

# An Analysis of Social Media Services at NWS Louisville to Enhance Forecast **Operations and High-Impact Weather Event Decision Support** Robert Prestley<sup>1</sup>, Ron Steve<sup>2</sup>, Kevin Deitsch<sup>2</sup> <sup>1</sup> Department of Meteorology, Pennsylvania State University

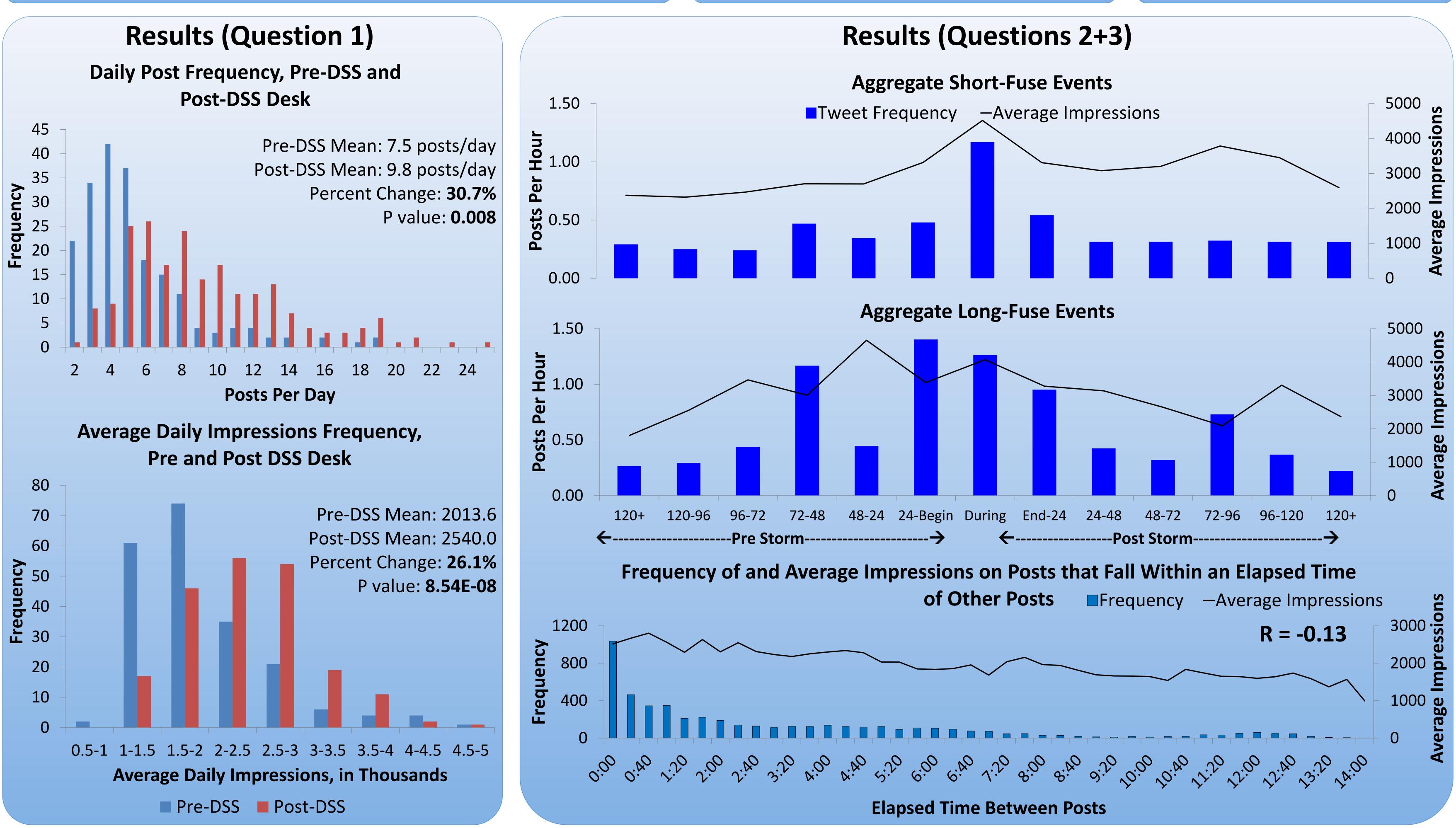
#### Introduction

Social media refers to the websites and applications that allow users to share content with others. In response to the increasing use of social media for weather information, the National Weather Service (NWS) began using social media on an official basis in 2012. In 2015, the NWS in Louisville created a dedicated Decision Support Services (DSS) desk, which included social media. This study investigated how NWS Louisville used social media to develop a social media usage plan.



