Crow's Nest

Presented by Chad Lewis
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Source: Douglas County Search and Resc

Crow's Nest Solution

From Many to One

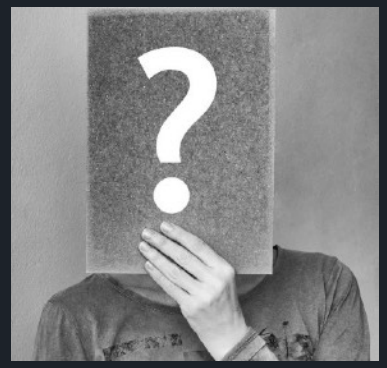
Drone Deployment

Topographic Maps

One Unified
Source of Truth

Radios

Subject Psychology



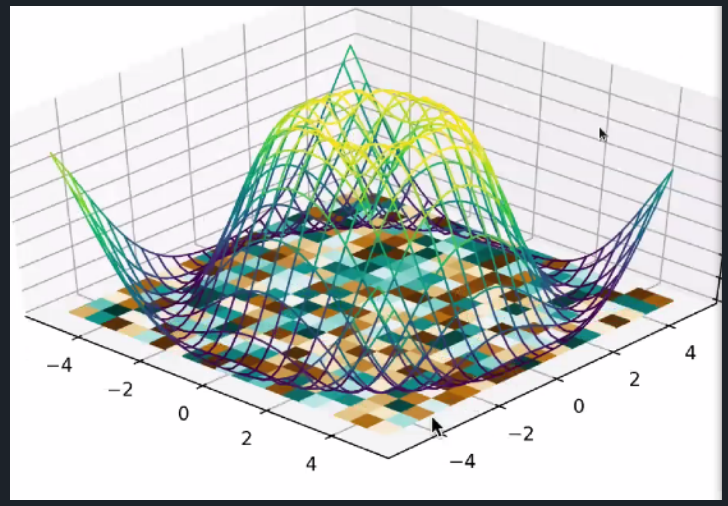
GPS Tracking

How?

