

Multi-Vehicle Control Working Group: CONOPS

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Scope:

Especially as we begin and formulate the working group, we are inclusive

Does my CONOPS fit?

Yes

Delivery, UAM, infrastructure, pseudo sat, Px carrying, etc.

1:N, M:N, Swarms

Are my vehicles covered?

Yes

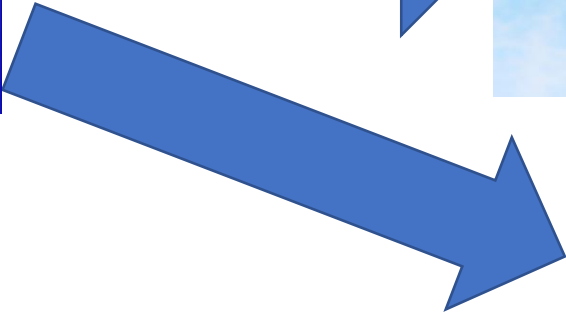
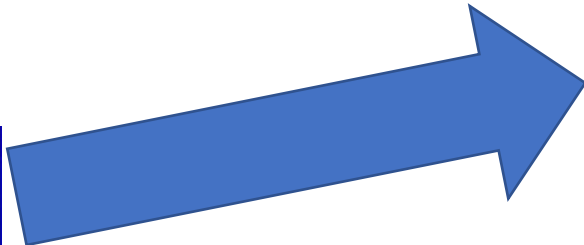
Small UAS, UAM, high altitude long endurance, automobiles, auto cargo

Are my pilots, operators, supervisors, fleet supervisors, etc. included?

Yes

1:N (PIC)

Remote ground control stations



Level of Automation

From relatively manual waypoint control of flight path management to highly automated systems (HITL, HOTL)

Supervisory control – [yes](#)

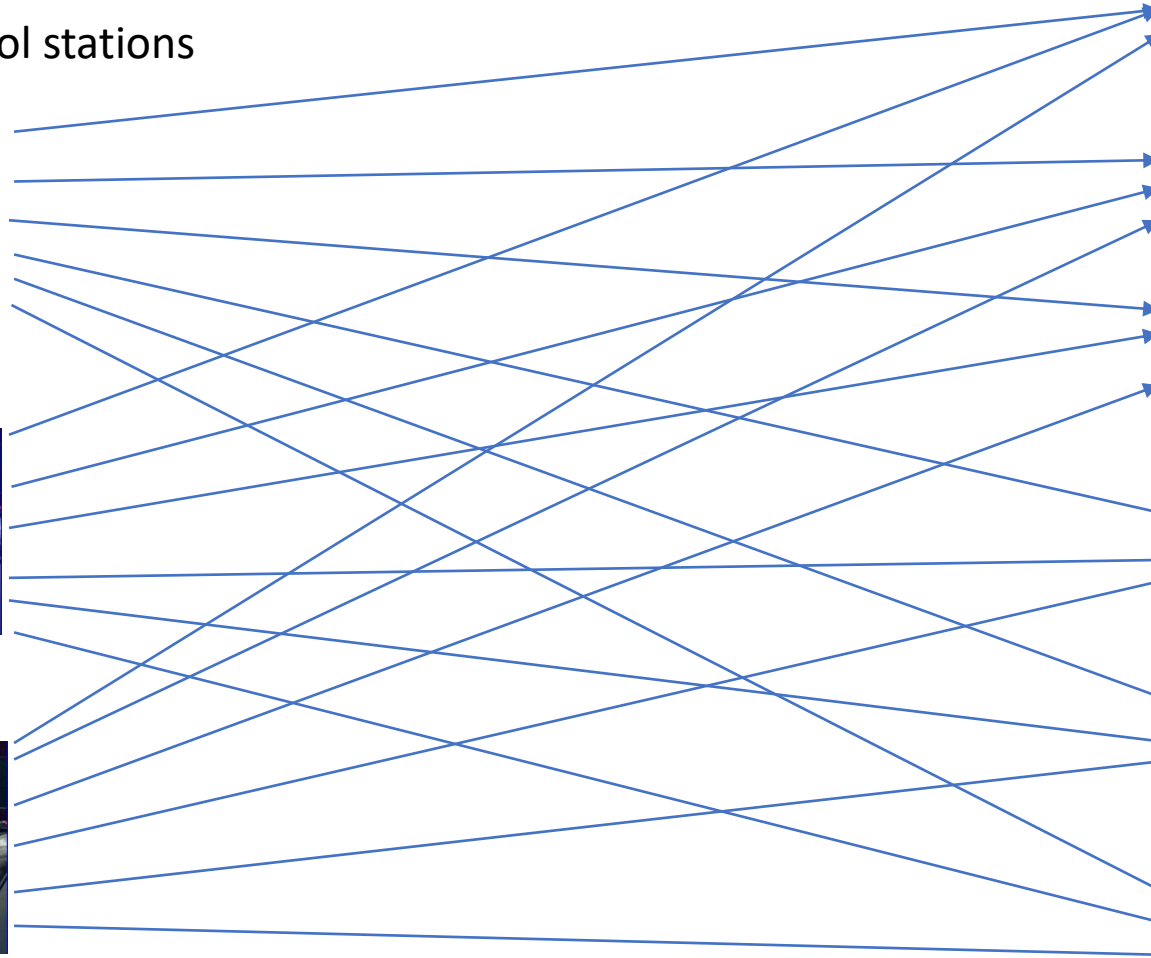
Swarms – [yes](#)