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#### Questions

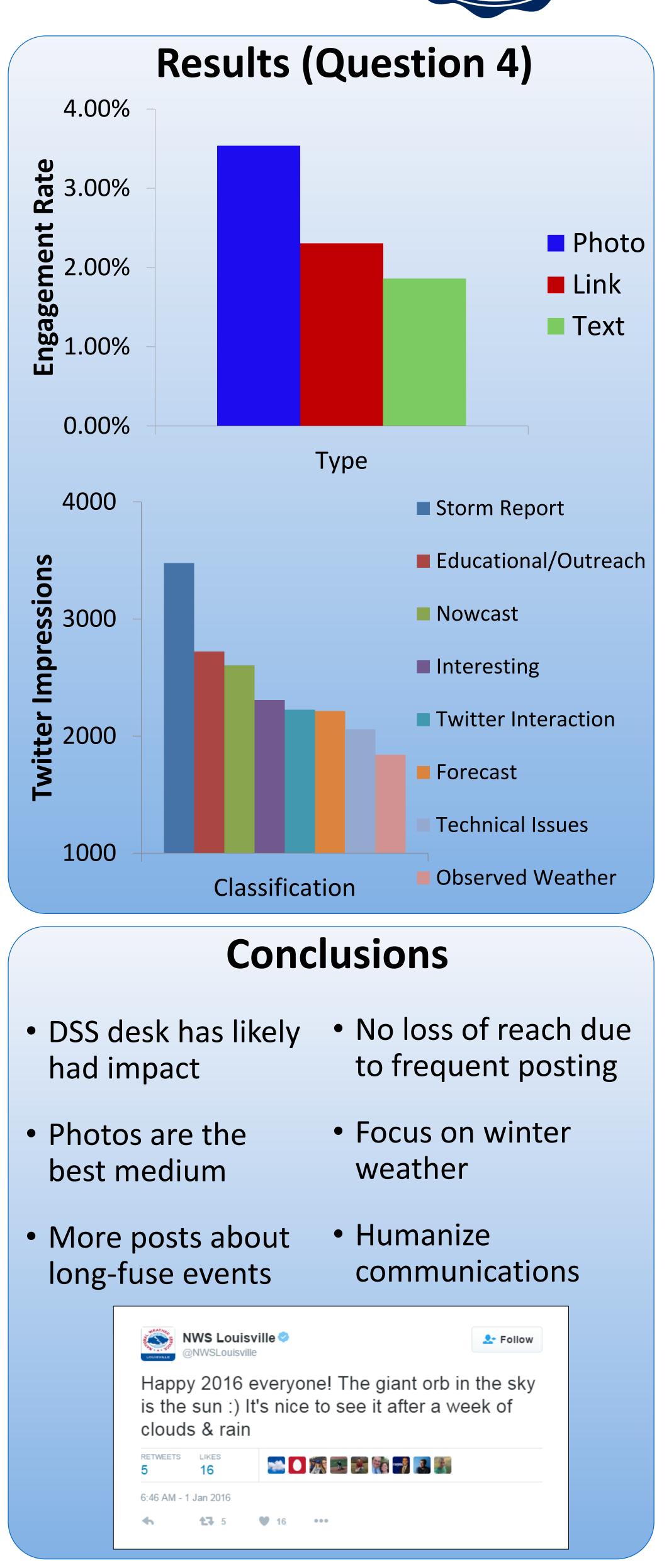
- How did the switch to a DSS desk impact posting?
- 2. How does post frequency and average reach vary in the lead-up and aftermath of a high-impact event?
- 3. Does elapsed time between posts equal a difference in reach?
- Which types of posts reach and are 4. engaged by users?

### Definitions

**Impressions**: Total number of times a post is viewed, including when a user sees the post more than once (used interchangeably with reach)

**Engagements**: Total number of interactions with a post, including likes, comments, shares, and any clicks on post

Engagements **Engagement Rate:** Impressions



## Acknowledgements

This research would not be possible without the funding and support from the NOAA Hollings Scholarship Program. Special thanks to everyone at the NWS Louisville office, especially my mentors Ted Funk, Ron Steve, and Kevin Deitsch (now at NWS St. Louis).