

Accuracy in Elections

NCSL

Strong Elections, Strong States

Denver Colorado

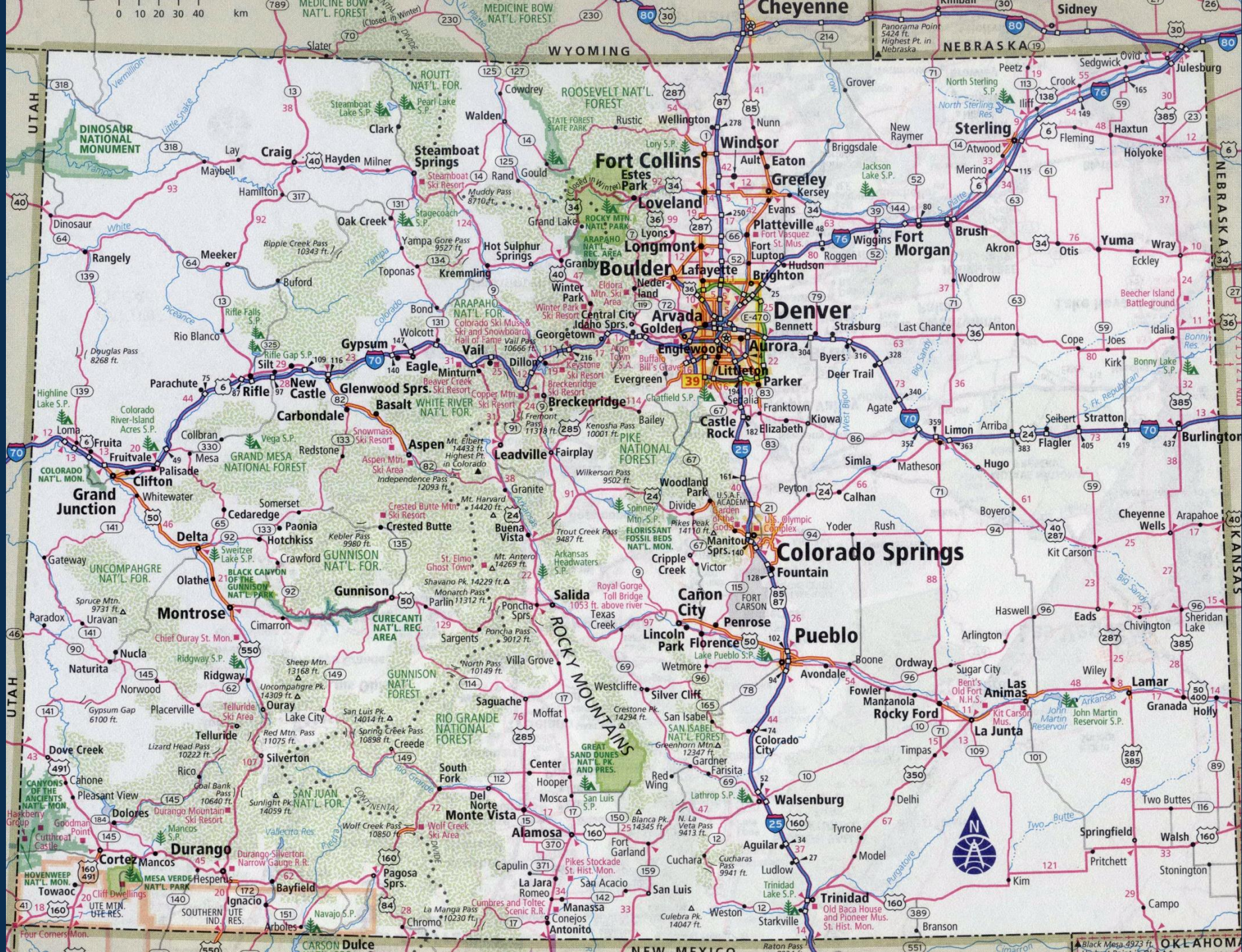
May 20, 2023

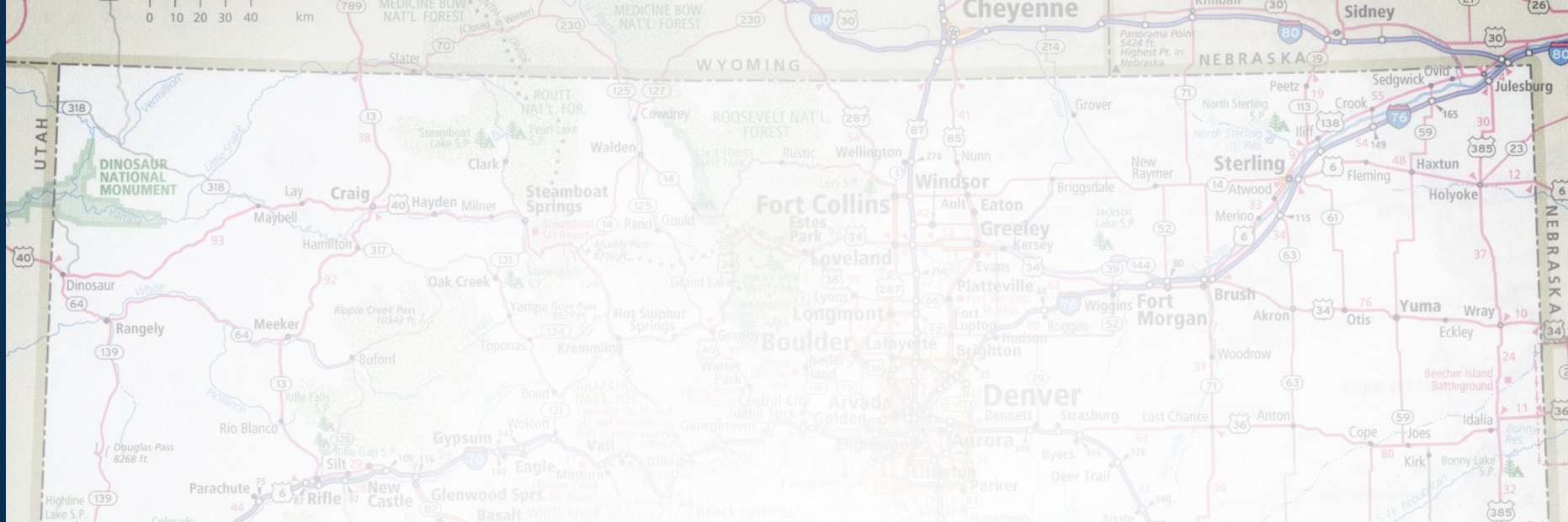


Massachusetts
Institute of
Technology



MIT ELECTION DATA
+ SCIENCE LAB





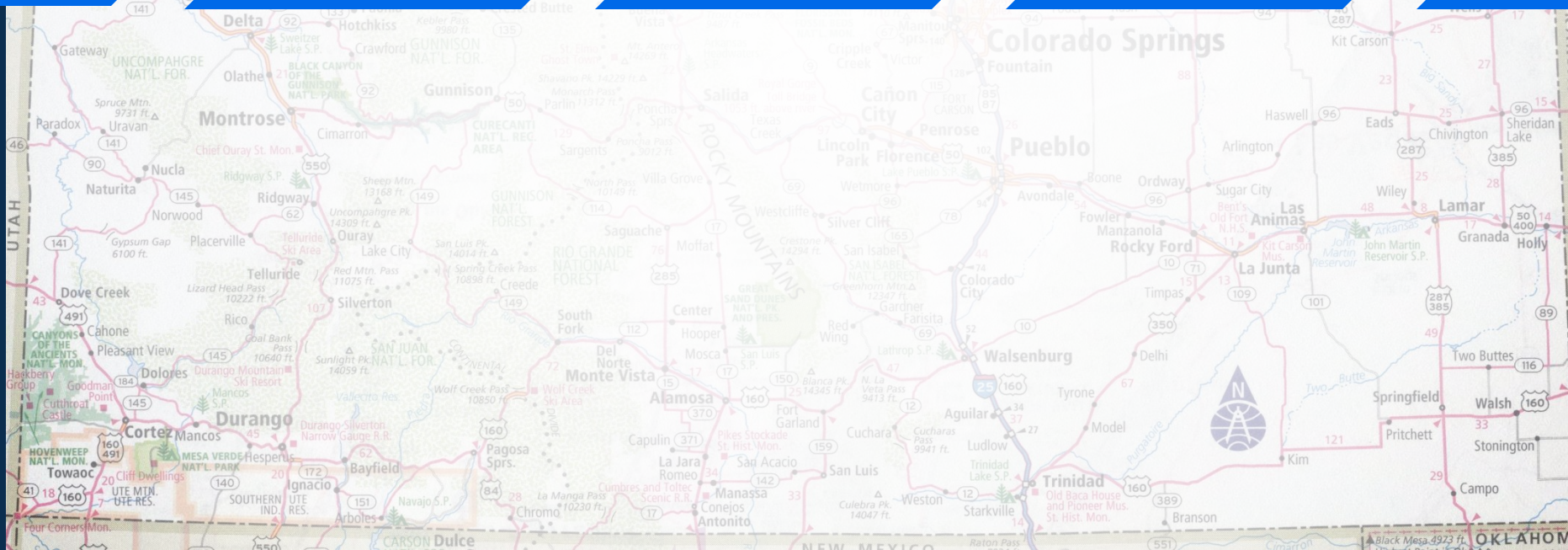
Geographic Information

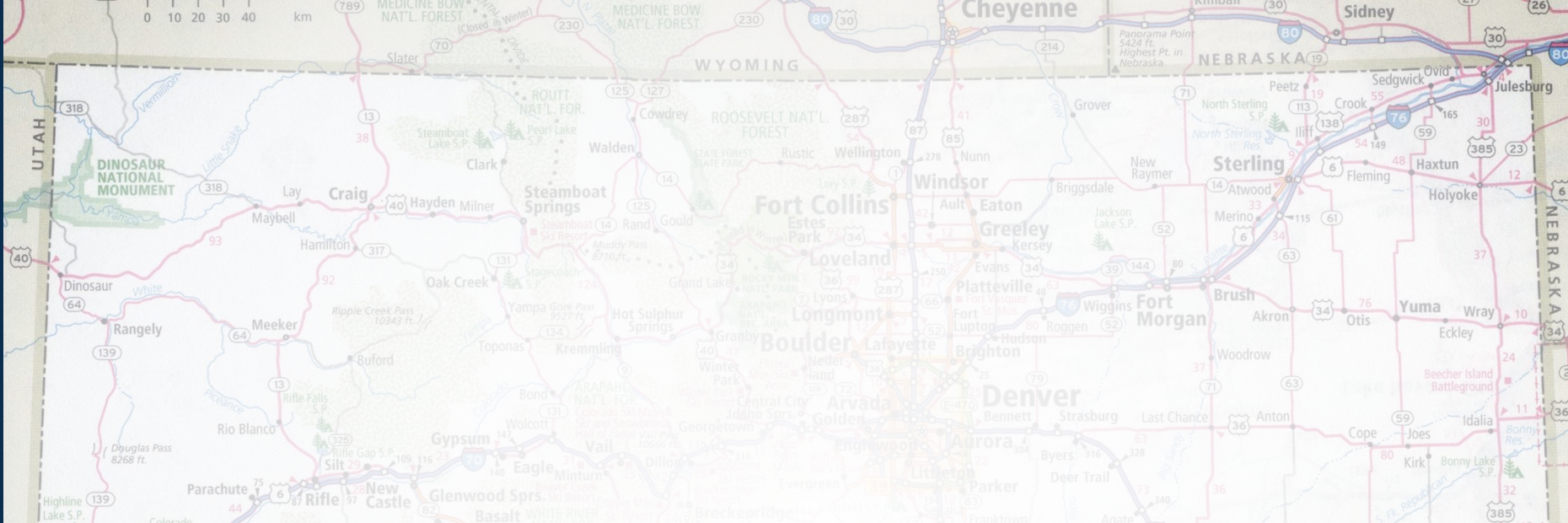
Voter Registration

Ballot Design

Ballot Counting

Results Reporting





Geographic
Information

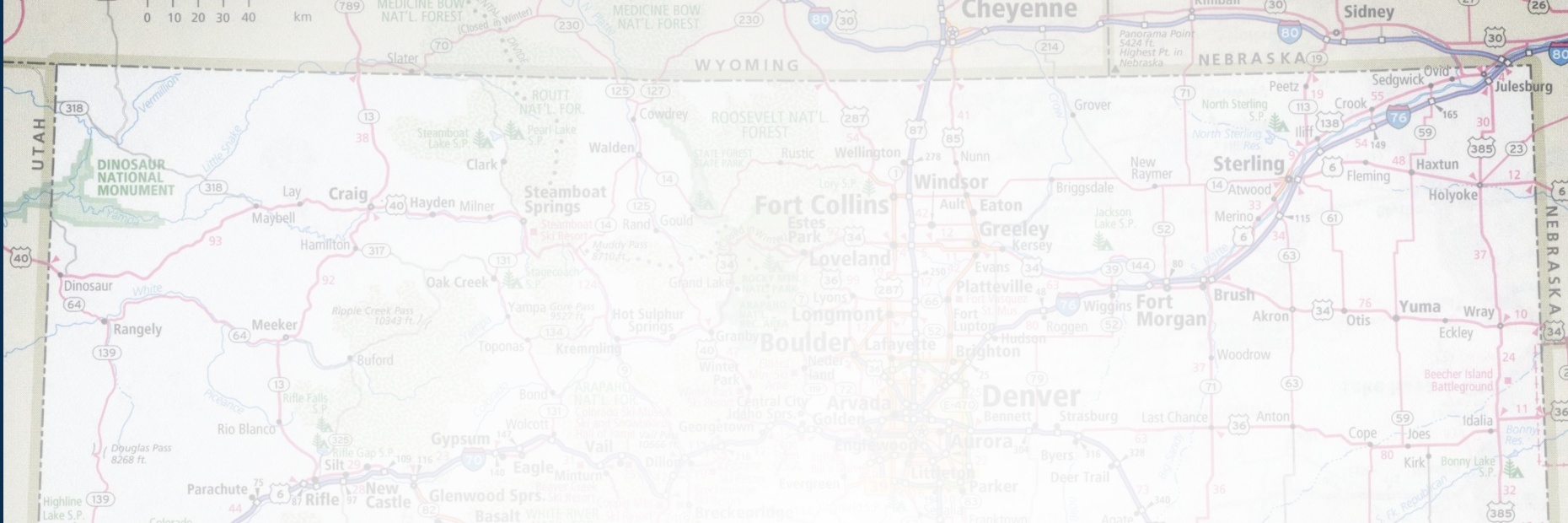
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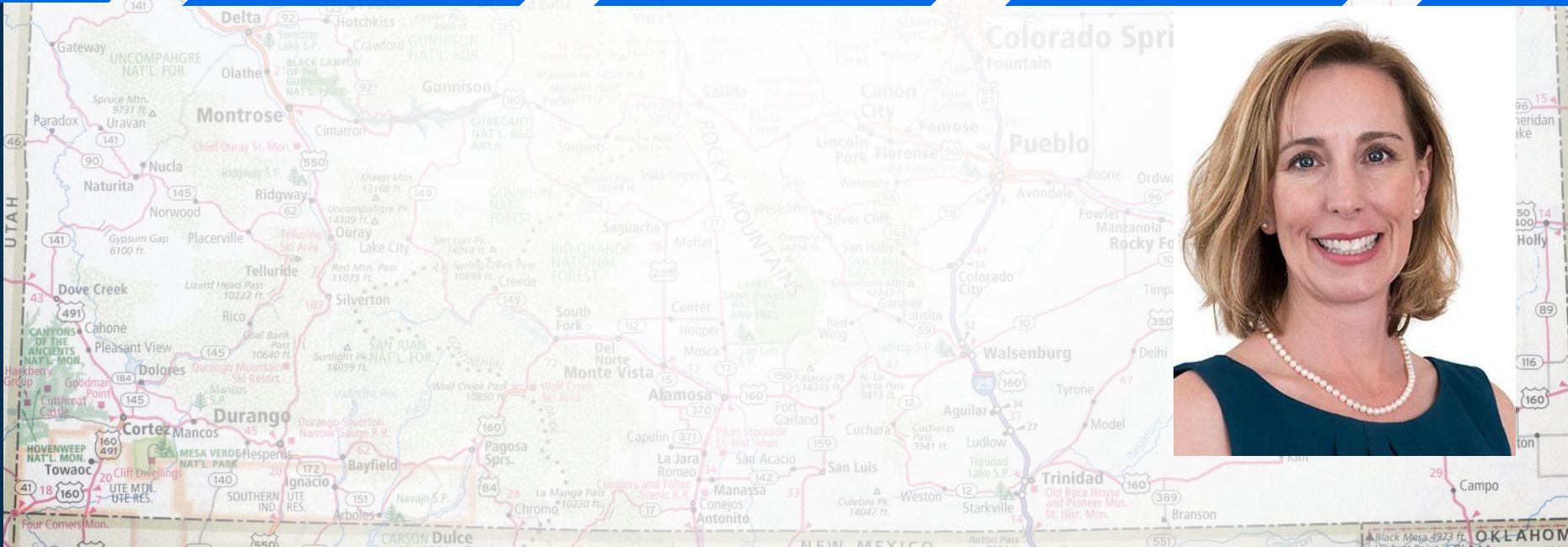
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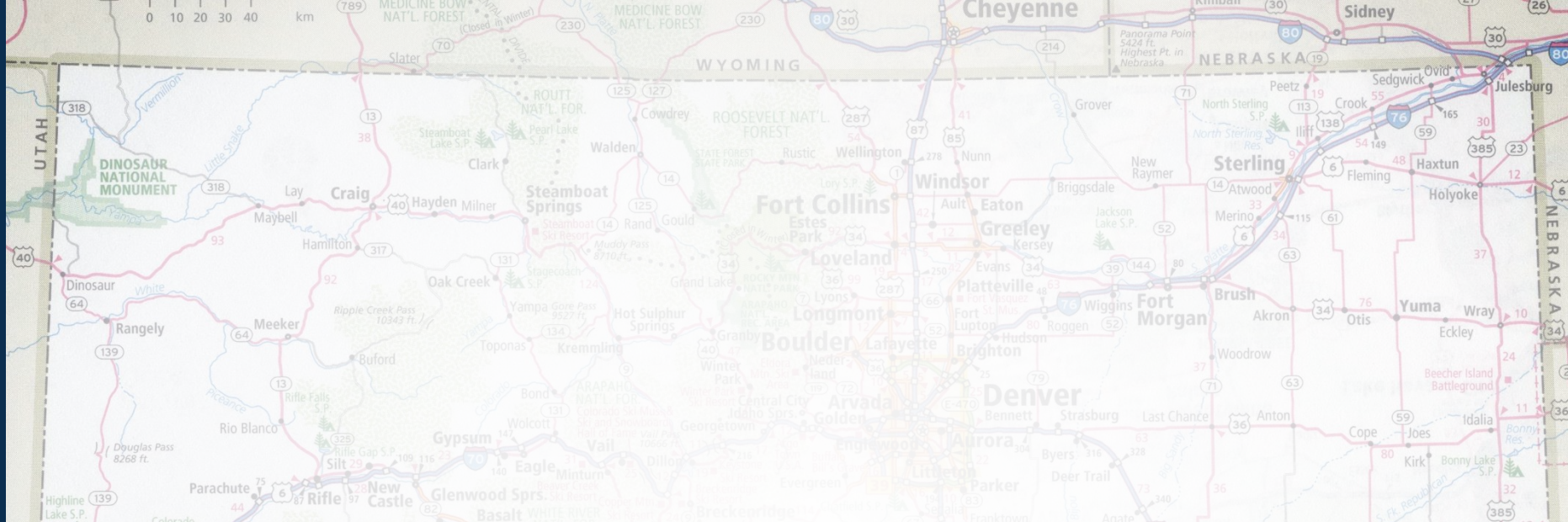
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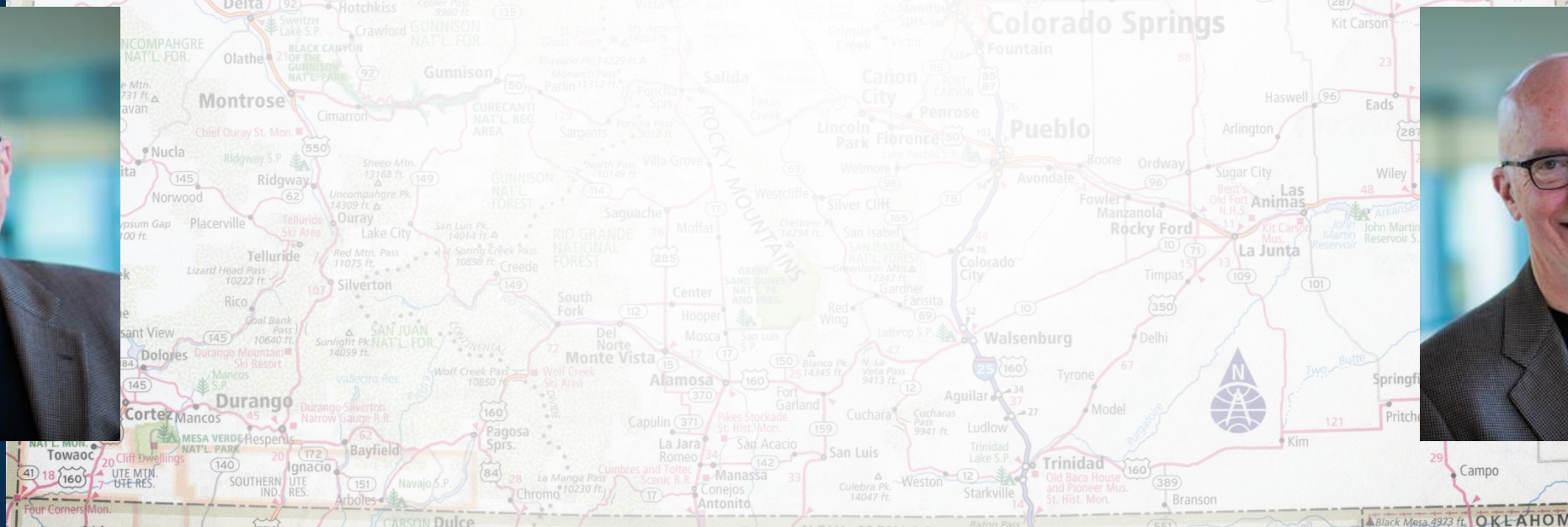
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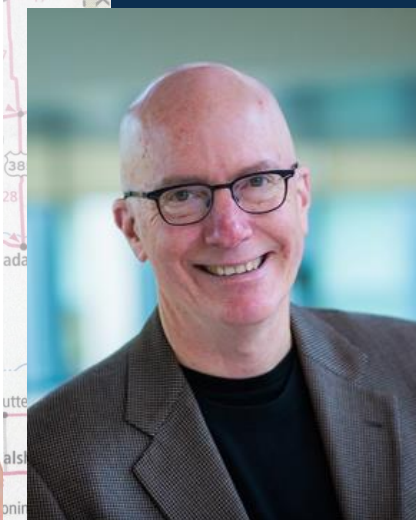
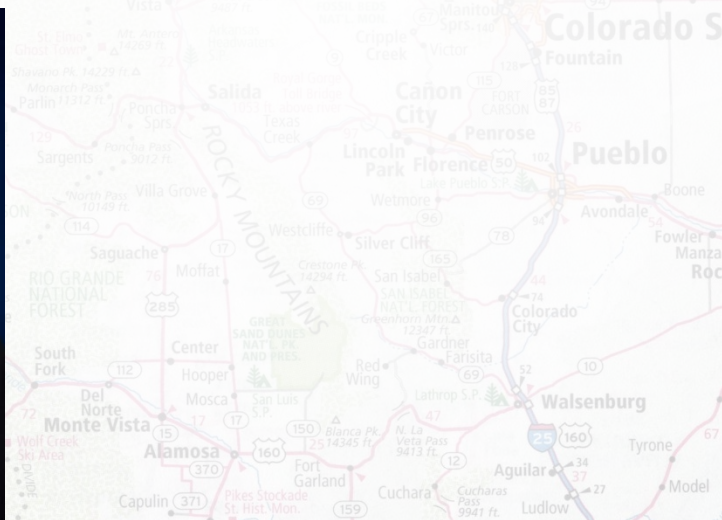
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Charles Stewart III



Kenan Sahin Distinguished
Professor of Political Science

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Director, MIT Election Data and
Science Lab



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





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Support ESRA

- Nationwide precinct returns
- **Audit outcomes**





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





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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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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.

