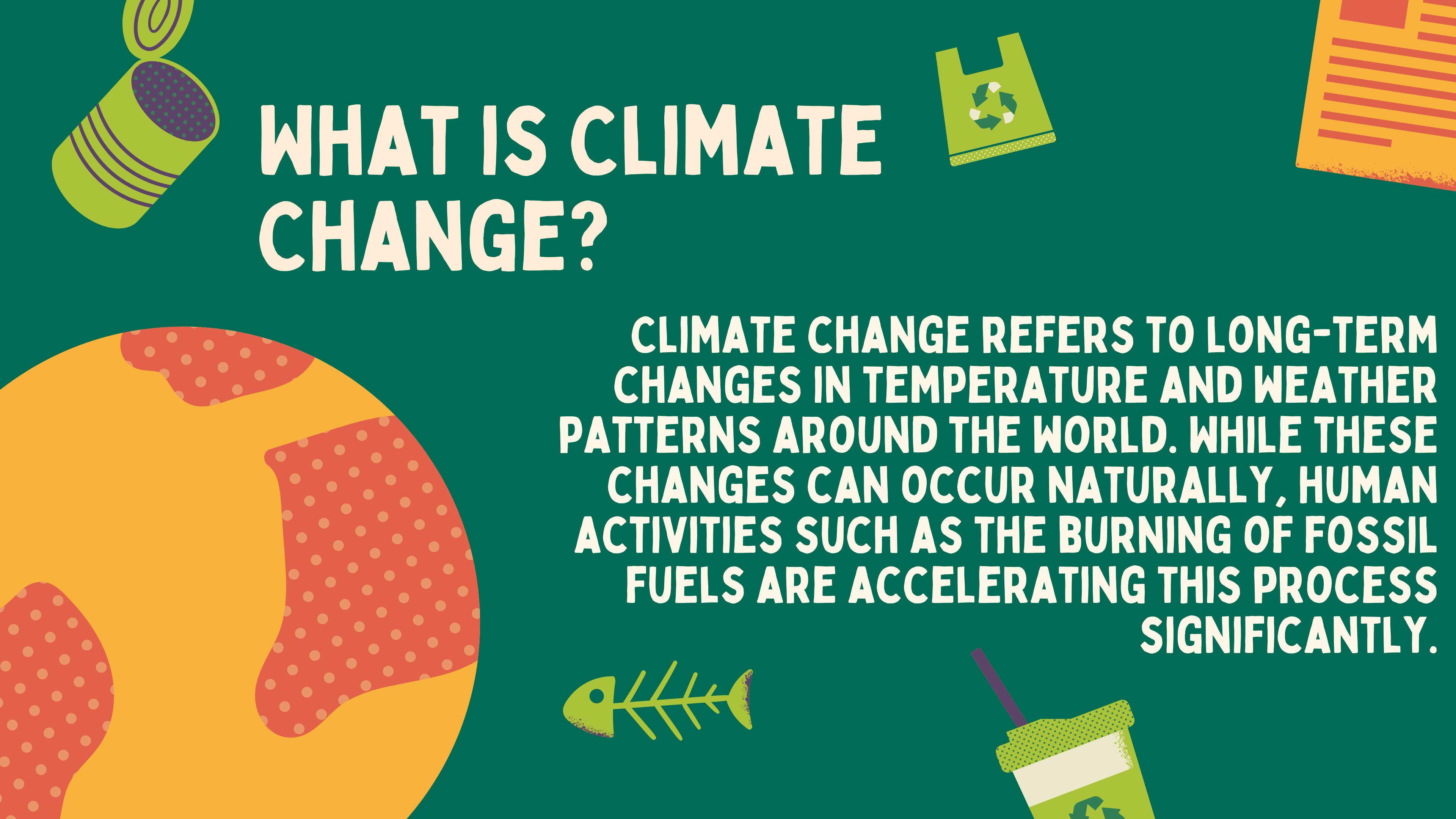


LEGISLATIVE IMPACT ANALYSIS OF CLIMATE CHANGE TWITTER DISCOURSE

Presented by Osheen Gupta



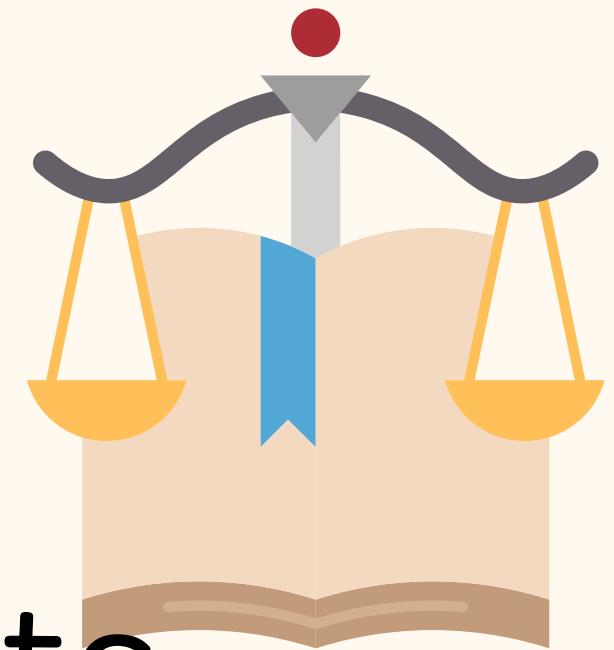


WHAT IS CLIMATE CHANGE?

CLIMATE CHANGE REFERS TO LONG-TERM CHANGES IN TEMPERATURE AND WEATHER PATTERNS AROUND THE WORLD. WHILE THESE CHANGES CAN OCCUR NATURALLY, HUMAN ACTIVITIES SUCH AS THE BURNING OF FOSSIL FUELS ARE ACCELERATING THIS PROCESS SIGNIFICANTLY.



The **objective** is to provide insights into how digital discourse on social media may impact climate change legislation.



