



AI powered combat drones

with stealth technology and swarming capabilities

WHAT WE DO



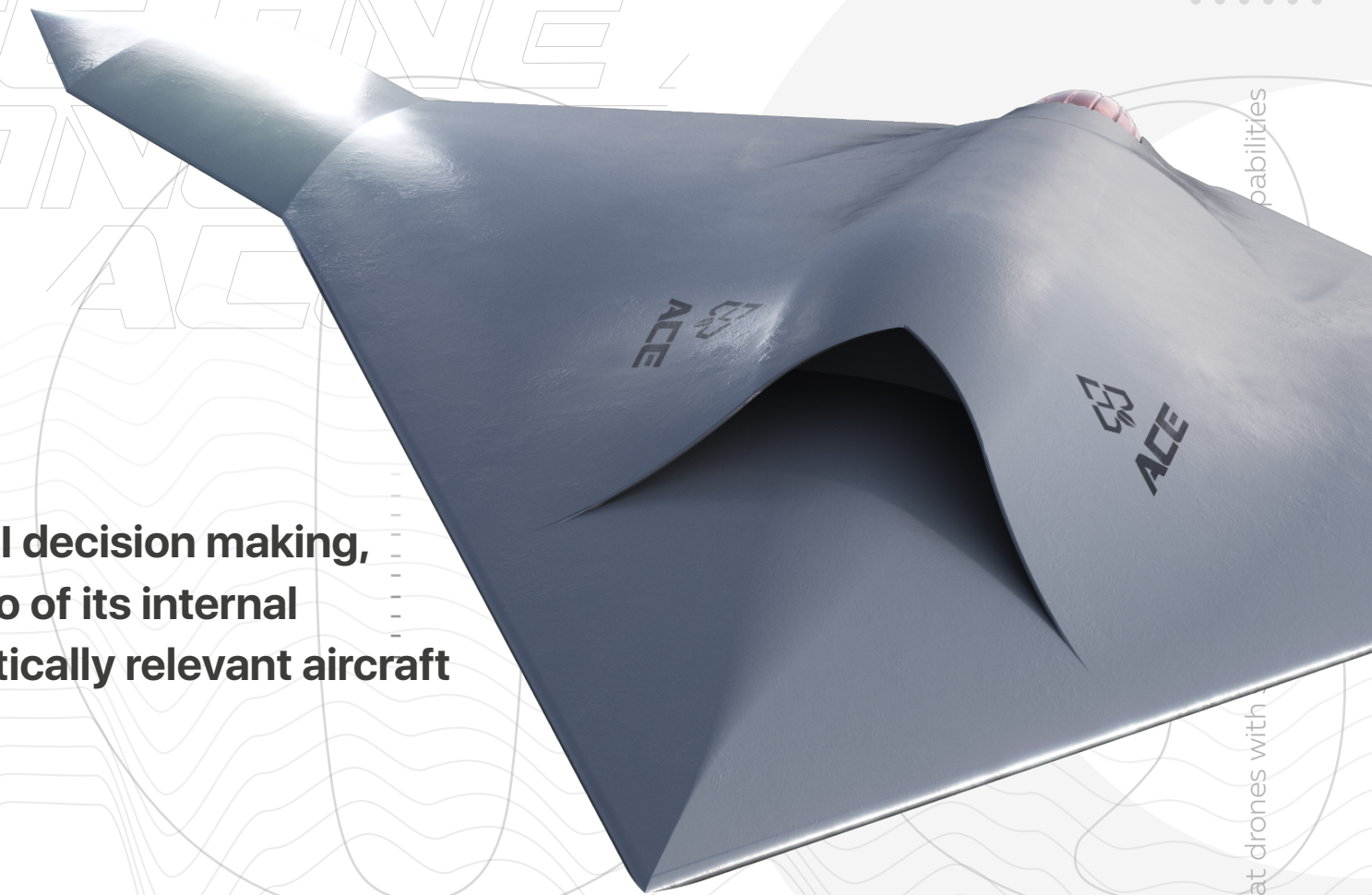
ACE develops and fields transformative, affordable unmanned aerial systems for national security needs