May 31 – June 2

<https://esra-conference.org>





MIT ELECTION DATA + SCIENCE LAB

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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

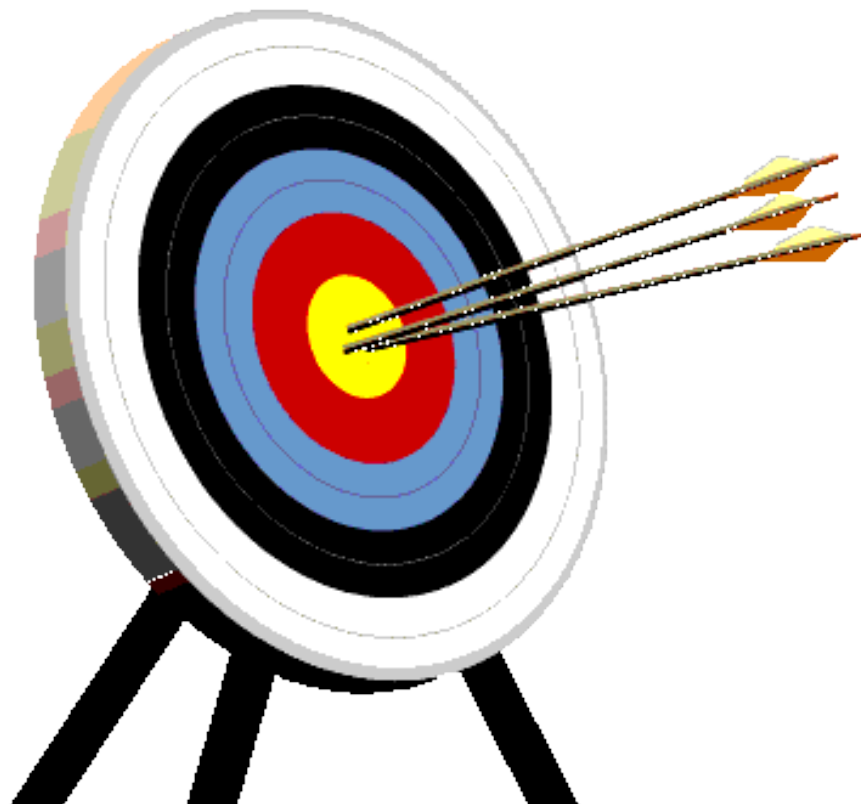


Agenda for the Rest of the Talk

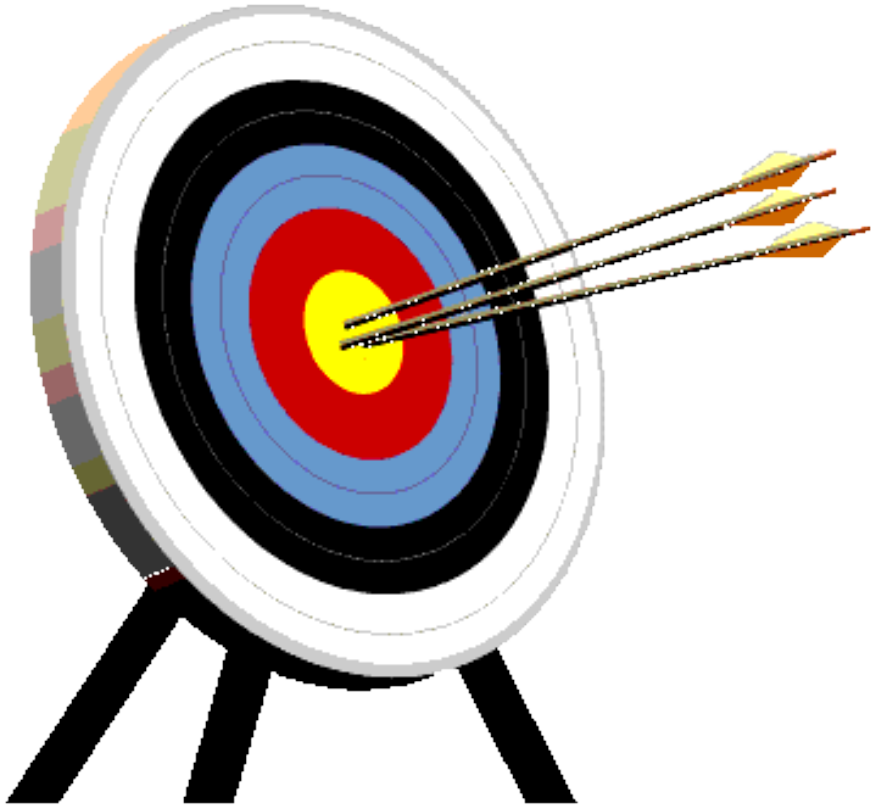
- + Why accuracy matters in elections
- + Challenges to accuracy
- + Where challenges occur—before, during, and after Election Day
- + Before Election Day
 - Districting
 - Voter registration
- + During Election Day
 - Voting machines
- + After Election Day
 - Auditing
 - Election night report
- + Artificial Intelligence



Accuracy

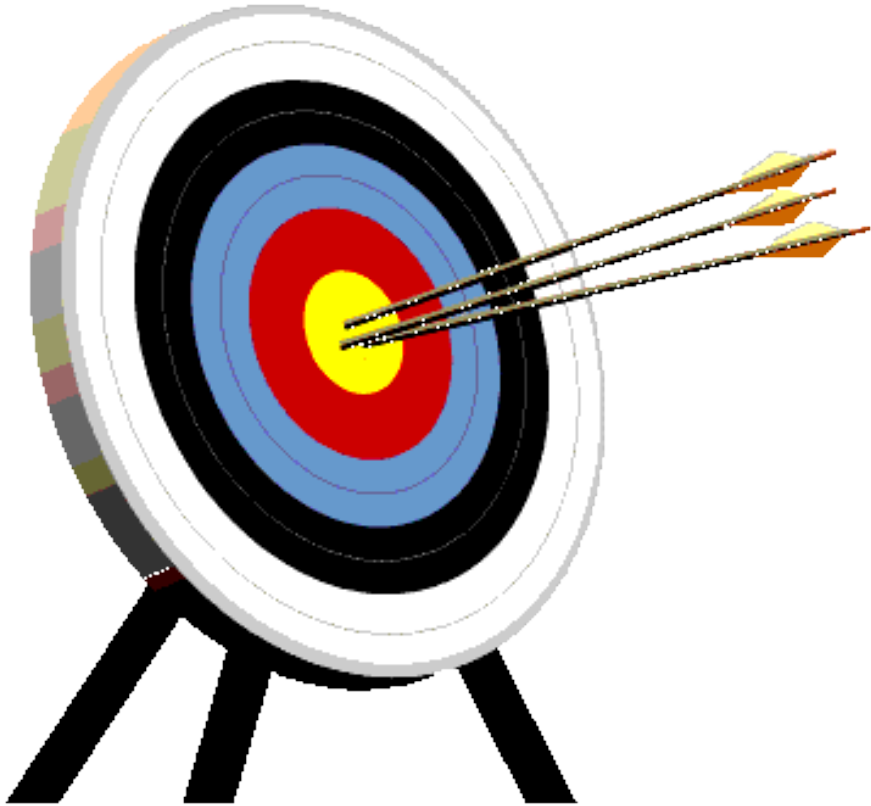


Accuracy



Correct outcomes

Accuracy



Correct outcomes

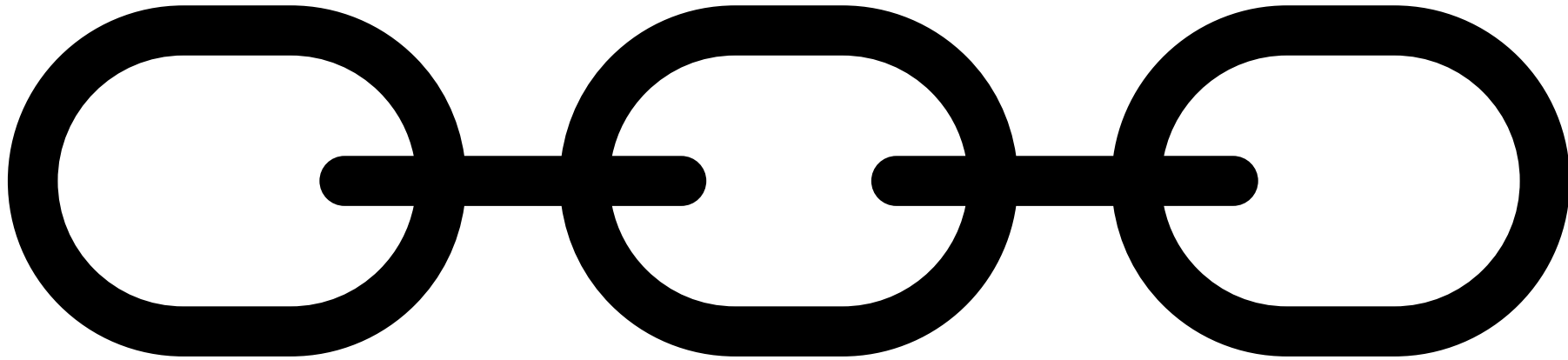
Voter trust

From the Voter's Perspective

Registration

Voting

Counting

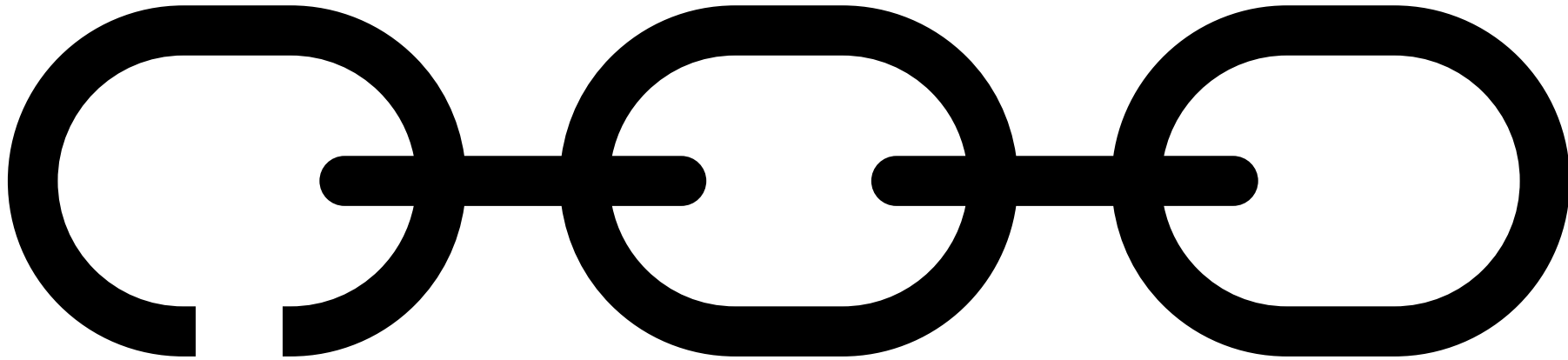


From the Voter's Perspective

Registration

Voting

Counting



Lost Vote

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*

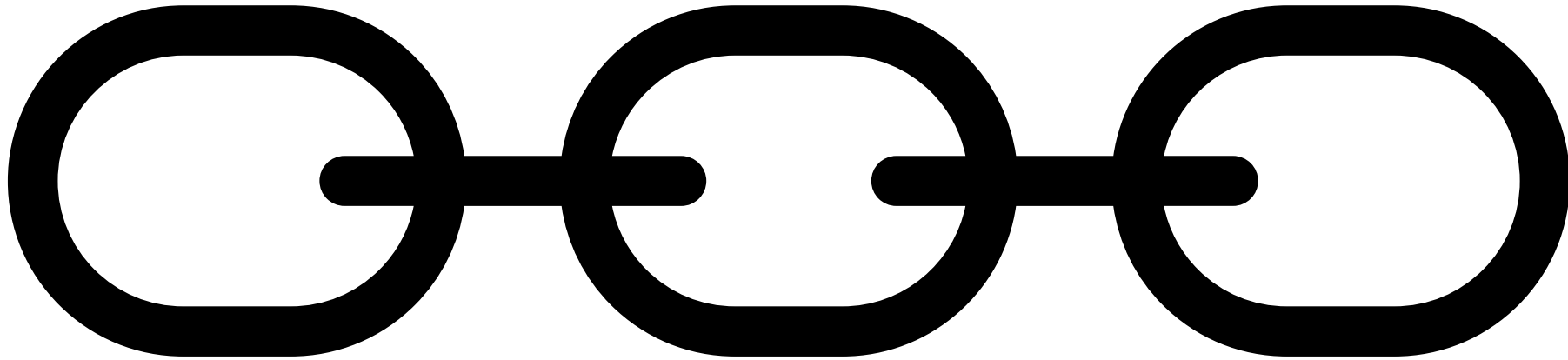


From the System's Perspective

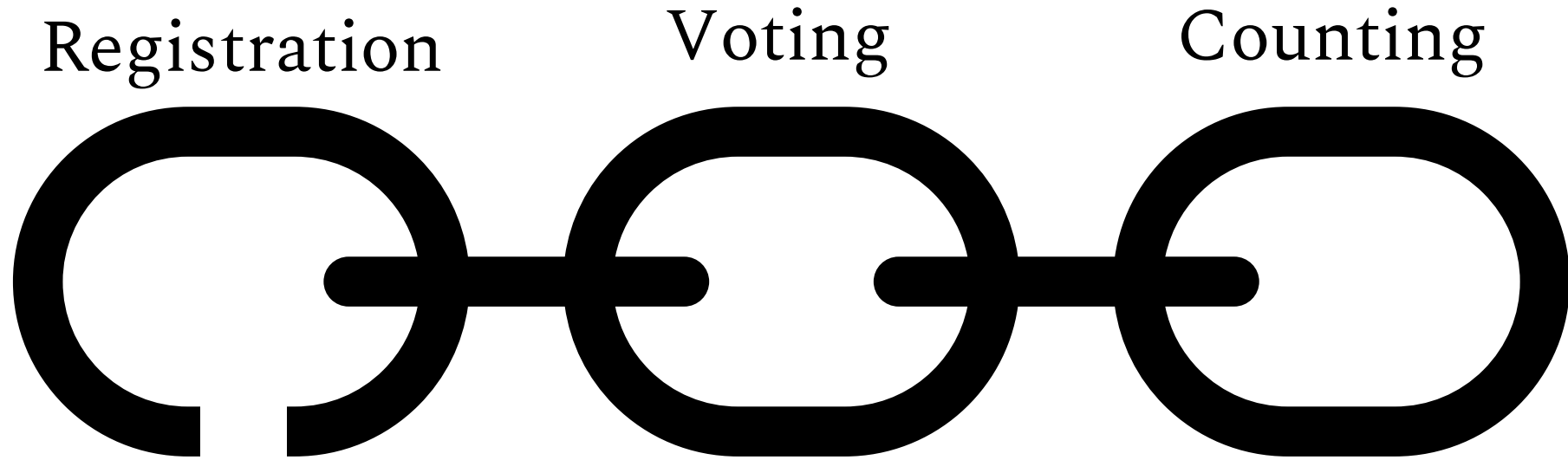
Registration

Voting

Counting



From the System's Perspective



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

Lost Trust?

Registration

- Ineligible voters
- Dead voters
- Unregistered voters

Voting

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What We Know about Voter Trust



What We Know about Voter Trust

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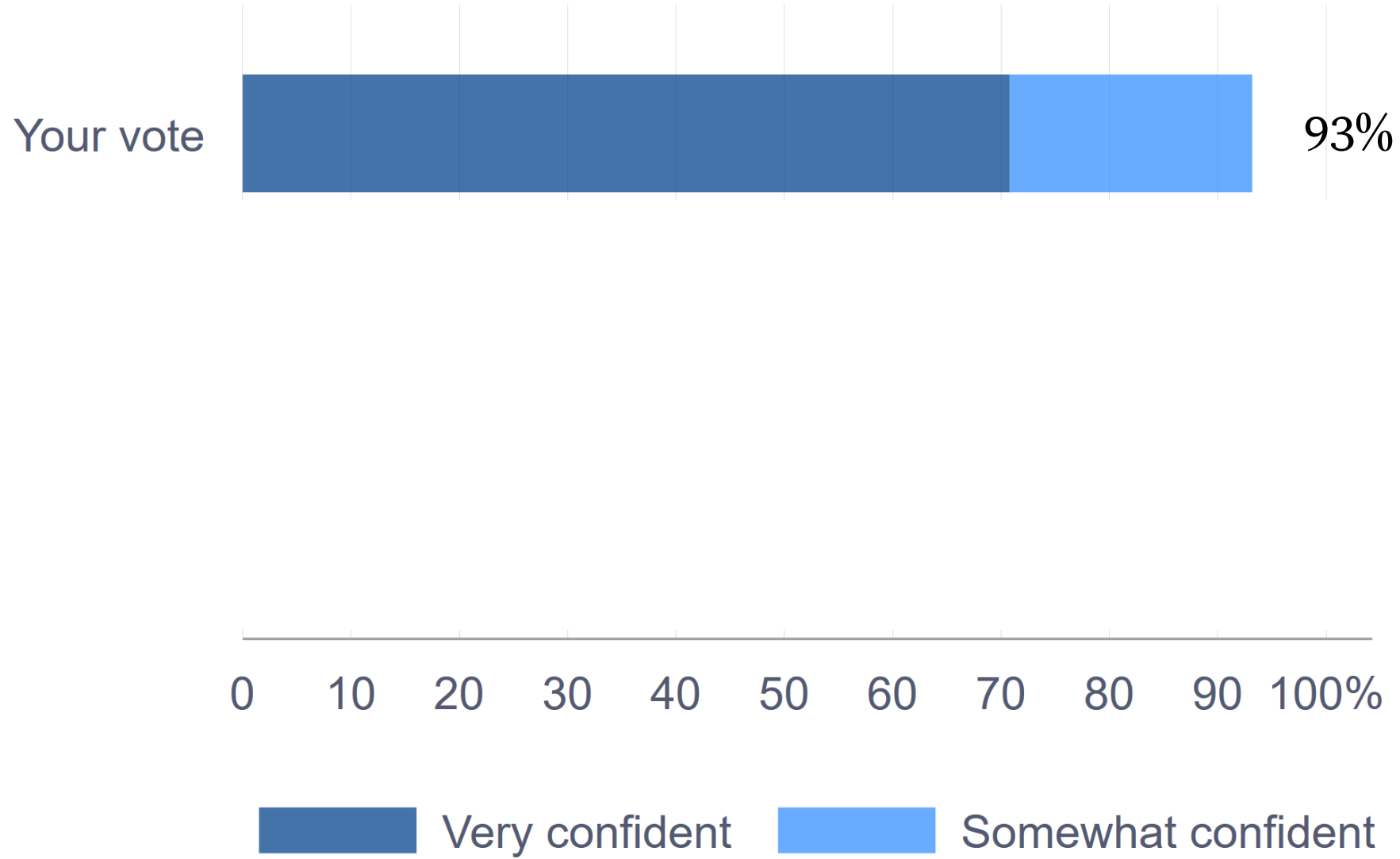
What We Know about Voter Trust

