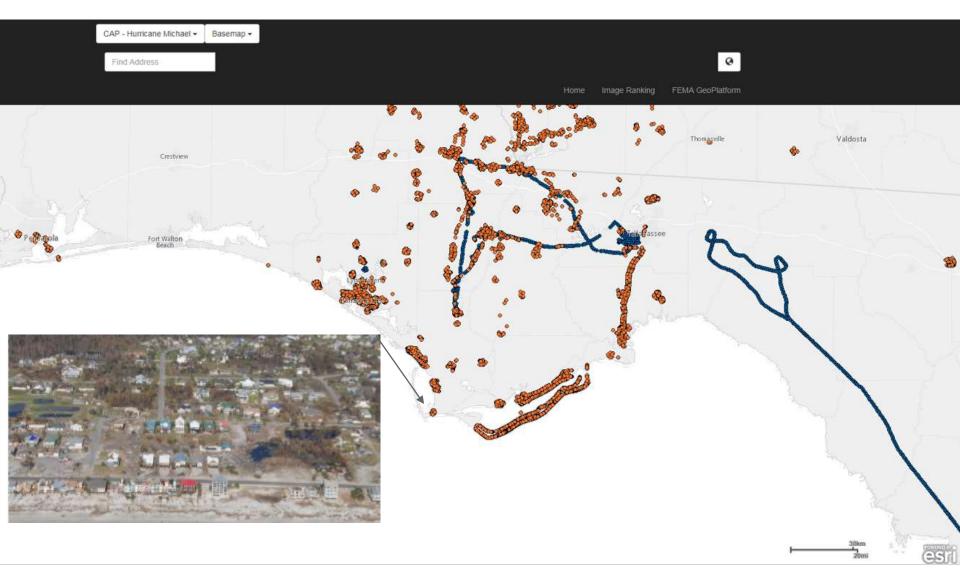# Determining Impacts and Monitoring Recovery Using Geospatial Analytics

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

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Introduction

PROVIDES "FIRST LOOK" QUICKLY AFTER DISASTER

PROBLEM

- Imagery captured is not georeferenced

- Matching imagery to location is done manually, time-consuming

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Introduction

SOLUTION

- After Florence, Civil Air Patrol tested a 3D sensor attached to a Cessna

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Hurricane Florence Pilot

- Identified debris piles

- Determined general volume

- Determined type of debris
  (construction, vegetation, combined, etc.)

- Identified damage structures

- Aggregate observations to visualize high concentrations

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Hurricane Florence Pilot

Draft Report

Damage Assessments Using 3D Imagery

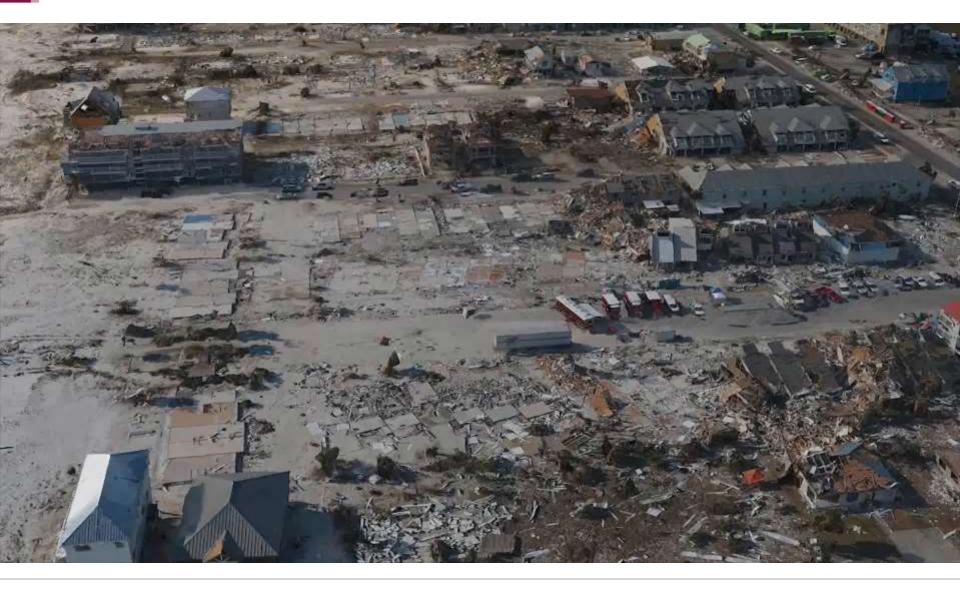Hurricane Florence Pilot Study: New Bern and Jacksonville, North Carolina

