VOTER PARTICIPATION DASHBOARD

To analyze trends and patterns in voter Registration and participation . 2022 - 2023

- Voter Participation Dashboard
- Security Analysis Dashboard
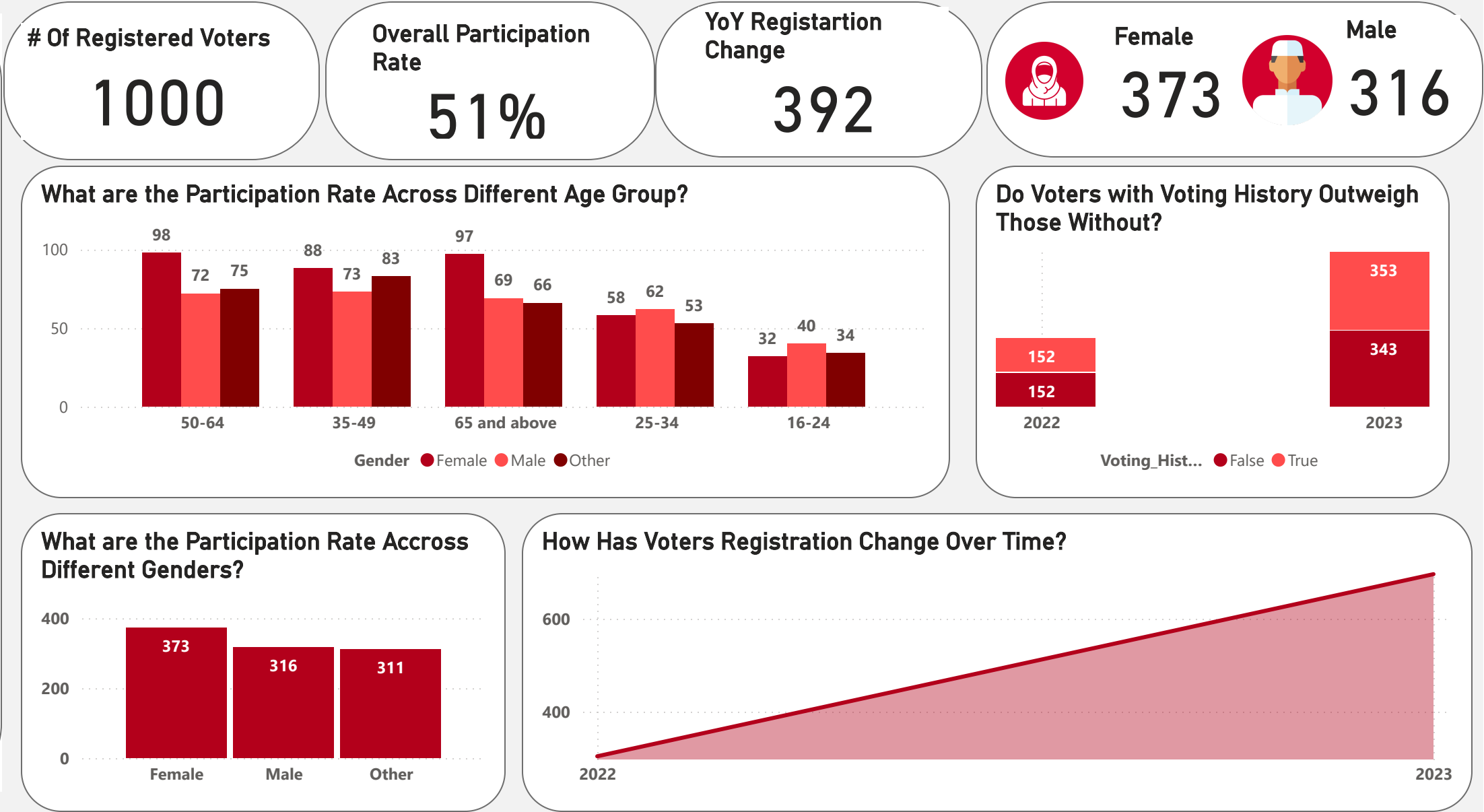- Data Integrity and Accuracy Dashboard
- User Interface and Experience Dashboard
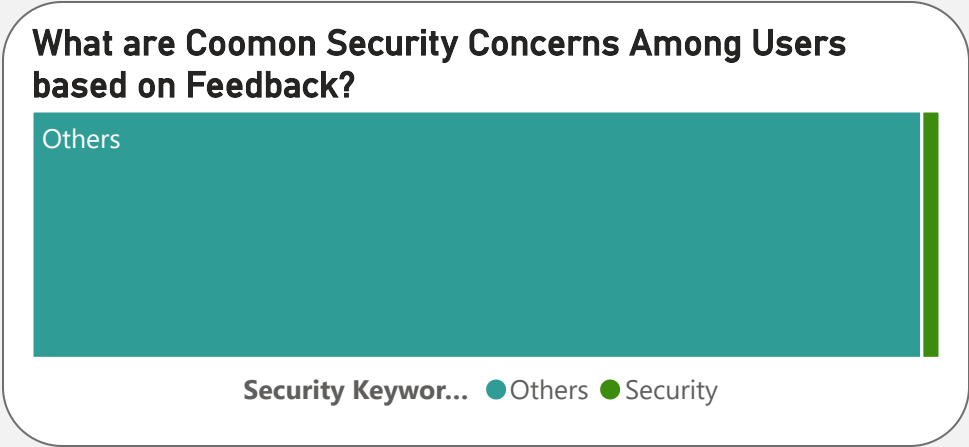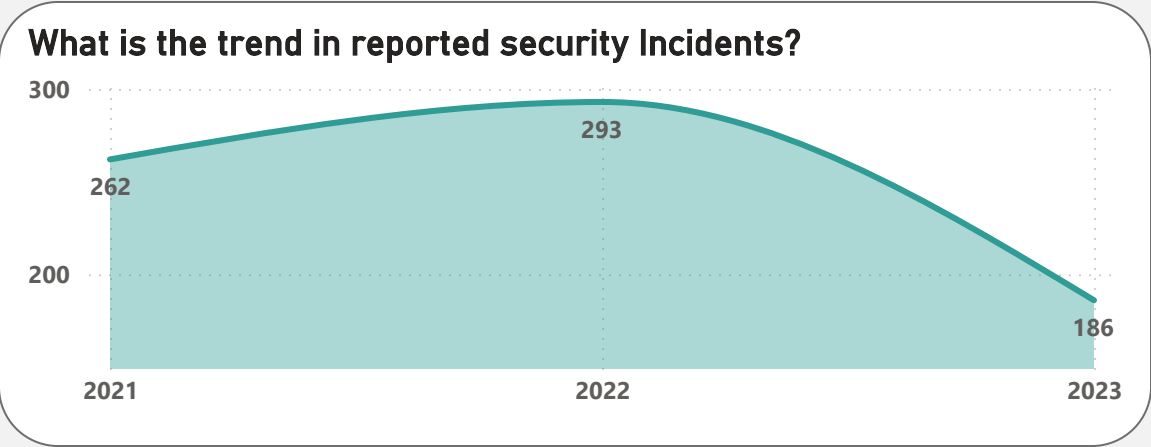- Dashboard 1 Insight
- Dashboard 2 Insight
- Dashboard 3 Insight
- Dashboard 4 Insight