GOOD NEWS AHEAD 

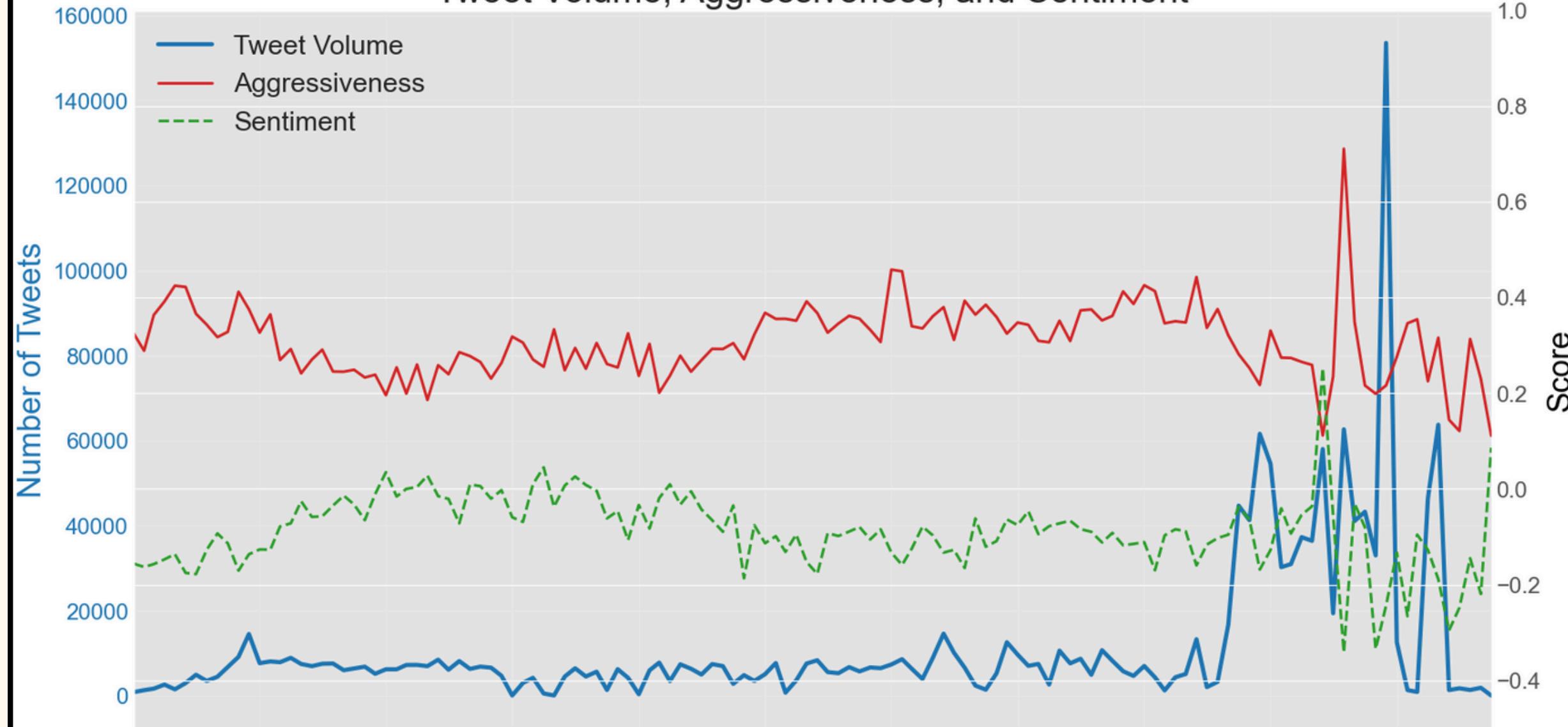
METHODOLOGY

- Data - 15.7M tweets and 2,500 climate-related bills (Congress.gov)
- Topics focused : "Gas Emissions" and "Global Warming"
- Regression Analysis:
Five different time windows analyzed:
 - i. Next day (1-day lag)