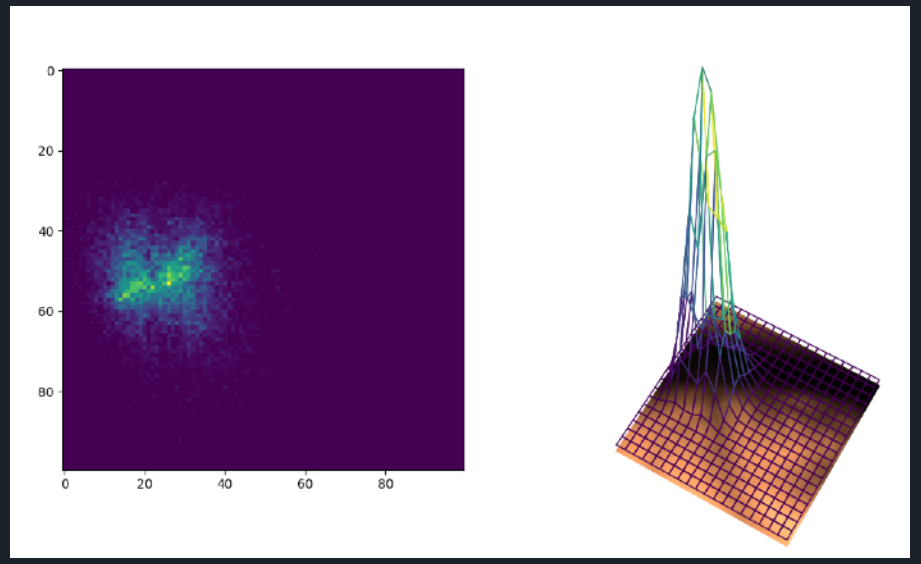
Raw Data

Raw Data

Data Fusion Algorithim



Probability Map

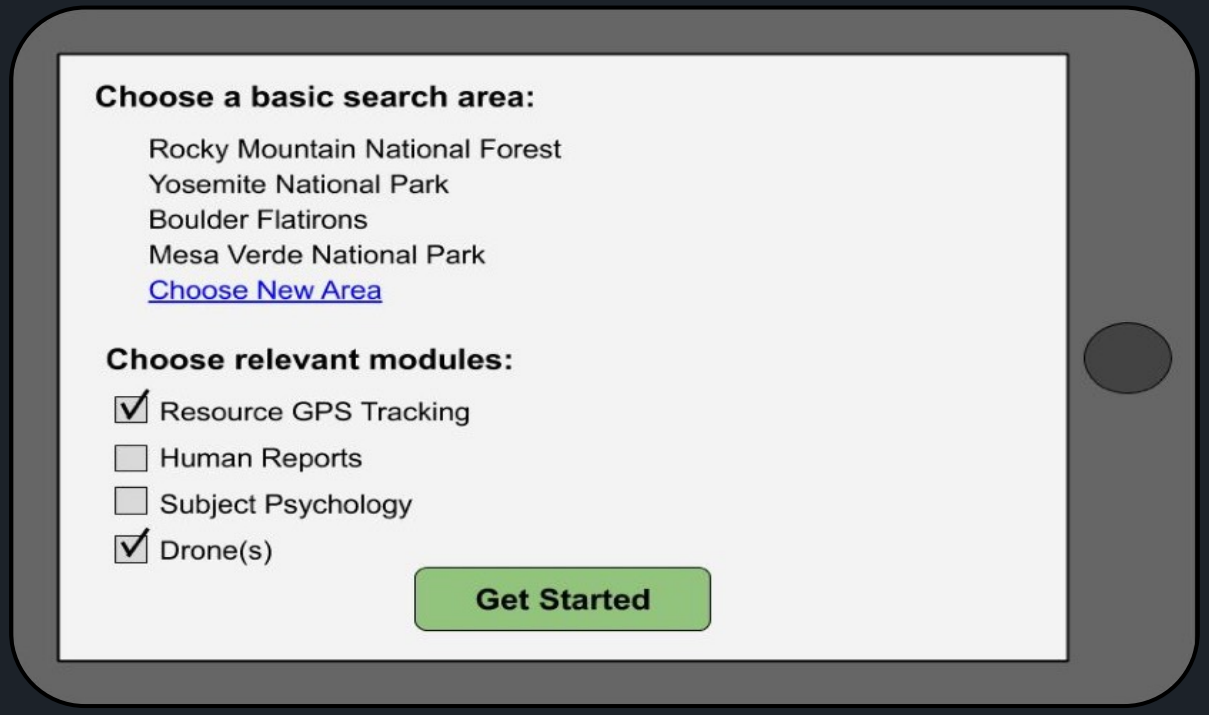


Crow's Nest
