. Wallace 1-  
389; governor, 32 pol-  
ling places Herbert R  
3,264. Lausche D 2,-  
978.

Oklahoma-senator 2  
precincts of 3701 Kerr  
D 164 Rizley R 89.

Rhode Island-4 dis-  
tricts of 266, Truman  
545, Dewey 1,294, Wal-  
lace 9.

Rhode Island senator. 4 districts of 266; Green D 557, Hazard B 1.237.

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## Early Count Gives G.O.P. Senate Edge

BY WALTER TROHAN

Republicans took an early lead in one of the hottest campaigns in history for control of the senate. G.O.P. retention of control of the senate seemed assured when New Mexico appeared to be deserting solid Democratic rule.

Patrick J. Hurley, Republican, took an early lead over former Agriculture Secretary Anderson in New Mexico, one of eight pivotal states. This offset what was expected to be a certain Democratic gain in Oklahoma, where former Gov. Kerr, Democrat, leaped ahead of Rep. Risley (R.). The G.O.P. was also ahead in Kentucky where Sen. Cooper (R.) led Rep. Chapman

# PUTS G.O.P. BACK IN THE WHITE HOUSE

## Sizable Electoral Margin Seen

**BY ARTHUR SEARS HENNING**

Dewey and Warren won a sweeping victory in the Presidential election yesterday.

The early returns ticket leading Truman against Dewey showed that Dewey won the Presidency by an overwhelming majority of electoral votes.

Herbert Brownell, manager of the Dewey campaign, claimed on







# Chicago Daily Tribune

HOME

VOL. CVII - NO. 264

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Georgia--105 out of 1,736 precincts Truman 2,272, Dewey 325, Thurmond 690, Wallace

Ohio--1,155 polling places of 1,710, Truman 187,600, Dewey 231,233, Wallace 1,389; governor, 12 polling places, Harts R 3,264, Lausche D 978.

Oklahoma--senator 2 precincts of 3701 Kerr D 164, Risley R 89.

Rhode Island--4 districts of 266, Truman 545, Dewey 1,294, Wallace 9.

Rhode Island senator 266; Green D 557, Hazard R 1,237.

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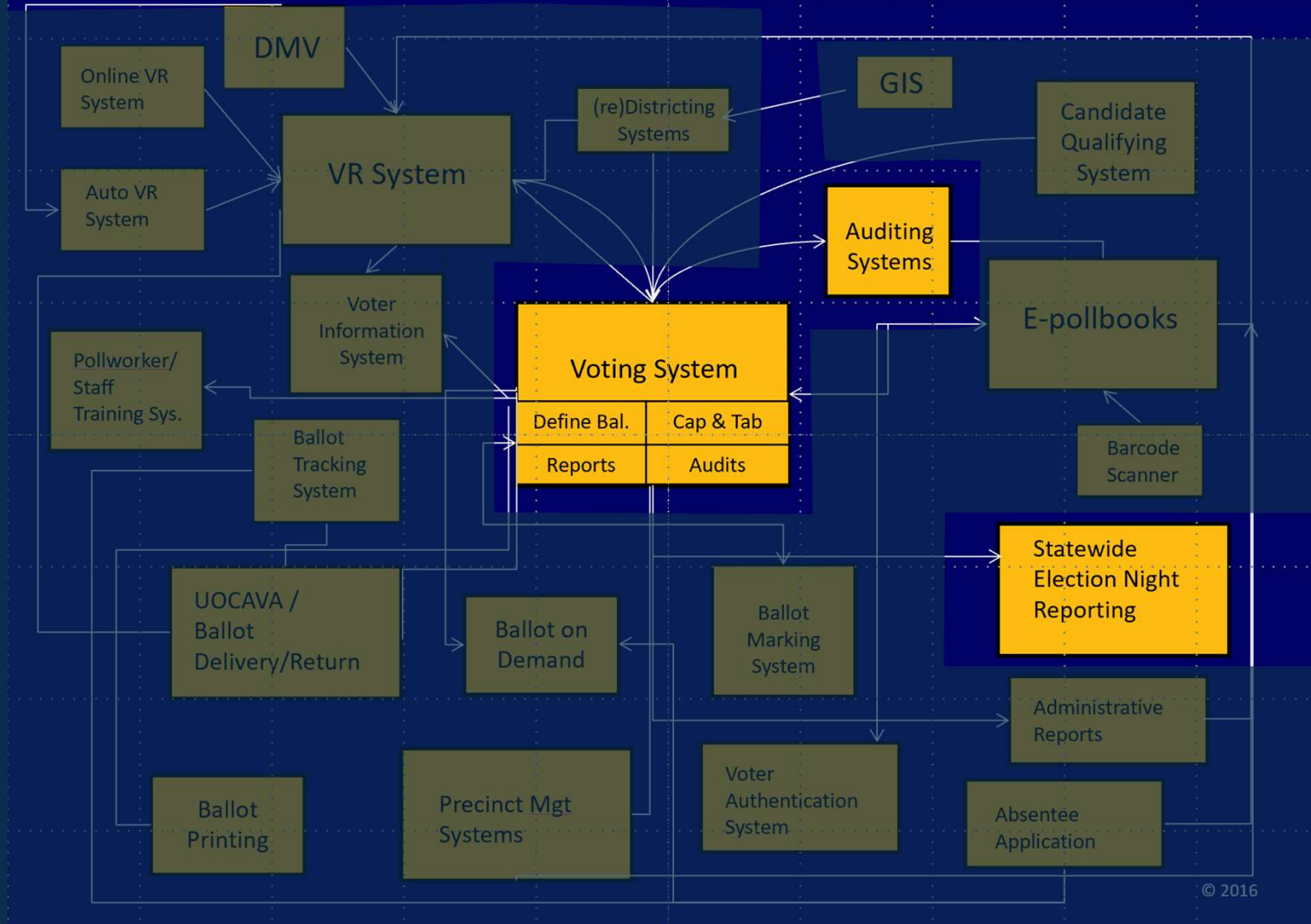
Dewey and Warren won a sweeping victory in the Presidential election yesterday.