 # Of Registered Voters

1000

Overall Participation Rate

51%

YoY Registartion Change

392

Female 373 **Male** 316

What are the Participation Rate Across Different Age Group?

Age Group	Female	Male	Other
50-64	98	72	75
35-49	88	73	83
65 and above	97	69	66
25-34	58	62	53
16-24	32	40	34

Gender ● Female ● Male ● Other

Do Voters with Voting History Outweigh Those Without?

Year	False	True
2022	152	152
2023	343	353

Voting_Hist... ● False ● True

What are the Participation Rate Accross Different Genders?

Female	Male	Other
373	316	311

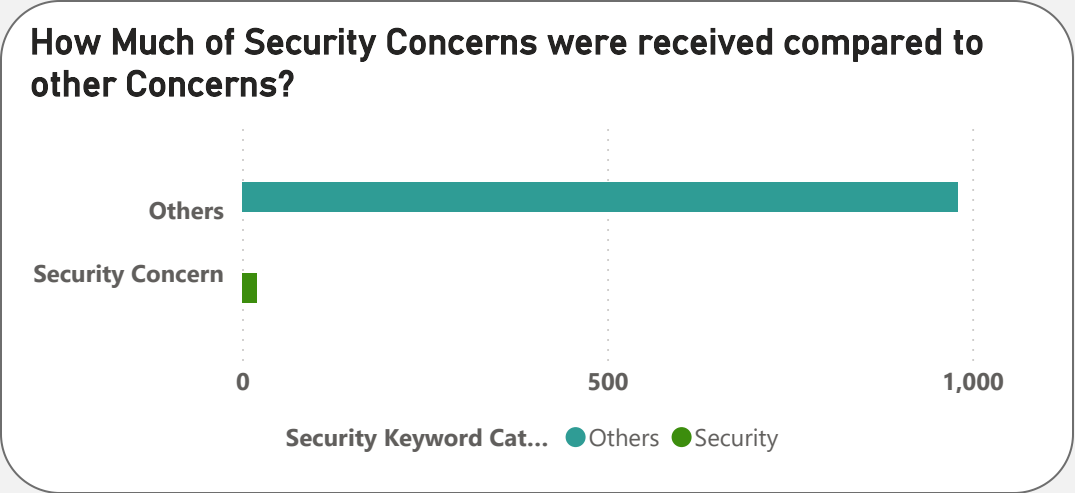## How Has Voters Registration Change Over Time?

(Line chart showing increase from 2022 to 2023)

Security Analysis Dashboard

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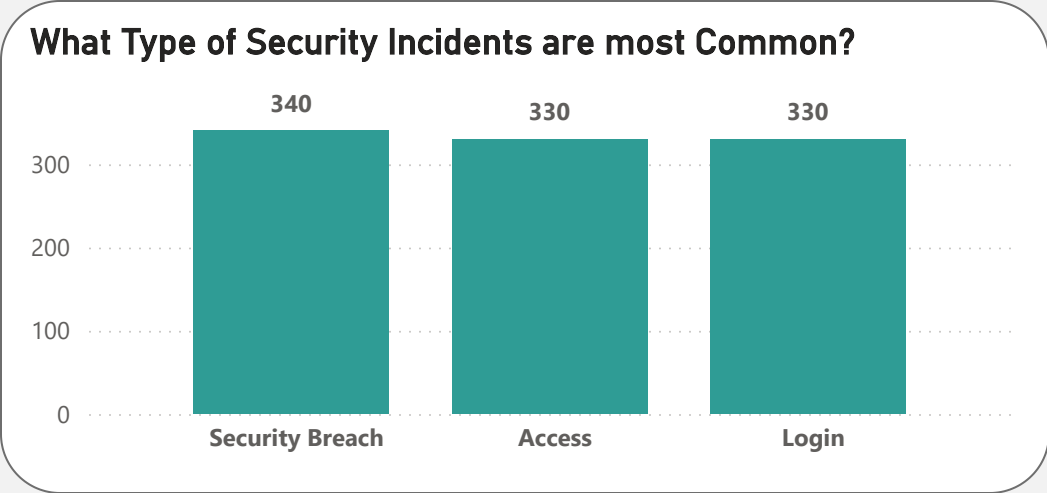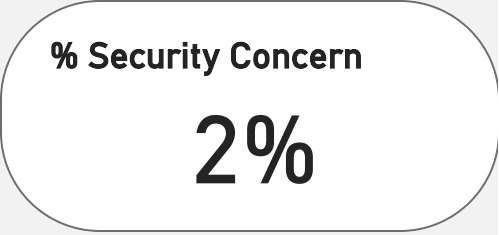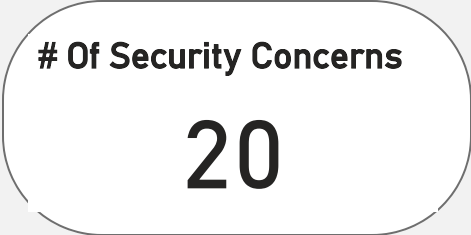- Dashboard 1 Insight
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# Of Security Concerns	# Of Unresolved Issues	# Of Resolved Issues	% Security Concern
20	3	17	2%

What Type of Security Incidents are most Common?

- Security Breach: 340
- Access: 330
- Login: 330

How Much of Security Concerns were received compared to other Concerns?

Security Keyword Cat... ● Others ● Security

What is the trend in reported security Incidents?

- 2021: 262
- 2022: 293
- 2023: 186

What are Coomon Security Concerns Among Users based on Feedback?