 - ii. Next week (7-day lag)
 - iii. Next month (30-day lag)
 - iv. Next two months (60-day lag)
 - v. Next three months (90-day lag)

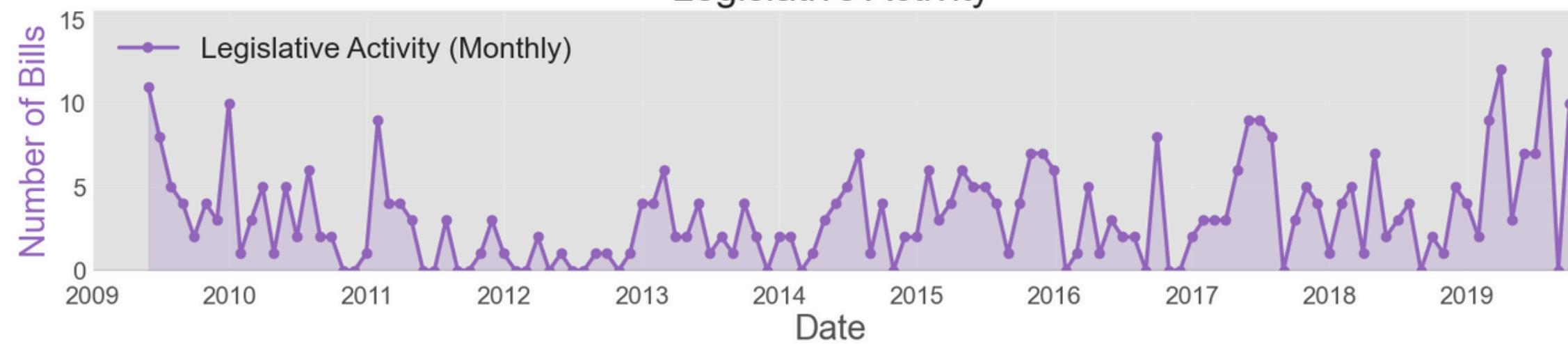
AWARENESS TRENDS & LEGISLATIVE ACTIONS

Combined Climate Change Analysis (2009-2020)