Highly automated aircraft – [yes](#)

Mixed initiative control - [yes](#)

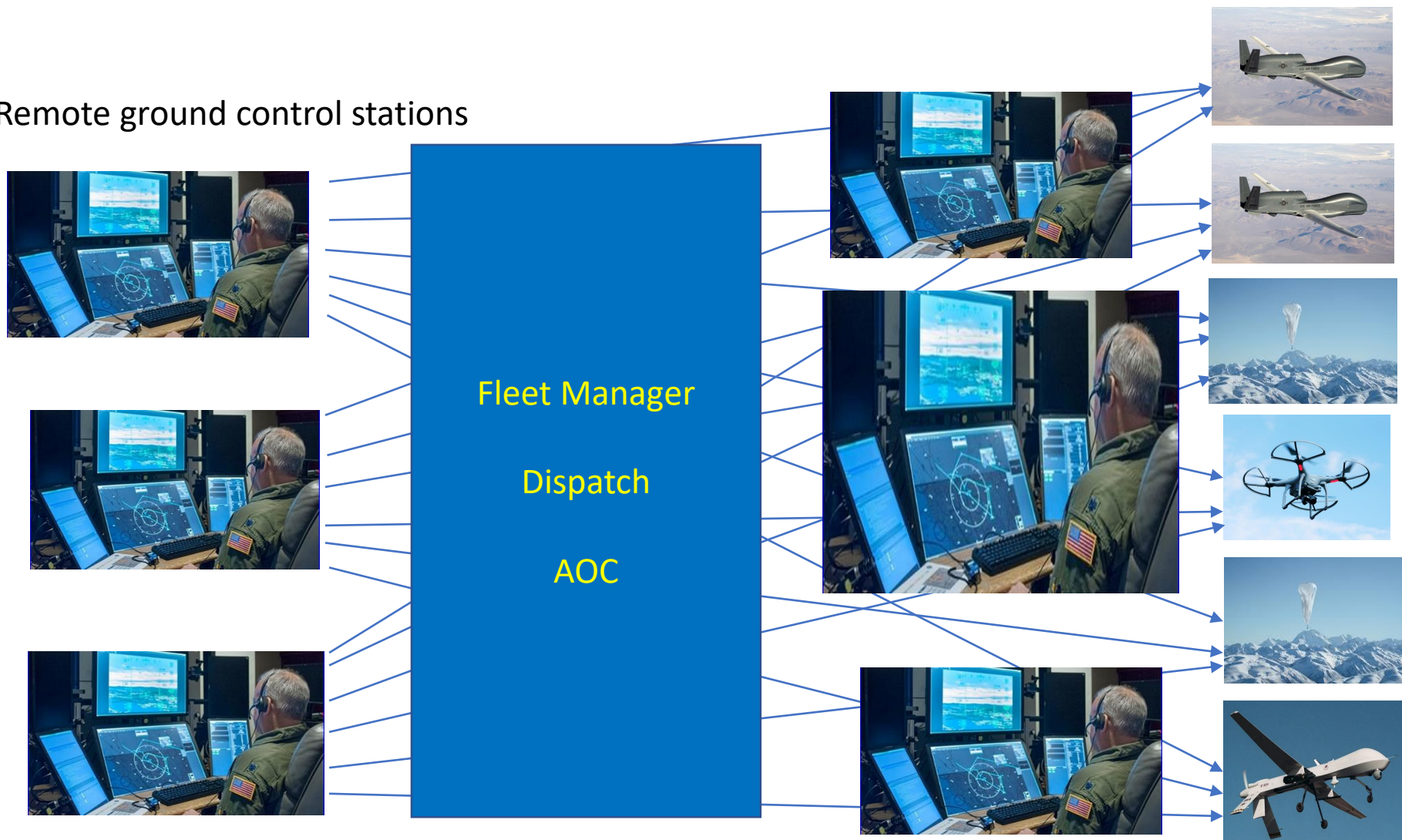
m:N

Remote ground control stations



m:N (Fleet Manager)

Remote ground control stations



How many A/C can one (control, supervise, fill in the blank) control?

Dependent of so many factors:

Level of automation

Complexity of operations

Contingency management

Function of event rate and duration...(and switching costs...)

NOT specifically trying to answer this question – but rather understand the factors that determine the answer.

In Summary

Yes