Others

Security Keywor... ● Others ● Security

Data Integrity and Accuracy Dashboard

To Investigate and Resolve Discrepancy in Election Data. 2021-2023

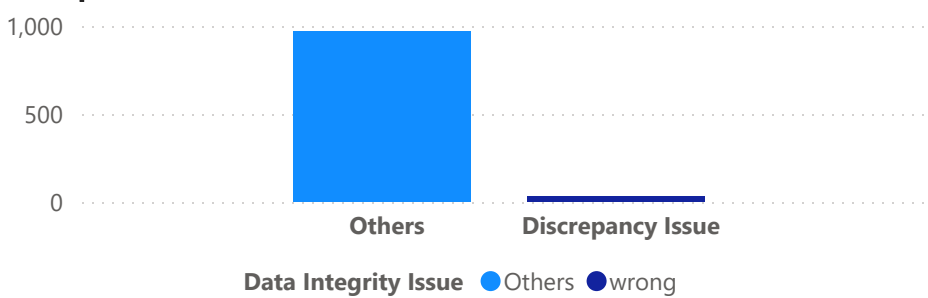| Voter Participation Dashboard |
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 # Of Discrepancy Identified
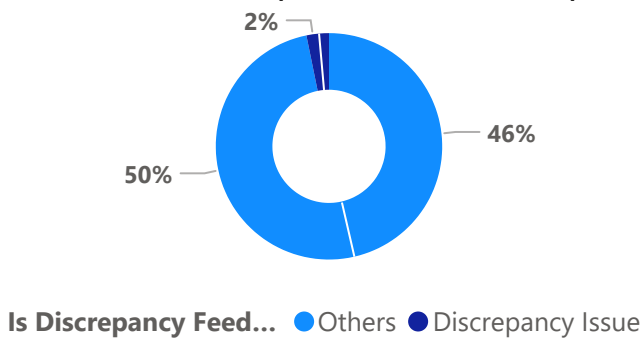
32

% Vote Affected

3%

YoY Registration Change

392

How Much of Discrepancies Concerns do we Have Compared to Others?

1,000

500

0

Others   Discrepancy Issue

Data Integrity Issue ● Others ● wrong

By What Percent are the Discrepancies issues compared to others?

2%

46%

50%

Is Discrepancy Feed... ● Others ● Discrepancy Issue

Are Discrepancies Incresing or Decreasing Overtime?

300

250

200

2021   2022   2023
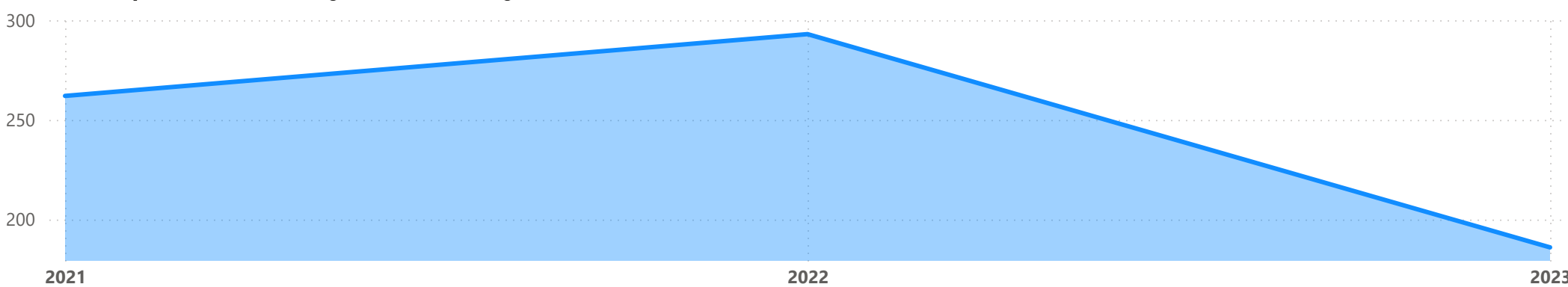
User Experience and Interface Dashboard

To Improve The Usability and and the Accessibility of the Voting Technology 2022 - 2023