- + 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



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

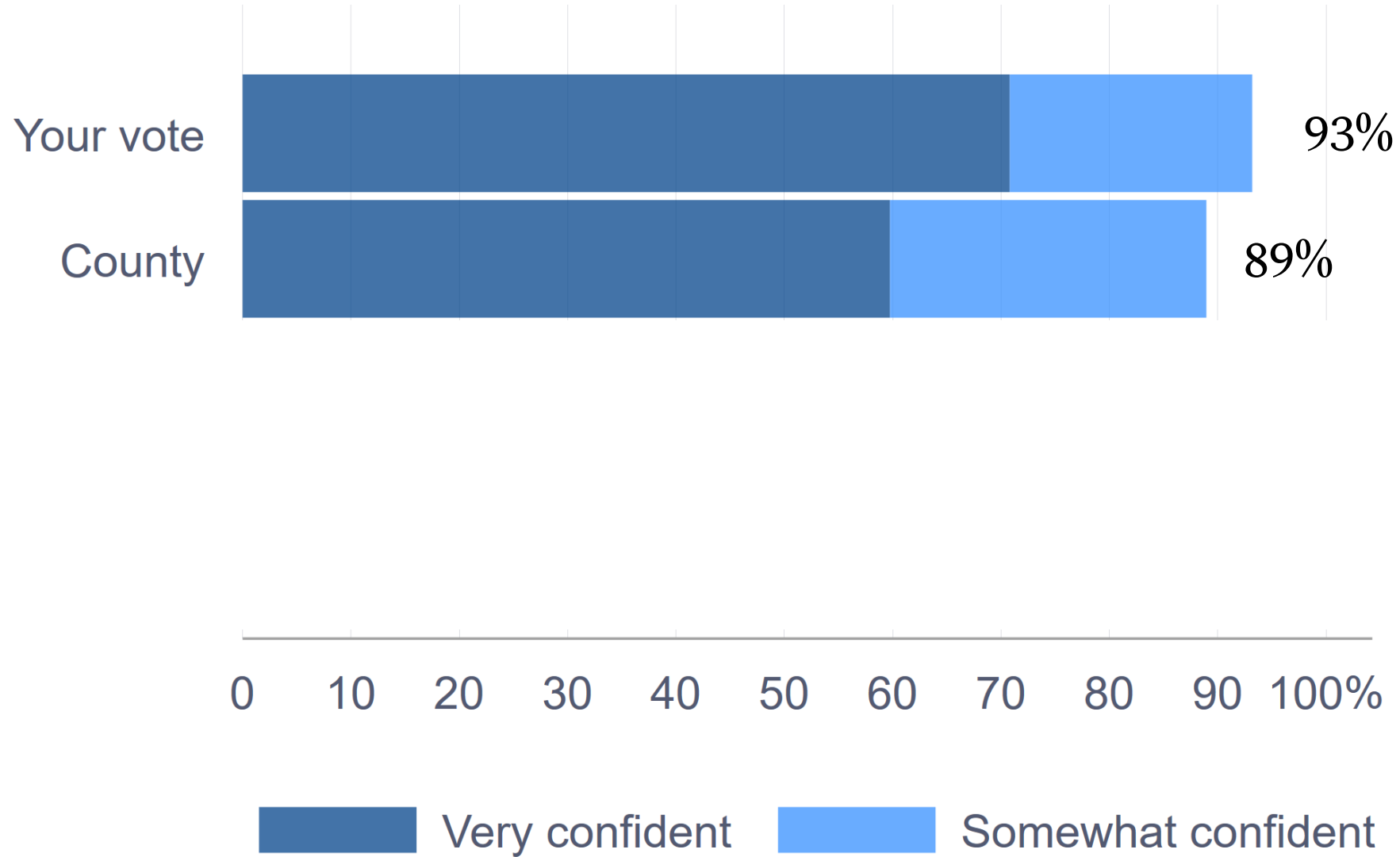
Very confident Somewhat confident

Source: Survey of the Performance of American Elections



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

2022 respondents

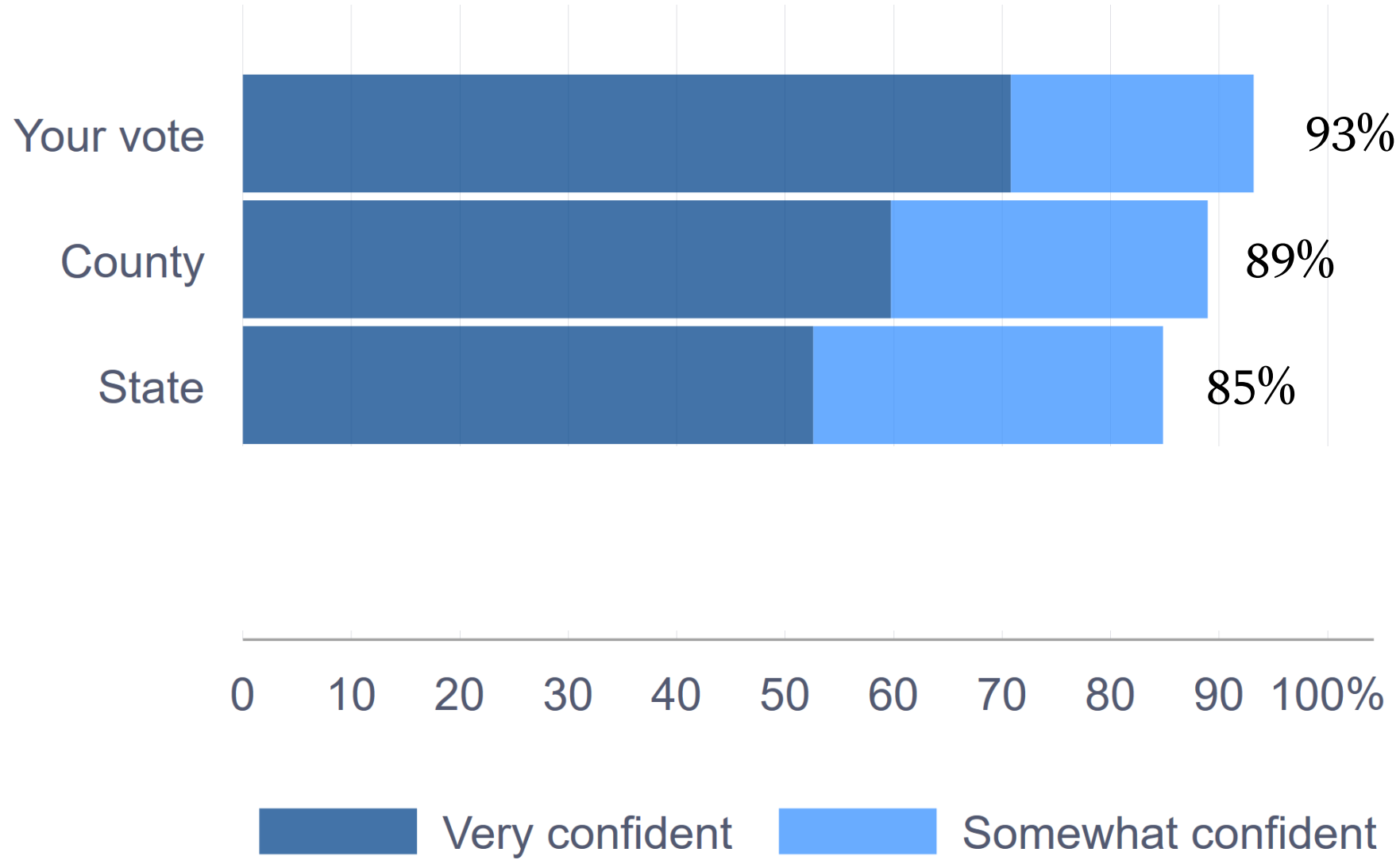


Source: Survey of the Performance of American Elections



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

2022 respondents

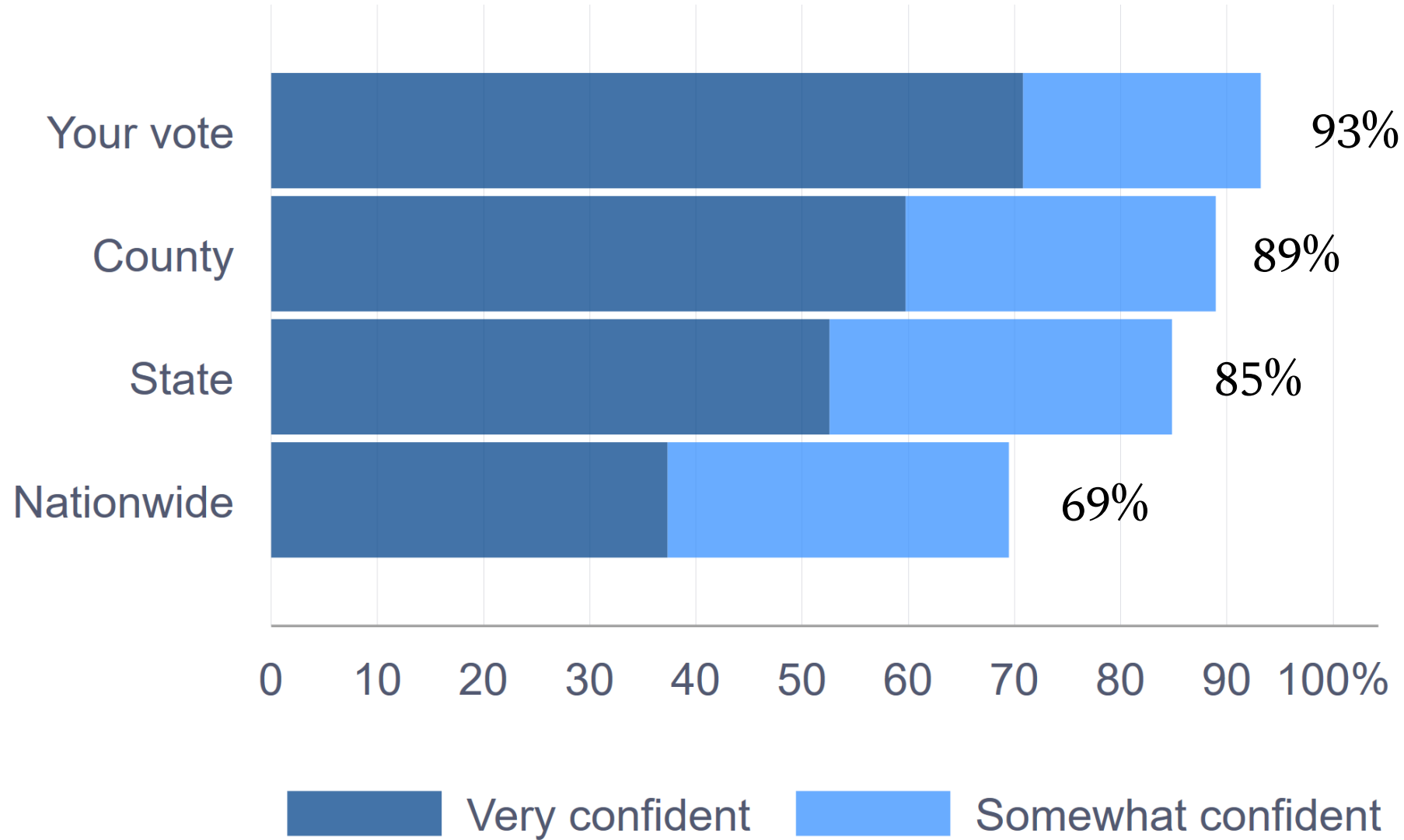


Source: Survey of the Performance of American Elections



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

2022 respondents

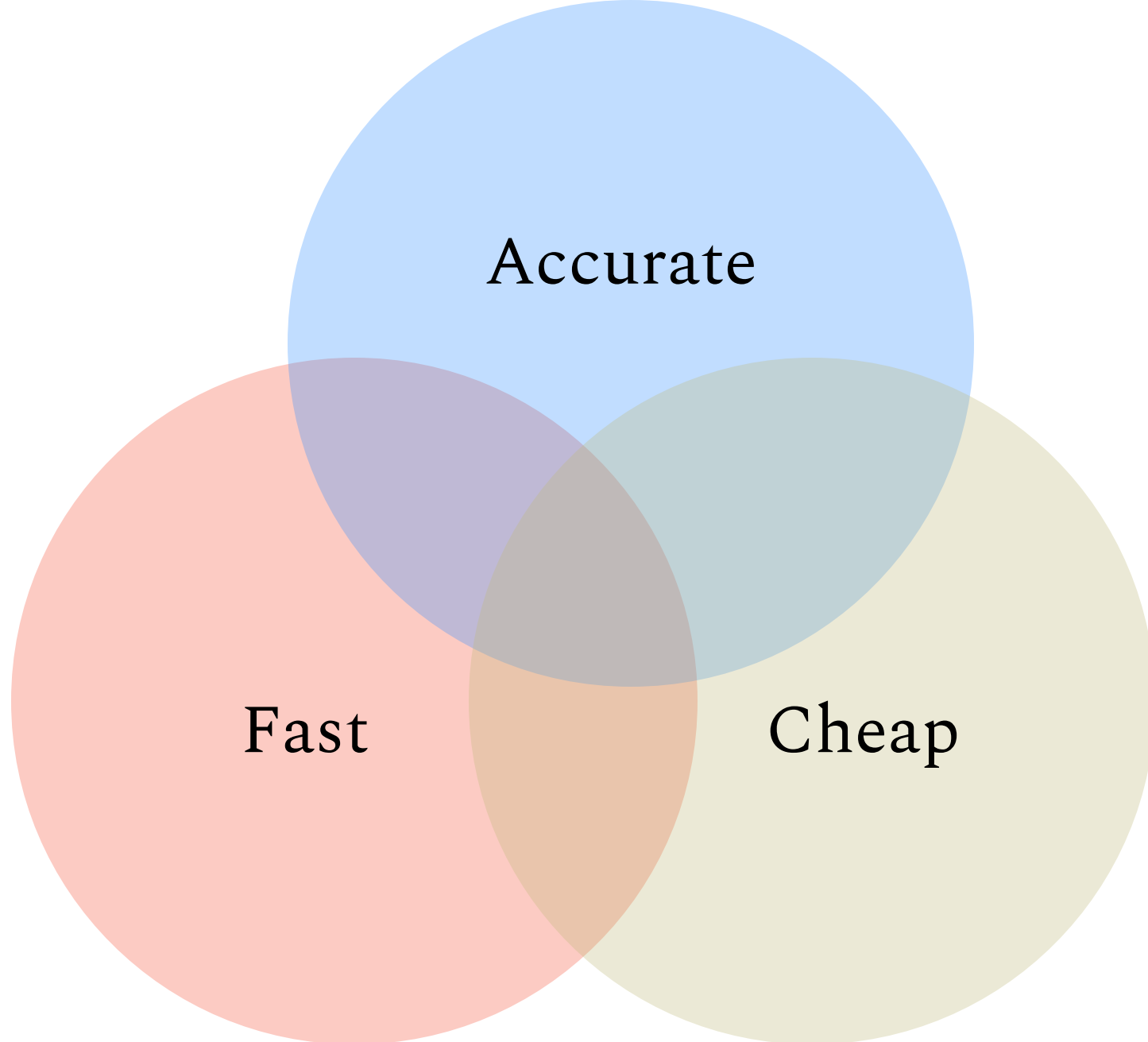


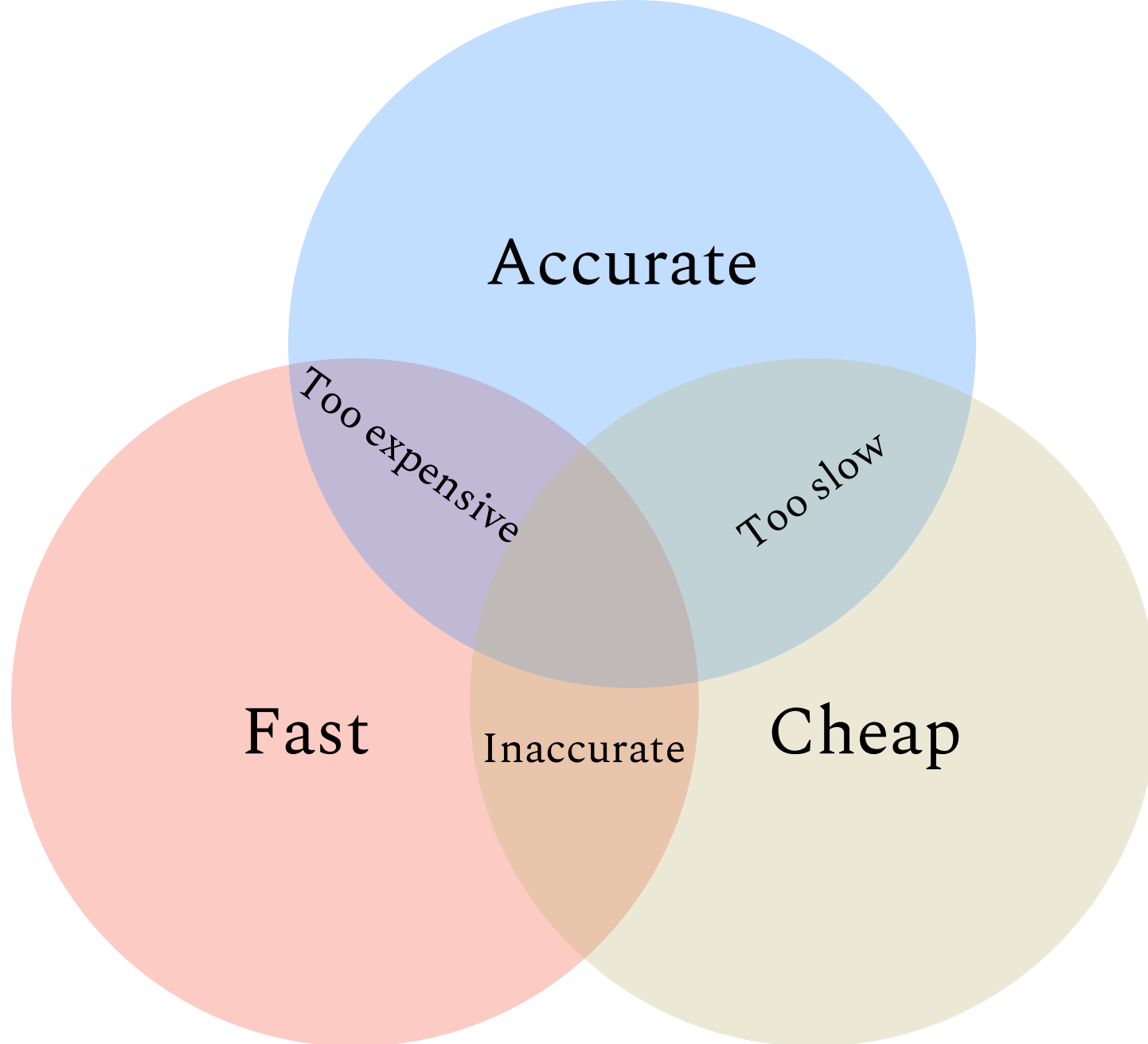
Source: Survey of the Performance of American Elections

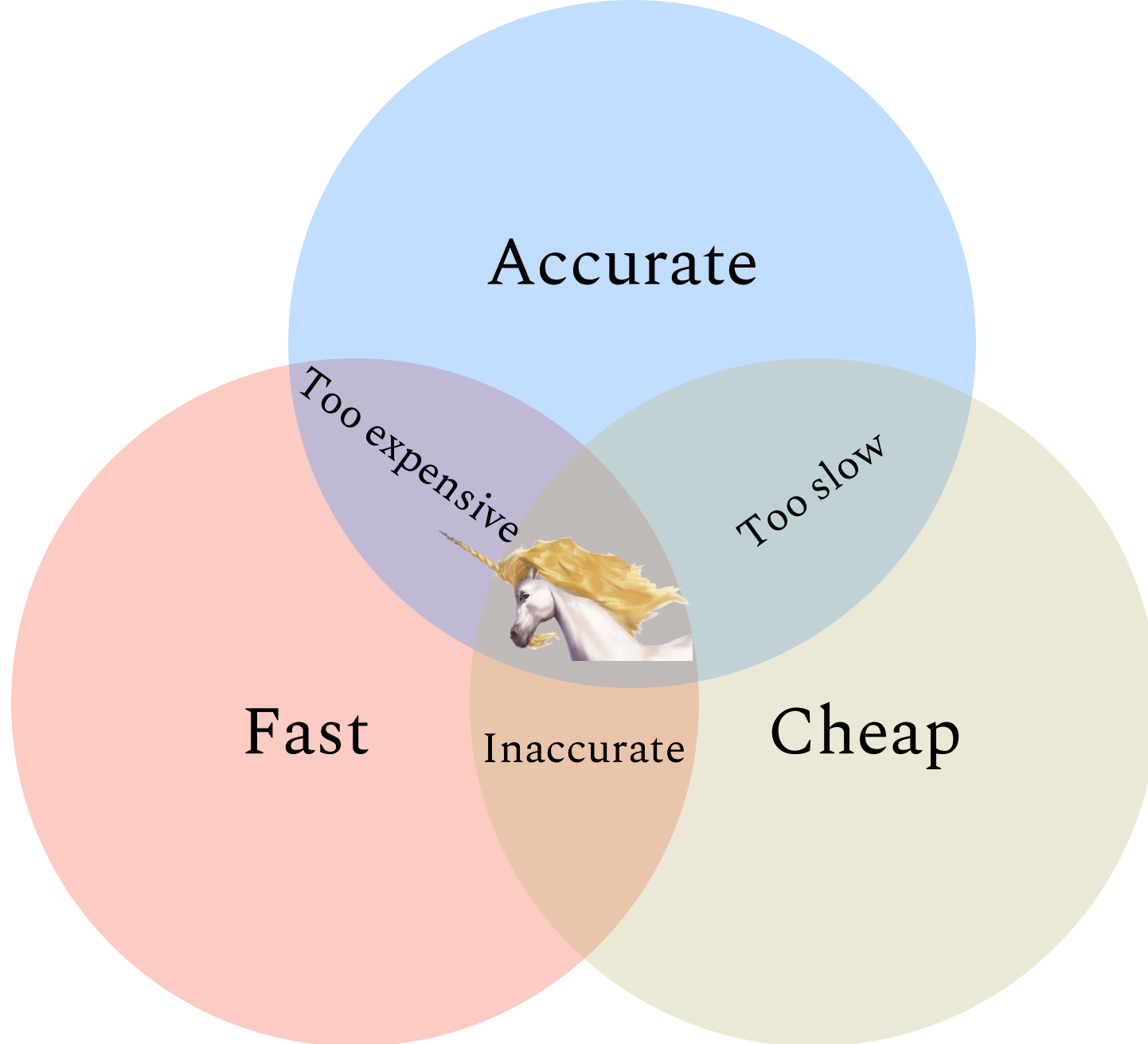


Challenges to Accuracy





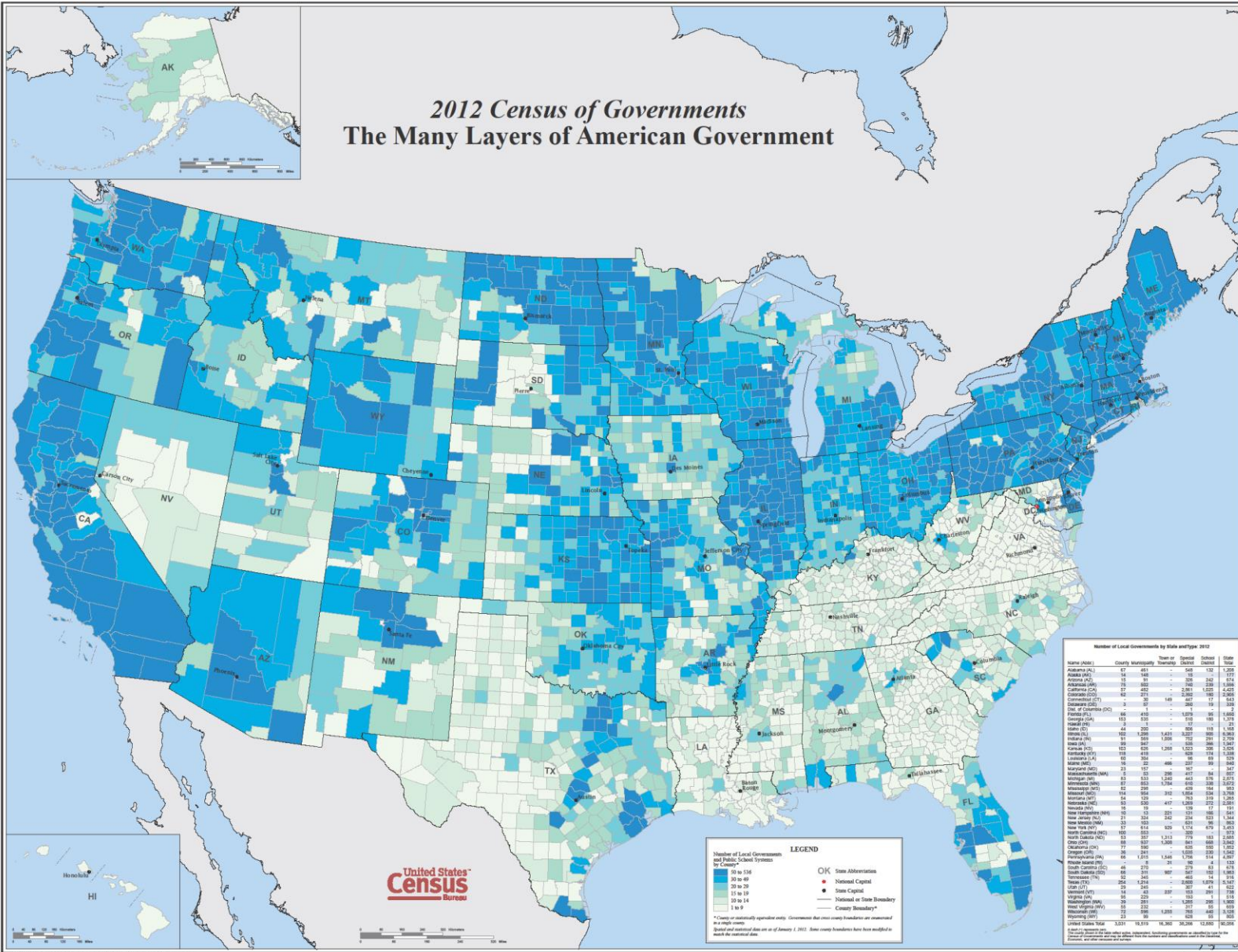








2012 Census of Governments The Many Layers of American Government



States + D.C.	51
Counties	3,031
Municipalities	19,519
Towns/townships	16,360
Special districts	38,266
School districts	12,880
Total	90,107



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

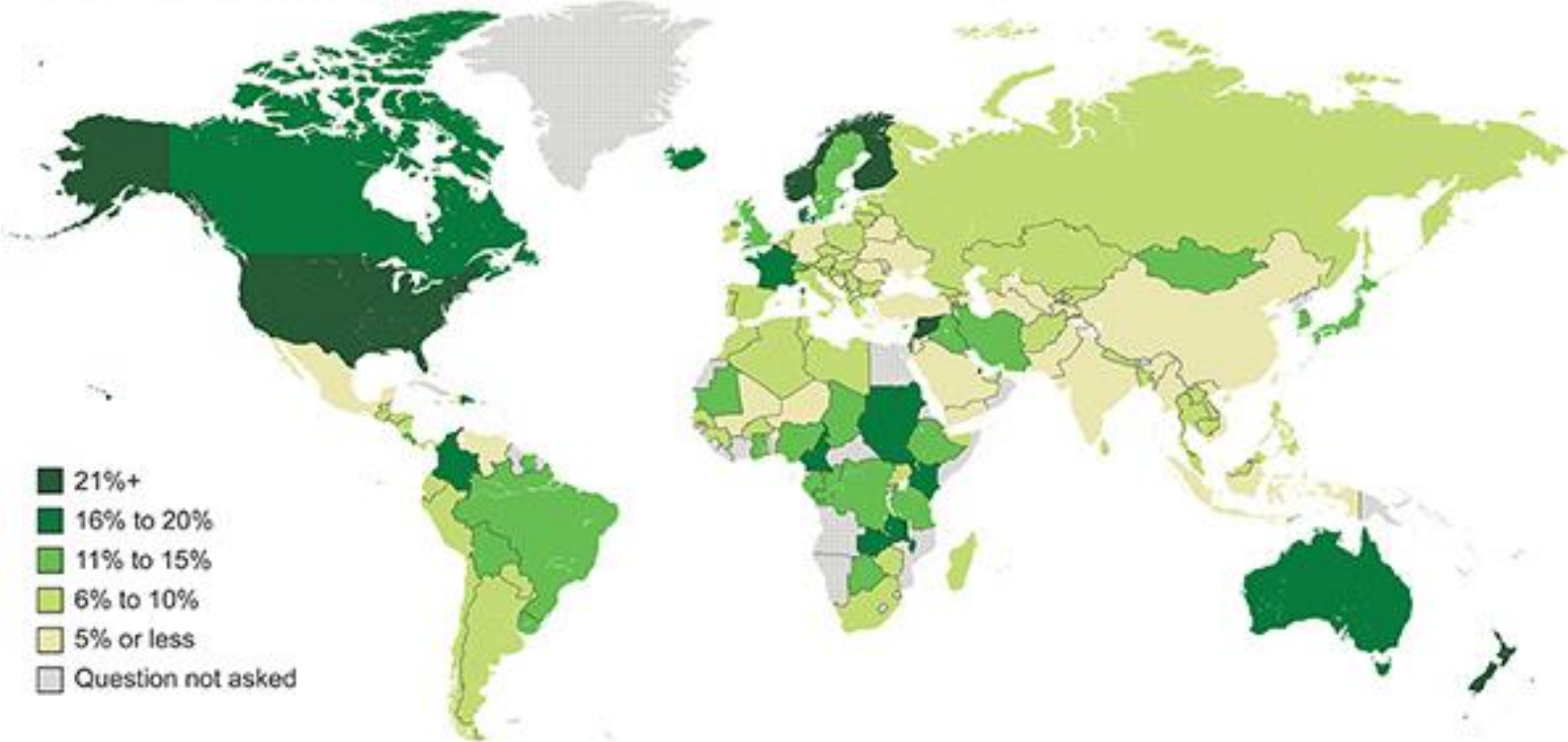
- Township Trustees

Total Choices: 34





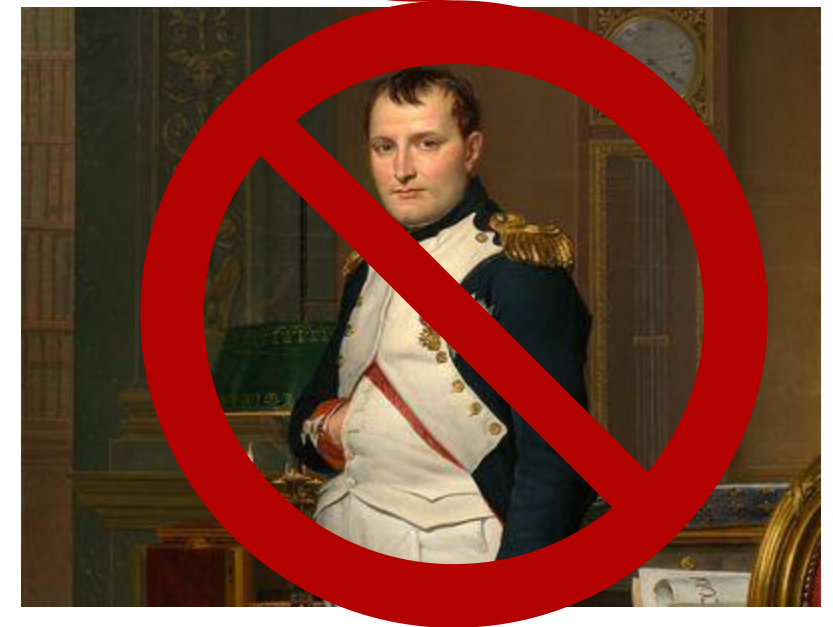
Did you move from another city or area within this country in the past five years?
Percentage answering yes



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









 **BUNDESREPUBLIK DEUTSCHLAND**
FEDERAL REPUBLIC OF GERMANY / REPUBLIQUE FEDERALE D'ALLEMAGNE
PERSONALAUSWEIS
IDENTITY CARD / CARTE D'IDENTITE

L01X00T47



[a] Name/Surname/Nom
[b] Geburtsname/Name at birth/Nom de naissance
[a] MUSTERMANN
[b] GABLER

Vornamen/Given names/Prénoms
ERIKA

Geburtsdag/Date of birth/
Date de naissance
12.08.1983 Staatsangehörigkeit/Nationality/
Nationalité
DEUTSCH