The early returns showed the Republican ticket leading Truman in the electoral college. The early returns would disclose that Dewey won the Presidency by an overwhelming majority of electoral votes.

Herbert Brownell, manager of the Dewey campaign, claimed on



## Interaction of Voting and Election Systems









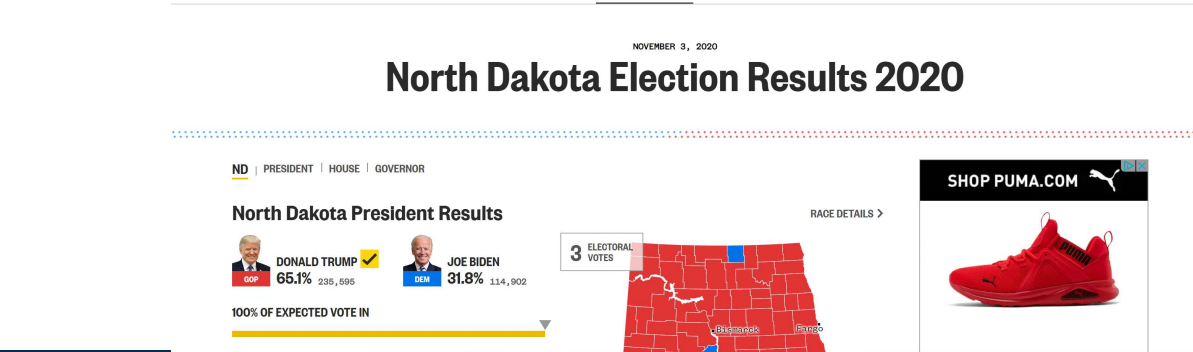
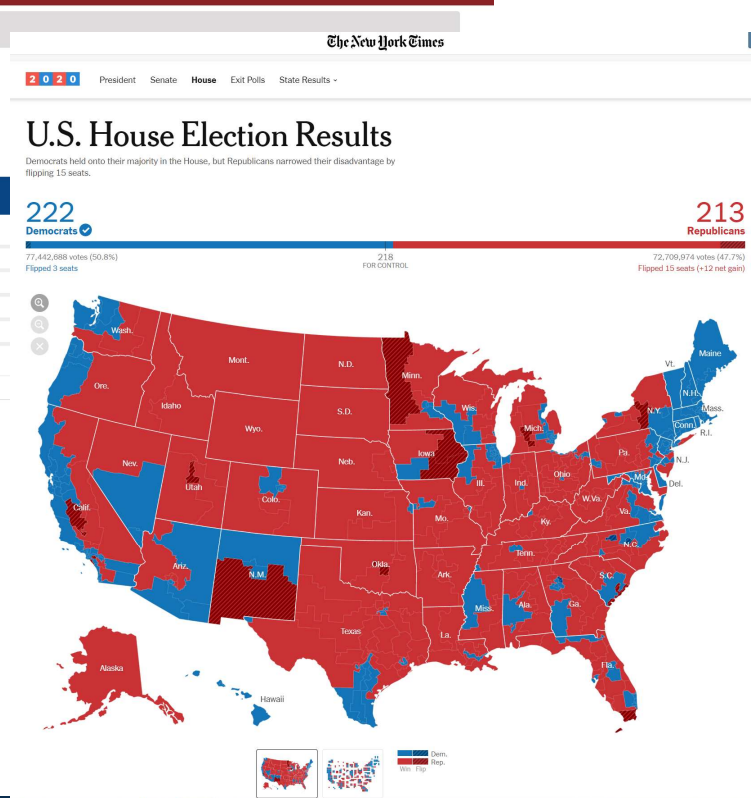
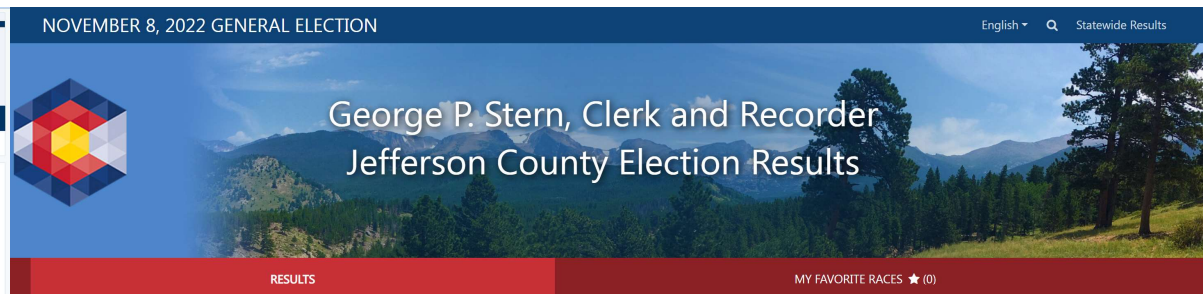
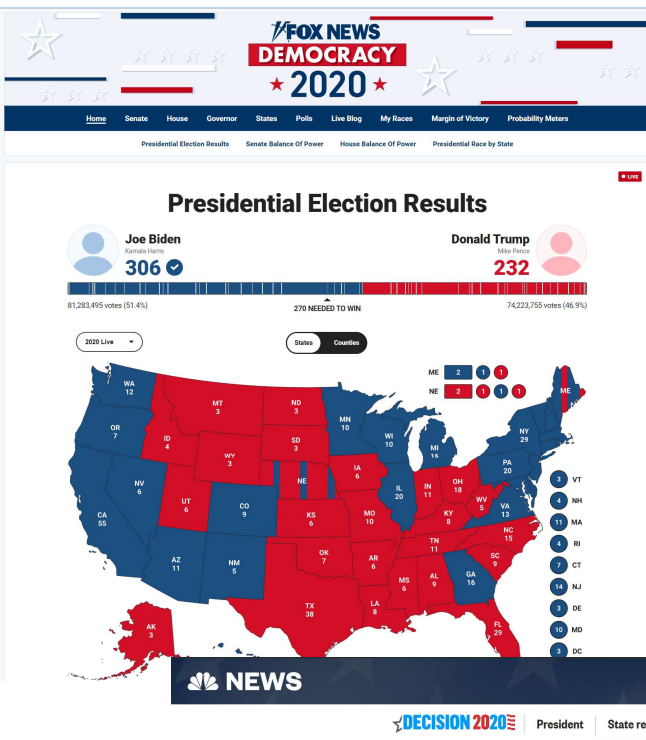
# RESEARCH

