

Overview

- Background
- Requirements
- Costs
- Our Process
- Examples of our Drone Projects
- Q&A

Background

- GIS Assistant interested in aerial photography, remote sensing
- First drone flights in 2016 with small hobby quadcopters to learn how to fly
- Pass FAA Part 107 remote pilot certification exam- all pilots flying for compensation must possess
- MAPA purchased a company drone in 2019
- Late 2021 join local area government pilot's group to collaborate on projects and share resources



Requirements

- -Reliable drone we've used DJI drones exclusively Phantom, Mavic Pro
- -Drone must be registered with FAA, and pilot certified with FAA Part 107
- -Depending on flight location and goals, pilot may require authorization/unlocking with local airfield and a waiver for actions
- Awareness of flight rules VLOS, height limits, flights over people/cars, night flights, right-of-way, cloud levels, wind, privacy
- Powerful computer for video editing

Costs

- Drone package \$1700
- Recurrent Flight Exam \$150 every 2 years
- Travel, staff time
- MAPA member pricing: \$63/hr
- We have by-the-hour, half-day, and full-day costs, as well as offering "retainer" contracts for a set hourly package to cover numerous events over a period of time



Our Process

- 1. Meet with interested parties to determine their needs
- 2. Outline deliverables photo packages, short videos for social media, and longer promotional videos
- 3. Obtain feedback to prioritize top features to capture with drone view
- 4. Gather airspace authorization
- 5. Perform flights; download media and perform edits
- 6. Transmission of deliverables
- 7. Make adjustments as needed

- "Timelapse" drone videography
- Press materials
- Event capture

Metro CRBT



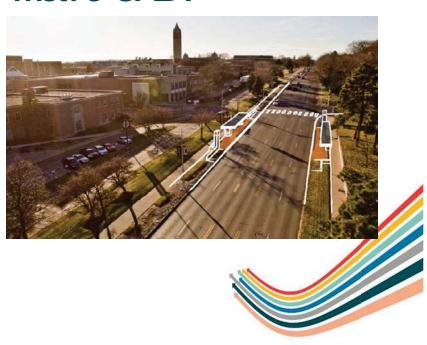
- "Timelapse" drone videography
- Press materials
- Event capture

Metro CRBT



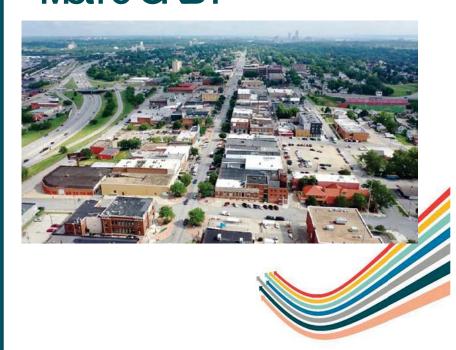
- "Timelapse" drone videography
- Press materials
- Event capture

Metro CRBT



- "Timelapse" drone videography
- Press materials
- Event capture

Metro CRBT



- Fast response and turnaround time
- Drone (safely) goes where we can't
- Cost efficient vs. manned aircraft
- Became the most viewed content MAPA has ever posted to social media -(100k+reach, 79k views, 1,000+shares)

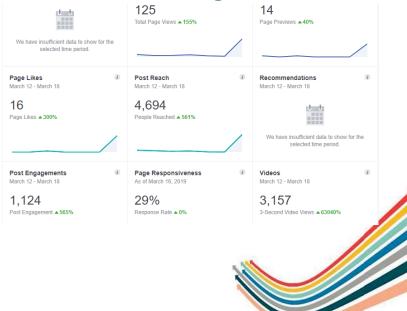
2019 Hooding

Flooding on I-29: Crescent to Honey Creek



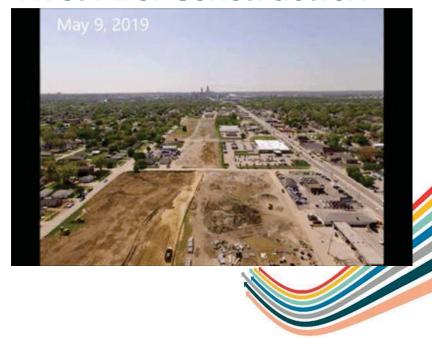
- Fast response and turnaround time
- Drone (safely) goes where we can't
- Cost efficient vs. manned aircraft
- Became the most viewed content MAPA has ever posted to social media -(100k+reach, 79k views, 1,000+shares)

2019 Hooding



- Visualize a project in its entirety
- Track progress on a consistent, repeated basis
- Provide vantage points not possible with ground-based or manned aircraft

First Ave. Construction



- Promote to businesses, tourists, families, developers
- Highlights downtown, attractions, industry, history
- Gve the feeling of "being there"

Treynor, IA



- Survey natural terrain faster and lower than manned aircraft
- Execute cinematic shots previously thought to be unfeasible or impractical

Golden Hills RC&D



- Large collection of stock images for use in presentations, press materials
- A variety of occasions and locations
- Can show urban vs. rural, regional highlights

MAPA Image Library



Contact Information

 Owen Stuckey, GS Assistant and Drone Filot ostuckey@mapacog.org MAPA Drone Services 402-444-6866 x3236