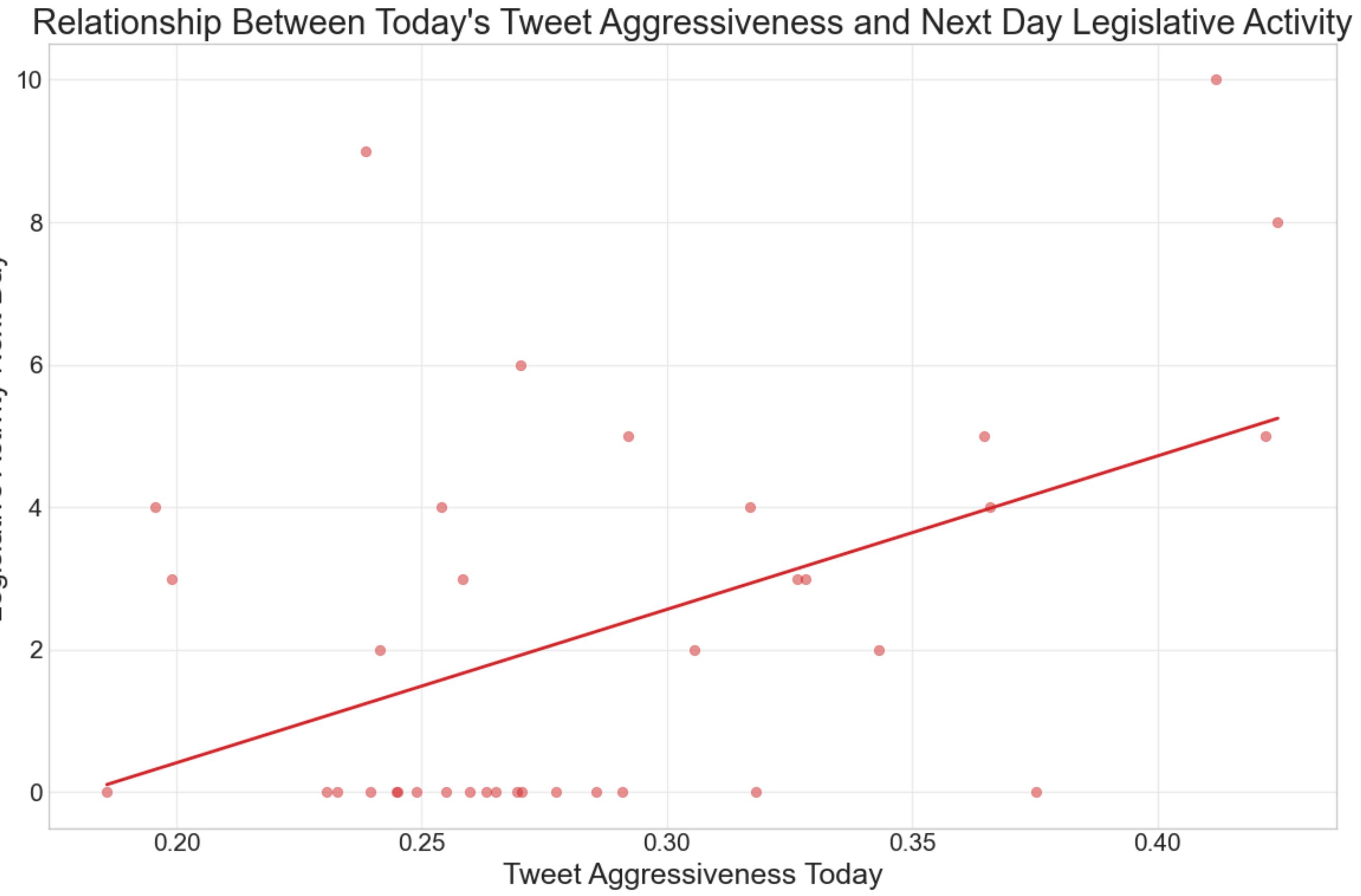
Tweet Volume, Aggressiveness, and Sentiment