Voter Participation Dashboard

Security Analysis Dashboard

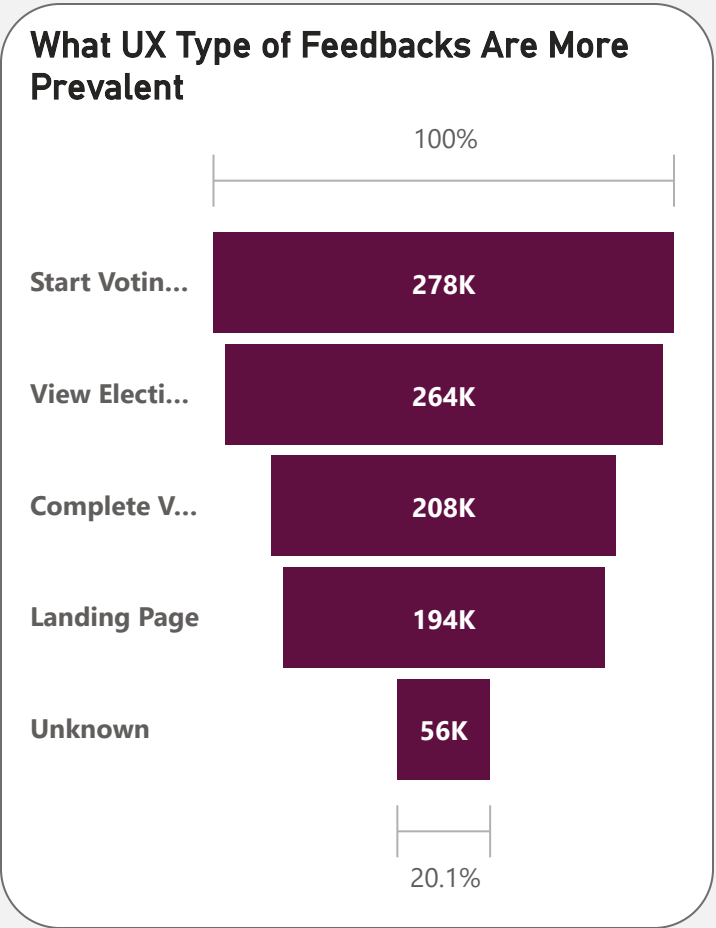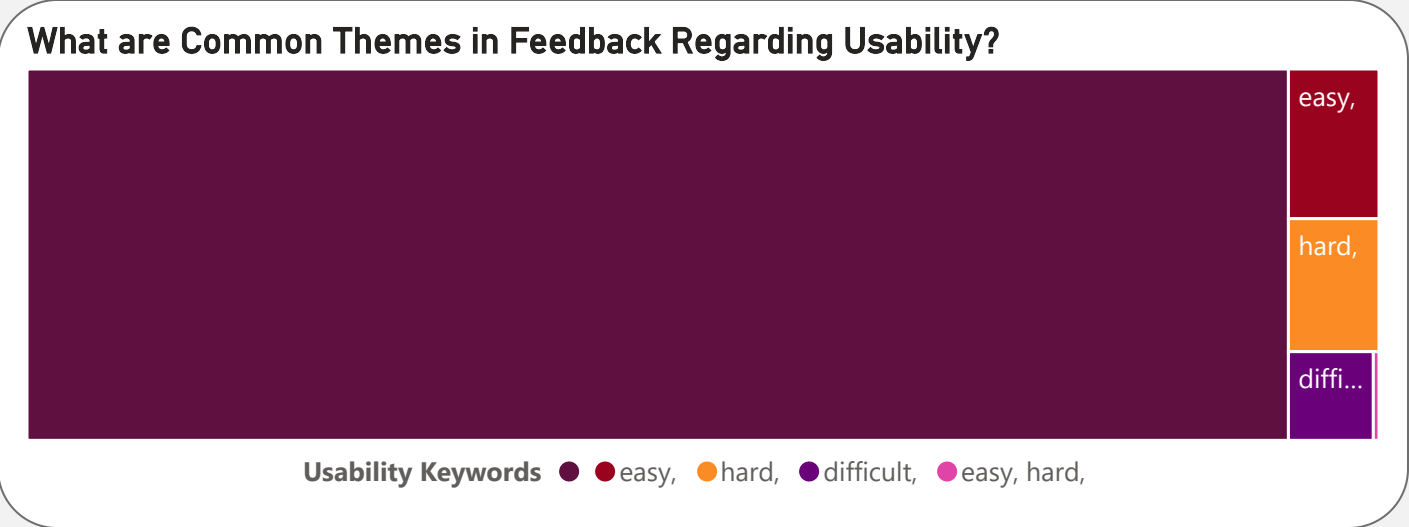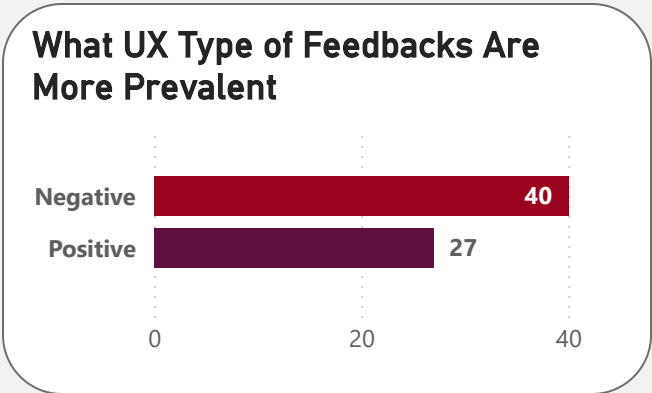