Solution

Find Lost People Faster

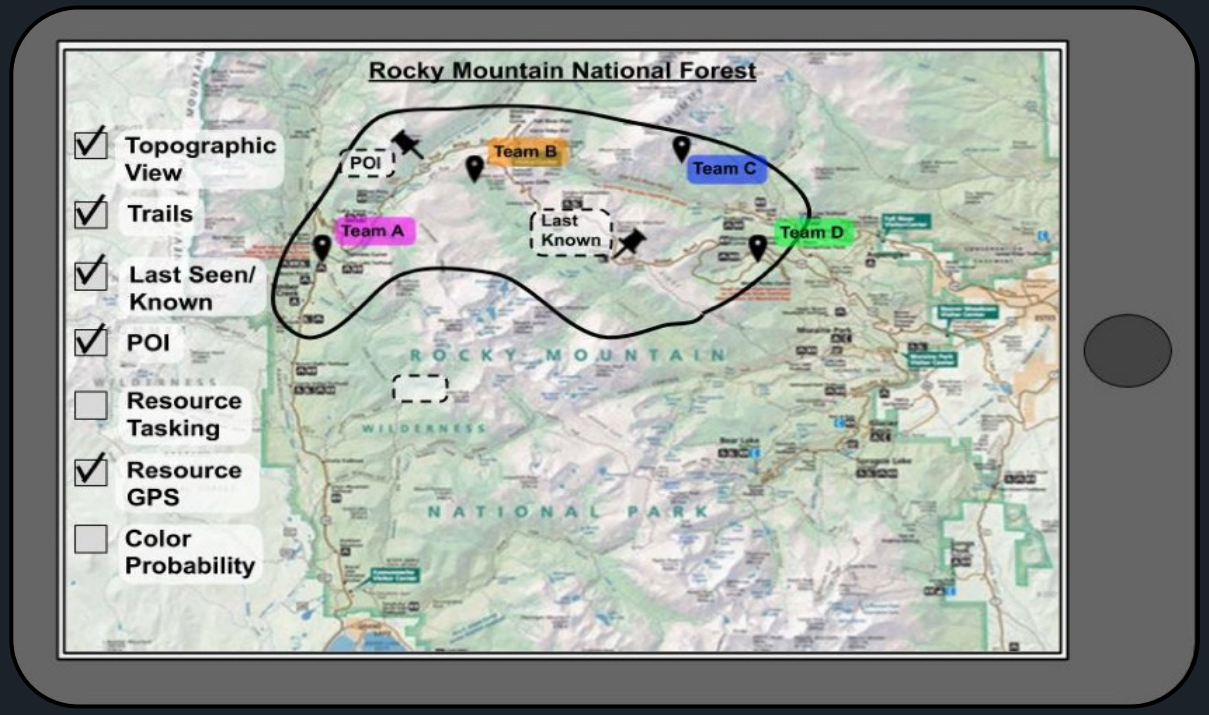
Planning and Active Operation Support

Observe OODA



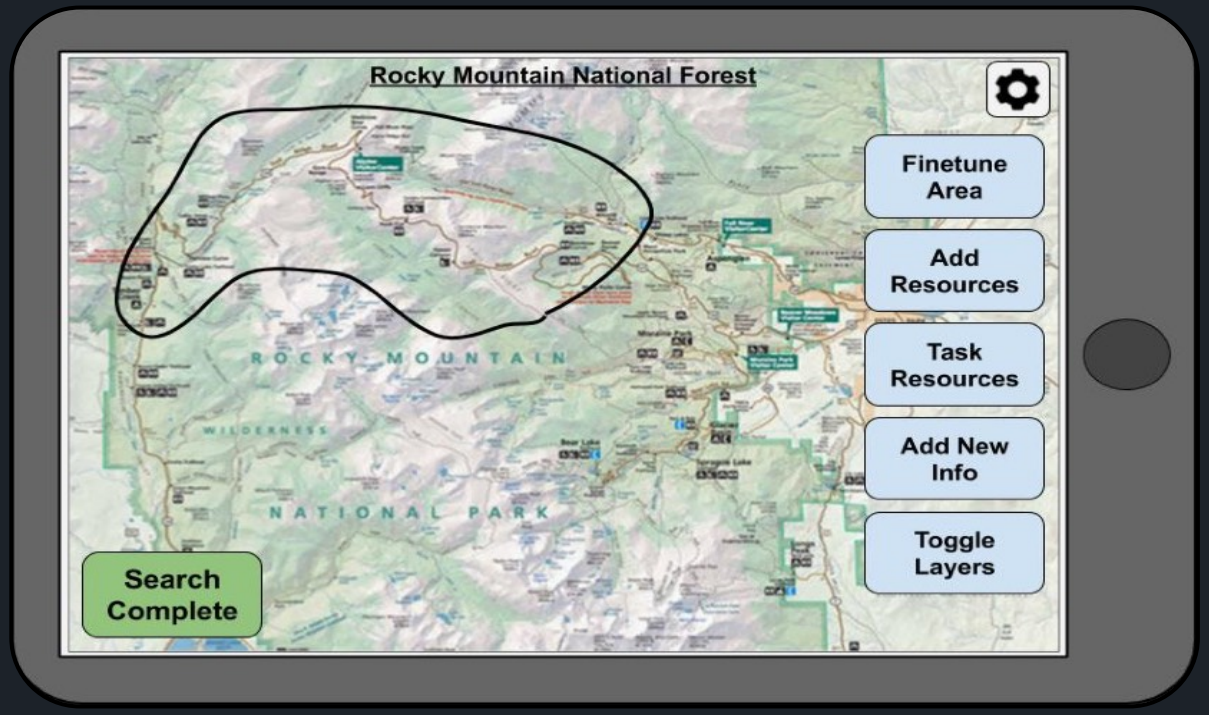
