Determining Impacts and Monitoring Recovery Using Geospatial Analytics

Hurricanes Florence and Michael Pilot Study
Introduction
Introduction

Civil Air Patrol has

560 AIRCRAFT IN ALL

50 STATES AND TERRITORIES

6,900 QUALIFIED CREW MEMBERS
INTRODUCTION

PROVIDES “FIRST LOOK” QUICKLY AFTER DISASTER

PROBLEM

- Imagery captured is not georeferenced
- Matching imagery to location is done manually, time-consuming
Introduction

SOLUTION

- After Florence, Civil Air Patrol tested a 3D sensor attached to a Cessna
• Identified debris piles
• Determined general volume
• Determined type of debris (construction, vegetation, combined, etc.)
• Identified damage structures
• Aggregate observations to visualize high concentrations
Hurricane Florence Pilot

Draft Report

Damage Assessments Using 3D Imagery

Hurricane Florence Pilot Study: New Bern and Jacksonville, North Carolina
HERE COMES ANOTHER HURRICANE
Hurricane Michael Pilot

• How can we make the imagery more relevant?
• What can you do with this information?
• Let’s see it!!
Hurricane Michael Pilot
Debris
Evidence of Recovery
Threat to Public Safety
Analytics
Data Aggregation
Recovery is Happening!
Recovery is Happening!
LOOKING AHEAD...