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HERE COMES ANOTHER HURRICANE

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Hurricane Michael Pilot

- How can we make the imagery more relevant?

- What can you do with this information?

- Let's see it!!

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Hurricane Michael Pilot

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Debris

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Evidence of Recovery

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Threat to Public Safety
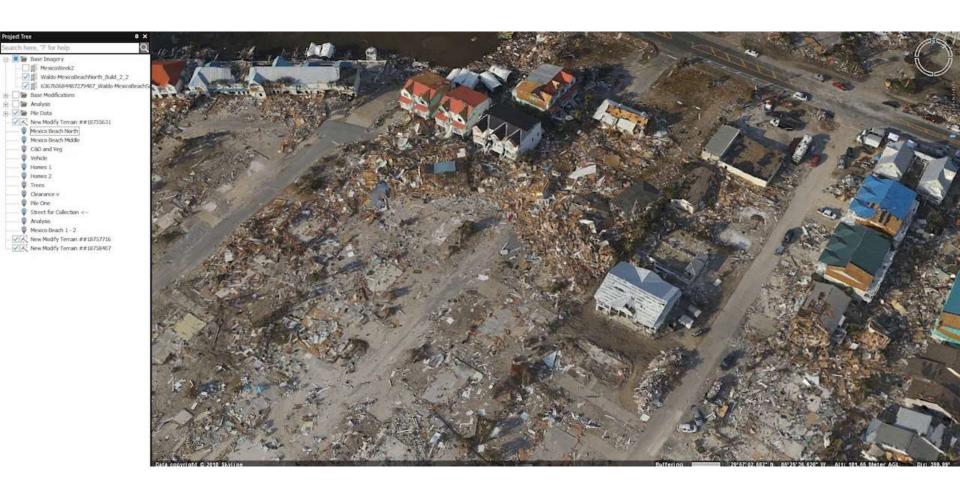
Analytics

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Data Aggregation

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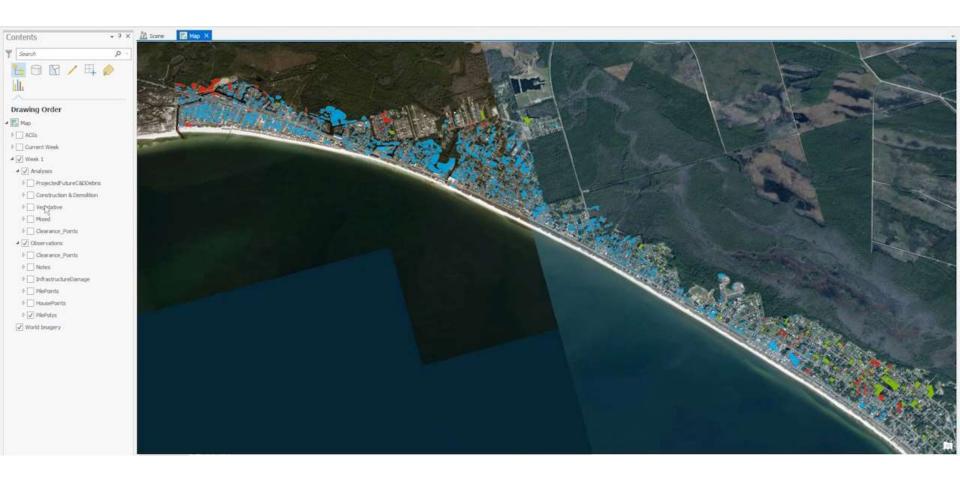
Recovery is Happening!

Recovery is Happening!

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LOOKING AHEAD…

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