Collect Data to Observe the Situation

O
Orient
D
A



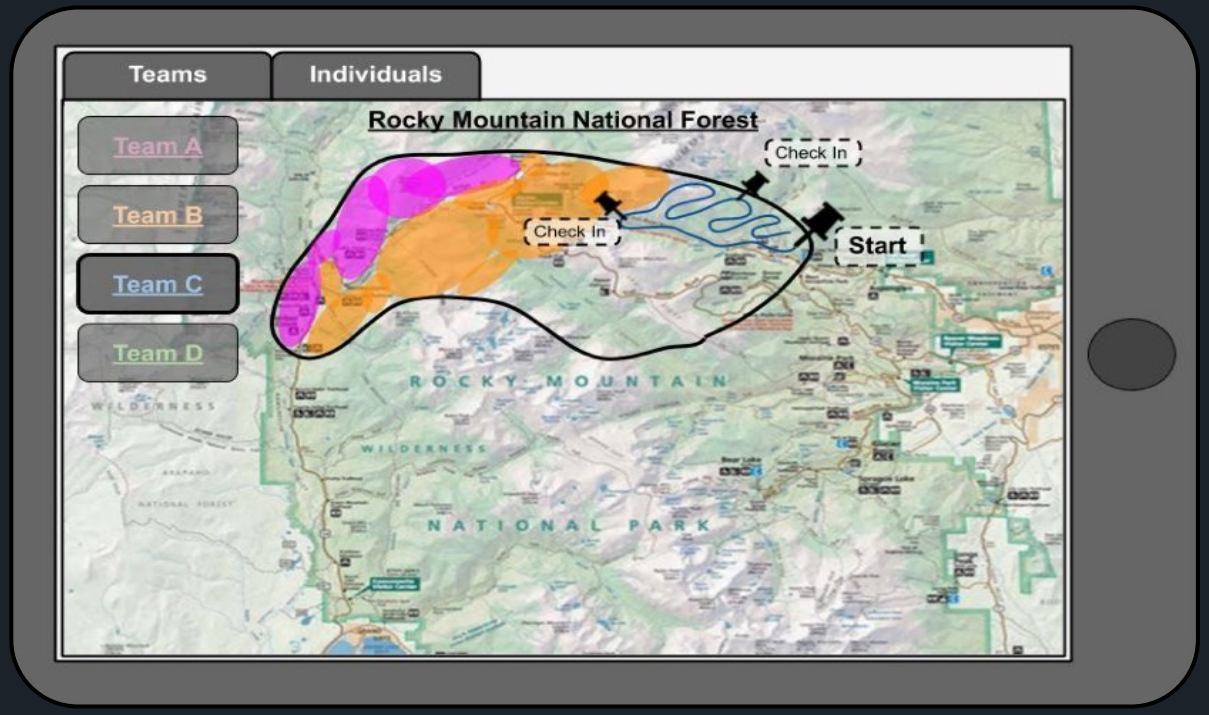
Project Areas of Interest to Orient the Search