Geburtsort/Place of birth/Lieu de naissance
BERLIN

Gültig bis/Date of expiry/
Date d'expiration
01.08.2031

938568

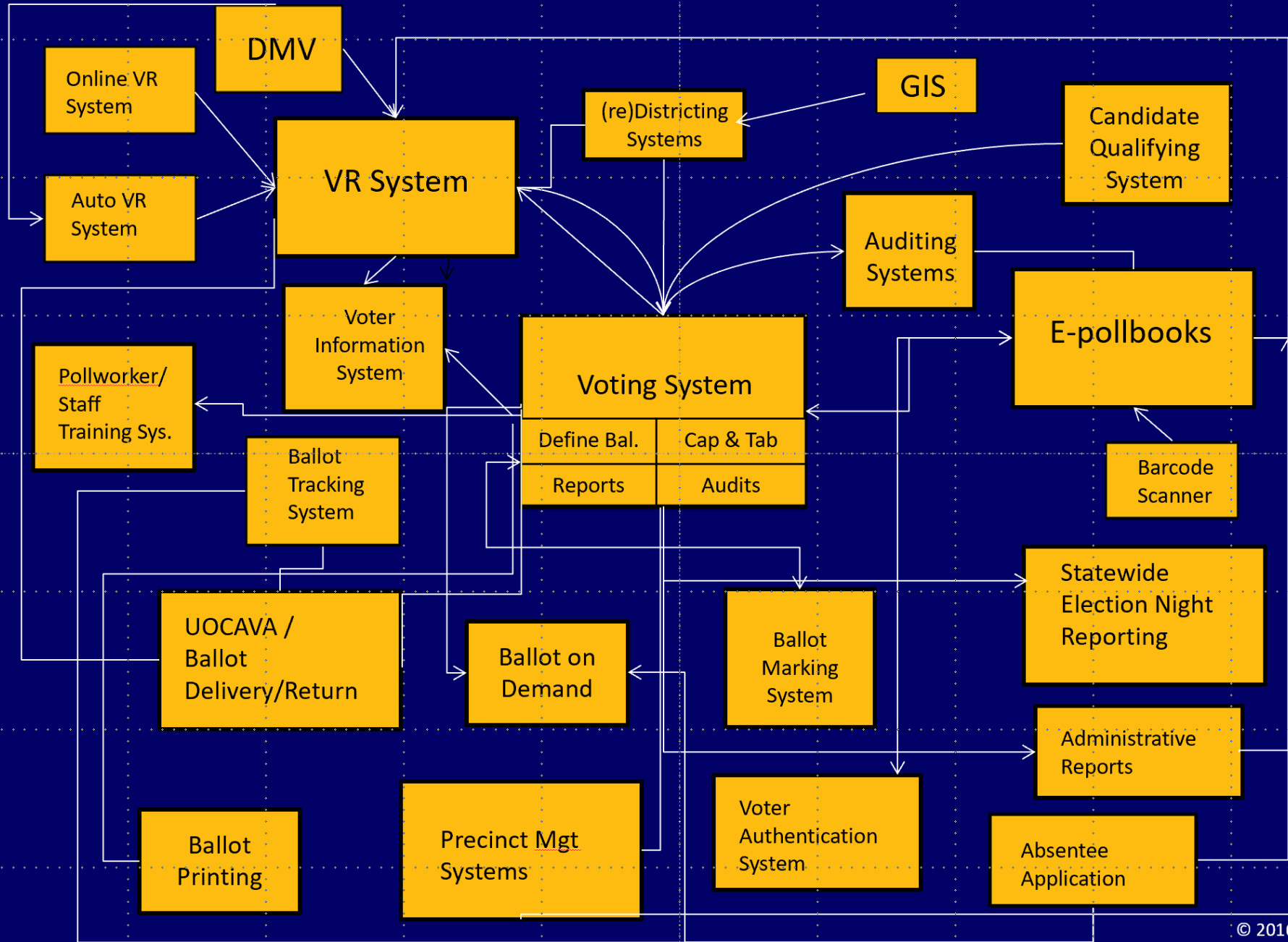
Erika Mustermann



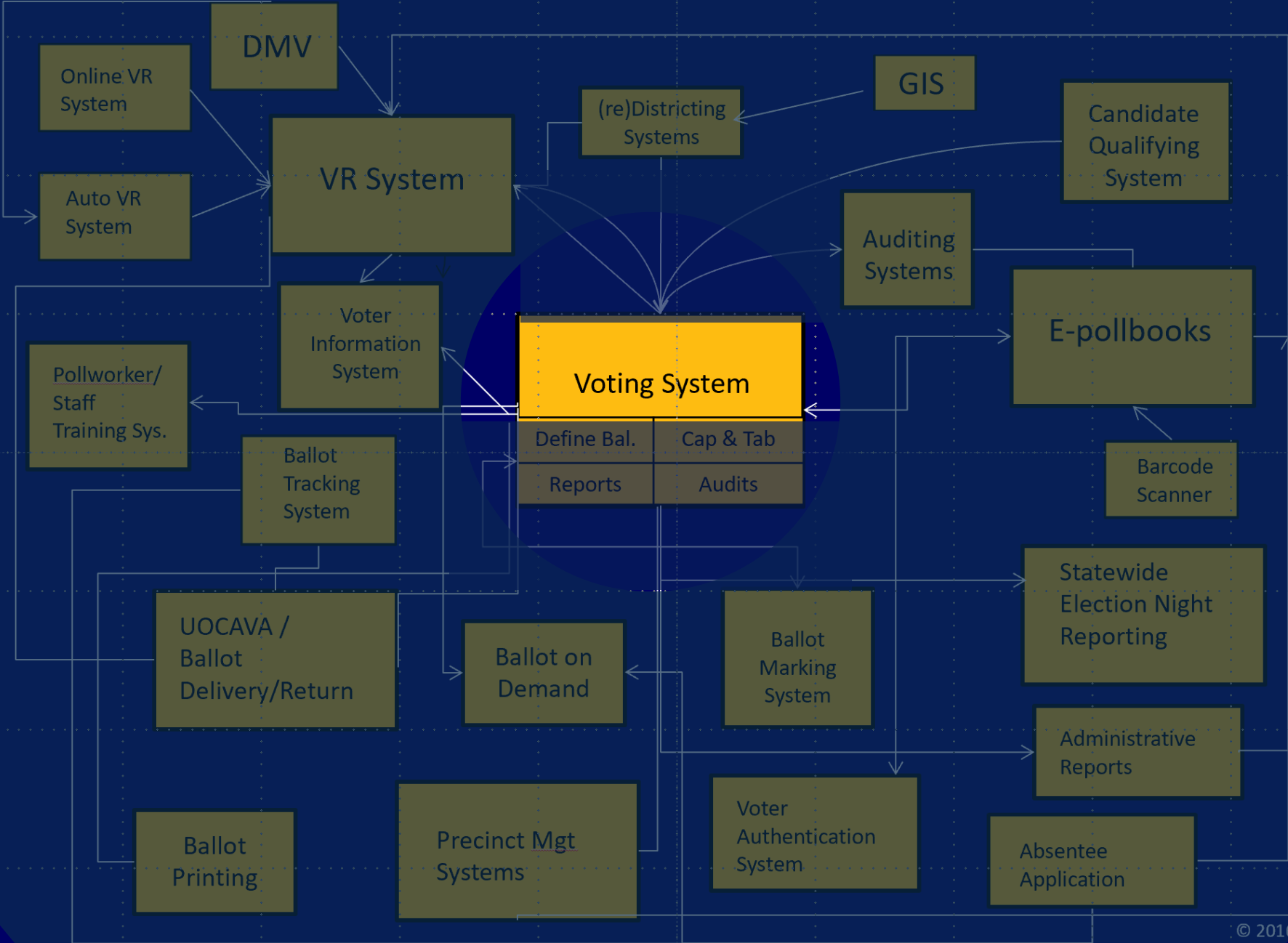


Before, During and After Election Day

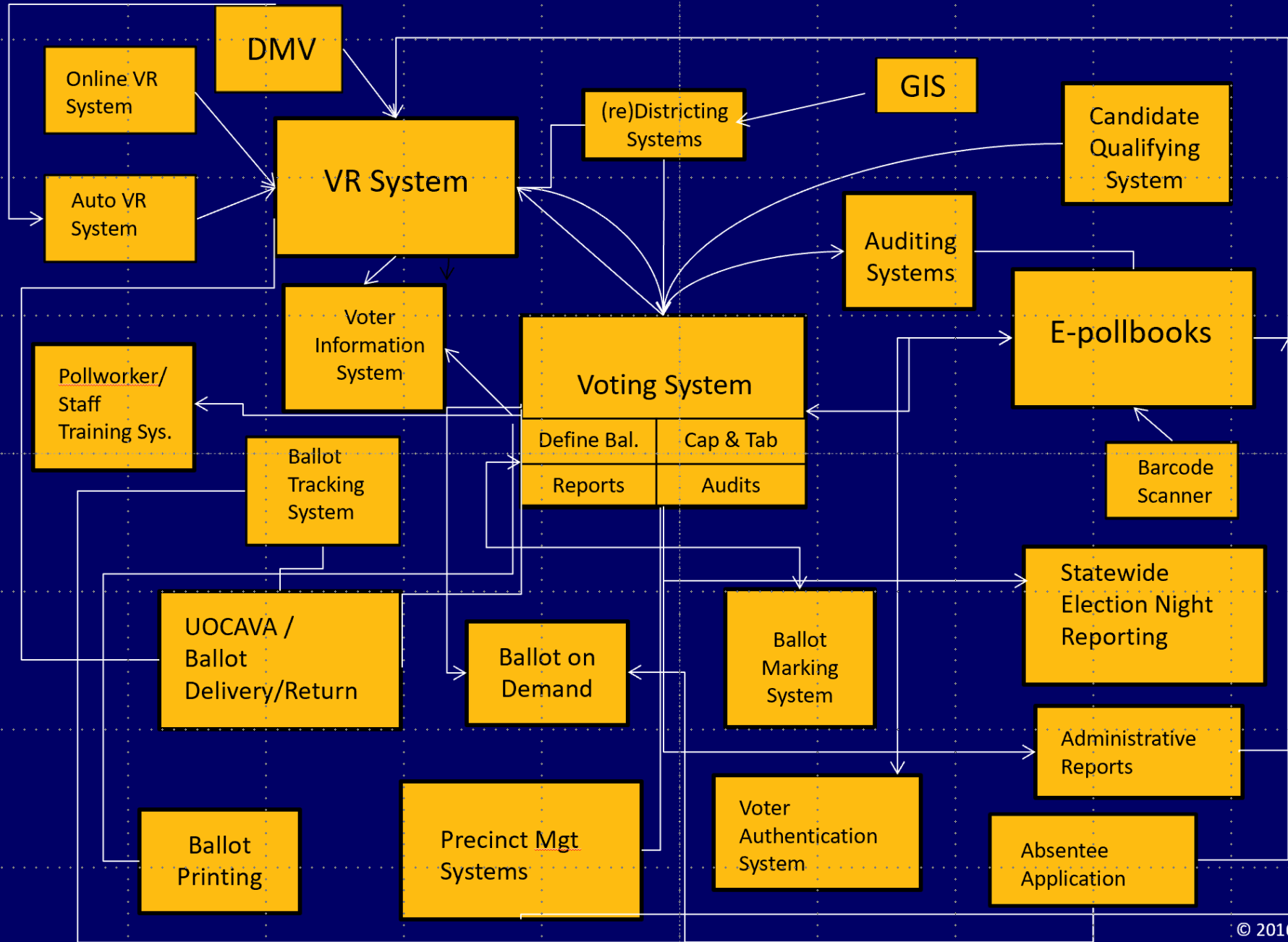
Interaction of Voting and Election Systems



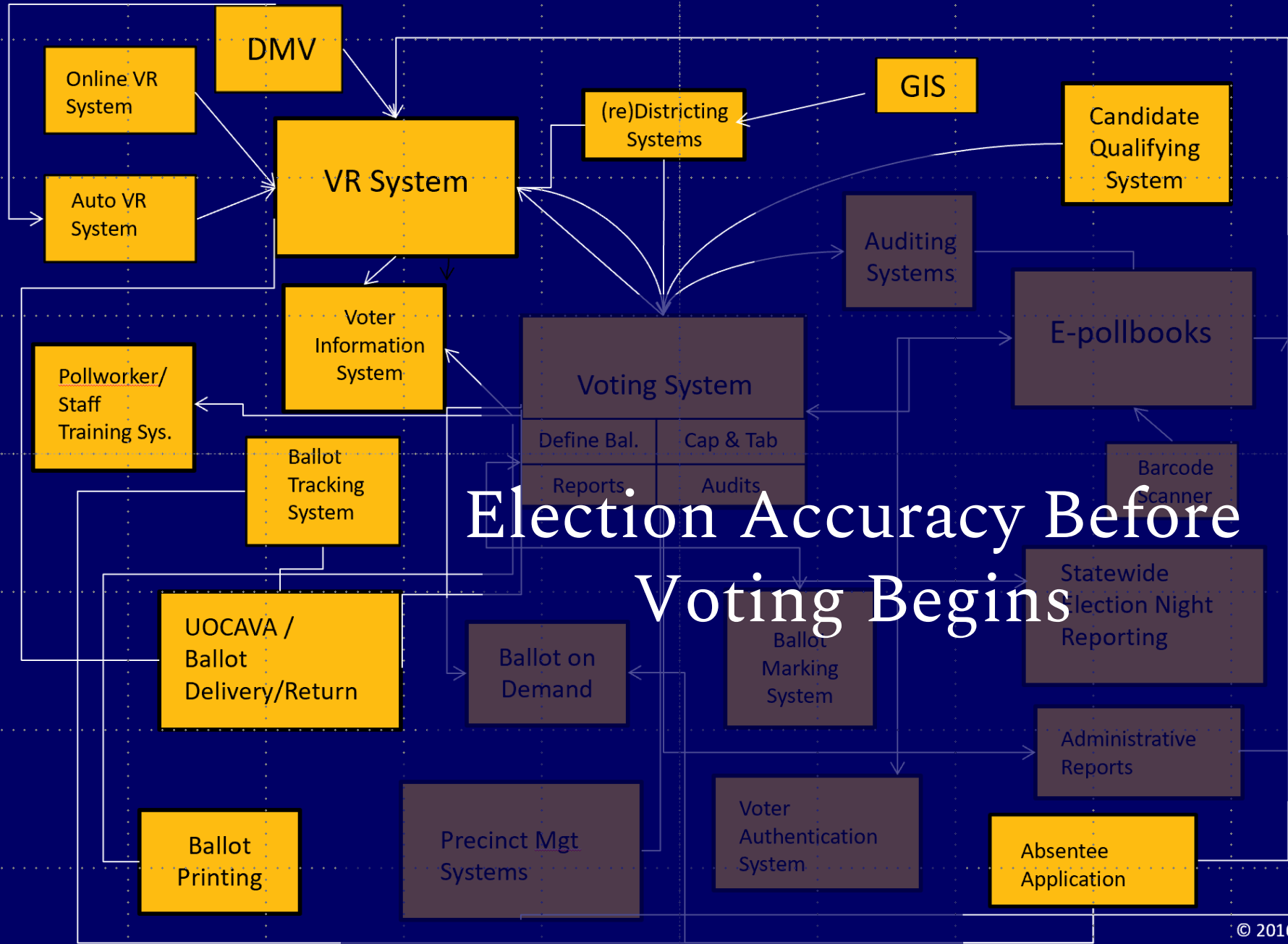
Interaction of Voting and Election Systems



Interaction of Voting and Election Systems



Interaction of Voting and Election Systems

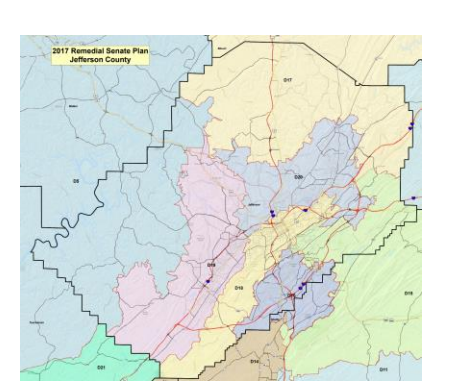
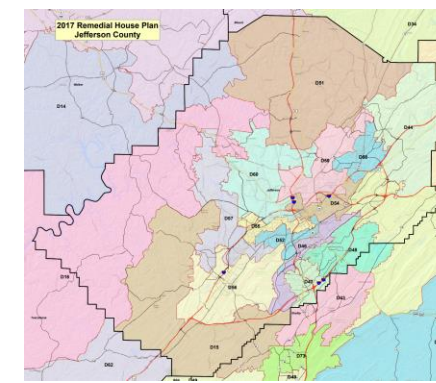
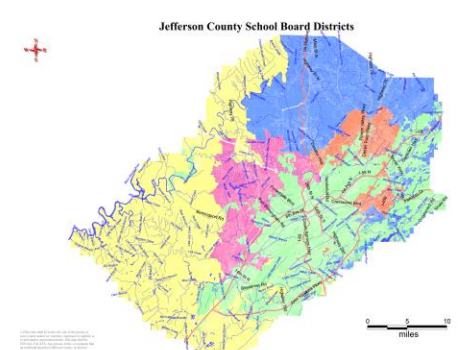
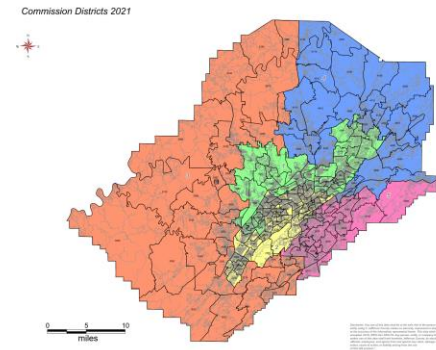
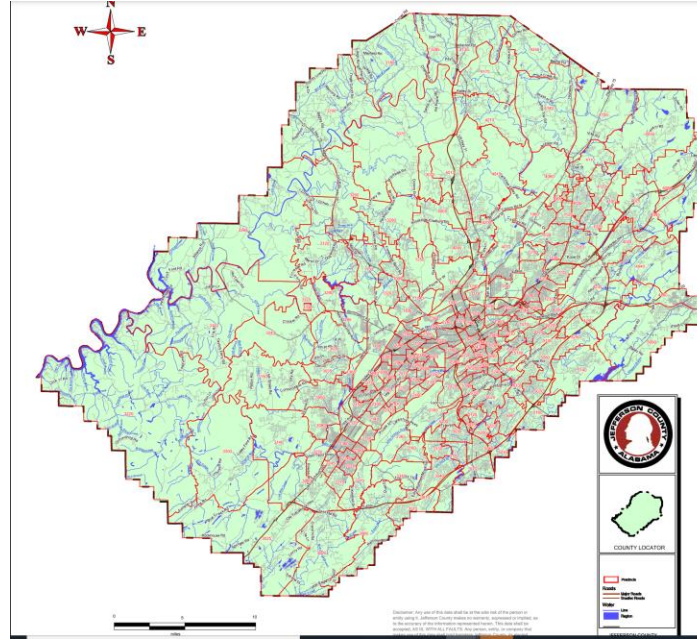
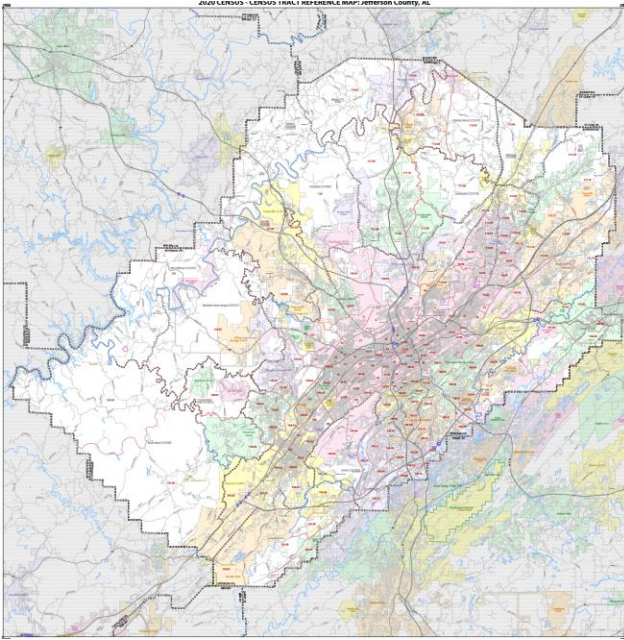


Districting

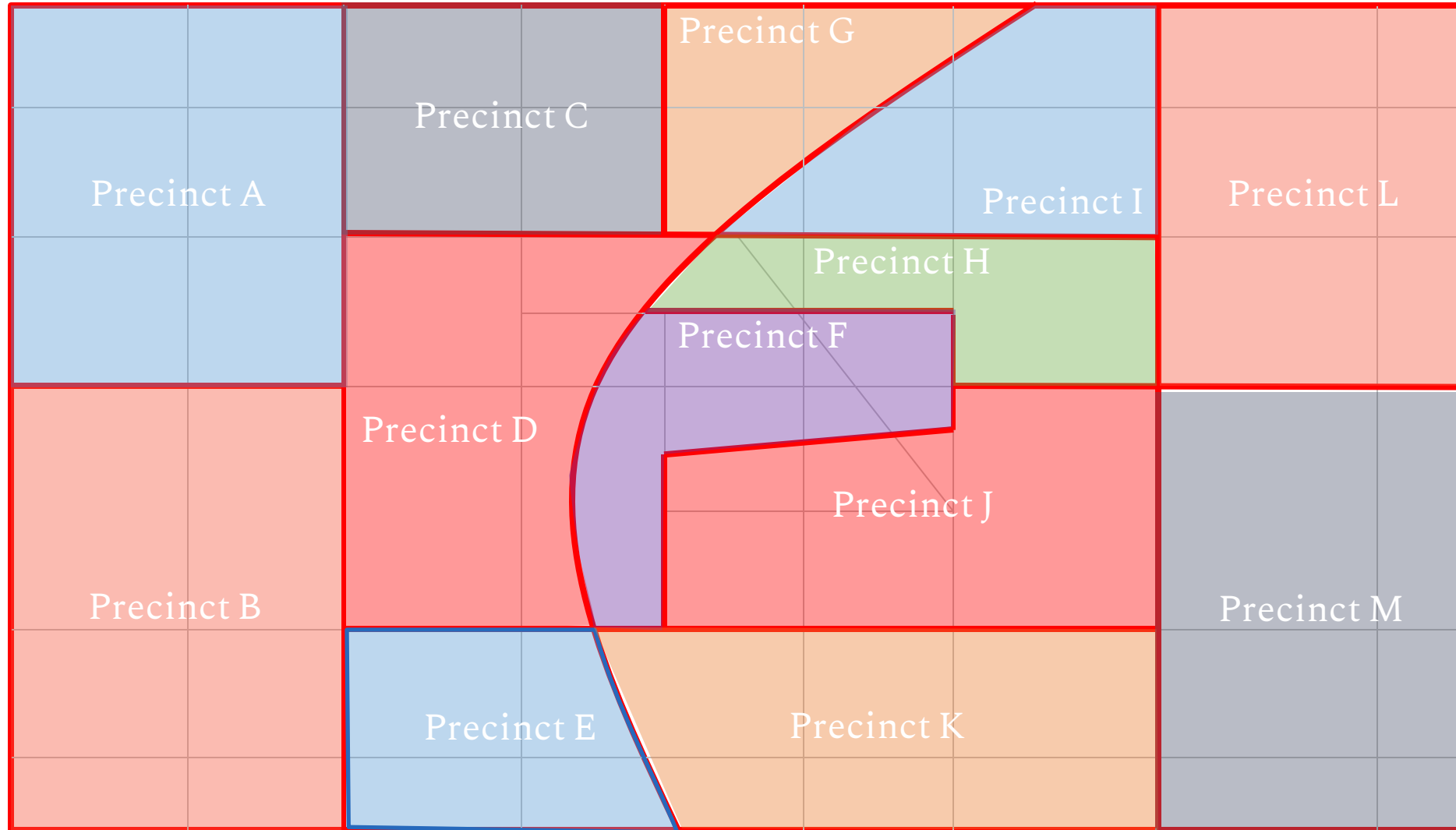
Census

Precincts

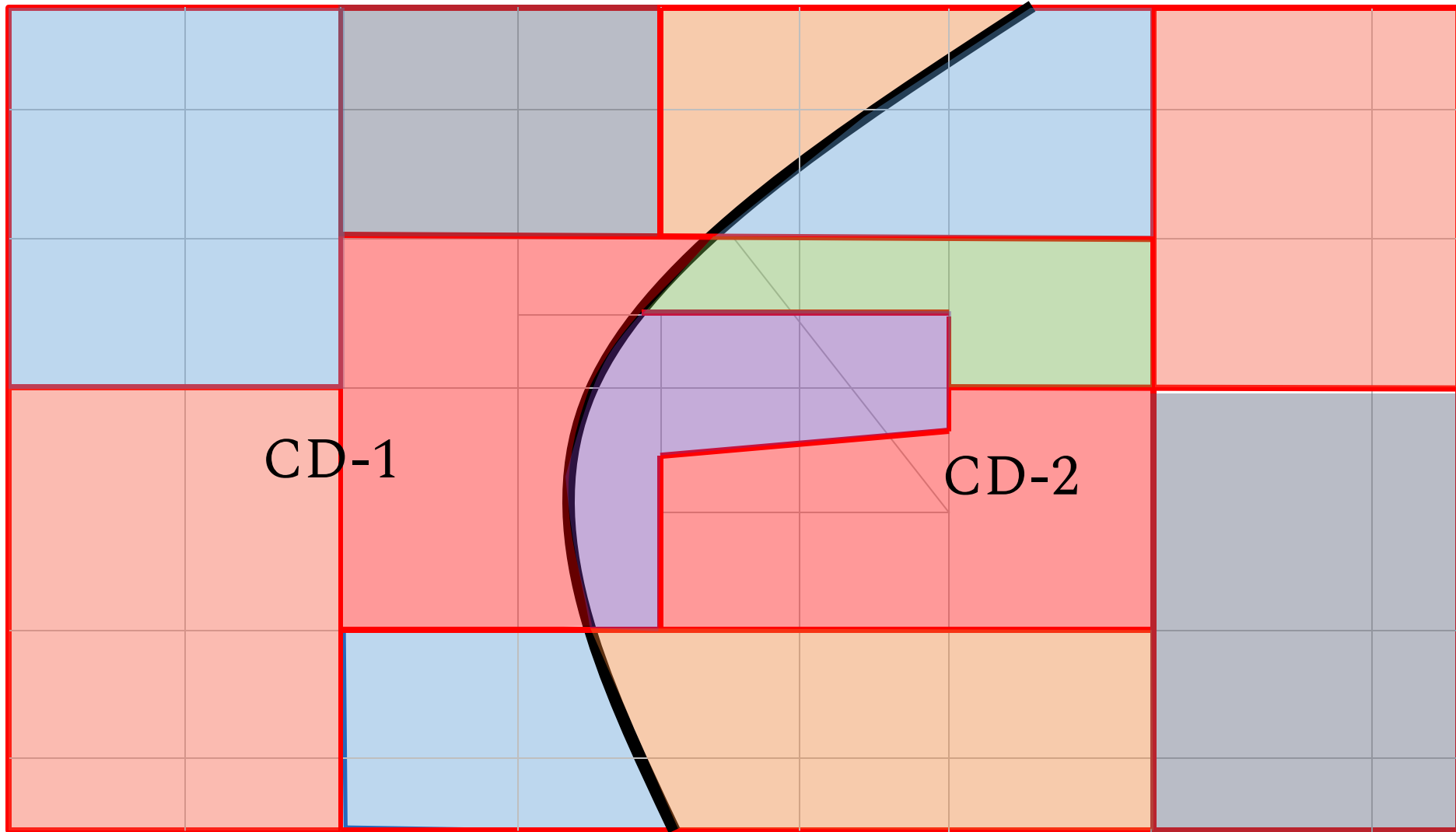
Districts



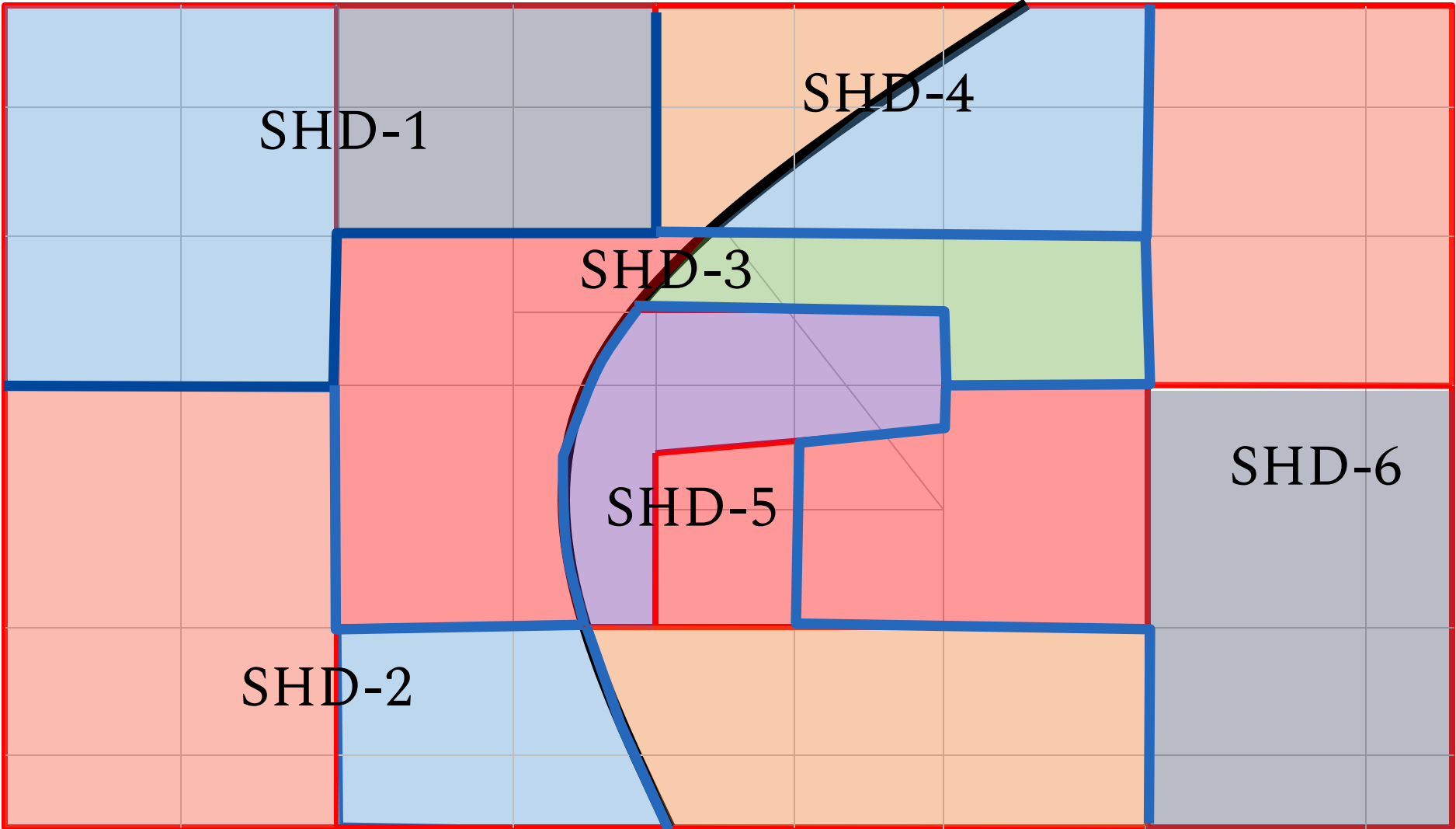
Voting Tabulation Districts (Precincts)