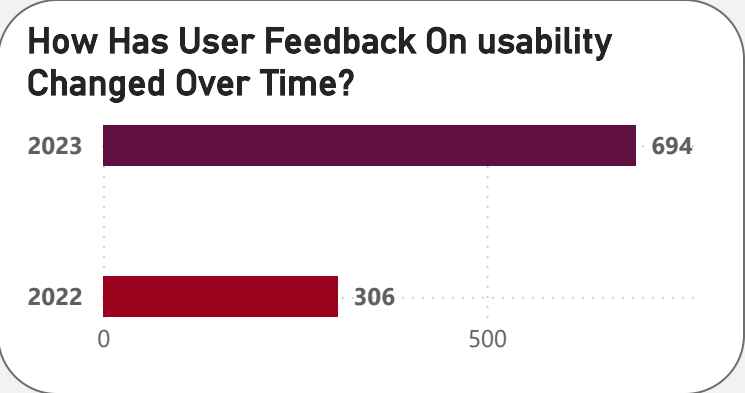Data Integrity and Accuracy Dashboard
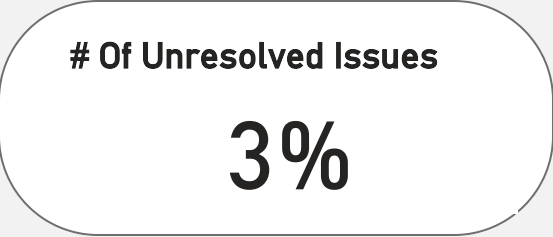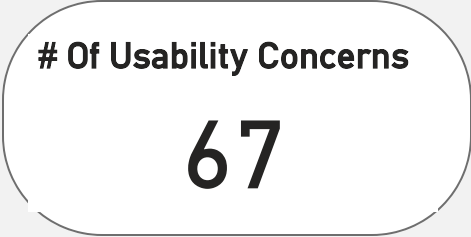
User Interface and Experience Dashboard

