NDIA Gun & Missile Systems Conference

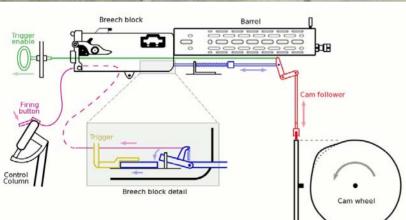
Panel Discussion: Unmanned and Autonomous Systems Weapons Integration

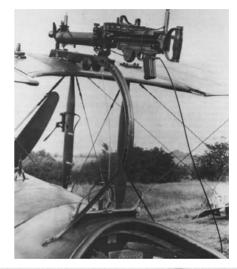
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Ferdinand Foch, allied commander in chief in 1918, reputedly stated in March 1913 "Aviation is fine as sport.

I even wish officers would practice the sport, as it accustoms them to risk. But, as an instrument of war, it is worthless (c'est zero)."

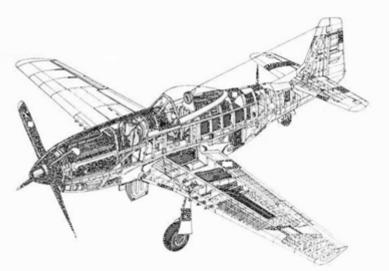






1940: North American Aviation contracted to develop the P-51 Mustang. The original NA-73X had (2) chin mounted 50 cal guns.





Within a few short years the P-51 had all wing mounted guns and began carrying rockets mounted to external wing stations.









60 years later, the FA-18 exemplifies a mission and systems integration focus: The entire platform design enhances capabilities and effects for the tactical mission







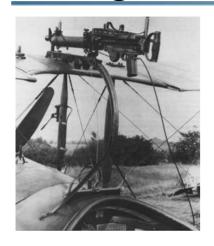


The UAV community has turned the corner and adopted the concept of matching armed capabilities to mission requirements





Turning the Corner For UGVs







Where, when and how does the UGV community make this transition up the evolutionary ladder?









Desired Endstate

Effectiveness/Combat Effectiveness

Efficient, reliable, and accurate



Multiplicity

 Multiple platforms deployable on a single mission set



Scalability

Responsive via lethal and non-lethal applications

Meets multiple battlespace requirements

ranging from effective passive deterrence to combat force multiplication



Safety

Unquestionable and trusted ally





Future Capabilities