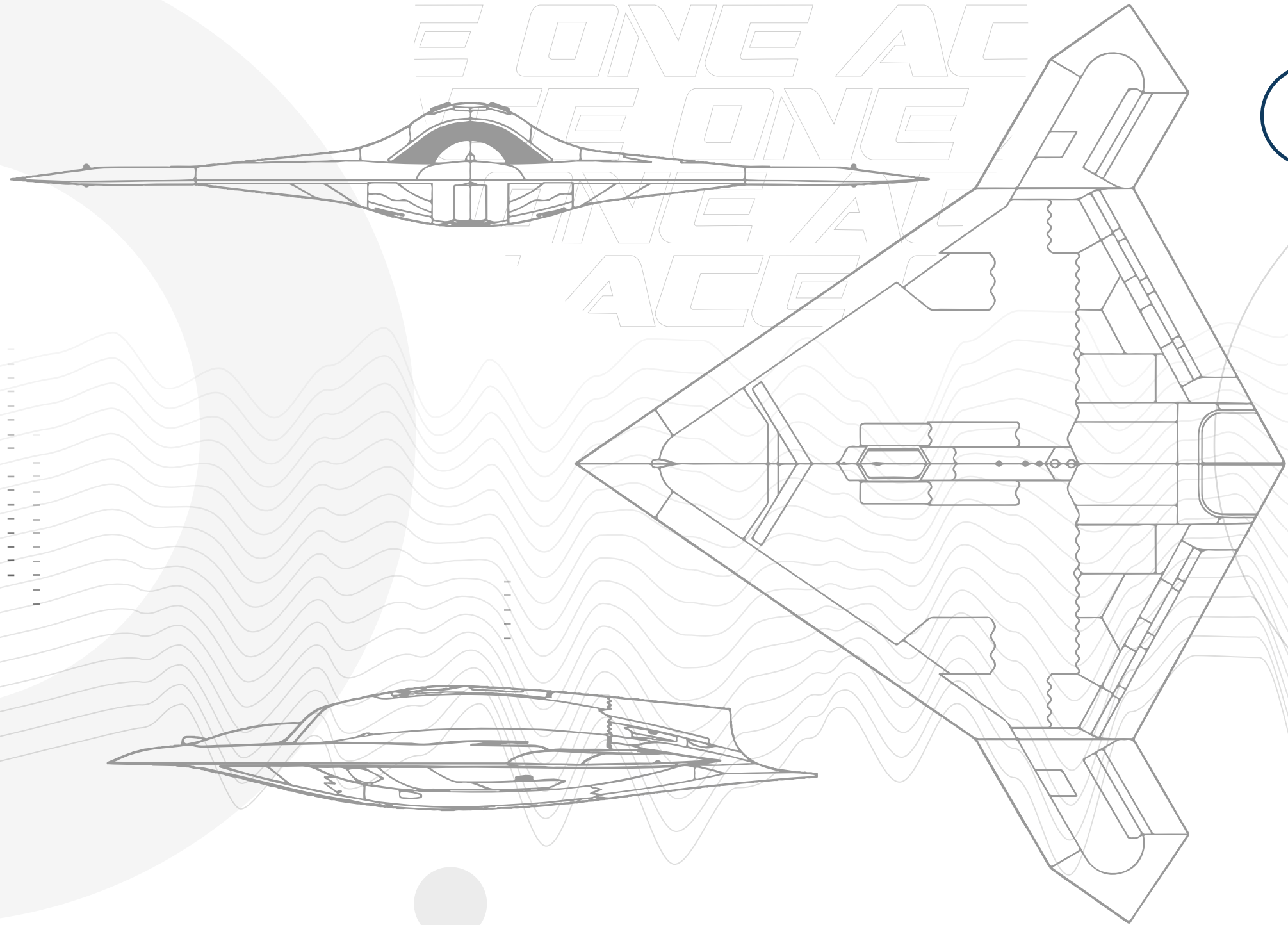
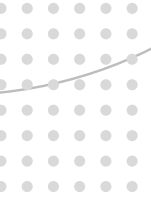


We bring breakthroughs rapidly to the markets through proven commercial technology approaches

ACE ONE

Delivers a combination of high-speed and low observability, along with the AI decision making, swarming solutions and capability to deliver a mix of lethal weapons from two of its internal weapon bays. It was developed to break the escalating cost trajectory of tactically relevant aircraft and to provide an unmanned escort to a crewed fighter aircraft in combat.