Using data-driven scientific analysis, we strive to better understand how elections function in the U.S. Here we provide a guide to core research by MEDSL and others in this area.

[• PROJECTS](#)[PAPERS + REPORTS](#)[EXPLAINERS](#)



- + Individual ballots examined: 1,079,499
  - 480 (0.044% or 4.4/10,000) had at least one discrepancy
- + 30,407,442 candidates received votes on these ballots
  - 6,763 (0.022%, or 2.2/10,000) saw the vote go to another candidate in the audit.



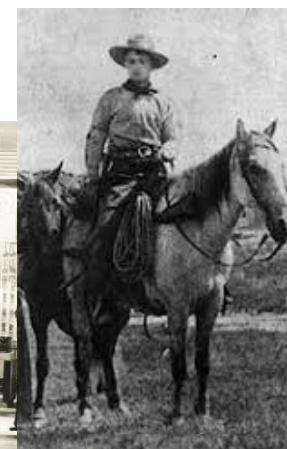
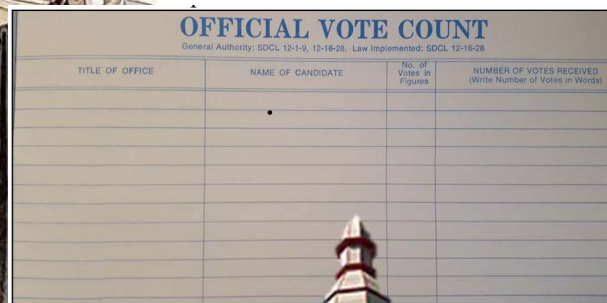






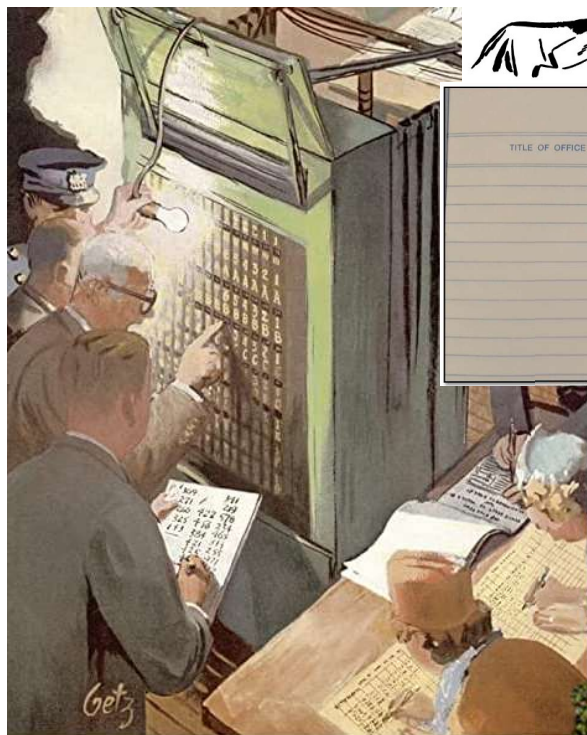














# The New-York Times.

VOL. X.—NO. 2849.

NEW-YORK, WEDNESDAY, NOVEMBER 7, 1860.

PRICE TWO CENTS.

## THE PRESIDENTIAL ELECTION.

### ASTOUNDING TRIUMPH OF REPUBLICANISM.

The North Rising in Indignation at the Menaces of the South.

Abraham Lincoln Probably Elected President by a Majority of the Entire Popular Vote.

Forty Thousand Majority for the Republican Ticket in New-York.

One Hundred Thousand Majority in Pennsylvania.

Seventy Thousand Majority in Massachusetts.

Corresponding Gains in the Western and North-Western States.

Preponderance of John Bell and Conservatism at the South.

Results of the Contest upon Congressional and Local Tickets.