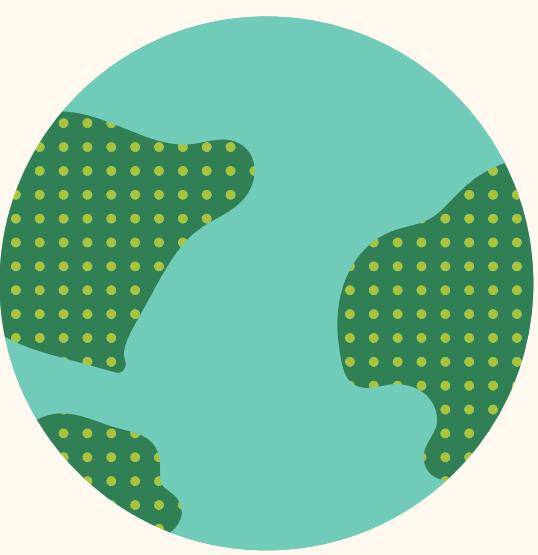
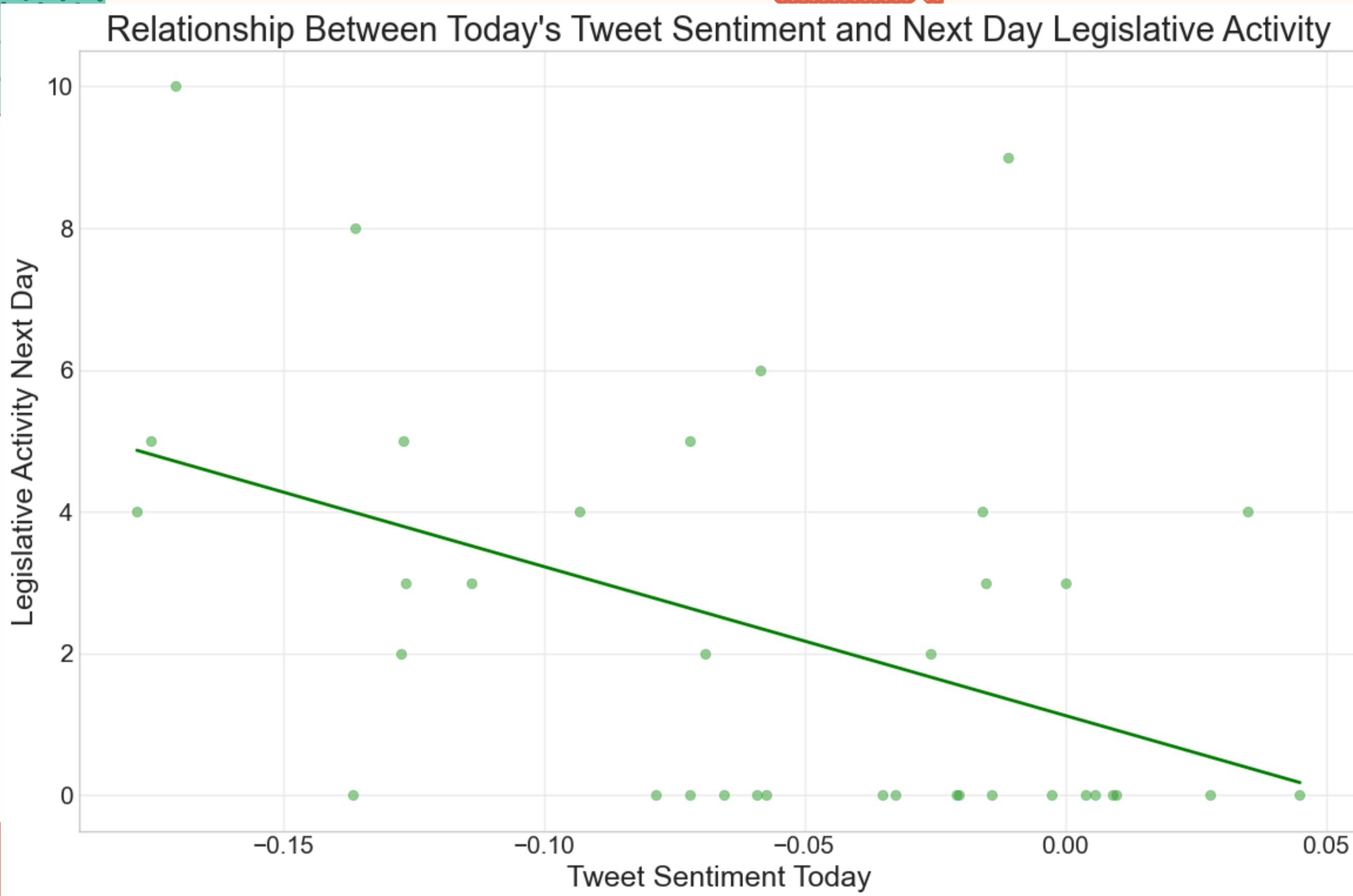
Legislative Activity

