



## WHITE PAPER

April 4, 2024

TO: FIRESCOPE Board of Directors  
23300 Castle Street  
Riverside, CA 92518-2200

FROM: Ops Team, Task Force, GIS Subcommittee

SUBJECT: Identified Need for Coordination Between GIS and UAS Subcommittees

**APPROVAL: This White Paper was approved by the Board of Directors on April 4, 2024**

### SUMMARY:

The Geographic Information System Specialist (GIS) Subcommittee has identified that the Unmanned Aerial System (UAS) program is advancing, which necessitates predefined standards. The subcommittee anticipates that this technology will require a coordinated process between the groups to develop workflows, data management, and product development.

### FINDINGS

As newly applied technology, there have not been many use cases involving UAS in large scale emergency situations. However, cross collaboration between GIS and UAS could prove beneficial to product management.

### RECOMMENDATIONS

Addressing the following challenges, the GIS Subcommittee foresees impacting the GISS' on incidents.

- Data processing responsibilities
  - Interpretation of infrared data
  - Mosaicking of georeferenced images
  - File size/relevancy
  - NIFS/Field Maps data population
  - Video products
- Sharing
  - Relevant data needed by GISS
    - Could be different for SITL/Ops/etc
  - General deliverables
- End user needs could vary depending on complexity



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### IMPLEMENTATION PLAN

Alert the UAS Subcommittee that the GIS Subcommittee believes there is a need for cross collaboration and the need to develop a workflow both groups feel is appropriate. The how, and what, deliverables will also be a major discussion point. The GIS subcommittee believes that collaborating ahead of time will be a major benefit to not only these two groups, but other incident management team members' success such as Air Ops/Ops/PIO/etc.

### CONCLUSION

The GIS Subcommittee believes that a collaboration between the GIS and UAS Subcommittees will be advantageous and worthwhile, to identify the needs and challenges in the overlap that exists between the two groups when it comes to UAS information intelligence. The UAS Chair is aware and agrees to the request for collaboration between the subcommittees.

**Board of Director Approved: April 4, 2024**