## NEW-YORK CITY.

### VOTE ON THE PRESIDENTIAL TICKET.

#### FIRST WARD.

	Republican.	Fusion.
First District.....	143	430
Second District.....	104	362
Third District.....	107	319
Fourth District.....	92	114
Fifth District.....	96	188
Total.....	504	1440
Majority.....	936	

#### SECOND WARD.

First District.....	119	214
Second District.....	103	204
Third District.....	103	206
Fourth District.....	103	210
Majority.....	222	

#### THIRD WARD.

First District.....	90	127
Second District.....	75	127
Third District.....	86	174
Fourth District.....	35	51
Total.....	286	579
Majority.....	293	

#### FOURTH WARD.

First District.....	189	346
Second District.....	149	240
Third District.....	144	281
Fourth District.....	40	44
Fifth District.....	37	232
Sixth District.....	21	184
Seventh District.....	48	123
Total.....	528	1305
Majority.....	1305	

#### FIFTH WARD.

First District.....	139	240
Second District.....	92	147
Third District.....	148	291
Fourth District.....	219	369
Fifth District.....	137	273
Sixth District.....	140	258
Seventh District.....	89	250
Eighth District.....	89	2150
Total.....	1133	2150
Majority.....	1018	

#### SIXTH WARD.

First District.....	24	46
Second District.....	26	46
Third District.....	57	260
Fourth District.....	37	310
Fifth District.....	38	466
Sixth District.....	55	727
Seventh District.....	21	162
Eighth District.....	70	230
Ninth District.....	28	462
Total.....	396	2617
Majority.....	2421	

#### SEVENTH WARD.

First District.....	136	246
Second District.....	79	445
Third District.....	148	214
Fourth District.....	95	193
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## ELECTION DAY IN THE CITY.

### ALL QUIET AND ORDERLY AT THE POLLS.

#### Progress of the Voting in the Several Wards.

WATERBURY COUNTY.—West Farms.—The Union Electoral ticket has a majority of 147; Kelly, 475; Morgan, 379; Brady, 54. Congress, Haught, Union, majority 125.

#### MASSACHUSETTS.

Boston, Tuesday, Nov. 6.  
One Hundred and Forty-nine towns, not including Boston, give Lincoln, 53,399; Douglas, 15,724; Breckinridge, 1,197. These towns comprise about half the State. Lincoln's plurality can hardly be less than 70,000.

Mr. Andrew is elected Governor by about the same vote. The Legislature is largely Republican. Alexander H. Rice is re-elected to Congress in the Fourth District.

Amos Burlingame is defeated in the Fifth District. In the Ninth District Geo. F. Bailey is elected to Congress by 1,800 majority over Mr. Thayer.

The Republicans have carried all the Congressional Districts, except the Fifth, in which Mr. Burlingame is defeated.

#### CONNECTICUT.

Mr. Lincoln has 276 majority and 1,346 plurality. Six towns, including Hartford, show a Republican gain over last Spring, of 1,915. Lincoln's majority in the State will be several thousand.

Norwich.—Lincoln, 1,237; Douglas, 602; Hancock, 72; Bell, 35.

Westport.—Lincoln, 208; Douglas, 62; Fusion, 215. Reading.—Lincoln, 176; Hancock, 66; Douglas, 3.

Ridgefield.—Lincoln, 290; Union, 29; Douglas, 4; Breckinridge, 112.

New-Canaan.—Lincoln, 368; Douglas, 13; Breckinridge, 8; Union, 182; Bell, 6.

Walton.—Lincoln, 237; Douglas, 29; Breckinridge, 84; Bell, 10.

Bridgeport.—Lincoln, 1,110; Breckinridge, 602; Douglas, 473; Bell, 29.

Fairfield.—Lincoln, 296; Breckinridge, 169; Douglas, 11; Bell, 30.

Easton.—Lincoln, 121; Breckinridge, 65; Douglas, 5.

Monroe.—Lincoln, 113; Breckinridge, 137; Douglas, 6; Bell, 1.

Huntington.—Lincoln, 150; Breckinridge, 121; Douglas, 19; Bell, 8.

Weston.—Lincoln, 35; Breckinridge, 99; Douglas, 1; Bell, 2.

Trumbull.—Lincoln 161; Breckinridge 144; Doug-
















## Duval County

Mike Hogan, Supervisor of Elections

### 2023 Duval First Unitary

(Website last updated at: 03/24/2023 4:35:42 pm) Election Date: 3/21/2023

Registered Voters: 655,403	Precincts Reporting: 186 / 186
Ballots Counted: 168,263	Election Day: Completely Reported
Voter Turnout: 25.67%	Early Votes: Completely Reported
	Vote By Mail: Completely Reported

#### OFFICIAL RESULTS

[Summary Results](#) [Precinct Results](#) [Maps](#) [Reports](#) [Favorite Races](#)

