

Future generation of light attack helicopters and multi-role drones

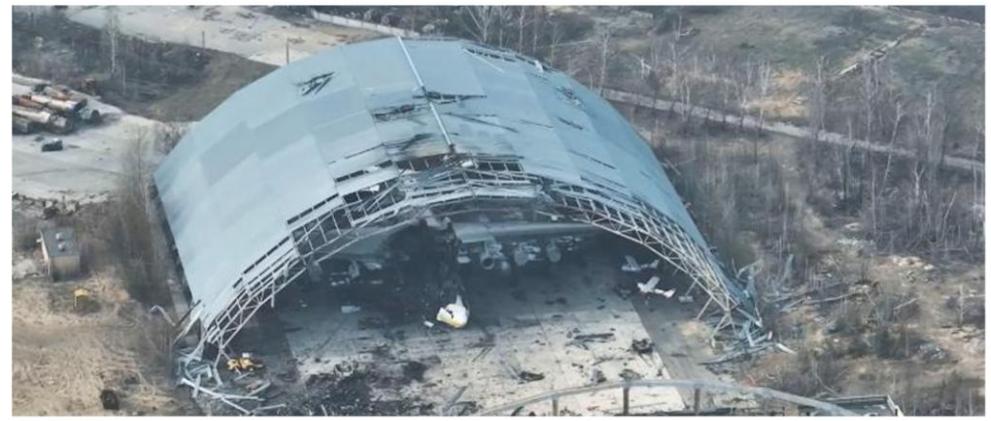


Helicopter Technology
Central and Eastern Europe
Meeting in Prag / 21.05.2025

Conclusions from Ukraine

Weaknesses:

Service halls
Airplanes
Helicopter
Runways



Advantages:

Guerrilla warfare
- hit and run
- artillery

Drones

The problem

Maintenance hall's for helicopter:

Large space requirement due to the rotor diameter



EC 665 Tiger:

Rotor Ø: 13 m

Height: 3,8 m / 5,2 m



Airbus H145M:

Rotor Ø: 11 m

Height: 4,0 m

The solution

Vanisher 1-A:

Rotor Ø: 4,5 m

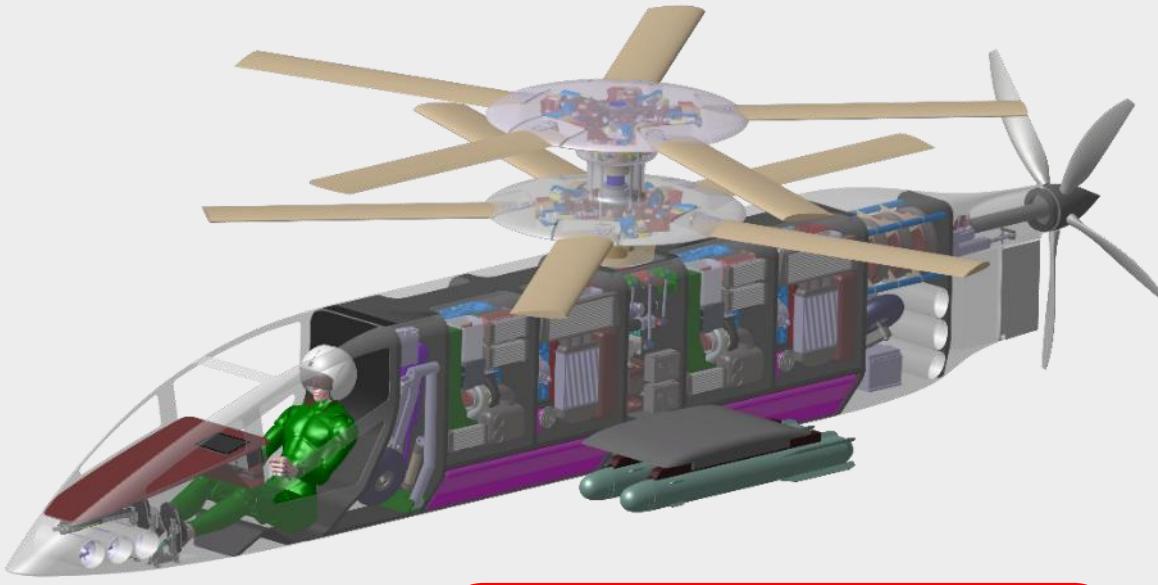
Height: 2,5 m

Length: 7,8 m

Power: 936 kW

MTOW: 2.300 kg

Payload: 550 kg



Speed: 650 km/h

Range: 650 km

Separating the power module from the gearbox

Guerrilla air warfare



Natural habitat:

Example: north of Finland (Lapland)



Guerrilla air warfare



Natural habitat:

Safe house and
maintenance

hidden flight

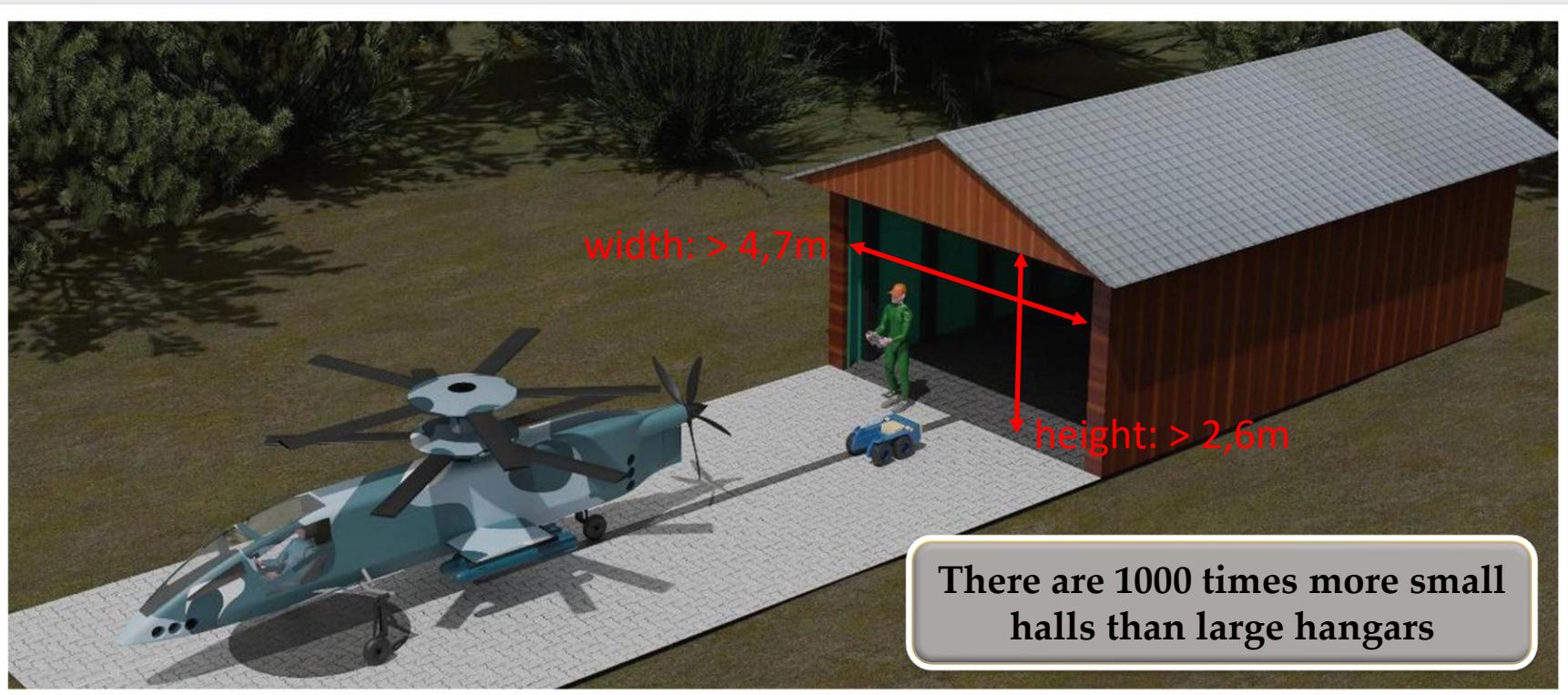


Finland (Lapland)