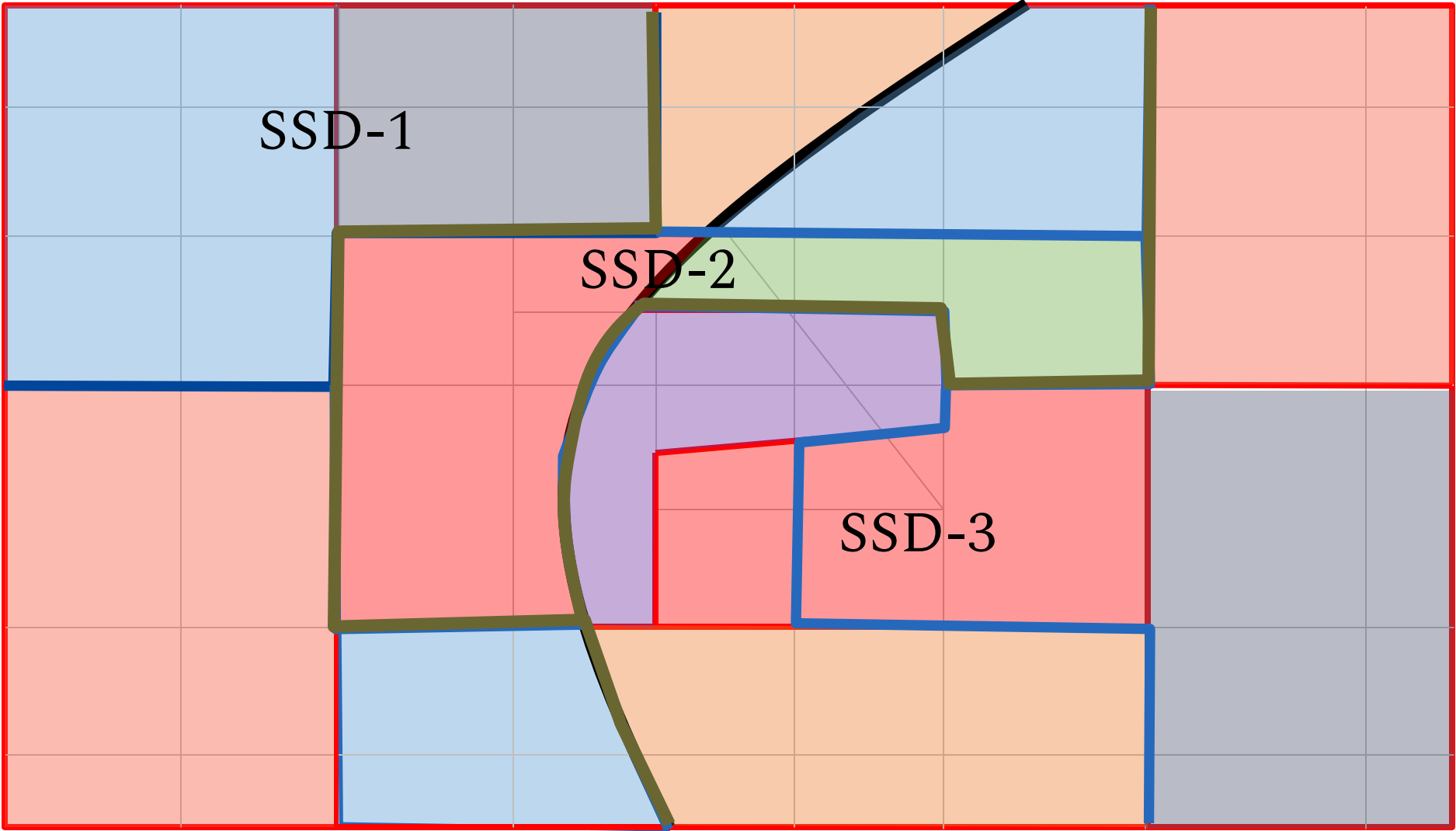
Congressional Districts



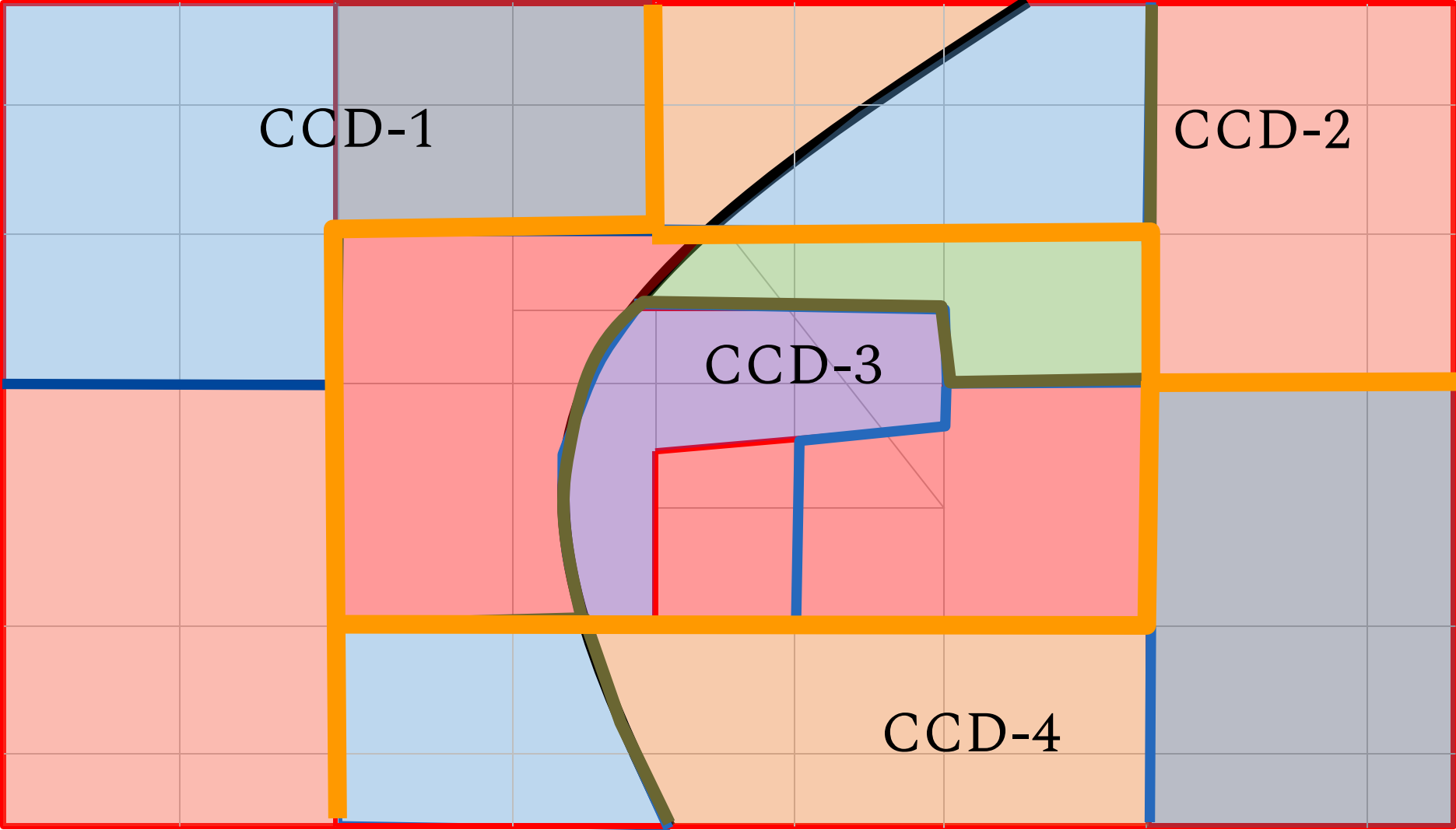
State House Districts



State Senate Districts



County Commission Districts



3.8M active voters



3.8M active voters

6,372 precincts



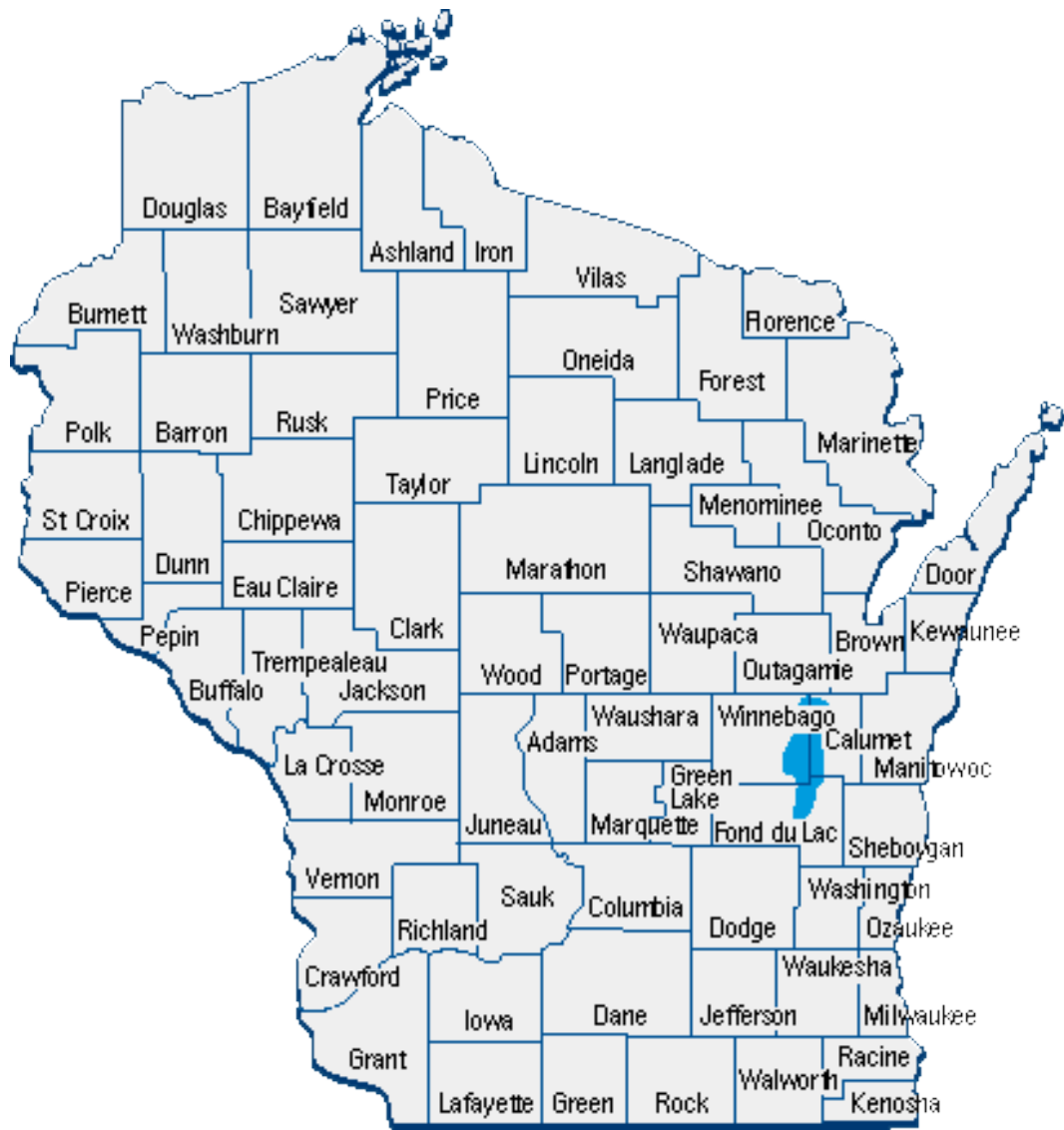


3.8M active voters

6,372 precincts

8,624 district combos





3.8M active voters

6,372 precincts

8,624 district combos

42% of precincts
have more than 1
district combo



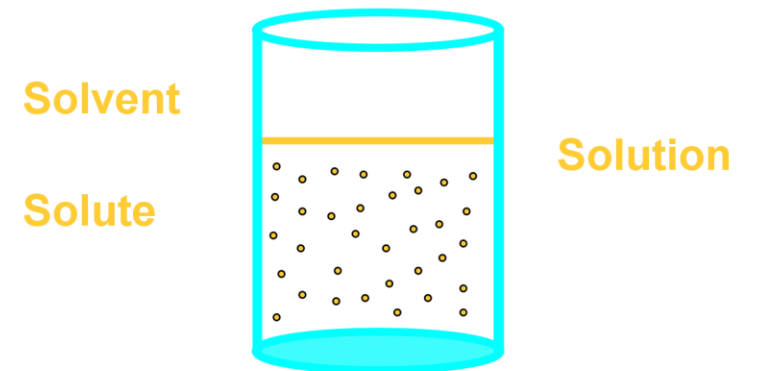
The Problems

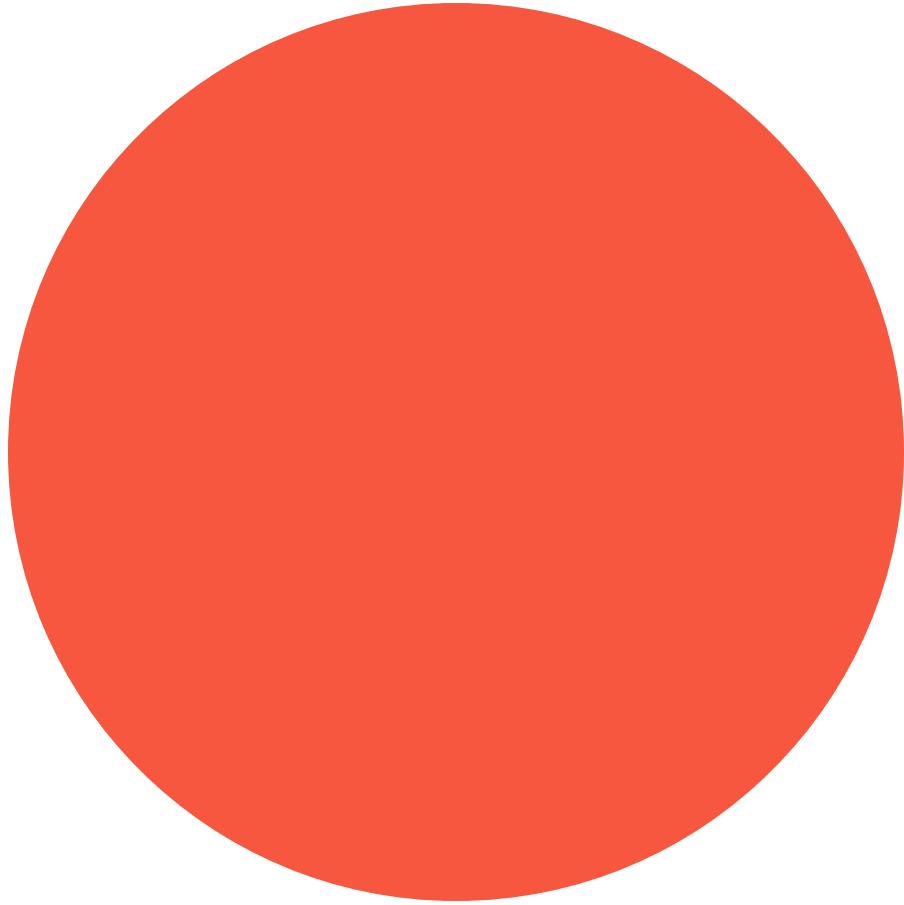
- + The traditional way of drawing maps and translating maps to updated voting files was manual and error-prone.

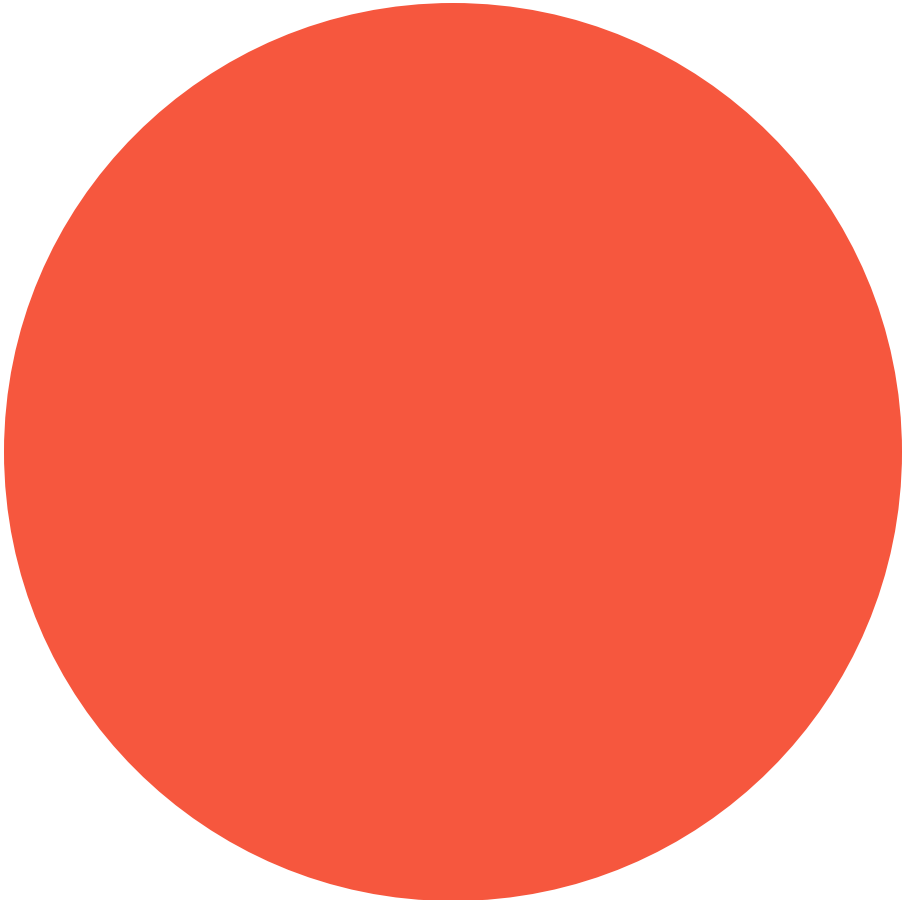


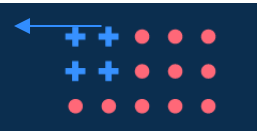
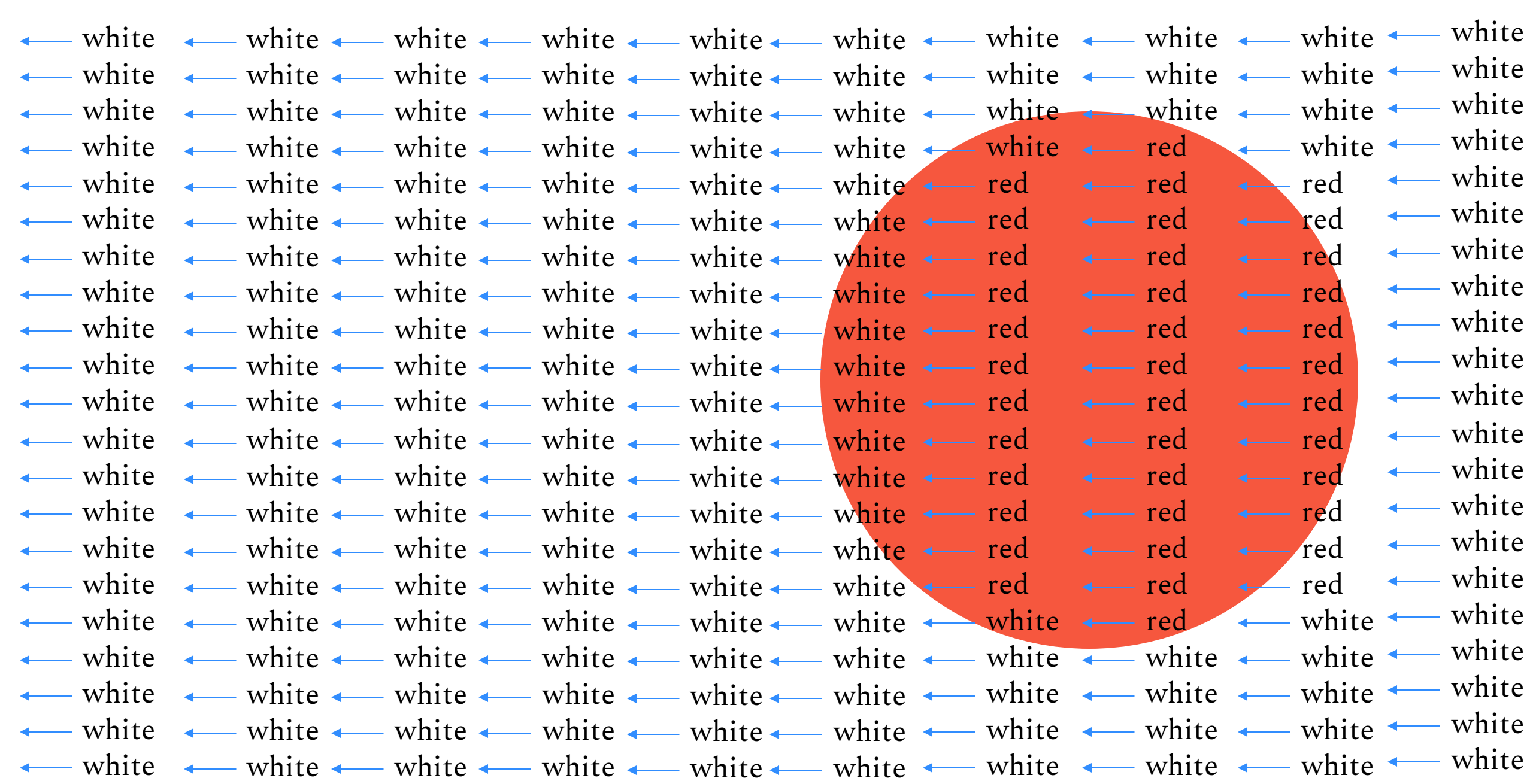
The Problems

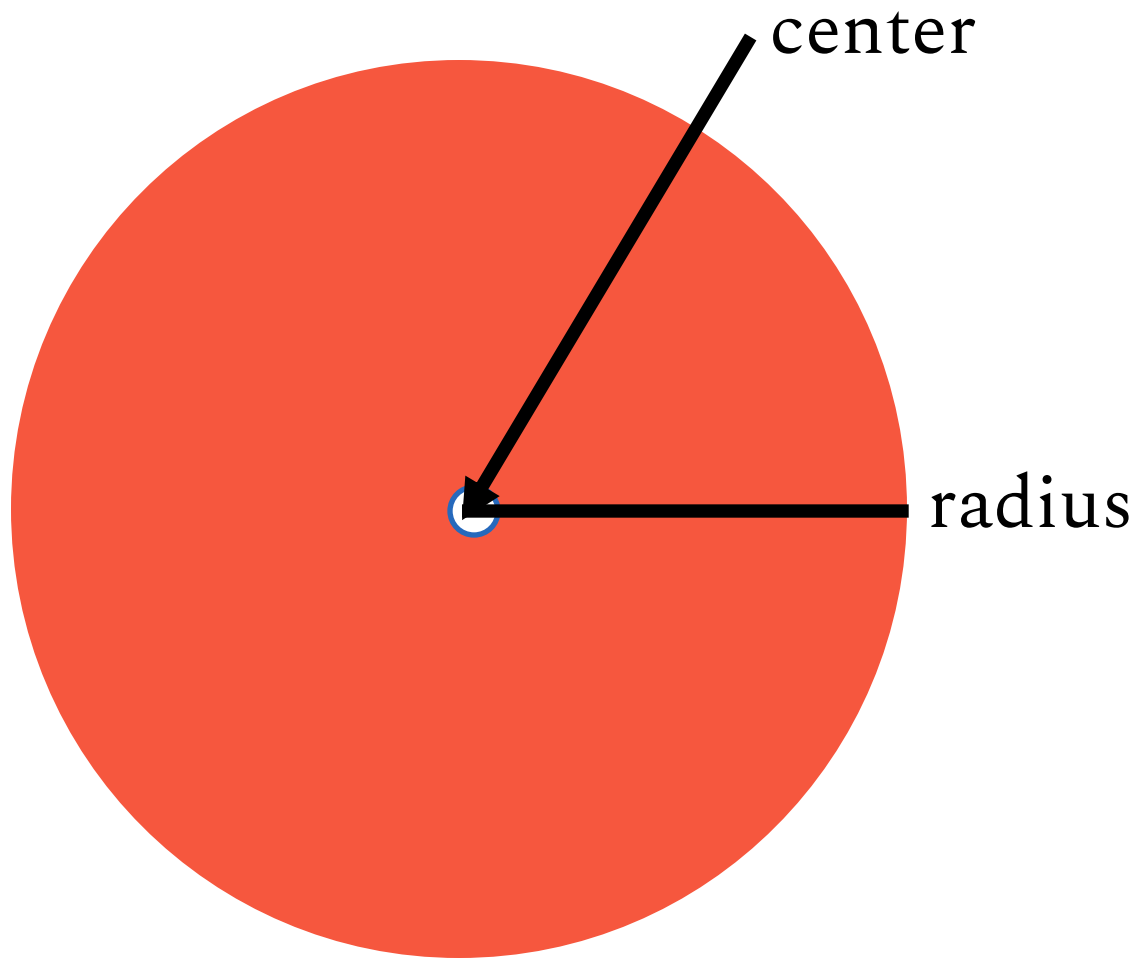
- + The traditional way of drawing maps and translating maps to updated voting files was manual and error-prone.
- + **Geographic Information Systems** make keeping track of voters and geographies more streamlined and less error-prone.