Change View

Vote Type View: Graphical

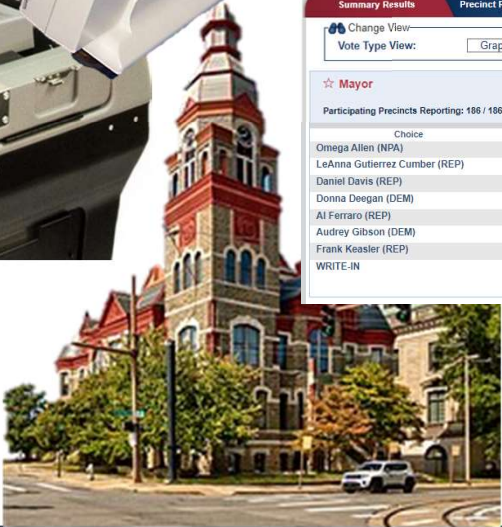
☆ Mayor

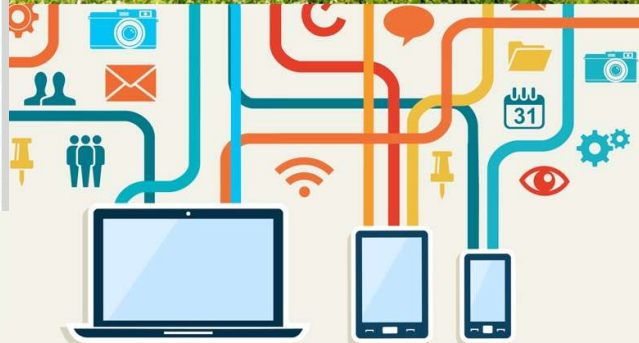
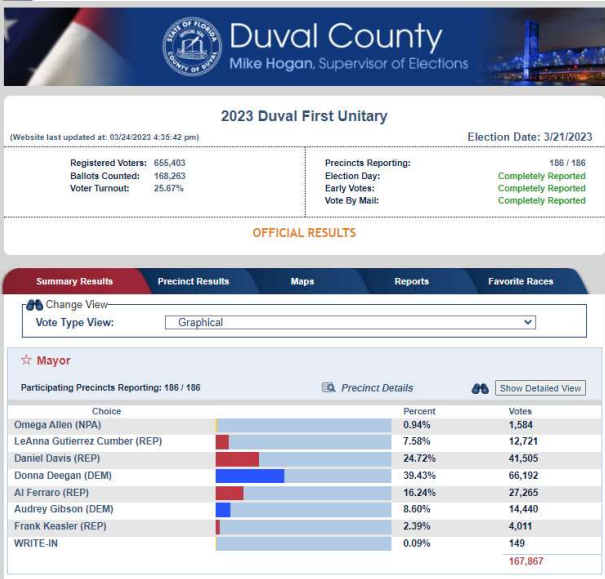
Participating Precincts Reporting: 186 / 186

[Precinct Details](#)

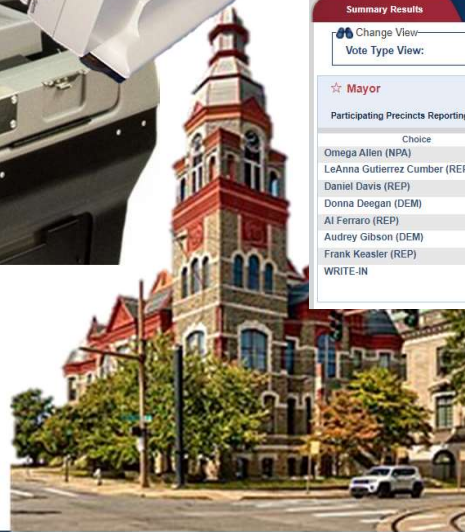
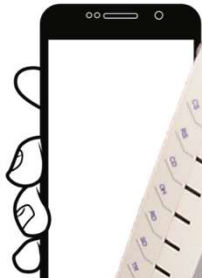
[Show Detailed View](#)

Choice	Percent	Votes
Omega Allen (NPA)	0.94%	1,584
LeAnna Gutierrez Cumber (REP)	7.58%	12,721
Daniel Davis (REP)	24.72%	41,505
Donna Deegan (DEM)	39.43%	66,192
Al Ferraro (REP)	16.24%	27,265
Audrey Gibson (DEM)	8.60%	14,440
Frank Keasler (REP)	2.39%	4,011
WRITE-IN	0.09%	149
		167,867











## Duval County

Mike Hogan, Supervisor of Elections

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OFFICIAL RESULTS

Summary Results   Precinct Results   Maps   Reports   Favorite Races

Change View  
Vote Type View:

☆ Mayor

Participating Precincts Reporting

Choice

- Omega Allen (NPA)
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- Donna Deegan (DEM)
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- WRITE-IN



GEORGIA SECRETARY OF STATE BRAD RAFFENSPERGER

## November 8, 2022

General/Special Election

RESULTS

MY FAVORITE RACES: ☆ (0)

COUNTIES REPORTING

TURNOUT

Federal and Statewide Offices

State District Offices

Official & Complete Results

### RESULTS

Last updated: Monday, November 21, 2022, 3:05:01 PM (4 months ago)

☆ Federal and Statewide Offices

★ United States Senate: [View Full](#)

Candidates/Precincts Reporting 100%	Percentage	Votes
Herschel J. Walker (REP)	41.4%	1,308,442
Raphael Warnock (D) (SEN)	49.44%	1,546,117
Chase Oliver (LIB)	2.07%	61,363

State Constitutional Offices

★ Governor: [View Full](#)

COUNTIES/PRECINCTS REPORTING

100% COUNTIES REPORTING

COUNTIES COMPLETE 159/159


PRECINCTS COMPLETE 2722/2722

VOTER TURNOUT

TOTAL 57.02%








## Duval County

Mike Hogan, Supervisor of Elections



### 2023 Duval First Unitary

(Website last updated at: 5/23/2023 4:26:42 pm)

Registered Voters:	656,413
Ballots Cast/Total:	182,263
Voter Turnout:	25.67%

**Precincts Reporting:** 136 / 136

**Election Day:** Completed / Reported

**Early Votes:** Completed / Reported

**Vote by Mail:** Completed / Reported

**OFFICIAL RESULTS**

Summary Results	Precinct Results	Maps	Reports	Favorite Races
<div style="display: flex; justify-content: space-between; align-items: center;"> <span>Change View</span> <span> <input type="text" value="Graphical"/> </span> <span>▼</span> </div>				
<div style="display: flex; justify-content: space-between; align-items: center;"> <span>Mayor</span> <span> <a href="#">Precinct Details</a> </span> <span> <a href="#">Show Detailed View</a> </span> </div>				