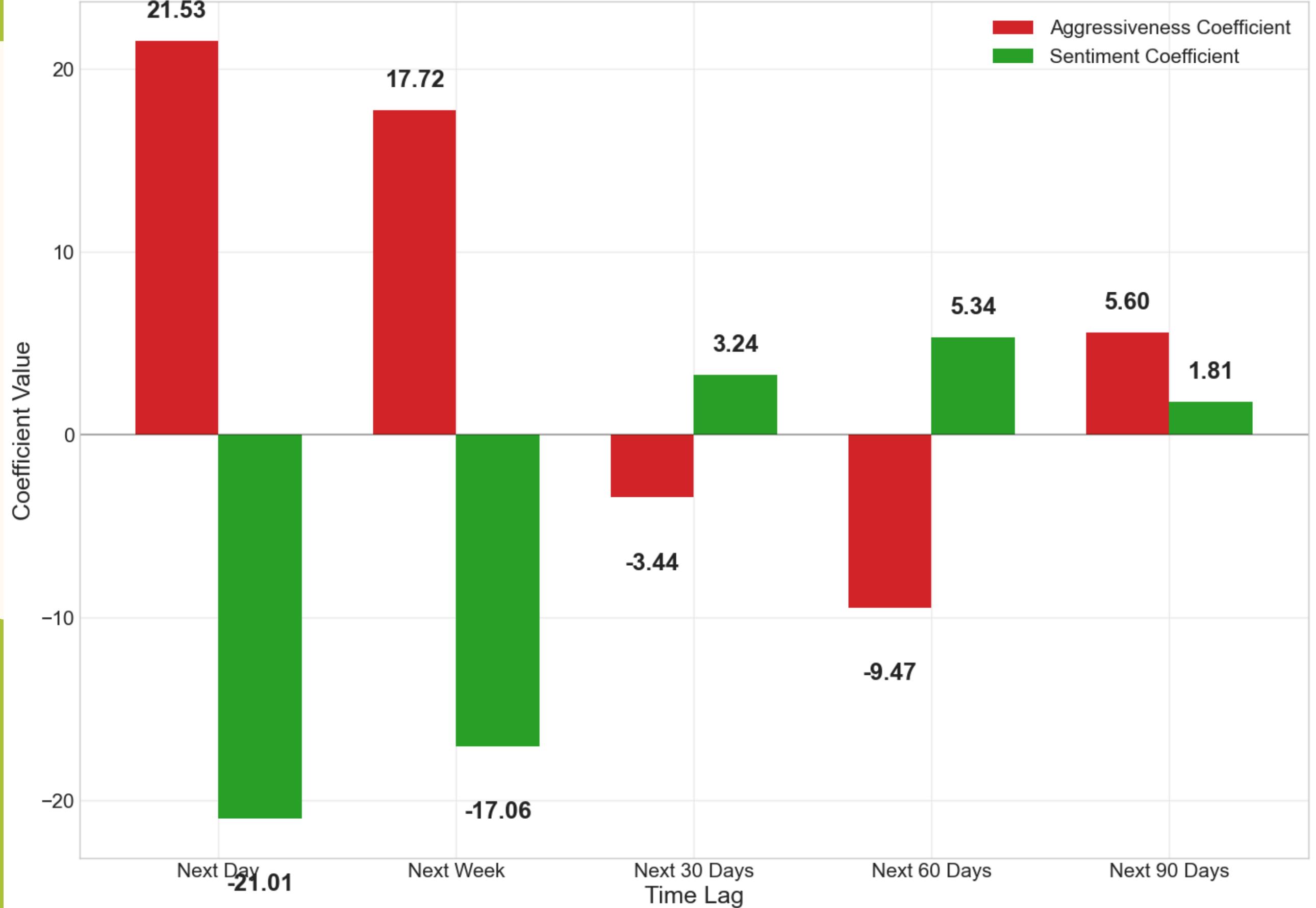


AGGRESSION VS BILLS

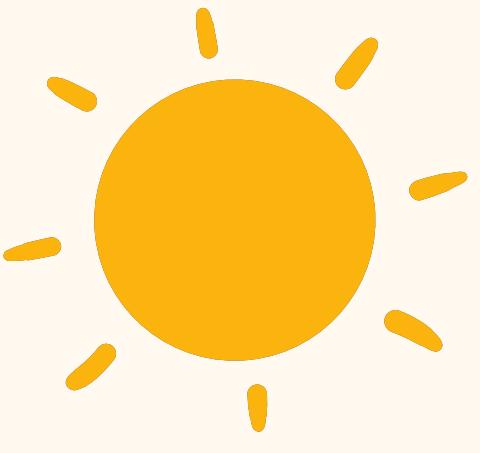


SENTIMENT VS BILLS



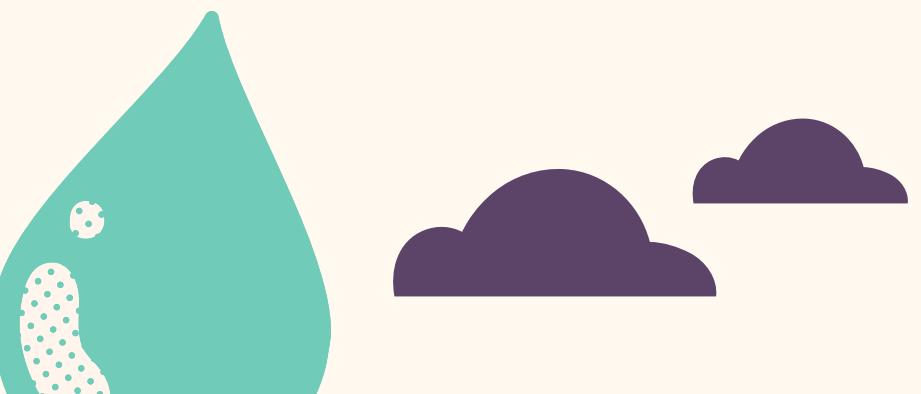


HOW TWEET TONE SHIFTS LEGISLATIVE IMPACT OVER TIME



CONCLUSION

- Immediate Impact is Strongest and Most Significant
- Relationship Weakens and Transforms Over Time
- Lawmakers seem to respond quickly to intense or critical public discourse
- Feedback Loop Between Public Discourse and Legislation





THANK

YOU