Ace One specs

MTOW **7.5 t**

Max velocity **0.95 M**

Operational radius **1500 km**

Altitude **13.7 km**

Weight of ammunition **0.9 t**

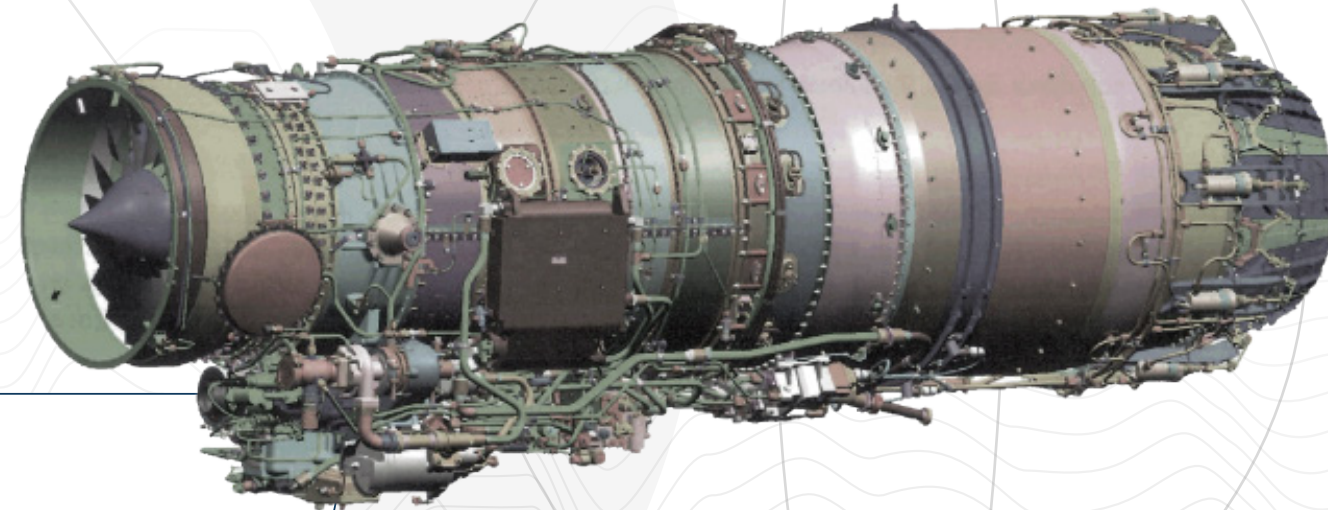
ACE ON
ACE ON
ONE AC
ONE AC
ONE AC

Designed and manufactured **in Ukraine**

ENGINE

Ivchenko AI-332F

By Ivchenko-Progress SE and Motor Sich PJSC



Thrust w/o afterburner **2,5 kN**



Thrust with afterburner **4,0 kN**



Weight, dry **560 kg**



Specific fuel consumption **0,66 kg/daN/h**

MISSION LOADS

Guided weapons (examples)



ACE R-60 (AA-8 Aphid)

The project to improve the combat capabilities of the R-60BM guided aircraft missile.

The ACE-R60 missile is designed to hit low-temperature (low-contrast) objectives. It is supposed to engage mainly the small-size air targets.



ACE WING-270 (FAB-270)

Precision guided bomb designed to be effective against enemy troops, vehicles, and buildings. Operates in different weather conditions, using satellite and inertia navigation systems.