Dashboard 1 Insight

Dashboard 2 Insight

Dashboard 3 Insight

Dashboard 4 Insight

Of Usability Concerns
67

Of Unresolved Issues
3%

How Has User Feedback On usability Changed Over Time?

2023	694
2022	306

0 — 500

What UX Type of Feedbacks Are More Prevalent

Negative	40
Positive	27

0 — 20 — 40

What are Common Themes in Feedback Regarding Usability?

easy,

hard,

diffi...

Usability Keywords ● ● easy, ● hard, ● difficult, ● easy, hard,

What UX Type of Feedbacks Are More Prevalent

100%

Start Votin...	278K
View Electi...	264K
Complete V...	208K
Landing Page	194K
Unknown	56K

20.1%

Dashboard 1 Insight

Insights:

The Voter Participation Dashboard offers insightful analyses into voter registration and participation trends, highlighting several key findings:

Increasing Voter Registration: There's a positive trend in voter registration over recent years, indicating heightened engagement or interest in the electoral process.

Varied Participation Rates by Demographics: Participation rates differ significantly across age groups and genders, suggesting that targeted outreach could enhance engagement in less active demographics.

Notable Age and Gender Differences: Certain demographics, particularly middle-aged voters, show higher participation rates, which could guide targeted outreach and voter education strategies.