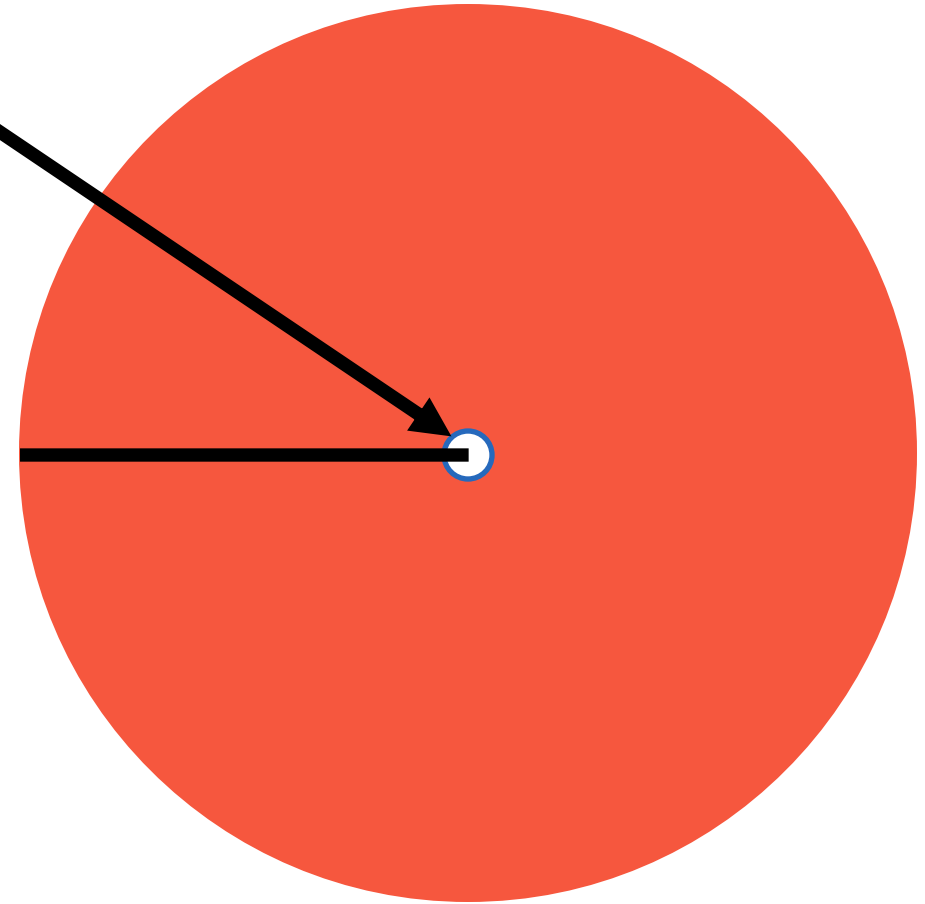




Color it red, the rest is white

new center

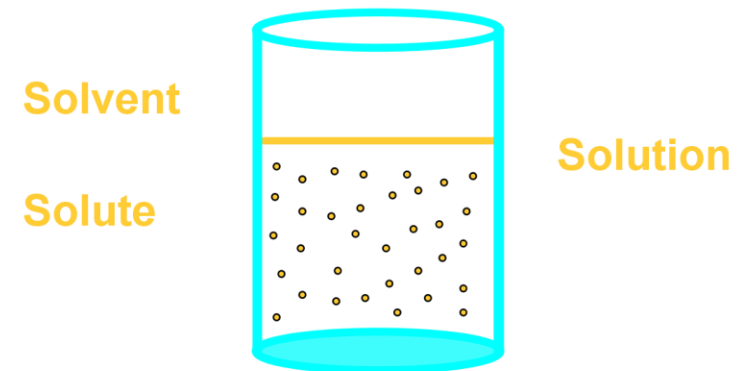
radius



Color it red, the rest is white

The Problems

- + The traditional way of drawing maps and translating maps to updated voting files was manual and error-prone.
- + **Geographic Information Systems** make keeping track of voters and geographies more streamlined and less error-prone.



The Problems

- +The traditional way of drawing maps and translating maps to updated voting files was manual and error-prone.
- +Some redistricting authorities may use outmoded ways of drawing (or describing districts) while election officials use more modern **Geographic Information Systems** (or vice versa).



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 - One estimate has 12% of voters being given incorrect ballots



The Problems

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- + Some redistricting authorities may use outmoded ways of drawing (or describing districts) while election officials use more modern Geographic Information Systems (or vice versa).
- + Voters given the wrong ballot
 - One estimate has 12% of voters being given incorrect ballots
- + Candidates running in the wrong district



< All

News

Images

Videos

Books

More

Tools

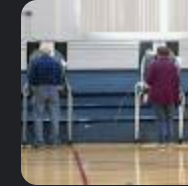
About 1,870 results (0.50 seconds)

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

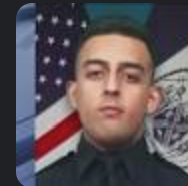


FOX 13 Tampa Bay

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



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Georgia candidate running in wrong House district





ELECTION MODERNIZATION WITH GIS



**Tools and Trainings
for Election Directors**
IMPROVING AMERICA'S
ELECTIONS with GIS
[CLICK HERE](#)



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





253 million eligible



253 million eligible



210 million registered



9.5 million die (5%)

253 million eligible



210 million registered



9.5 million die (5%)

253 million eligible



90 million move
within state (43%)

210 million registered



9.5 million die (5%)

253 million eligible



90 million move within state (43%)

210 million registered



19 million move between states (9%)



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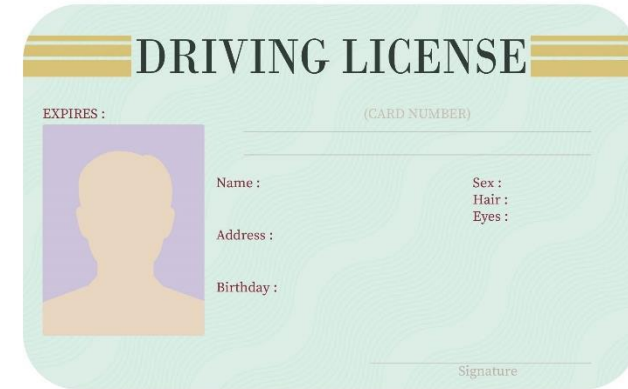
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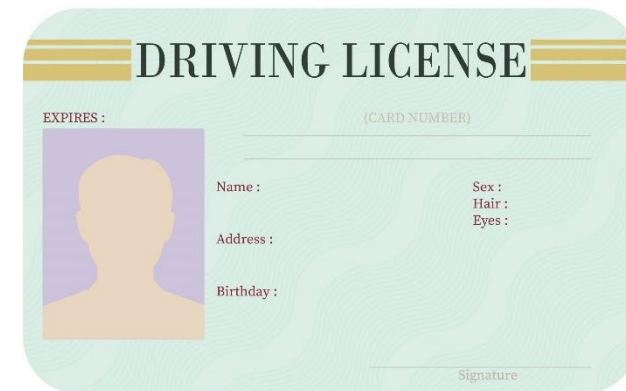
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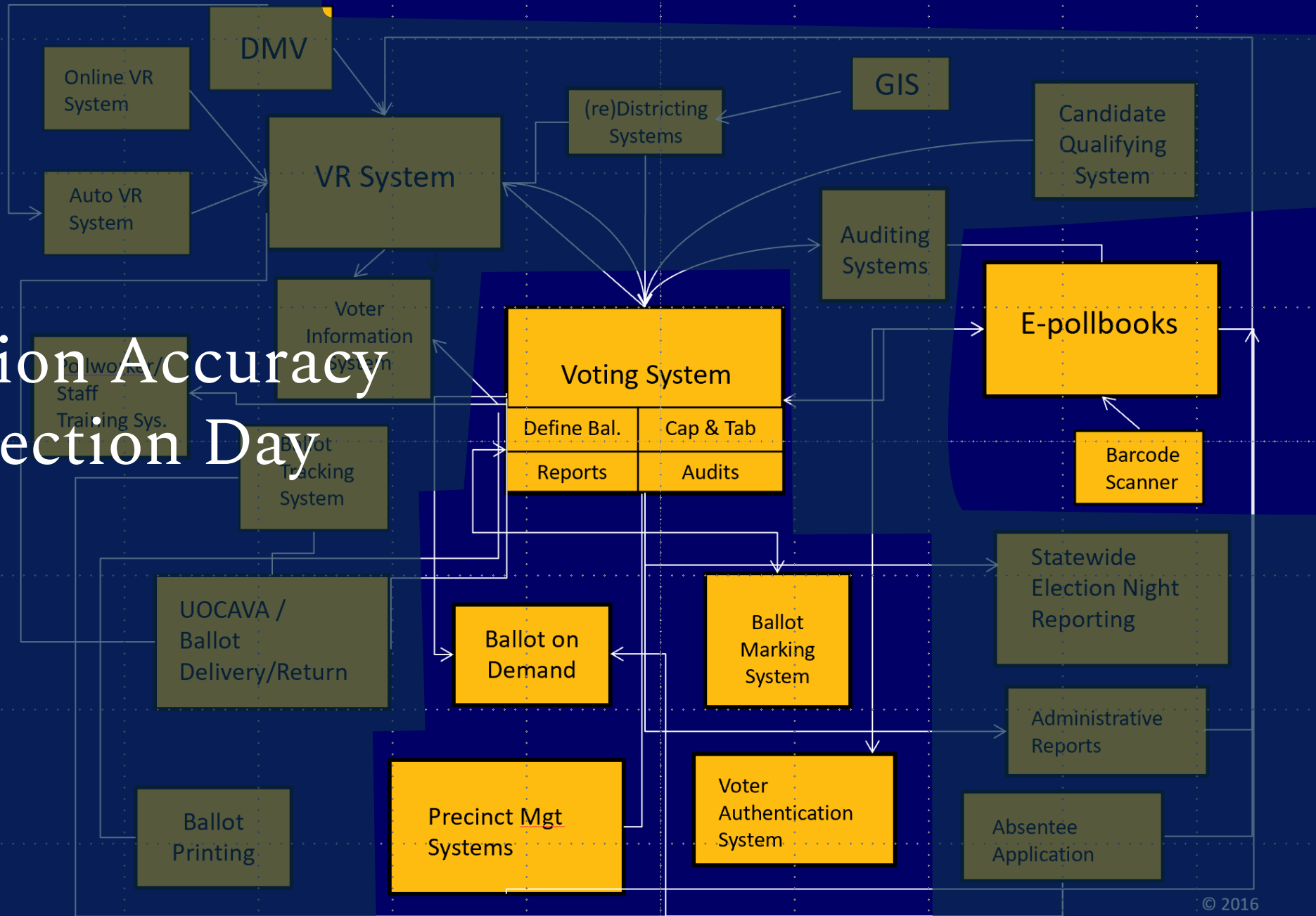


19 million move between states (9%)



Interaction of Voting and Election Systems

Election Accuracy
on Election Day

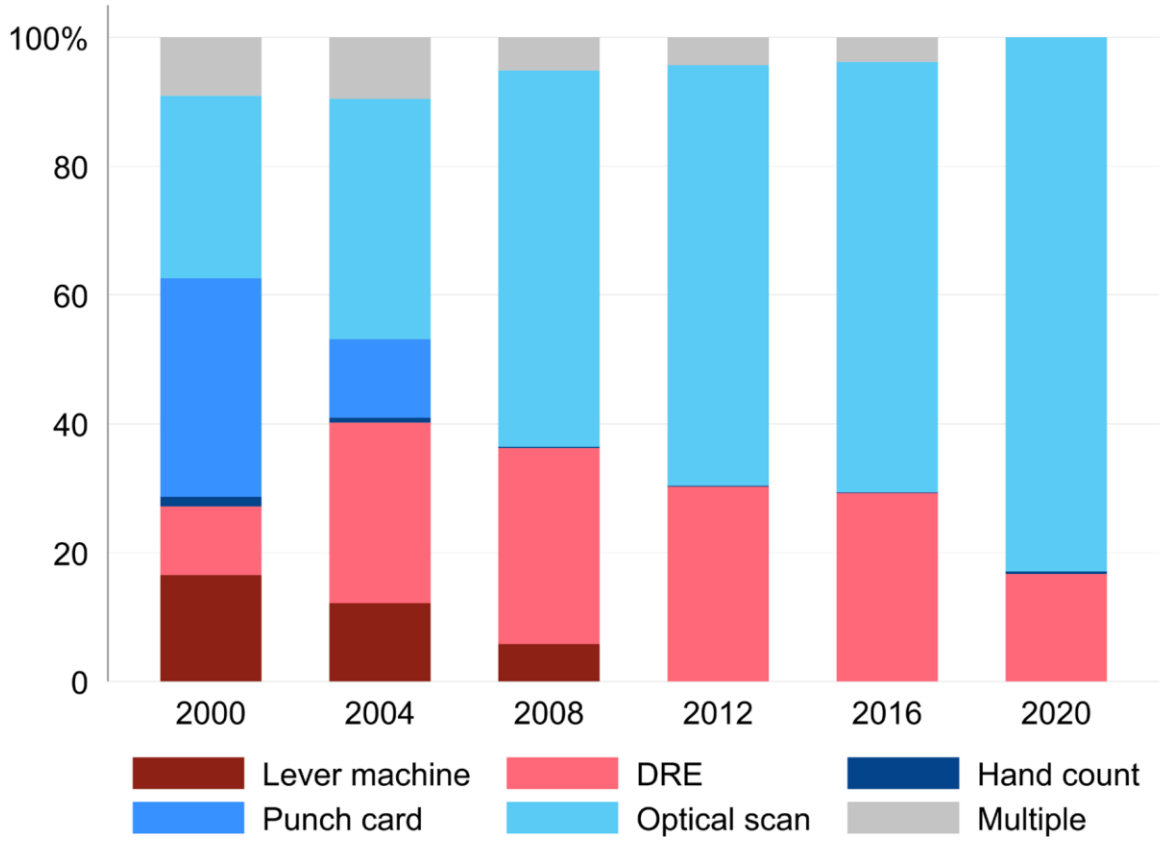




1700s to now



1890s to 2010



1960s to 2010



1960s to now



1970s to now

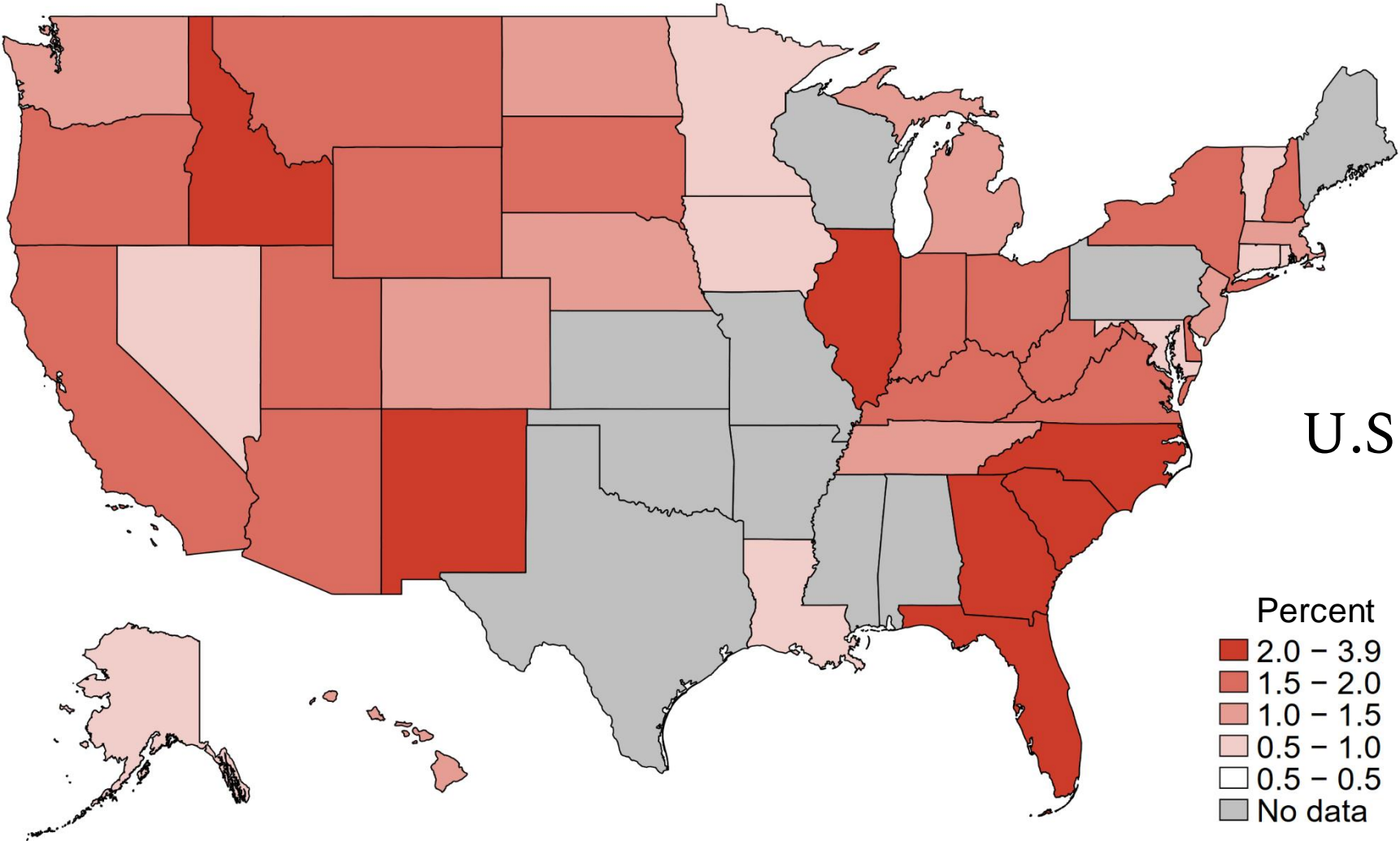


Residual Vote Rate Is (ONE) Measure of Accuracy

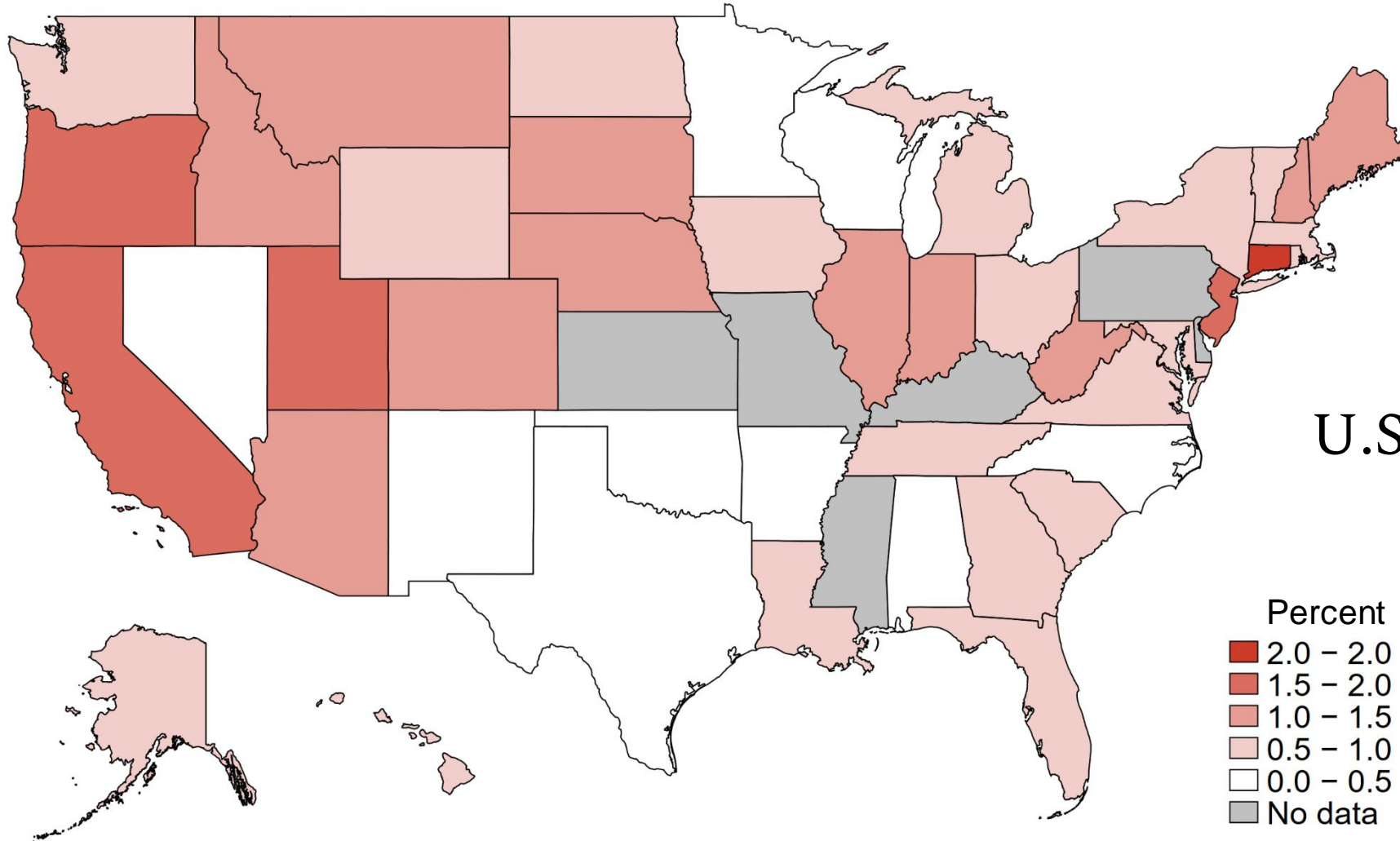
$$\frac{\textit{Overvotes} + \textit{Undervotes}}{\textit{Turnout}}$$



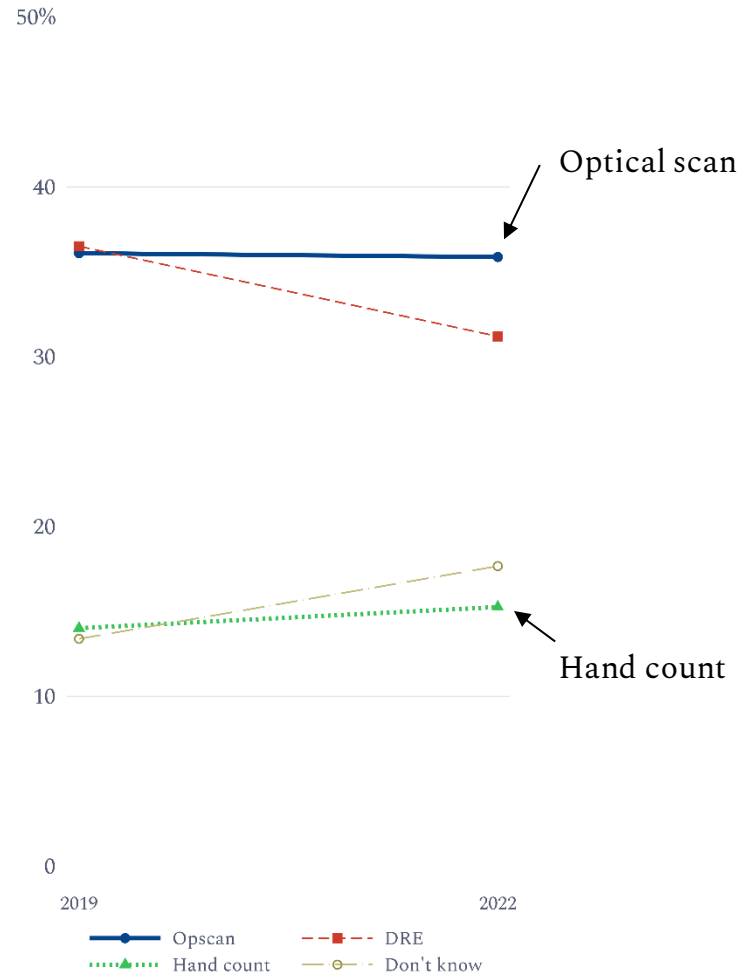
Residual Vote Statistics in 2000



Residual Vote Statistics in 2020



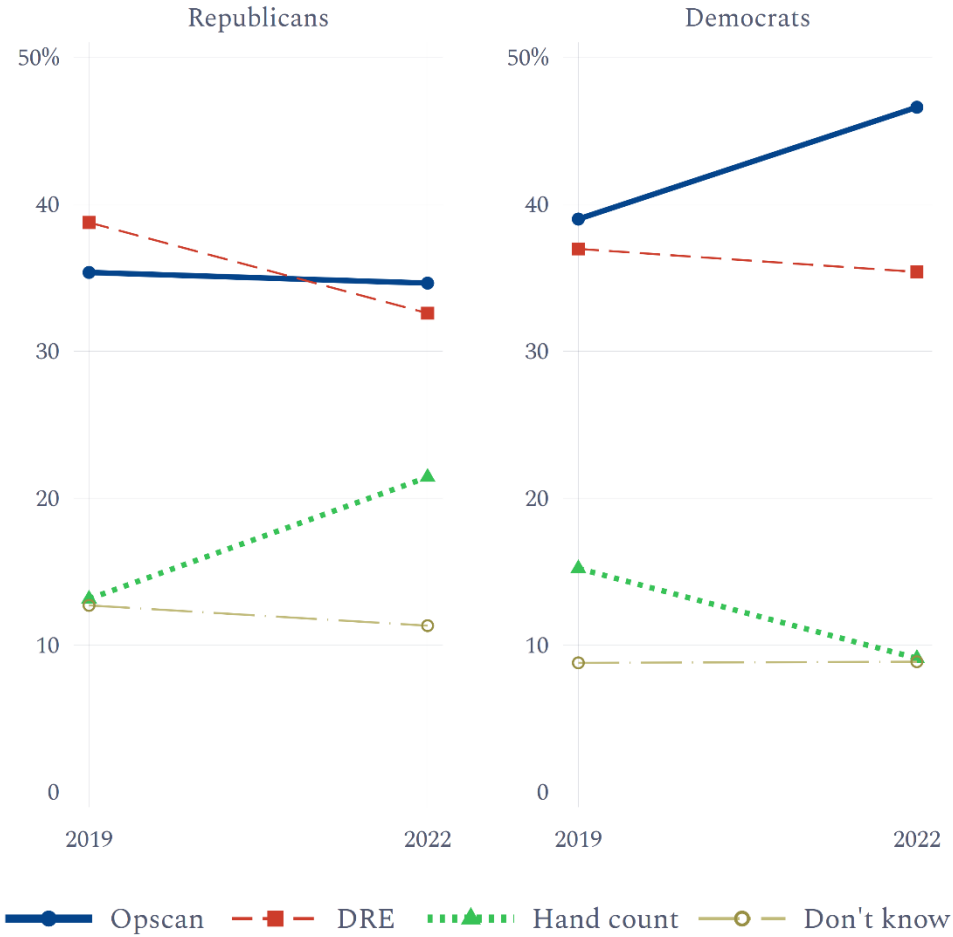
Hand-Counting vs. Optical Scanning



Which type of voting machine would you prefer to vote on?