Combat capabilities

Air defense operations in the wide range of altitudes



Suppression of the adversary air defense



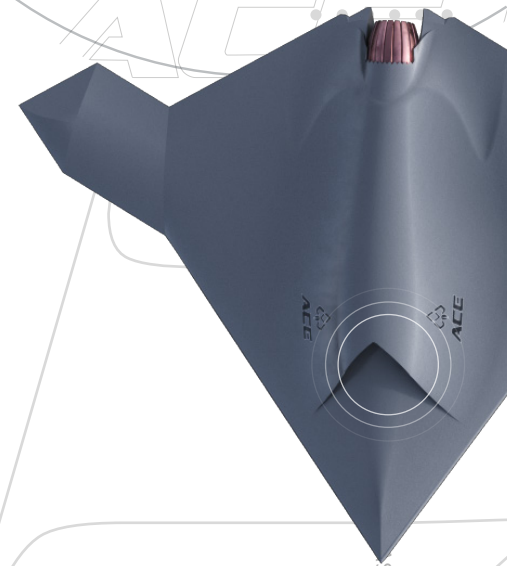
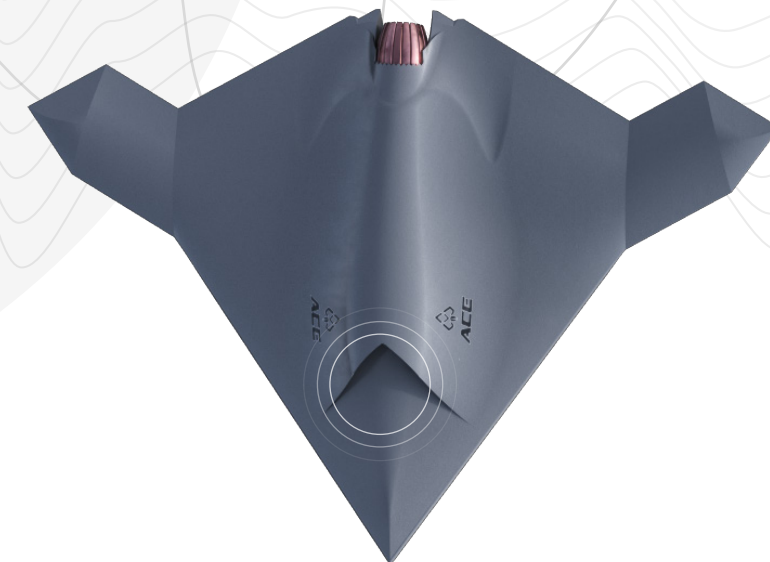
Elimination of the adversary UCAV



Weaponized patrol



Loyal wingman applications



Technology readiness level (TRL5)

Key enabling technologies validated in relevant environments

Availability of all necessary critical technologies

Reheated turbofan engine designed and manufactured in Ukraine

Great team of engineers with rich experience in aerospace design and manufacturing





Team of 25 top-ranked

Ukrainian scientists and professionals in the aerospace industry



Key People

ACE ONE

Project team



Dr. Alexander Los

Chairman of the board, former President of the Antonov SE, a renowned professional and scientist with more than 20 years of experience in the aerospace industry



Volodymyr Usov

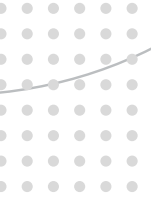
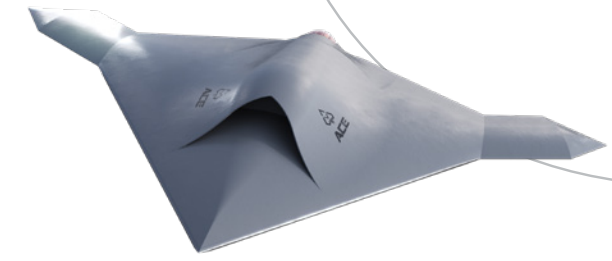
VP of Product, former Chairman of the State Space Agency of Ukraine, member at International Academy of Astronautics



Volodymyr Tit

Executive director, founder of Hydrobest aerospace company. More than 20 years of experience in the aviation industry

Projected financials



\$960m revenues



10% market share

ACE plans to hit 30 sales of ACE ONE swarms between 2025-2031, generating \$960m in revenues (35% net profit margin) and to reach 10% of high speed combat drones market share