O
O
Decide
A



Enhance Decision Capabilities

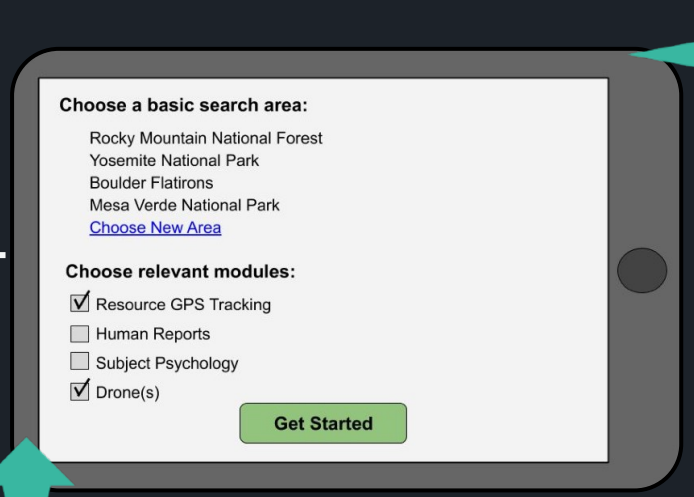
O
O
D
Act



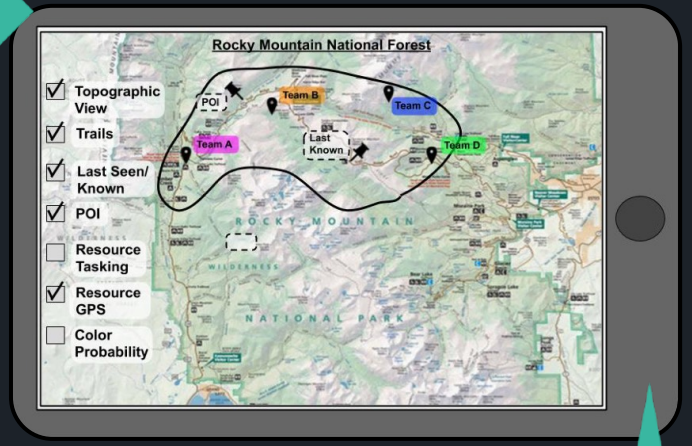
Support Action Decisions

Crow's Nest Solution

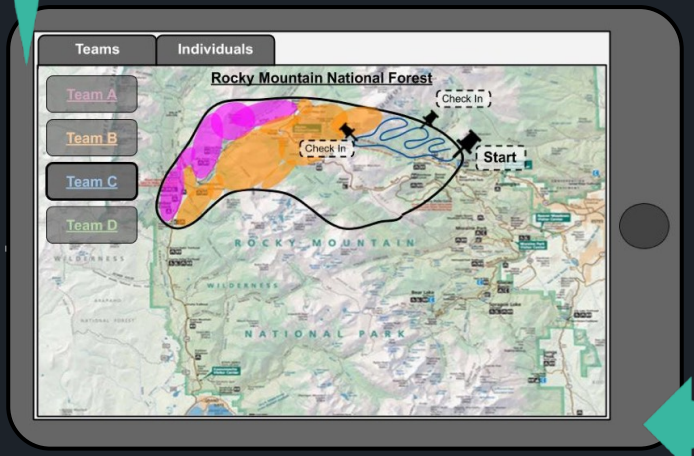
Collect Data to Observe the Situation



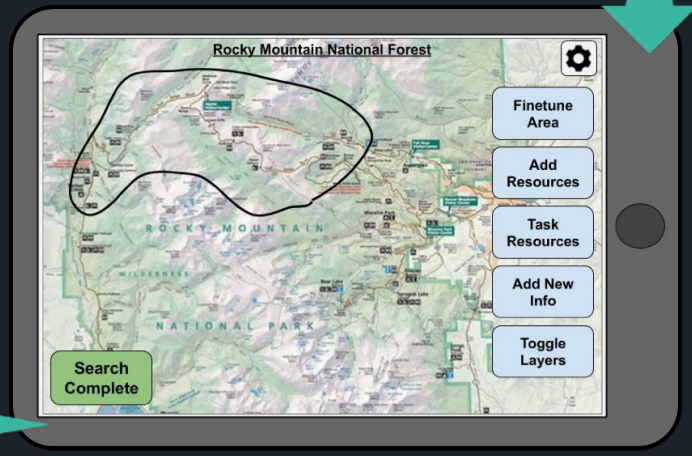
Project Areas of Interest to Orient the Search



Support Action Decisions



Enhance Decision Capabilities



ARMY NATIONAL GUARD
COLORADO

DOUGLAS COUNTY
N
W
E
S
SEARCH & RESCUE

We would use this.