Guerrilla air warfare

Safe house:

Minimal space requirement



Guerrilla air warfare

Modul System:

> 95 % Ready to fly
(operational readiness)

no mechanical connection between power module and gearbox

power module could be serviced at a different location



Power modul replacement in under 20 min
(quick fasteners used for dismantling)

Summary

Vanisher 1-A:

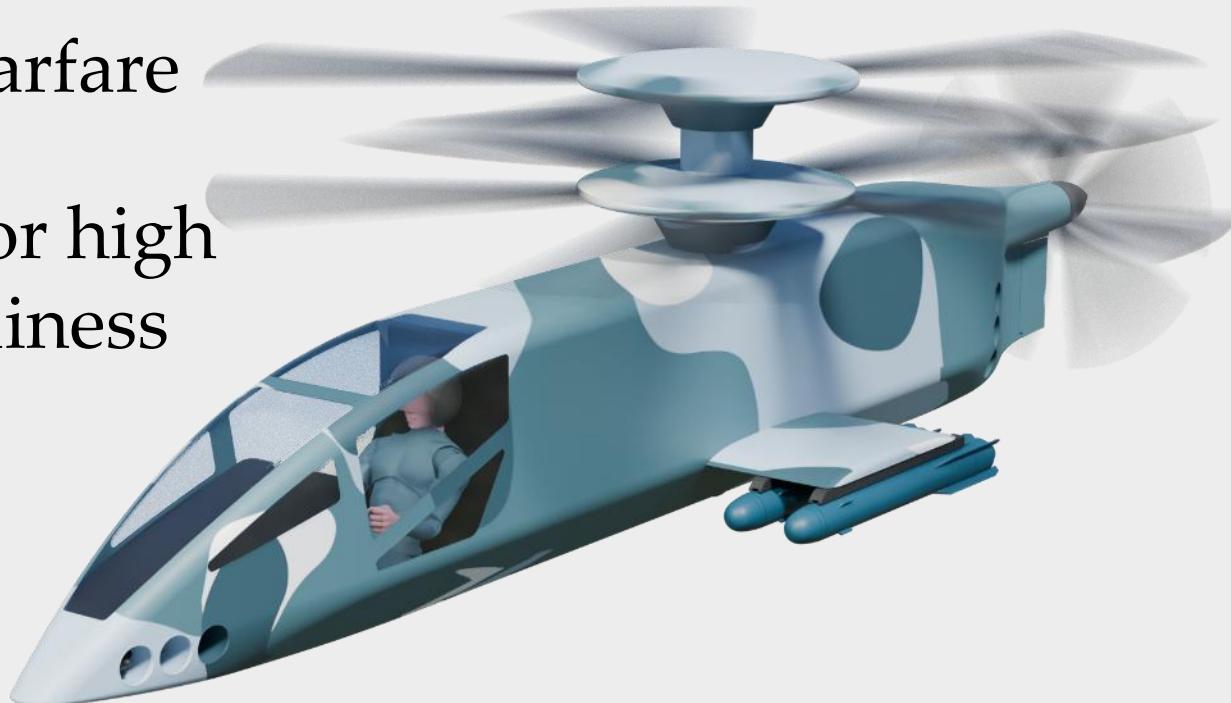
Light attack helicopter with
completely new flight characteristics