Hand-Counting vs. Optical Scanning



Which type of voting machine would you prefer to vote on?

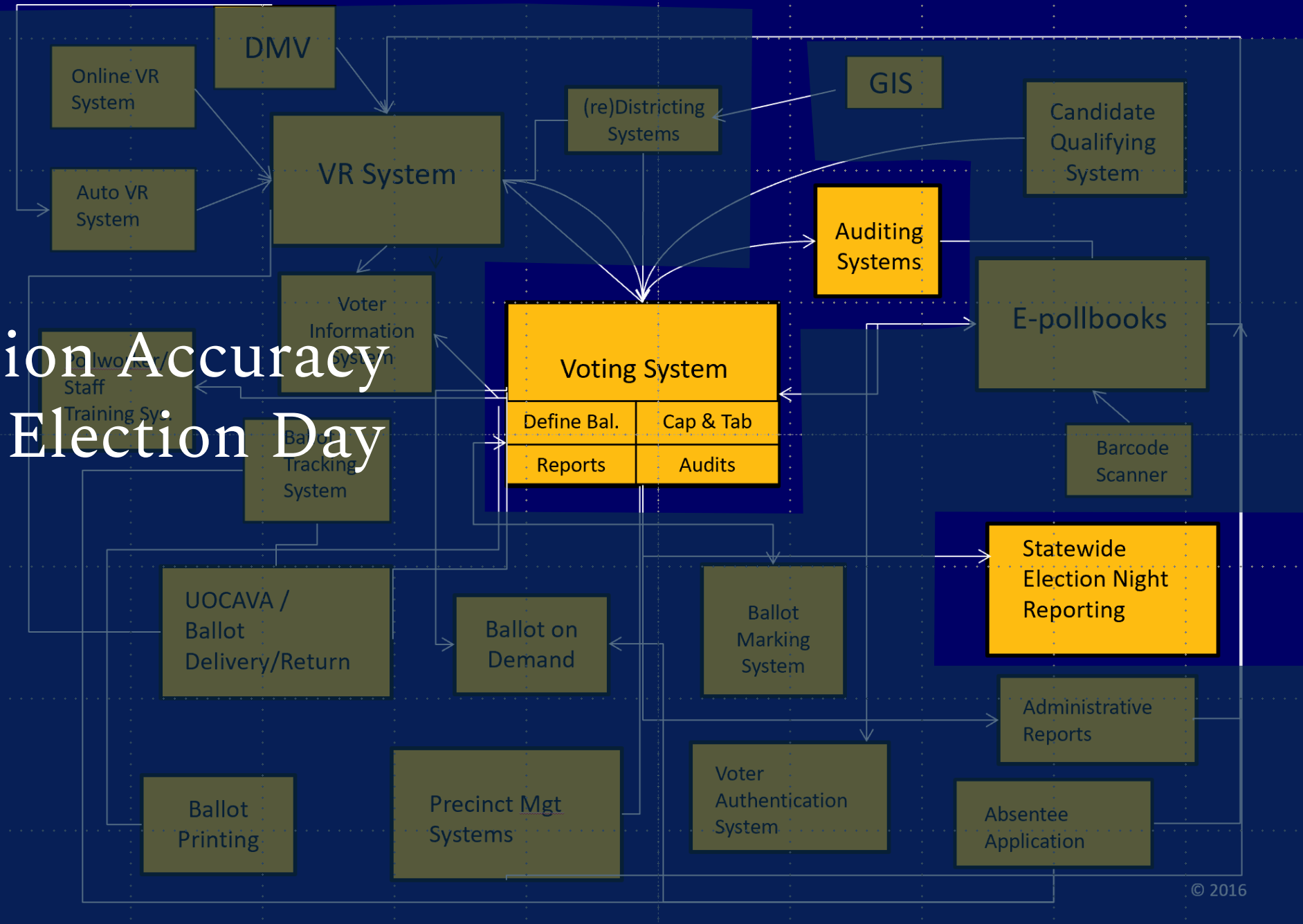


Research on Accuracy of Counting

- + Hand counting is slightly less accurate than optical scanning
- + Counters are subject to fatigue



Interaction of Voting and Election Systems



Election Accuracy
after Election Day



FACTS

CONTROL

METHODS

AUDIT

RISKS

MANAGEMENT

PLANNING





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](#)

From 2020 post-election audits

- + 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.





Chicago Daily Tribune

THE WORLD'S GREATEST NEWSPAPER

HOME

VOL. CVII - NO. 264

(REG. U.S. PAT. OFFICE, COPYRIGHT 1944 BY THE CHICAGO TRIBUNE)

WEDNESDAY, NOVEMBER 3, 1948

FOUR CENTS - PAY NO MORE

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 (R.)
 SECRETARY OF STATE—William G. Stratton (R.)
 AUDITOR—Simon A. Murray (R.)
 TREASURER—Elmer H. Droste (R.)
 ATTY. GEN.—George F. Barrett (R.)
 *Re-elected.

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Early returns last night indicated that the Dewey-Warren Republican ticket and the state ticket headed by Sen. Brooks and Gov. Green would carry

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Probable Winners

STATE'S ATTORNEY—Boyle (R.) or Malachy J. Coghlan (R.)
 RECORDER OF DEEDS—Victor L. Schlaeger (D.)
 CIRCUIT COURT CLERK—John E. Conroy (D.) or M. Reinecke (R.)
 CORONER—A. L. Boyd (D.) or Frank Killeu (R.)
 SUPERIOR COURT CLERK—Henry Sonnenschein (D.)
 SANITARY DISTRICT TRUSTEES (3)—Frank W. Chestow (D.), John A. Chullerton (D.), and Casimir Grigalik (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 leads in Chicago wards darkened the outlook last night for Republican candidates for state's attorney and other Cook county offices.

RECORD CITY VOTE SEEN IN LATE TALLIES

Suburban Ballot Near 375,000

A record vote is expected to be tallied 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 established in 1944.

BULLETIN ON ELECTIONS

COOK COUNTY—4 precincts of 9,231 in Illinois, Barrett D 415, Stratton R 633.
 DEWEY R 128,016, WALLACE R 128,016, TRUMAN D 5023 in Cook county.
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 GOVERNOR—481 pcts. of 5023 in Cook county Stevenson D 133,374, Green R 68,973.
 Lieutenant Governor—14 pcts. of Cook county: Dixon D 3,968, Rowe R 1,495.
 State's Attorney—524 pcts. of 5023 in Cook county: Boyle D 134,682, Coghlan R80, Heller P 3,959.
 Secretary of State—14 pcts. of 4143 in Chicago: Barrett D 4,003, Stratton R 1,494.
 State treasurer—14 pcts. of 4,143 in Chicago: Smith D 3,994, Droste R 1,475.
 Oklahoma—2 precincts of 3,701 Kerr D 164, Rizley R 89.
 Rhode Island—4 districts of 266, Truman 545, Dewey 1,294, Wallace 9.
 Rhode Island senator—4 districts of 266; Green D 557, Hazard R 1,237.
 Columbia, S.C., Nov. 2—(AP)—Gov. J. Strom Thurmond, States' rights presidential candidate, captured his home state's eight electoral college votes today.
 Georgia—105 out of 1,736 precincts Truman 2,272, Dewey 325, Thurmond 690, Wallace

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World's most famous election-night reporting gaffe





Chicago Daily Tribune

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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 districts of 2,217. Truman 85; Dewey 2, Wallace 2.

Florida--60 precincts of 1,523. Dewey 3,983. 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--1,155 polling places of 710. Truman 187,800. Dewey 221,233. Wallace 1,389; governor, 22 polling places. Hart R 3,264. Lausche D 978.

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

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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 here that the complete picture would disclose that Dewey won the Presidency by an overwhelming majority of electoral votes.

Herbert Brownell, manager of the Dewey campaign, claimed on



RESULTS

United States Senator (Vote For 1)

DEM	Michael Bennet
REP	Joe O'Dea
UNI	T.J. Coile
LBR	Brian Peotter
APV	Frank Atwood

The New York Times

2020 President Senate House Exit Polls State Results

U.S. House Election Results

Democrats held onto their majority in the House, but Republicans narrowed their disadvantage by flipping 15 seats.

222 Democrats 213 Republicans

77,442,688 votes (50.8%) 218 FOR CONTROL 72,709,974 votes (47.7%) Flipped 15 seats (+12 net gain)

Presidential Election Results

Joe Biden Kamala Harris 306 ✓
Donald Trump Mike Pence 232

81,283,495 votes (51.4%) 270 NEEDED TO WIN 74,223,755 votes (46.9%)

2020 Live States Counties

NEWS WATCH NOW

DECISION 2020 President State results Senate House 2022 Midterm calendar

NOVEMBER 3, 2020

North Dakota Election Results 2020

ND | PRESIDENT | HOUSE | GOVERNOR

North Dakota President Results

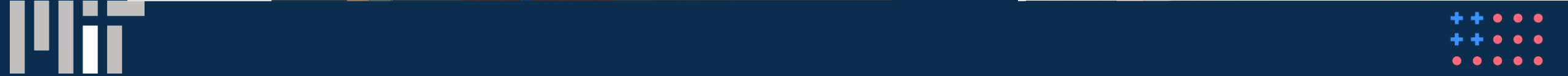
3 ELECTORAL VOTES

DONALD TRUMP	65.1%	235,595
JOE BIDEN	31.8%	114,902

100% OF EXPECTED VOTE IN

RACE DETAILS >

SHOP PUMA.COM





The New-York Times.

VOL. X.—NO. 2849.

NEW-YORK, WEDNESDAY, NOVEMBER 7, 1860.

PRICE TWO CENTS.

THE PRESIDENTIAL ELECTION.

ASTONISHING 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.

District	Republican.	Fusion.
First District	143	439
Second District	262	364
Third District	107	318
Fourth District	52	114
Fifth District	98	188
Total	594	1440
Majority		936

SECOND WARD.

First District	119	214
Second District	204	294
Total	323	508
Majority		286

THIRD WARD.

First District	89	219
Second District	75	127
Third District	86	174
Fourth District	35	51
Total	285	571
Majority		306

FOURTH WARD.

First District	189	346
Second District	149	440
Third District	54	144
Fourth District	40	281
Fifth District	27	232
Sixth District	21	194
Seventh District	48	43
Total	528	1833
Majority		1305

FIFTH WARD.

First District	139	240
Second District	92	147
Third District	148	313
Fourth District	229	291
Fifth District	137	309
Sixth District	145	273
Seventh District	164	298
Eighth District	89	280
Total	1133	2150
Majority		1018

SIXTH WARD.

First District	24	48
Second District	26	56
Third District	57	310
Fourth District	37	310
Fifth District	38	466
Sixth District	55	727
Seventh District	31	102
Eighth District	70	290
Ninth District	38	462
Total	396	2817
Majority		2421

SEVENTH WARD.

First District	136	246
Second District	79	448
Third District	214	148
Fourth District	92	103
Fifth District	145	262
Total	667	1217
Majority		550

Third District	309	452
Fourth District	125	147
Fifth District	136	185
Sixth District	165	223
Seventh District	87	176
Eighth District	129	226
Ninth District	74	959
Tenth District	159	297
Eleventh District	98	138
Twelfth District	48	455
Thirteenth District	52	262
Fourteenth District	1,758	3,891
Total		2,072
Majority		

NINETEENTH WARD.

First District	212	419
Second District	209	334
Third District	329	443
Fourth District	263	373
Fifth District	170	306
Total	1,174	1,848
Majority		774

TWENTIETH WARD.

First District	78	227
Second District	210	328
Third District	210	414
Fourth District	234	234
Fifth District	150	251
Sixth District	212	309
Seventh District	287	297
Eighth District	183	285
Ninth District	157	300
Tenth District	157	251
Eleventh District	212	264
Twelfth District	286	286
Thirteenth District	155	296
Fourteenth District	202	234
Total	2,748	4,122
Majority		1,374

TWENTY-FIRST WARD.

First District	183	324
Second District	116	271
Third District	149	321
Fourth District	167	286
Fifth District	196	344
Sixth District	99	229
Seventh District	74	125
Eighth District	108	161
Ninth District	157	210
Tenth District	224	296
Eleventh District	223	290
Twelfth District	191	273
Thirteenth District	226	276
Fourteenth District	227	225
Total	2,230	3,485
Majority		1,255

TWENTY-SECOND WARD.

First District	139	261
Second District	183	296
Third District	212	348
Fourth District	229	236
Fifth District	137	159
Sixth District	126	115
Seventh District	154	244
Eighth District	187	181
Ninth District	245	388
Total	1,523	2,613
Majority		1,090

Niagara	51	205
Ontario	2185	2892
Albany	4229	3251
Oran	620	467
Orange	1846	932
Orleans	621	618
Otsego	328	254
Putnam	1549	557
Queens	612	192
Rensselaer	3410	2225
Richmond	1769	2321
Rockland	1795	861
Saratoga	1786	1002
Schenectady	380	65
Schoharie	2091	1102
Schuyler	1109	63
Seneca	727	460
Steenen	2018	908
St. Lawrence	6410	4919
Suffolk	1822	936
Sullivan	1930	1439
Tioga	483	1020
Tompkins	1119	760
Ulster	6801	1692
Warren	463	695
Washington	1894	1761
Wayne	529	1445
Westchester	6691	2223
Wyoming	1694	1316
Yates	1128	1028
Total	44,778	44,570

MISCELLANEOUS RETURNS.

GENESSEE COUNTY.—Balswin—Lincoln, 150 majority.
Leroy—Lincoln, 214 majority, Alexander—213 for Lincoln.

WYOMING COUNTY.—Attica—Lincoln, 131 majority.
Livingston County.—Genesee—Lincoln, 124 majority.
Avon—Lincoln, 110 majority. Danville—Fusion, 24 majority. Lima—Lincoln, 110 majority.

Rochester City, complete—Lincoln, 975 majority.
CHEMUNG COUNTY.—Chemung—Lincoln, 100 majority.
Horseheads—Lincoln, 30 majority; Republican gain, 75.

SENECA COUNTY.—The town of Corning gives Lincoln 238 majority. Hornby—Lincoln, 79 majority.
TOMPKINS COUNTY.—Town of Ithaca—Lincoln, 679; Fusion, 802. Fusion loss of 21.

TIoga COUNTY.—Barton, 50 majority for Lincoln—Republican gain, 87; Owego, Lincoln's majority, 300; Nichols, 152 Lincoln's majority; Smithboro, Fusion, 7 majority.

Three towns in Livingston County give Lincoln 351 majority.
ONTARIO COUNTY.—Manchester, Lincoln, 57 majority; Phelps, Fusion 5 majority.
SENECA COUNTY.—Seneca Falls, 62 majority for Lincoln.

CATOGA COUNTY.—Auburn City gives Lincoln 449 majority—a Republican gain over any previous vote of 149. Eleven Election Districts give 415 Republican gain over 1859.

SENECA COUNTY.—Waterson, 25 majority for Fusion.
WAYNE COUNTY.—Palmyra, Lincoln, 67 majority; Barton, Lincoln 310 majority; Macedon, Lincoln 163

publican majority; Pittsburgh complete, 2,457 Republican majority; Alleghany City, Republican majority 1,875. Increase in thirty-one Districts heard from 2,360 on October.

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

MASSACHUSETTS.

Berens, Tuesday, Nov. 6.
One Hundred and Forty-nine towns, not including Boston, give Lincoln, 53,299; Douglas, 15,724; Breckinridge, 3,197. 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.

Asaiah Burlingame is defeated in the Fifth District. In the Ninth District Gen. F. Barley is elected to Congress by 1,500 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 1,348 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, 802; Breckinridge, 72; Bell, 35.
Westport—Lincoln, 203; Douglas, 52; Fusion, 215.
Reading—Lincoln, 175; Breckinridge, 66; Douglas, 3.

Ridgefield—Lincoln, 290; Union, 29; Douglas, 4; Breckinridge, 112.
New-Canaan—Lincoln, 308; Douglas, 13; Breckinridge, 8; Union, 182; Bell, 6.

Walton—Lincoln, 237; Douglas, 29; Breckinridge, 54; Bell, 18.
Bridgeport—Lincoln, 1,110; Breckinridge, 462; Douglas, 475; Bell, 29.

Fairfield—Lincoln, 296; Breckinridge, 189; 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, 55; Breckinridge, 90; Douglas, 1; Bell, 2.
Trumbull—Lincoln 161; Breckinridge 144; Dou-

ELECTION DAY IN THE CITY

ALL QUIET AND ORDERLY AT THE POLLS.

Progress of the Voting in the Several Wards.

THE CITY AFTER NIGHTFALL.

HOW THE NEWS WAS RECEIVED.

Unbounded Enthusiasm at the Republican and Bell-Everett Headquarters.

THE TIMES OFFICE BESIEGED.

Midnight Display of Wide-Awakes.

BONFIRES AND ILLUMINATIONS.

The clouds lowered gloomily over the City yesterday morning, when the polls were opened, and very shortly afterward rain began to drizzle, with every prospect of a wet day. Was it an omen, and if so, an ill omen to the Lincoln or Fusion ticket? It did not, at any rate, keep one or the other party from the polls, for never in the history of any political contest in this country, has more enthusiasm been exhibited, and the result has proved that though the "clouds" may have "lowered," the hopes of the Republican Party were not "in the deep bosom of the ocean buried." But of that anon and elsewhere.

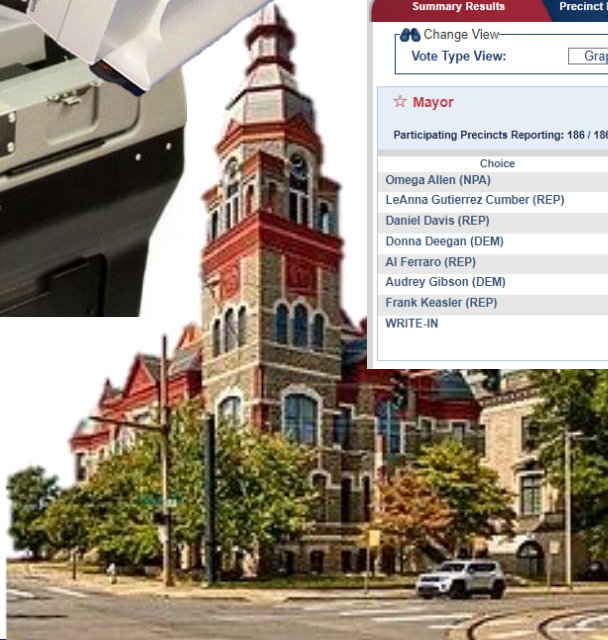
People generally were awake—wide awake, in fact—very early yesterday, for they knew they had a duty to perform which could not occur but once in four years, and in the actual shape it assumed, perhaps not more than once in a lifetime. And whether they were Republicans or Fusionists, they went to work with a will. The clouds were dispelled; the sun shone forth as a beneficent sun should shine on such an occasion, and a general good time













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](#)

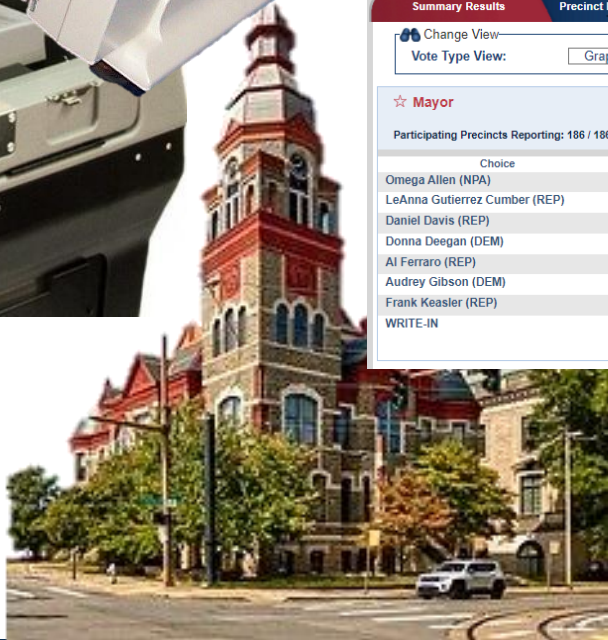
Change View:

☆ **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

2023 Duval First Unitary

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

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

Summary Results
Precinct Results
Maps
Reports
Favorite Races

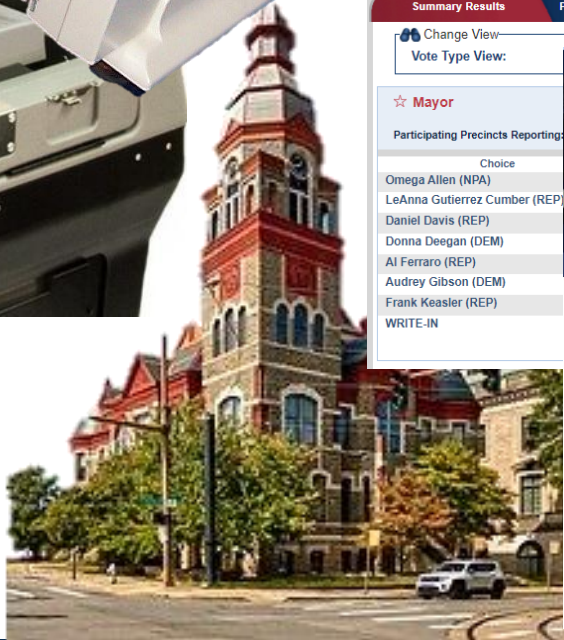
Change View
Vote Type View: Graphical

★ Mayor

Participating Precincts Reporting: 186 / 186 Precinct Details Show Detailed View

Choice	Percent	Votes
Omega Allen (NPA)	0.94%	1,584
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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)
- LeAnna Gutierrez Cumber (REP)
- Daniel Davis (REP)
- Donna Deegan (DEM)
- Al Ferraro (REP)
- Audrey Gibson (DEM)
- Frank Keasler (REP)
- 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 2
State District Offices 203

Official & Complete Results

RESULTS

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

★ Federal and Statewide Offices

★ United States Senate (Note For I)

Counties/Precincts Reporting 100%	Percentage	Votes
Narsche Junior Walker (Rep)	48.4%	1,908,642
Raphael Warnock (Dem)	49.44%	1,946,117
Chase Oliver (Lib)	2.07%	81,365
		3,935,824

Share Click for Control Details

State Constitutional Offices

★ Governor (Note For I)