Value proposition

ACE ONE SWARM

3 drones + mobile control station

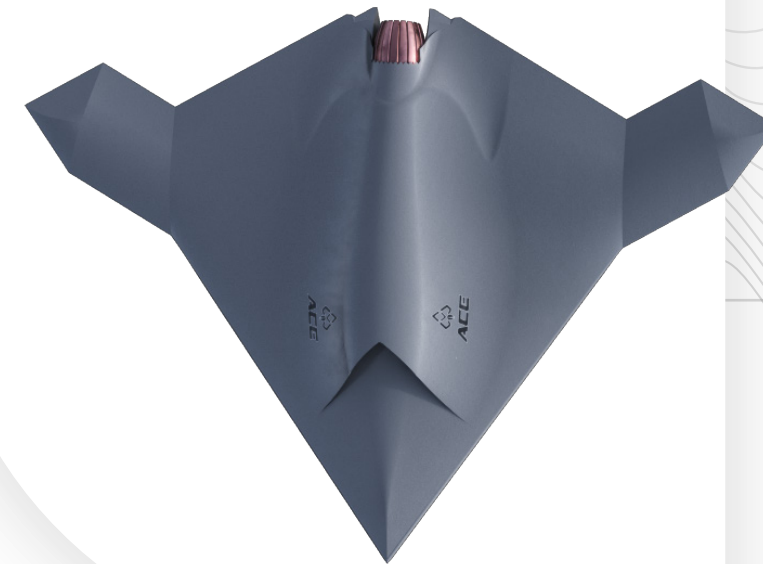
\$32m



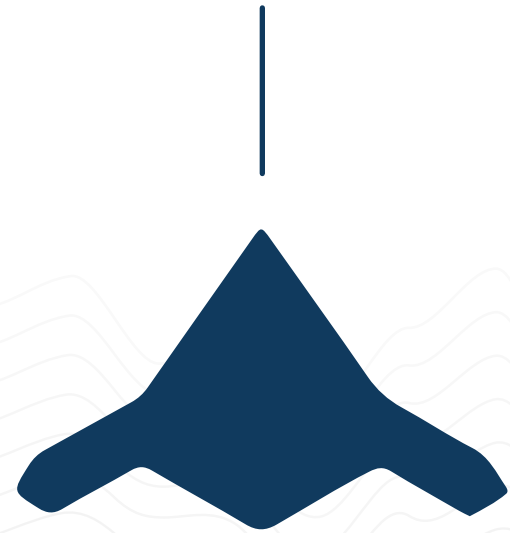
ACE ONE

1 drone

\$10m



Competitive analysis



X-47B / Northrop Grumman

Gross weight, tons	20
Max speed, M	0.9+
Weight of ordnance, tons	2
Unit price, USD mln	60



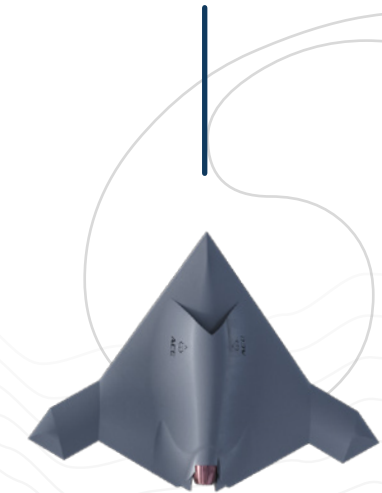
S-70 Okhotnik / Sukhoi

Gross weight, tons	20
Max speed, M	0.9+
Weight of ordnance, tons	2
Unit price, USD mln	50



Neuron / Dassault

Gross weight, tons	7
Max speed, M	0.8
Weight of ordnance, tons	0.4
Unit price, USD mln	25



ACE ONE / A.C.E.

Gross weight, tons	7.5
Max speed, M	0.9+
Weight of ordnance, tons	0.9
Unit price, USD mln	10

Total investment volume

65M



Ground control complex **\$7m**



Aircraft development **\$20m**



Prototype manufacturing **\$6m**



On-board equipment development **\$5m**



Engine integration **\$4m**



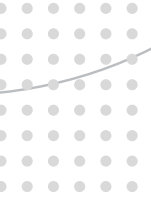
Weapons integration **\$2m**



Pre-qualification flying tests **\$5m**



AI control system **\$16m**



Next steps



Upcoming milestone 2021-2022
ACE ONE technical documentation ready for preliminary design review
\$1.8m



Next milestone 2022-2023
ACE ONE technical documentation ready for critical design review
\$15m



Preliminary design project **\$1.8m**



Hardware detailed design **\$5m**



Industrial portfolio and tooling **\$3m**



Aircraft equipment ground testing **\$3m**



Electronics integration test bench **\$2m**



AI software development **\$2m**



ACE

AIR COMBAT EVOLUTION



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