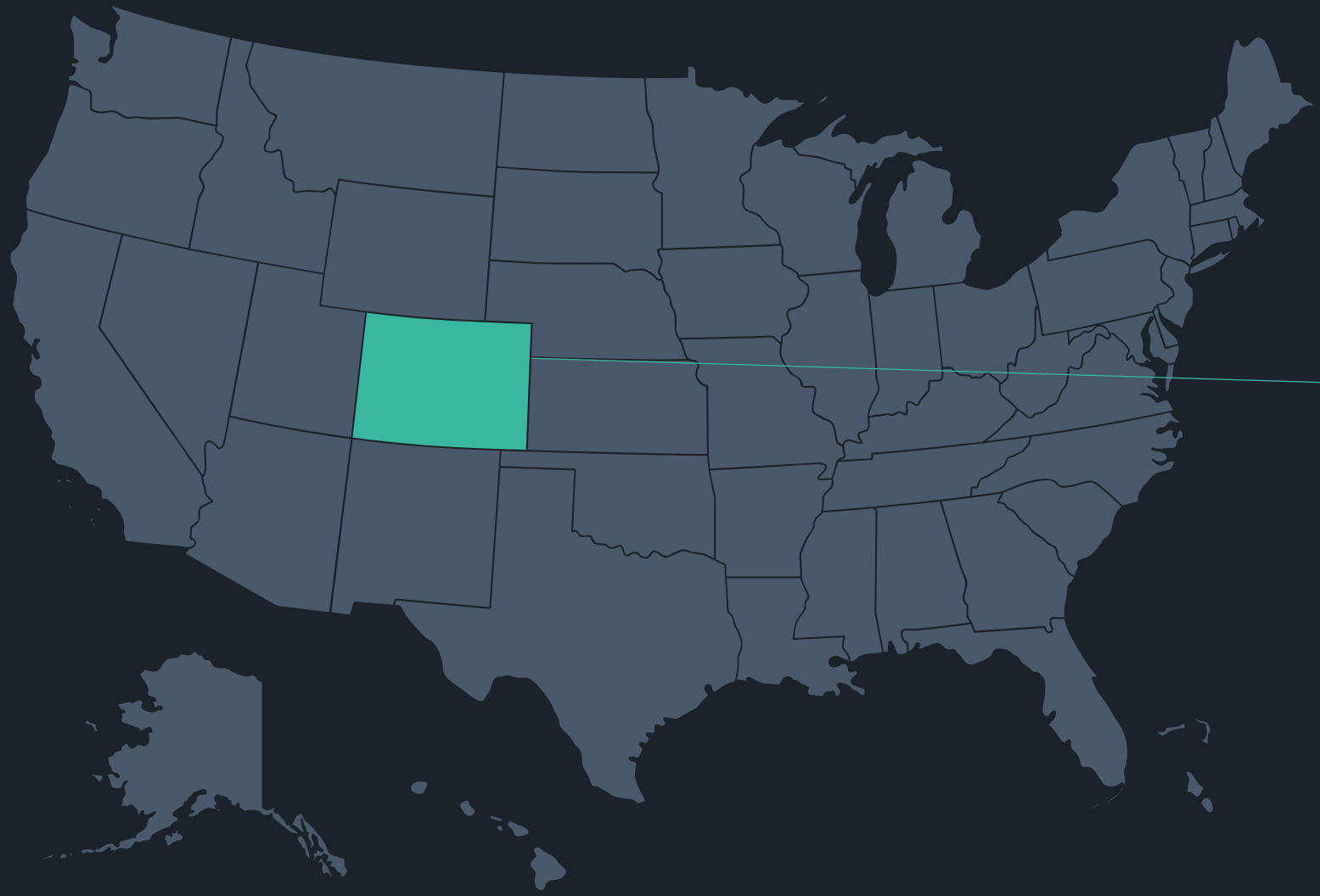
The Beachhead and Beyond

Colorado Search and Rescue Teams

Expansion to Major US States

Vertical Expansion

Search and Rescue in the USA



165 Incidents in Rocky Mtn. National

83 SAR Teams and Organizations

Top Five States for Search and Rescue

California 16%

Arizona 13%

New York 12%

Nevada 8%

Colorado 7%

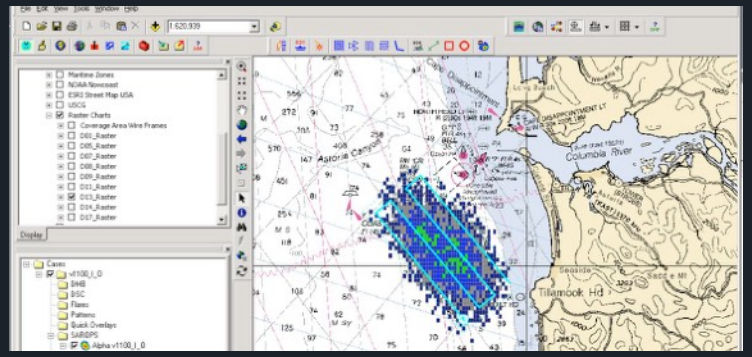
A Total Cost Per Year Around 700 Million for SAR

The Competition

ATAK

DRONE DEPLOY

SAROPS



Our Team

Jeff Venicx

PhD in Computer Science

Jake Luoma

Masters in Computer Science

Stacy Hayes

B.S. in Computer Science

MIDN Alex Mclaren

B.S. Electrical Engineering

Our Team

Chad Lewis

B.S. in Computer Science

Jake McGrath

B.S. in Aerospace Engineering

Nolan Ferguson

B.S. in Aerospace Engineering

We bring harmony where there is chaos

We let operators focus on saving lives

We make decision making faster and smarter

Questions?

Crow's Nest

Chad Lewis

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