COUNTIES/PRECINCTS REPORTING

Donut
Pie
Bar

COUNTIES COMPLETE 158/159
PRECINCTS COMPLETE 2722/2722

SEE COUNTRIES REPORTING

VOTER TURNOUT

TOTAL 87.02%



2023 Duval First Unitary

Election Date: 3/21/2023

(Website last updated at: 03/24/2023 4:35:42 pm)

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:

★ Mayor

Participating Precincts Reporting: 186 / 186 [Precinct Details](#) [Show Detailed View](#)

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GEORGIA SECRETARY OF STATE BRAD RAFFENSPERGER

November 8, 2022
GEORGIA'S ELECTIONS

RESULTS | MY FAVORITE RACES | COUNCIL REPORTING | TURNOUT

Federal and Statewide Offices

Official & Complete Results

RESULTS
Last updated: Monday, November 21, 2022, 3:03:02 PM (GMT-05:00)

★ Federal and Statewide Offices

Updated States Senate (View All)

County/Precinct Reporting Rate	Percentage	Votes
Wayne County	95.0%	108,041
Wayne County Precinct	95.0%	108,041
Other Statewide	2.0%	8,000
Other Statewide Precinct	2.0%	8,000

State Constitutional Offices

GOVERNOR (View All)

COUNTIES/COUNTY REPORTING

COUNTIES/COUNTY: 186/186
PRECINCTS COMPLETE: 100.00%

VOTER TURNOUT: 27.00%



Duval County
Mike Hogan, Supervisor of Elections

2023 Duval First Unitary Election Date: 3/21/2023

(Website last updated at: 03/24/2023 4:35:42 pm)

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:

★ Mayor Participating Precincts Reporting: 186 / 186 [Precinct Details](#) [Show Detailed View](#)

Choice	Percent	Votes
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GEORGIA SECRETARY OF STATE BRAD RAFFENSPERGER

November 8, 2022
GOVERNOR'S ELECTION

RESULTS | MY FAVORITE RACES | COUNTIES REPORTING | TURNOUT

Federal and Statewide Offices

Official & Complete Results

RESULTS
Last updated: Monday, November 21, 2022, 3:03:02 PM (A.M.P.R. 4:01)

★ Federal and Statewide Offices

Updated States Senate	Percentage	Votes
Counties Reporting 186%		
Provisional Voter Pool	46.0%	139,841
Ballot Requested Count	46.0%	139,841
Other State ID	2.0%	6,181
		146,022

State Constitutional Offices

GOVERNOR	27.0%
----------	-------

COUNTIES/PRECINCTS REPORTING

COUNTIES COUNTING 186/186
PRECINCTS COMPLETE 100.0%

VOTER TURNOUT 27.0%



Duval County
Mike Hogan, Supervisor of Elections

2023 Duval First Unitary Election Date: 3/21/2023

Registered Voters: 655,403
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Voter Turnout: 25.67%

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Early Votes: Completely Reported
Vote By Mail: Completely Reported

OFFICIAL RESULTS

Summary Results | Precinct Results | Maps | Reports | Favorite Races

Change View: Graphical

★ Mayor

Participating Precincts Reporting: 186 / 186

Choice	Percent	Votes
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GEORGIA SECRETARY OF STATE BRAD RAFFENSPERGER

November 8, 2022

RESULTS | MY FAVORITE RACES | COUNTIES REPORTING | TURNOUT

RESULTS

Updated: November 21, 2022, 10:02:02 PM (A) (P) (R) (E) (M) (I)

★ Federal and Statewide Offices

United States Senate	Percentage	Votes
Republican (Total)	46.0%	138,843
Democrat (Total)	49.0%	148,842
Other (Total)	5.0%	15,157

State Constitutional Offices

GOVERNOR: Brad Raffensperger (R) 57.0%

NATIONAL ELECTION POOL

abc CBS CNN NBC NEWS

ELECTION DAY COVERAGE

CONDUCTED BY EDISON RESEARCH
DISTRIBUTED BY REUTERS

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Exit Polls, Vote Count, Election Projections, Delegate Estimates*



Duval County
Mike Hogan, Supervisor of Elections

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OFFICIAL RESULTS

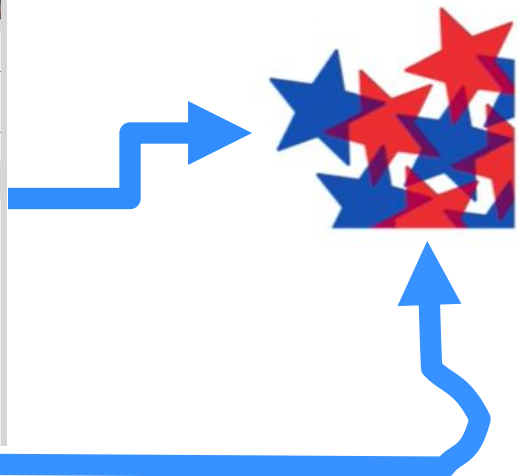
Summary Results | Precinct Results | Maps | Reports | Favorite Races

Change View: Vote Type View: Graphical

Mayor

Participating Precincts Reporting: 186 / 186

Choice	Percent	Votes
Omega Allen (NPA)	0.94%	1,584
LeAnna Gutierrez Cumber (REP)	7.58%	12,721
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AP ELECTIONS

GEORGIA SECRETARY OF STATE BRAD RAFFENSPERGER

November 8, 2022

RESULTS | MY FAVORITE RACES | COUNTIES REPORTING | TURNOUT

Official & Complete Results

RESULTS

Updated States Summary

State	Percentage	Votes
Alabama	46.0%	1,038,041
Arizona	49.0%	1,048,041
California	23.7%	40,801
Colorado		1,038,041

State Constitutional Offices

GOVERNOR: Brad Raffensperger

VOTER TURNOUT: 71.0%

NATIONAL ELECTION POOL

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ELECTION DAY COVERAGE

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Duval County
Mike Hogan, Supervisor of Elections

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Voter Turnout: 25.67%

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Vote By Mail: Completely Reported

OFFICIAL RESULTS

Summary Results | Precinct Results | Maps | Reports | Favorite Races

Change View: Graphical

Vote Type View: Graphical

Mayor

Participating Precincts Reporting: 186 / 186

Choice	Percent	Votes
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		167,867



AP ELECTIONS

GEORGIA SECRETARY OF STATE BRAD RAFFENSPERGER

November 8, 2022

RESULTS | MY FAVORITE RACES | COUNTIES REPORTING | TURNOUT

Official & Complete Results

RESULTS

Updated States Summary

County	Percentage	Votes
Alachua	46.0%	138,841
Bay	46.0%	138,841
Other	8.0%	24,178

State Constitutional Offices

Governor: Brad Raffensperger

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Duval County
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Voter Turnout: 25.67%

Precincts Reporting: 186 / 186
Election Day: Completely Reported
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Vote By Mail: Completely Reported

OFFICIAL RESULTS

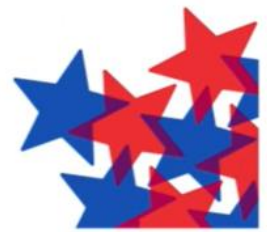
Summary Results | Precinct Results | Maps | Reports | Favorite Races

Change View: Graphical

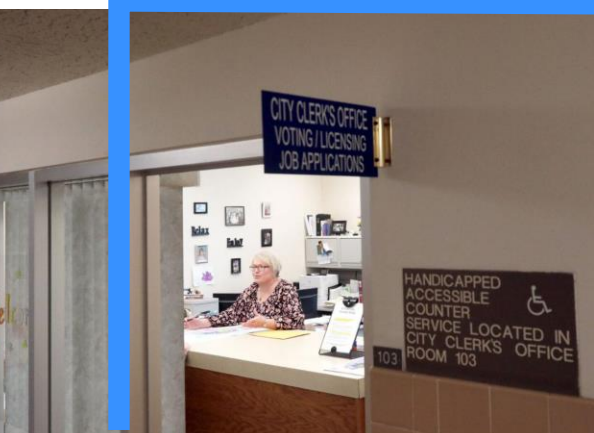
★ Mayor

Participating Precincts Reporting: 186 / 186

Choice	Percent	Votes
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AP ELECTIONS



GEORGIA SECRETARY OF STATE BRAD RAFFENBERGER

November 8, 2022

RESULTS | MY FAVORITE RACES | COUNTIES REPORTING | TURNOUT

RESULTS

Updated: Monday, November 21, 2022, 10:02:10 PM (A) (P) (R) (E) (M) (I) (S) (T) (A) (C) (T) (I) (O) (N) (S)

★ Federal and Statewide Offices

United States Senate	Percentage	Votes
Christie Natchez Reporting 98%	46.0%	1,084,641
Thyrea-Lorena Miller-Phel	46.0%	1,084,641
Sharon Rasmussen-Cramer	2.0%	46,814
Chris Olive-Lee	2.0%	46,814
		1,084,641

State Constitutional Offices

Governor: Neal Pritchett

COUNTIES COUNTING 186/188 PRECINCTS COMPLETE REPORTING

VOTER TURNOUT: 27.0%

NATIONAL ELECTION POOL

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ELECTION DAY COVERAGE

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OFFICIAL RESULTS

Summary Results | Precinct Results | Maps | Reports | Favorite Races

Change View: Vote Type View: Graphical

Mayor

Participating Precincts Reporting: 186 / 186

Choice	Percent	Votes
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AP ELECTIONS



GEORGIA SECRETARY OF STATE BRAD RAFFENSPERGER

November 8, 2022

RESULTS | MY FAVORITE RACES | COUNTIES REPORTING | TURNOUT

Federal and Statewide Offices

Official & Complete Results

RESULTS

Updated States Summary

State	Percentage	Votes
Alabama	46.0%	1,084,041
Arizona	49.0%	1,348,041
California	23.7%	80,801
Colorado	49.0%	1,084,041

State Constitutional Offices

Governor: Brad Raffensperger

Counties Reporting: 157 / 157

Counties Complete: 157 / 157

Voter Turnout: 71.0%

NATIONAL ELECTION POOL

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ELECTION DAY COVERAGE

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OFFICIAL RESULTS

Summary Results | Precinct Results | Maps | Reports | Favorite Races

Change View: Vote Type View: Graphical

Mayor

Participating Precincts Reporting: 186 / 186

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GEORGIA SECRETARY OF STATE BRAD RAFFENSPERGER

November 8, 2022

RESULTS | MY FAVORITE RACES | COUNTIES REPORTING | TURNOUT

Federal and Statewide Offices

RESULTS

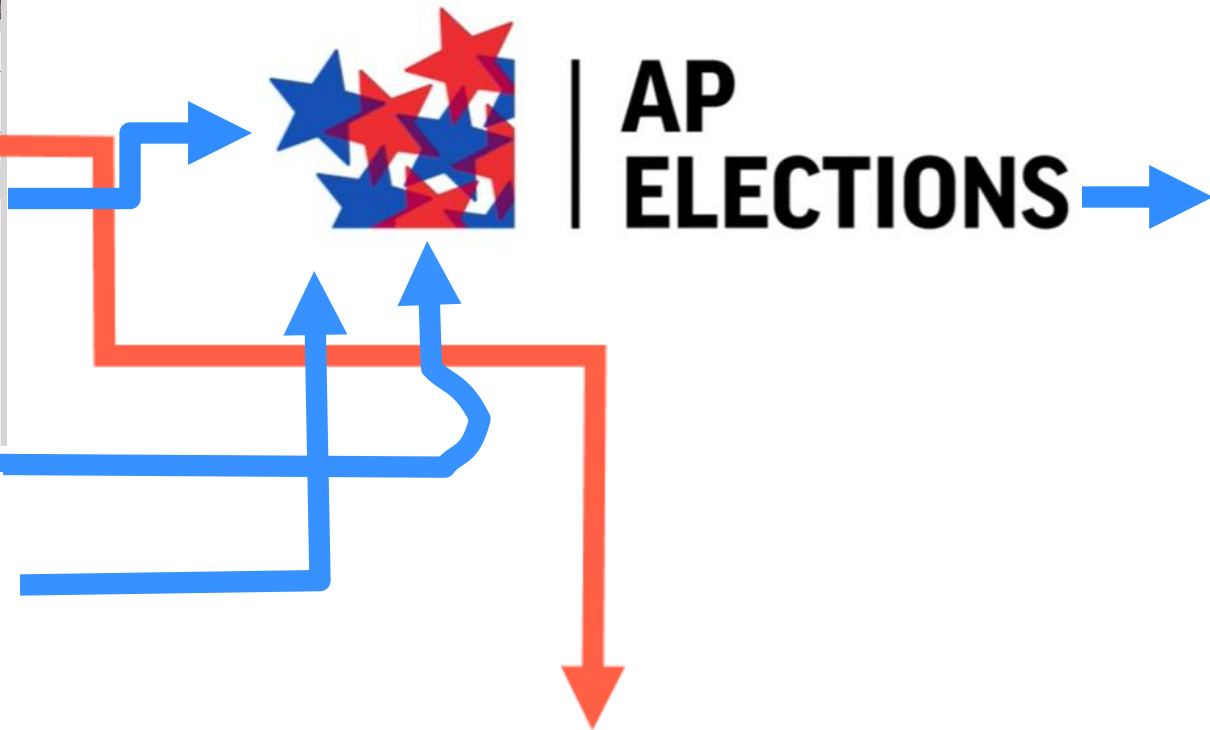
Updated States Summary

State	Percentage	Votes
Alabama	56.0%	1,038,041
Arizona	49.0%	1,048,041
California	27.0%	80,000
Florida	27.0%	1,000,000

State Constitutional Offices

GOVERNOR: Brad Raffensperger

VOTER TURNOUT: 71.0%



NATIONAL ELECTION POOL

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ELECTION DAY COVERAGE

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TRENDING TRUMP PALTROW TRIAL MISSISSIPPI TORNAADOES

#Do The Vote Talk

FOX NEWS DEMOCRACY 2022

Midterms Home | Senate | House | Governors | States | Voter Analysis | My Races

Midterm Summary | Top Stories | Key Senate Races | Key House Races | Key Governor Races

LIVE UPDATES Last Updated: Mar 26, 2023 2:02 pm ET

2022 Midterm Election Results

All Senate races have been called
Fox News projects one of two Republicans will prevail in Alaska's Senate race. This is factored in our balance of power calculation.

All House races have been called
Democrats projected to win 213 seats. Republicans projected to win 222 seats.

Democrats 51 | 51 needed | 49 Republicans | 36 no election

Democrats 213 | 218 | 222 Republicans | 29 no election

CNN politics The Biden Presidency Facts First

AMERICA'S CHOICE 2022 My Election Senate House Governor Secretary of State Ballot Measures State Results Exit Polls Polling

House of Representatives Results: GOP wins the majority

CNN coverage:

- What a 51-49 Senate majority means for Democrats
- Voters deliver ringing endorsement of abortion rights on midterm ballot initiatives across the US
- Why were the midterm elections so close? Exit polls offer clues
- How election deniers did in their 2022 midterm races

Jump to:

- My Election
- Senate results
- House results
- Governor results
- Secretary of State results
- Ballot Measures
- Exit Polls

Republicans will win the House of Representatives, CNN projects, in a victory that will fall short of their hopes of a "red wave" but thwart President Joe Biden's domestic agenda and will likely subject his White House to relentless investigations.

213 Democrats | 218 seats to control the House | 222 Republicans

6 Pickups | 19 Pickups

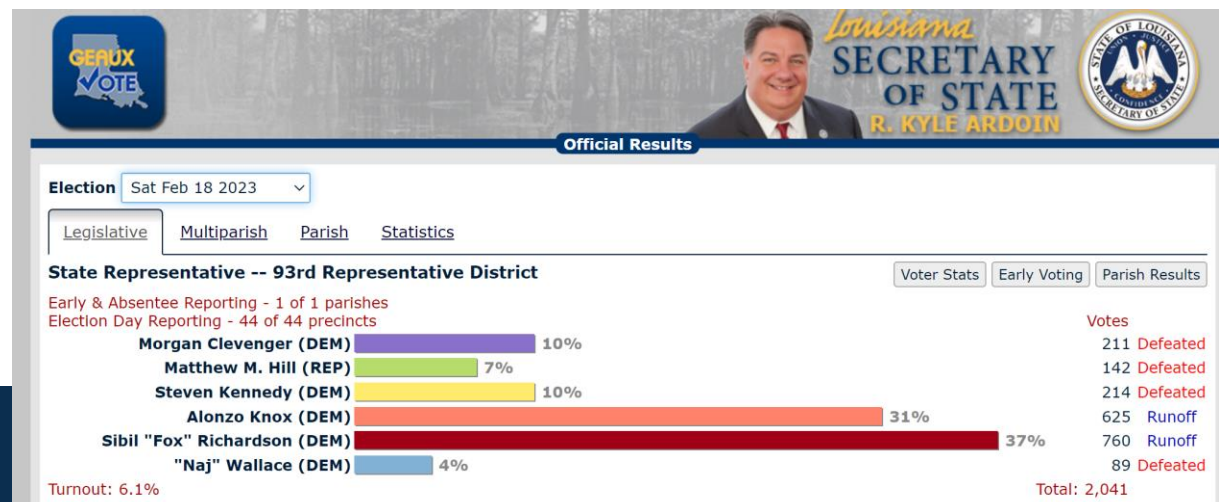
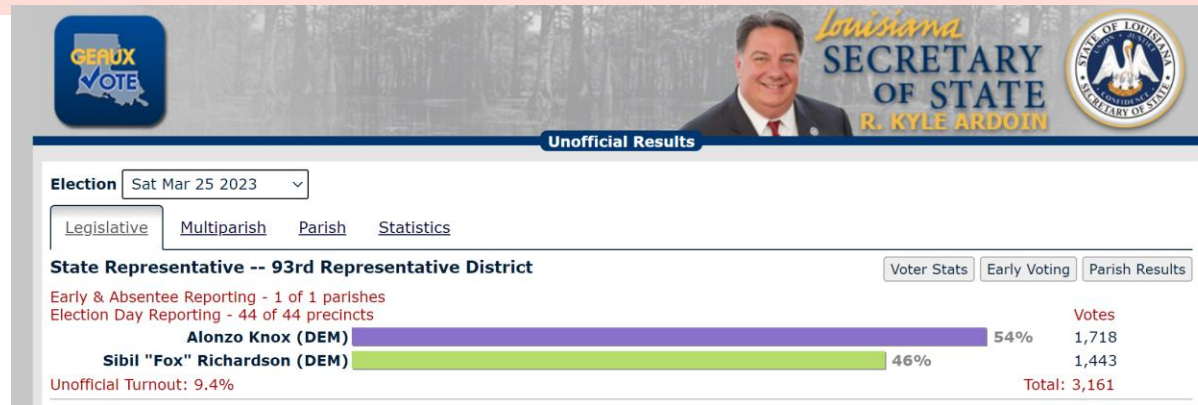


ENR Issues



ENR Issues

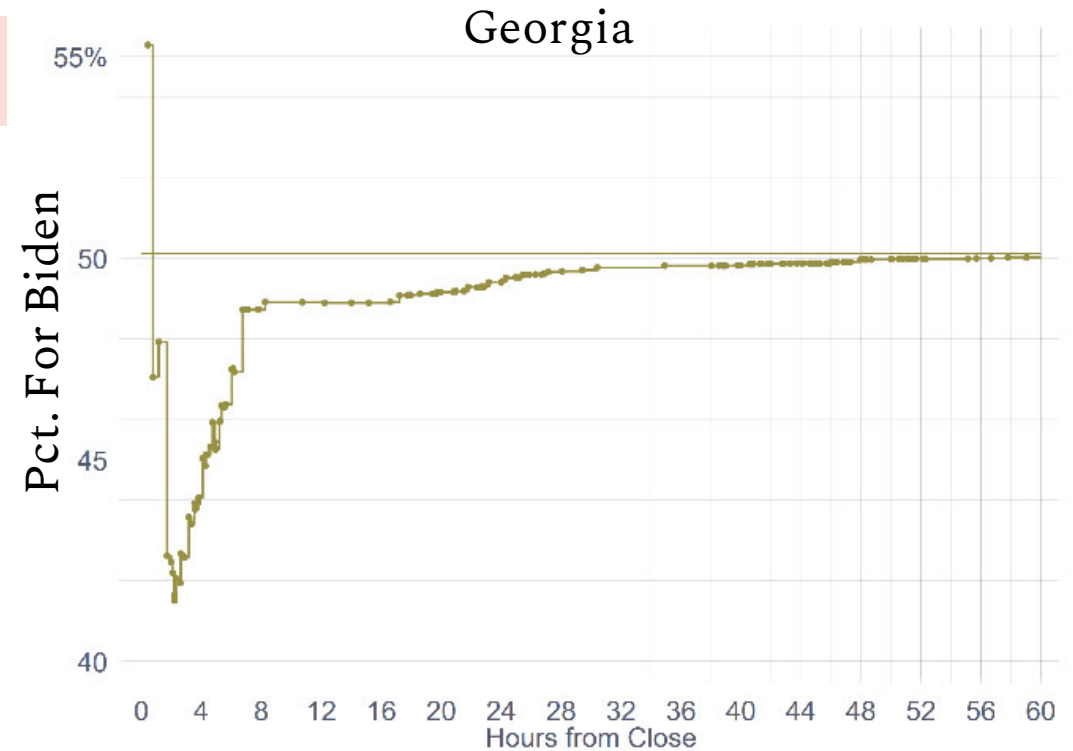
Confusion between *official election results* and *reports of unofficial election returns*



Issues

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

Blue Shift/Red Mirage



Issues

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

Blue Shift/Red Mirage

Phantom Voters



Issues

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

Blue Shift/Red Mirage

Phantom Voters

Errors

Issues

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

Blue Shift/Red Mirage

Phantom Voters

Errors

Discrepancies between state and county results



Issues

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

Blue Shift/Red Mirage

Phantom Voters

Errors

Discrepancies between state and county results

Discrepancies between government and media reports



Issues

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Blue Shift/Red Mirage

Phantom Voters

Errors

Discrepancies between state and county results

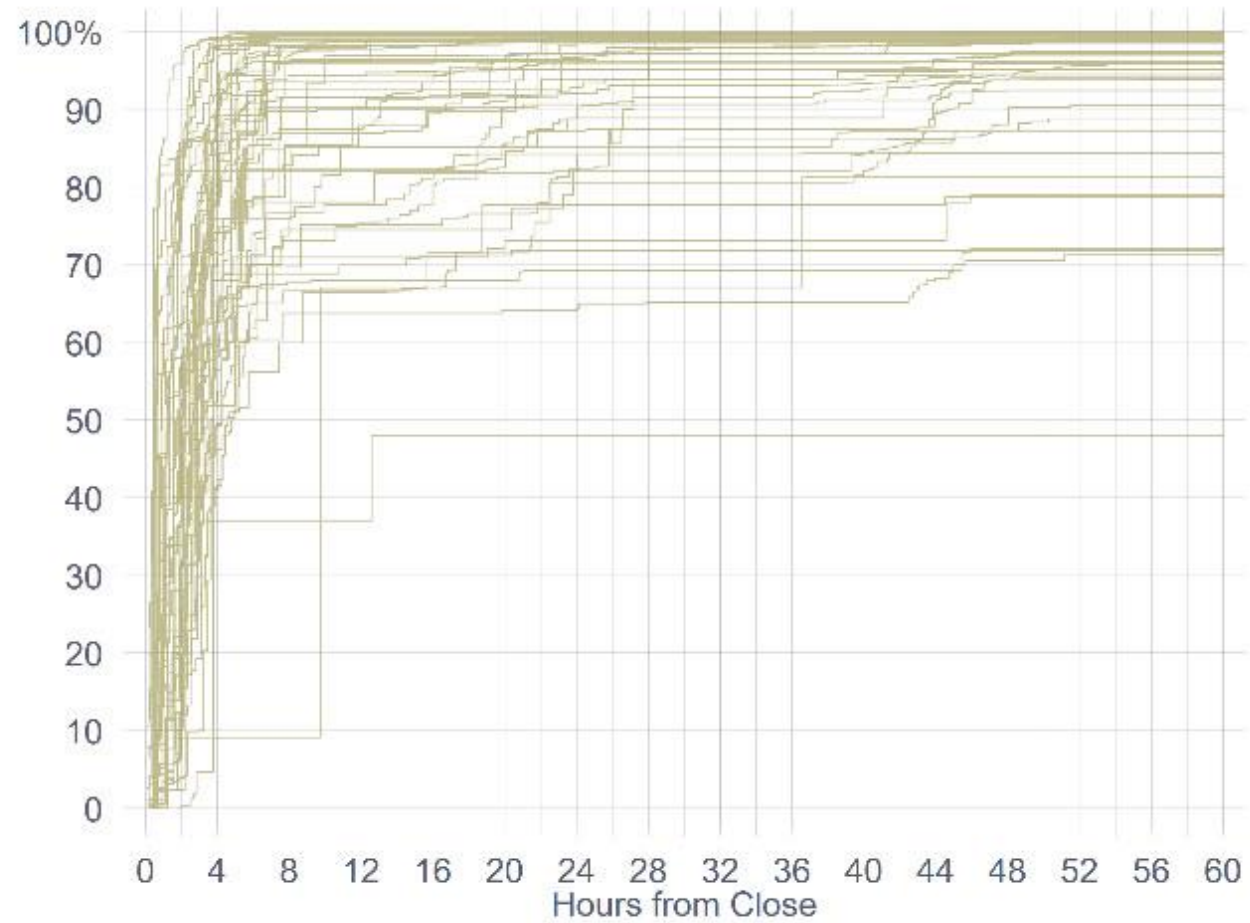
Discrepancies between government and media reports

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

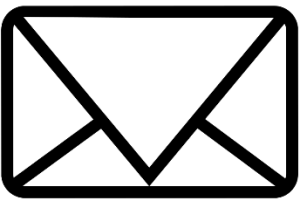


A Word about Artificial Intelligence

- + AI: The use of past patterns in data to predict future patterns in data
- + ChatGPT, chatbots: predicting the next word based on the current word
- + Deep fakes: do a better job of blending images than photoshop
- + Implications for accuracy: the same as any technology



Thank you!



cstewart@mit.edu



@cstewartiii

<https://electionlab.mit.edu>