Choice		Percent	Votes
Omiga Adani (INRA)	<div style="width: 6.94%; background-color: #003366;"></div>	6.94%	1,284
LeKeano Gableman Cumber (REP)	<div style="width: 7.58%; background-color: #003366;"></div>	7.58%	12,721
Daniel Davis (REP)	<div style="width: 24.72%; background-color: #003366;"></div>	24.72%	46,505
Donna Deegan (DEM)	<div style="width: 38.43%; background-color: #003366;"></div>	38.43%	66,192
Al Ferraro (REP)	<div style="width: 16.24%; background-color: #003366;"></div>	16.24%	27,265
Anthony Gibson (DEM)	<div style="width: 8.05%; background-color: #003366;"></div>	8.05%	14,440
Frank Kessler (REP)	<div style="width: 2.39%; background-color: #003366;"></div>	2.39%	4,011
WRITE IN	<div style="width: 0.09%; background-color: #003366;"></div>	0.09%	149

167,867

# GEORGIA SECRETARY OF STATE BRAND RAFFENSPERGER

## November 8, 2022

Official Results for the 2022 General Election

[RESULTS](#)

[MY VOTING BALLOT](#)

[ELECTIONS LEGAL PAGE](#)

[CONTACT](#)

State and US Elections Portal

**Official & Complete Results**

### RESULTS

Results for November 8, 2022 00:00:00 PST (11 months ago)

**Federal and Statewide Offices**

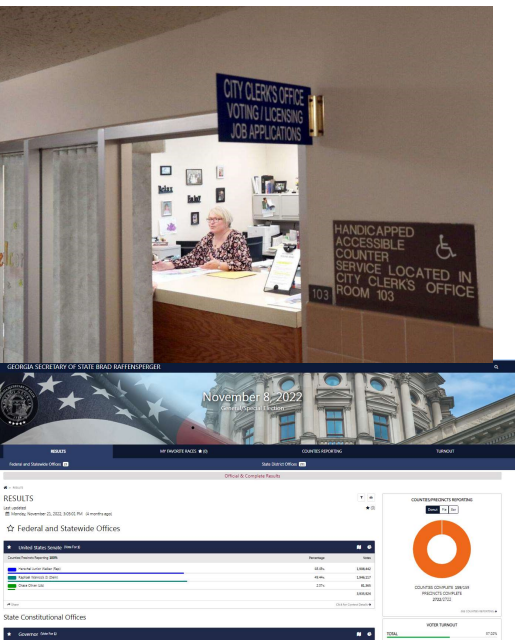
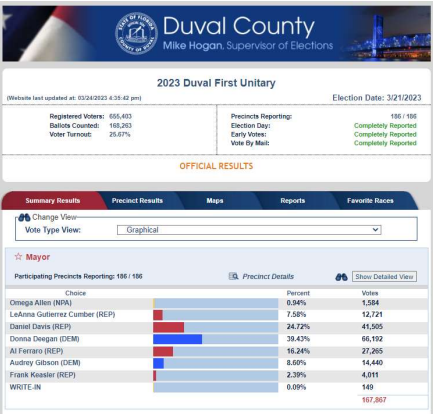
#### US House District 10 - Primary

Countdown to Election: 11 months, 11 days, 11 hours, 11 minutes, 11 seconds

Candidate	Percentage	Count
David C. Bonior	45.2%	1,040,412
David C. Bonior	45.2%	1,040,412
David C. Bonior	45.2%	1,040,412
David C. Bonior	45.2%	1,040,412
David C. Bonior	45.2%	1,040,412







NATIONAL ELECTION POOL

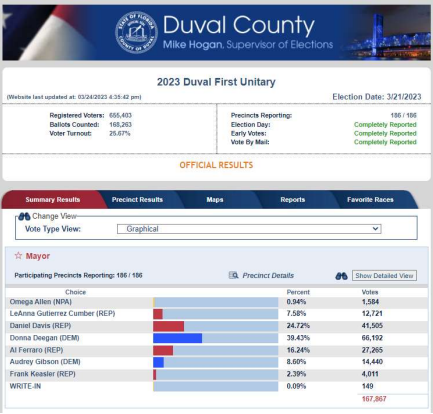
abc CBS CNN NBC NEWS

# ELECTION DAY COVERAGE

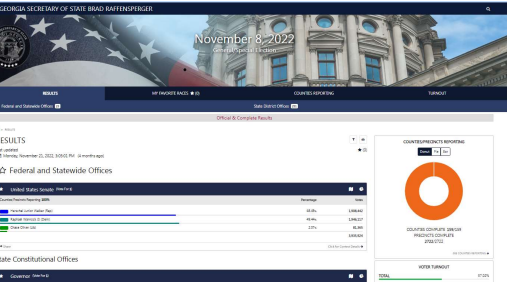
CONDUCTED BY EDISON RESEARCH  
DISTRIBUTED BY REUTERS

*The definitive source for accurate, timely and comprehensive election data:  
Exit Polls, Vote Count, Election Projections, Delegate Estimates*





**AP  
ELECTIONS**



NATIONAL ELECTION POOL

abc CBS CNN NBC NEWS

**ELECTION DAY  
COVERAGE**


CONDUCTED BY EDISON RESEARCH  
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A diagram illustrating a quantum circuit. Two paths, one blue and one red, enter from the left. The blue path has a small loop and then a larger loop that goes around a cluster of red and blue stars. The red path has a small loop and then a larger loop that goes around the same cluster of stars. Both paths exit to the right. A vertical black line is positioned to the right of the star cluster.