Guerrilla air warfare

Modul system for high
operational readiness

1 Pilot

8 Brimstone

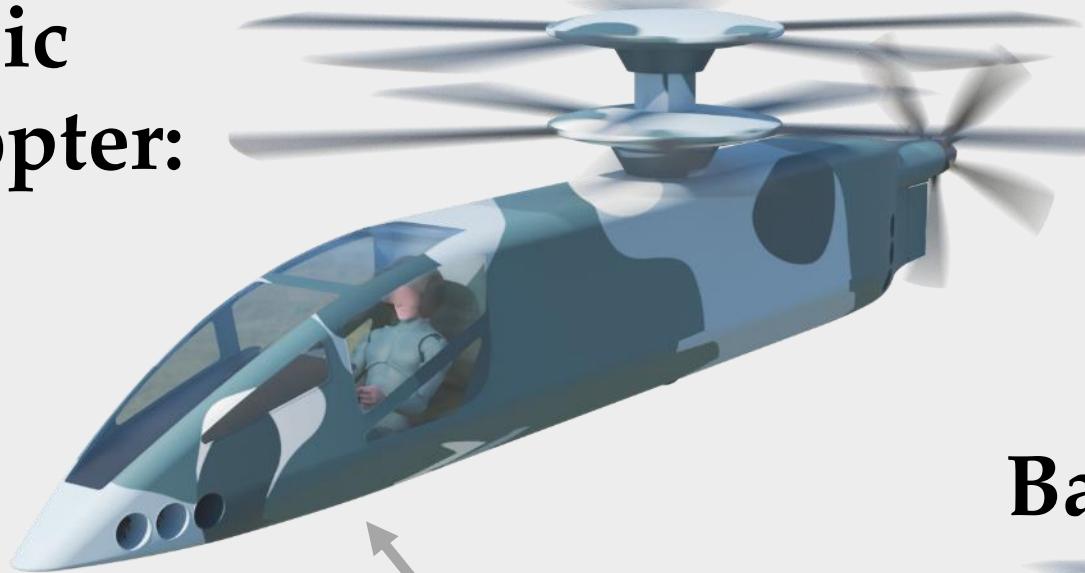


Modular add-on systems

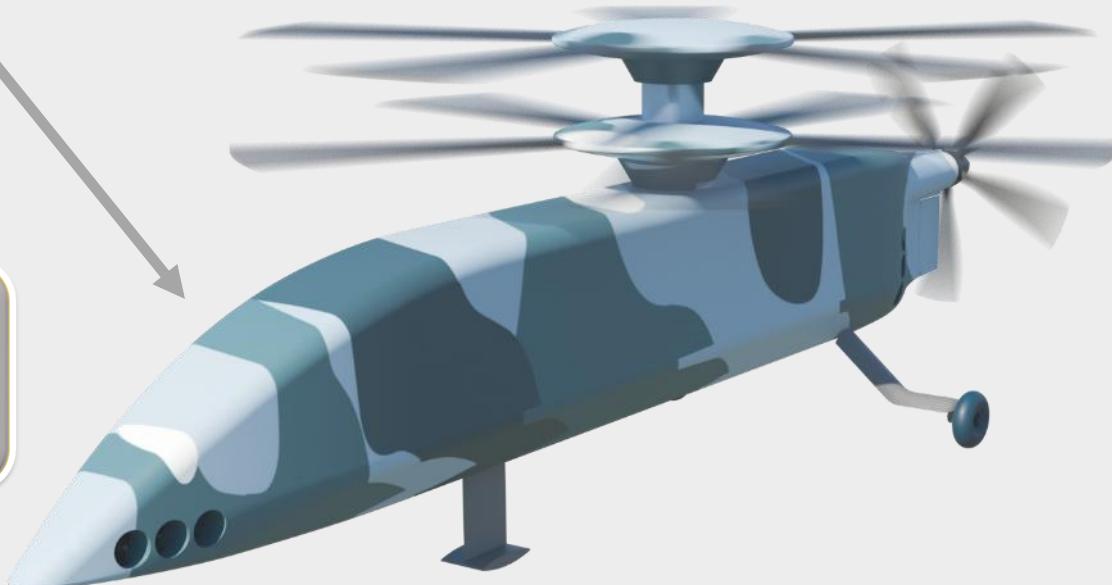
Modular add-on systems



Basic
Helicopter:



Basic Drone:



same main parts
same dimensions

different landing gear

Modular add-on systems



Basic
Helicopter:



Light Attack Helicopter



Loitering ammunition defense



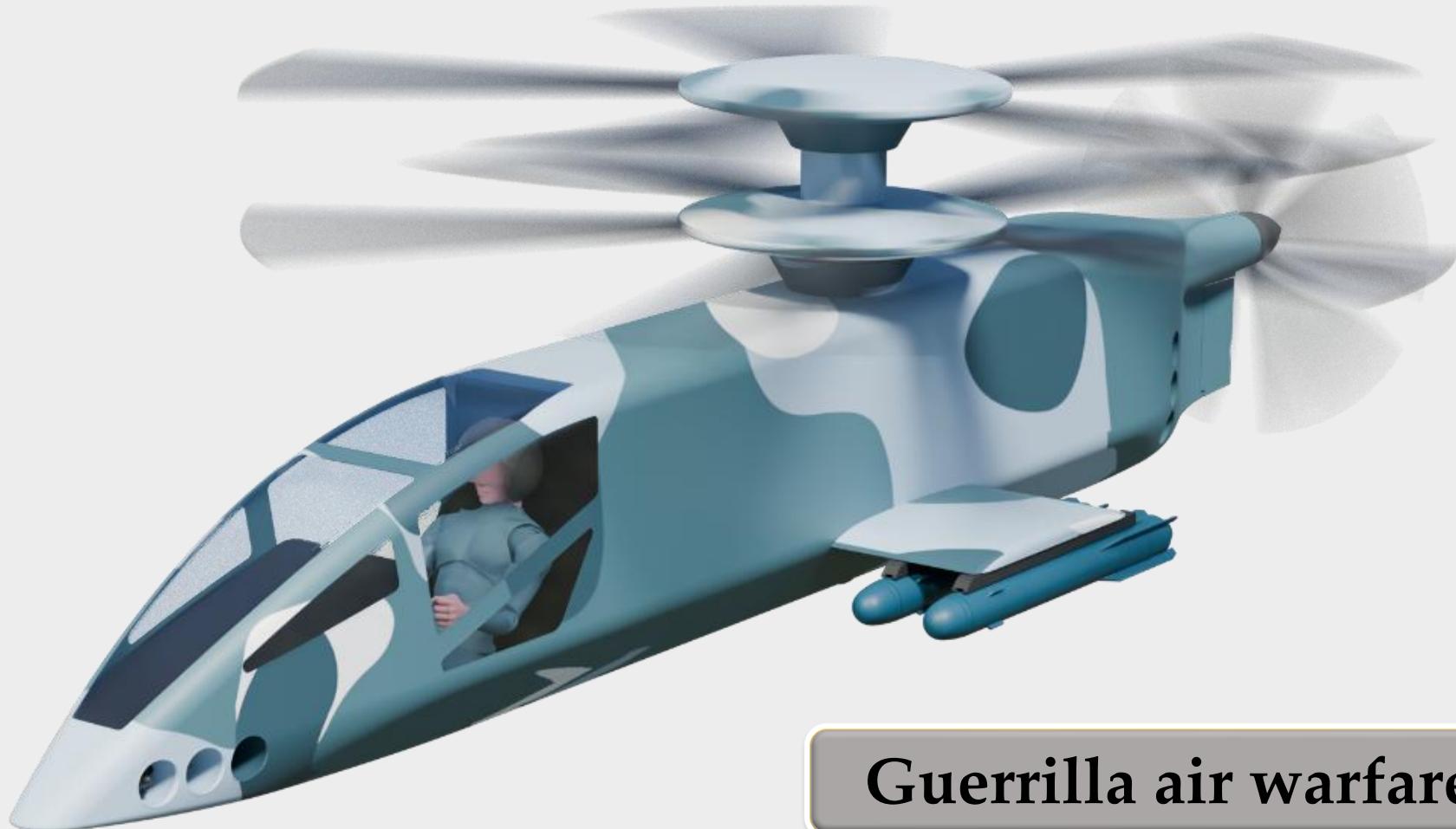
Rescue Helicopter

Replacement of the modules in 15 minutes

Vanisher 1-A



Light attack helicopter:



