

Status Update:

UAV Documentation of River Banks

DuPont Waynesboro AOC4

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Agenda

- Objectives
- Approach
- Interactive Map Demonstration
- Lessons Learned / Path Forward



Objectives

- Evaluate the utility of Unmanned Aerial Vehicles (i.e. 'drones') to photo document river banks
- Develop remedial planning/stakeholder communication tool

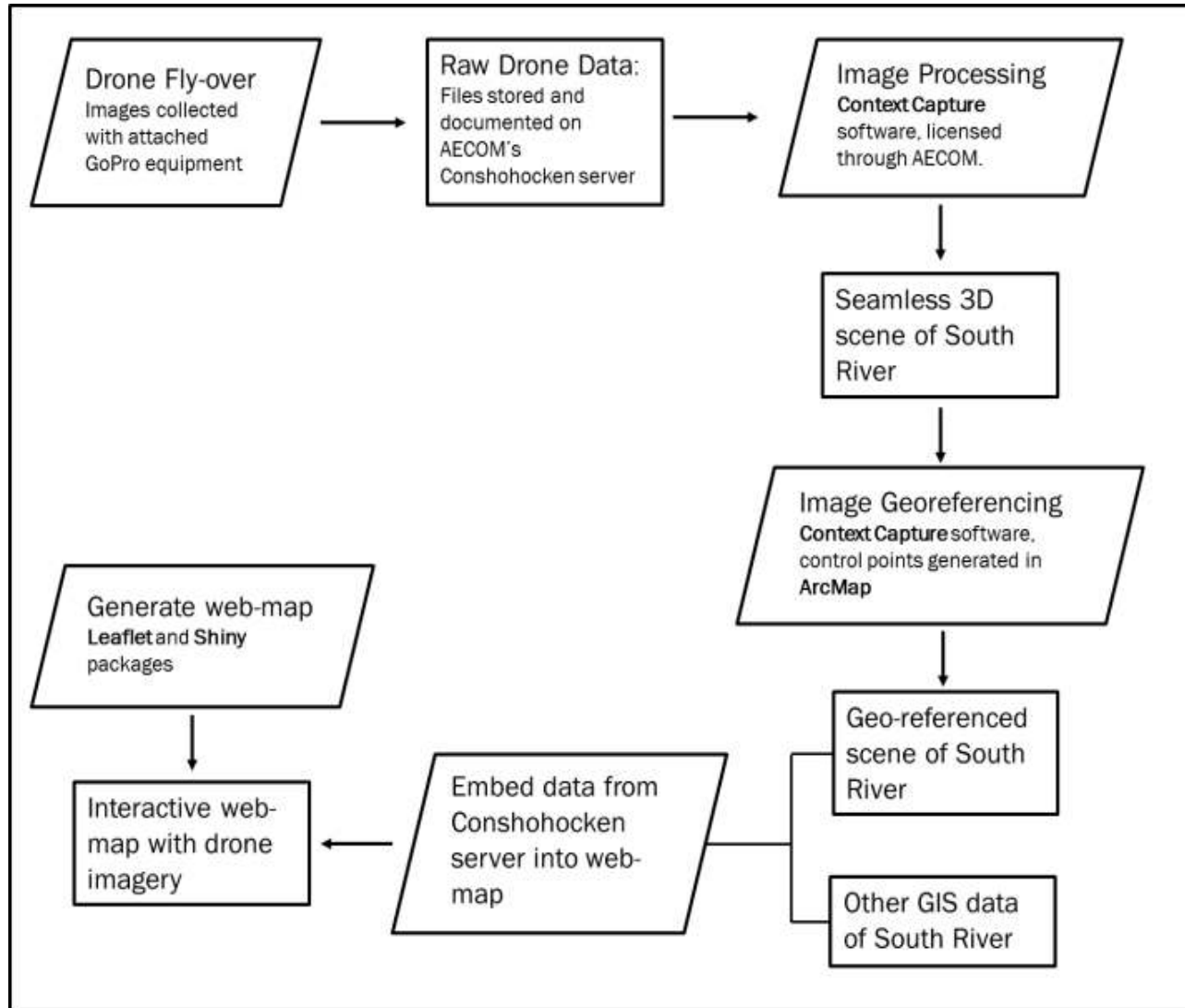


Approach – Data Acquisition

- 3D Robotics Solo UAV
- GoPro Hero Camera
- Photos captured at 2-5 second intervals (3,500+ photos)
- Imagery georeferenced and flight paths tracked



Approach – Interactive Mapping



Example UAV Imagery



Interactive Map Demonstration



Lessons Learned

- Challenging field conditions
 - Weather
 - Battery life
 - Public use of site
- Efficient data acquisition under optimal conditions
- Equipment expense vs. post-processing efficiency
- Can be effective tool for remedial planning and stakeholder communication



Path Forward

- Incorporate additional GIS datasets into interactive map
- Web-hosting
- Opportunities for collaboration



Thank You