Positive Year-over-Year Registration Growth: An increase in voter registrations from one year to the next suggests growing political engagement or effective outreach campaigns.

Participation based on Voting: It's seen that people with prior participation are more than twice as likely to vote again, indicating the importance of early engagement in voter turnout.

Key Performance Indicators (KPIs):

The total of 1,000 registered voters' give a base for future engagement with the dataset.

An overall participation rate of 50.5% highlights that only about half of the registered voters participated in voting, indicating room for improvement.

The year-over-year increase in voter registrations is a positive sign of growing engagement.

Recommendations:

Targeted Engagement and Education: Lessons suggest the need for tailored voter engagement strategies focusing on demographics with lower participation rates.

Leverage High-Engagement Groups: Utilizing demographics with higher participation rates could foster broader democratic engagement

Focus on Increasing Voter Turnout: Despite an increase in registrations, participation rates indicate potential areas for improvement in encouraging voters to cast their ballots.

Insults in general: indicates a need for further investigation into why there was some churn after registration.

Insights:

Trend Analysis identifies how the frequency of reported security incidents changes over time, providing indicators of vulnerability periods or the effectiveness of security measures.

Common Incident Types: Reveals the primary security challenges is security breach, guiding focus areas for mitigation and user education on prevalent threats like incidents involving vulnerabilities and security breaches.

User Concerns: Direct feedback on security sheds light on user experiences and perceptions, highlighting areas for improving trust and system security.

Key Performance Indicators (KPIs):

Total Incidents: There were about 250 security issues raised.

Resolved vs. Unresolved Incidents: The Resolved outperforms the Unresolved indicating the response effectiveness to security threats, with unresolved incidents highlighting potential resource needs.

Recommendations:

Security Prioritization: Insights direct the prioritization of security enhancements and user education towards the most impactful areas.

Resource Allocation: The Resolved outweighs the Unresolved incidents, data guides the allocation of resources to bolster response capabilities.

Communication Enhancement: User feedback informs strategies to address vulnerabilities, improve education, and strengthen user trust in the electoral system's security.

Dashboard 3 Insight

Insights:

Discrepancy Identification/Detection: The total number of discrepancies identified through feedback suggests that there are specific issues within the election data that require attention. These could be due to technical errors, reporting mistakes, or other factors affecting data integrity.

Trend of Discrepancies: The trend analysis over time might reveal whether the election system is becoming more reliable or if discrepancies are becoming more common. An increasing trend could signal systemic issues that need to be addressed.

Improvements in Election Process: The analysis shows a significant number of votes affected by discrepancies, which might indicate issues in the election results, particularly if the discrepancies could influence the outcome of closely contested races.

A low percentage of votes affected might not change overall outcomes but could still impact public trust in the electoral system.

Key Performance Indicators (KPIs):

Total Number of Discrepancies Identified: Indicates the volume of potential data integrity issues reported by users, reflecting the need for systematic review and corrections.

Percentage of Votes Affected: Offers a perspective on the scale of discrepancies relative to the total vote count, highlighting the importance of addressing concerns in pivotal election results.

Recommendations:

Review and Rectification Processes: The insights should prompt election authorities to establish or refine processes for reviewing and rectifying discrepancies in election data.

Systemic Improvements: Trends indicating increasing discrepancies could necessitate systemic improvements in election technology and processes.

Transparency and Communication: Address discrepancies transparently and communicate impacts and corrective measures to maintain confidence and trust.

Contingency Planning: The impact analysis might necessitate contingency or fallback plans for future elections to address and mitigate the risk of discrepancies affecting outcomes.

Dashboard 4 Insight

Insights:

Common Usability Issues: Users are experiencing challenges with the system, indicated by negative feedback related to complexity and difficulty.
Feedback Composition: There's a significant amount of feedback tagged as negative, suggesting user experience issues are prevalent and need addressing.
Positive Feedback Ratio: The percentage of positive feedback gives an idea of overall satisfaction, which can be used to gauge the success of recent improvements.
Impact of Improvements: Comparing feedback over time can help assess the impact of changes made to the system, validating if enhancements are improving user satisfaction.

Recommendations:
Follow the Concerns of the Voters: Ensure to carefully note the grievances of voters to encourage future participation.
Note the Common Drop-off Point: Identify key points where users abandon or face difficulties on the platform to ensure swift repairs and improvements.