# AP ELECTIONS



NATIONAL ELECTION POOL

abc CBS CNN NBC NEWS

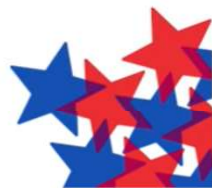
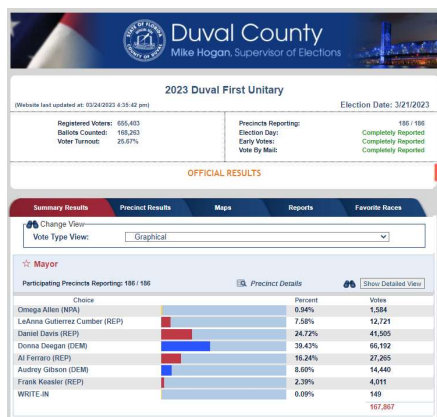
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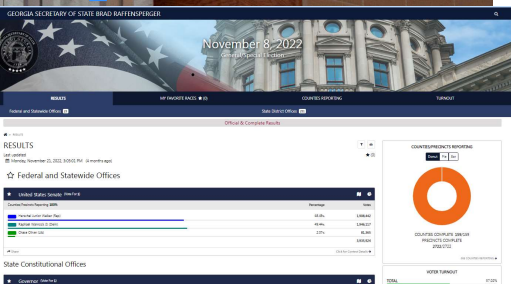
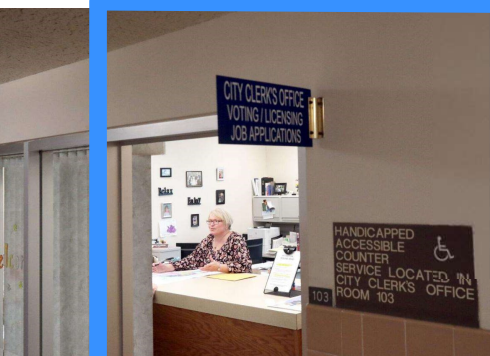
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# AP ELECTIONS



NATIONAL ELECTION POOL

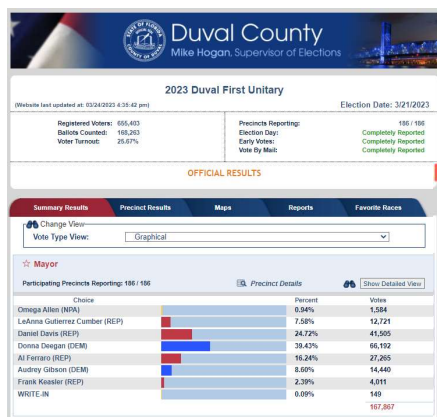
abc CBS CNN NBC NEWS

## ELECTION DAY COVERAGE

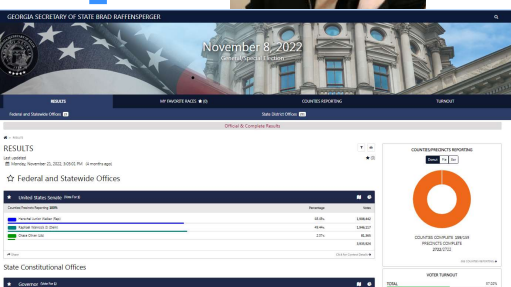
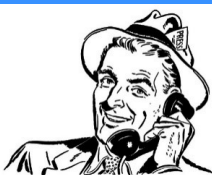
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# AP ELECTIONS



NATIONAL ELECTION POOL

abc CBS CNN NBC NEWS

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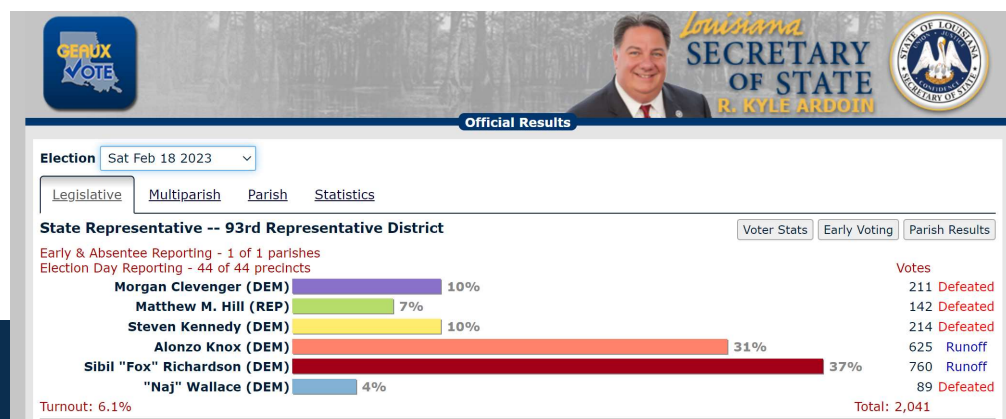
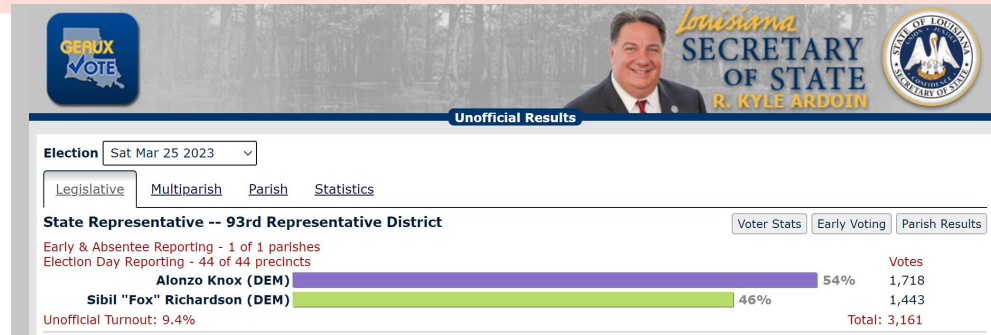


