

Climate Constituencies Project

Dana R. Fisher

Professor of Sociology and
Director, Program for Society and the Environment
University of Maryland

Social Media Analysis
for

MacArthur Foundation Grants
#G-1604-150842 and #G16-1609-151514-CLS



Program for Society and the Environment
at the University of Maryland - a Graduate Field Committee



Studying “Mention Networks”



- Mention Networks map who is mentioned by whom on Twitter
- We map mention networks of policy actors who are:
 - a) key informants (35 around the country),
 - b) informants' collaborators,
 - c) informants' opponents, or
 - d) noted by informants as most active re: climate/clean energy on social media

Details of Sample

- Sampling yielded **173 individual twitter handles** that were identified to work at the federal and/or state levels (some were mentioned for at federal and specific state levels)
- Twitter data were collected for the baseline, pre-election, and post-election periods.
- Overall dataset is made up of the content of **1,147,636 tweets** over the time period of the project (6/25/13-6/1/17)
- Mapping Clean Power Plan Mention Networks
 - CPP Mention Networks for all **12,698 tweets** broken down by federal level, or the specific state in which they work
 - CPP Mention Networks of the tweets that include “clean” AND “power” AND “plan” or “CPP”
 - Videos end when mentioning ends on social media, which varies by location.

Color Coding in Social Media Videos:

(1) Businesses and Business Associations/Trade Groups



(2) Democratic members of the US Congress



(3) Environmental Groups



(4) Republican members of the US Congress



(5) Scientists or Media



(6) Subnational government (general)



(7) US Executive Branch / Agencies



(8) NGOs (includes professional associations and think tanks)



(9) Other (includes foundations, international organizations etc)



(10) Subnational Democrats



(11) Subnational Republicans



Clean Power Plan Mention Networks

- Videos of Mention Networks Over Time for Federal and State levels available at:
 - <https://www.youtube.com/watch?v=VMYBR2s3zTs&index=5&list=PLA5s0tCtIX930LrwGpO5mc9ao2jt2v1Dc>
- Overall, these videos show how, as the social media discussions of the Clean Power Plan become more dense, mentioning happens among like actors, providing evidence for Echo Chambers on social media
- Certain policy actors—environmental groups, business actors, and NGOs (which include conservative think tanks) dominate networks at the federal level
- Subnational networks are dominated by environmental groups