# ENR ISSUES



# ENR ISSUES

Confusion between *official election results* and *reports of unofficial election returns*

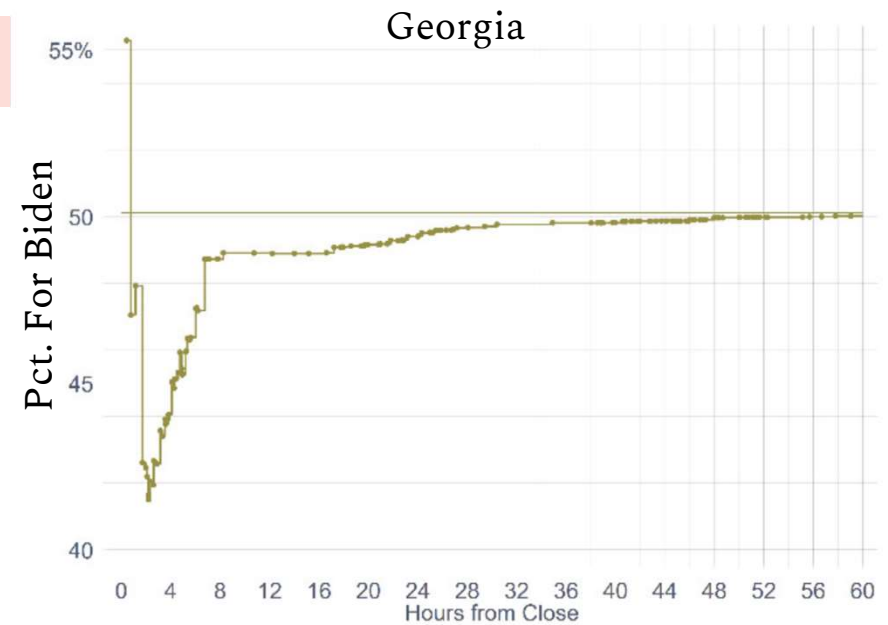




# ISSUES

Confusion between *official election results* and *reports of unofficial election returns*

Blue Shift/Red Mirage



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Phantom Voters

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Discrepancies between government and media reports



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Phantom Voters

Errors

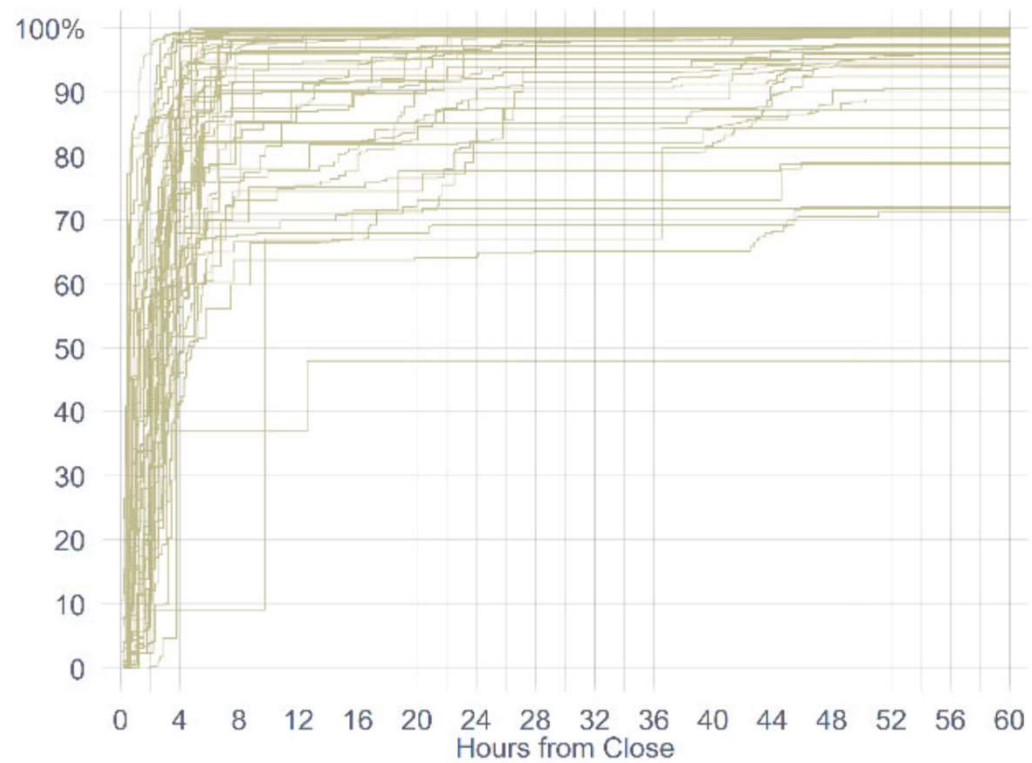
Discrepancies between state and county results

Discrepancies between government and media reports

Vulnerability of ENR systems to cyber attacks

# ISSUES

## Speed of reporting



# POLICY CONSIDERATIONS FOR ACCURATE AND TIMELY ELECTION REPORTING

- + Automate reporting and publish election night results directly
- + Report results at the precinct level
- + Establish lines of communication with the AP and Edison
- + Mail ballots:
  - Allow/require local jurisdictions to process mail ballots before Election Day
  - Require mail ballots to arrive by Election Day
  - Impose deadlines on local jurisdictions to report election results

# Thank you!



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