Guerrilla air warfare

Vanisher 1-D



Loitering ammunition defense:



Cleaning off a city's sky

Vanisher 1-R



Rescue helicopter:



Food supply + rescue mission

Modular add-on systems



Basic
Drone:



Light Attack Drone



Rescue Drone



Mothership
Drone

Replacement of the modules in 15 minutes

Vanisher D-A



Light attack drone:

VTOL Predator Drone

Same CAD construction as the helicopter

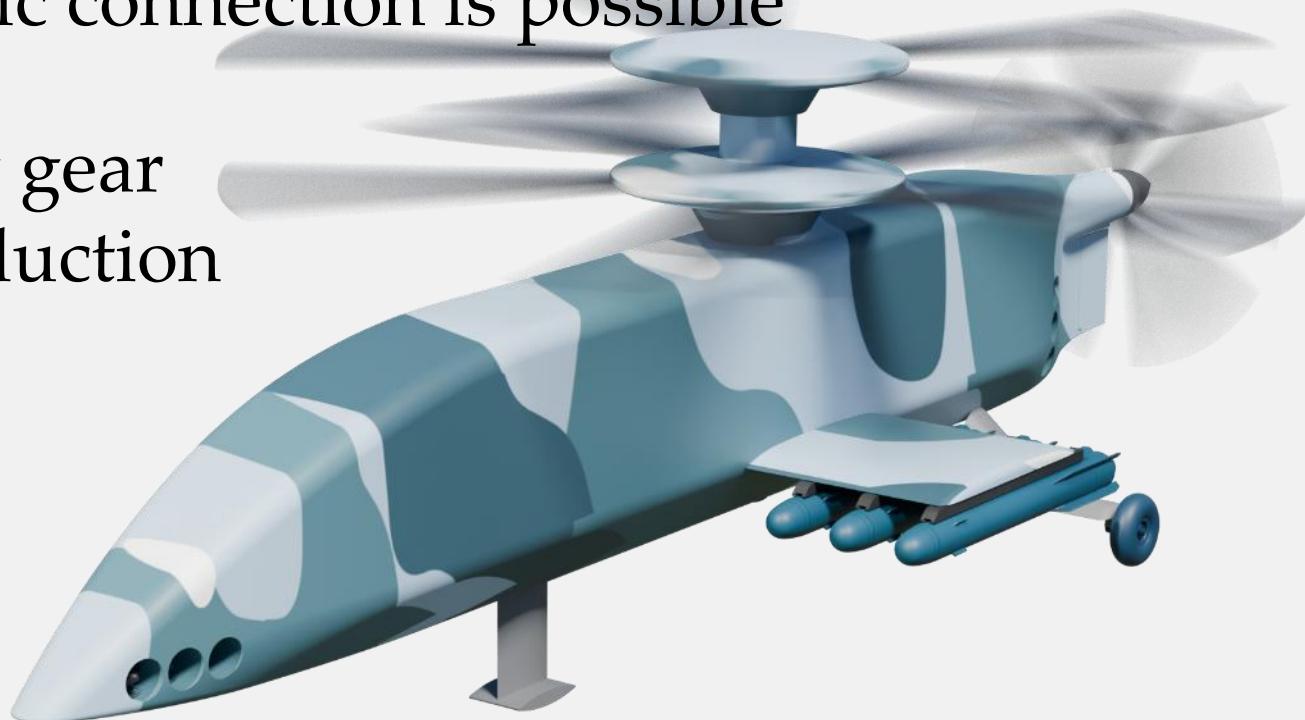
Glas fiber optic connection is possible

Fixed landing gear

Top speed reduction

No Pilot

10 Brimstone

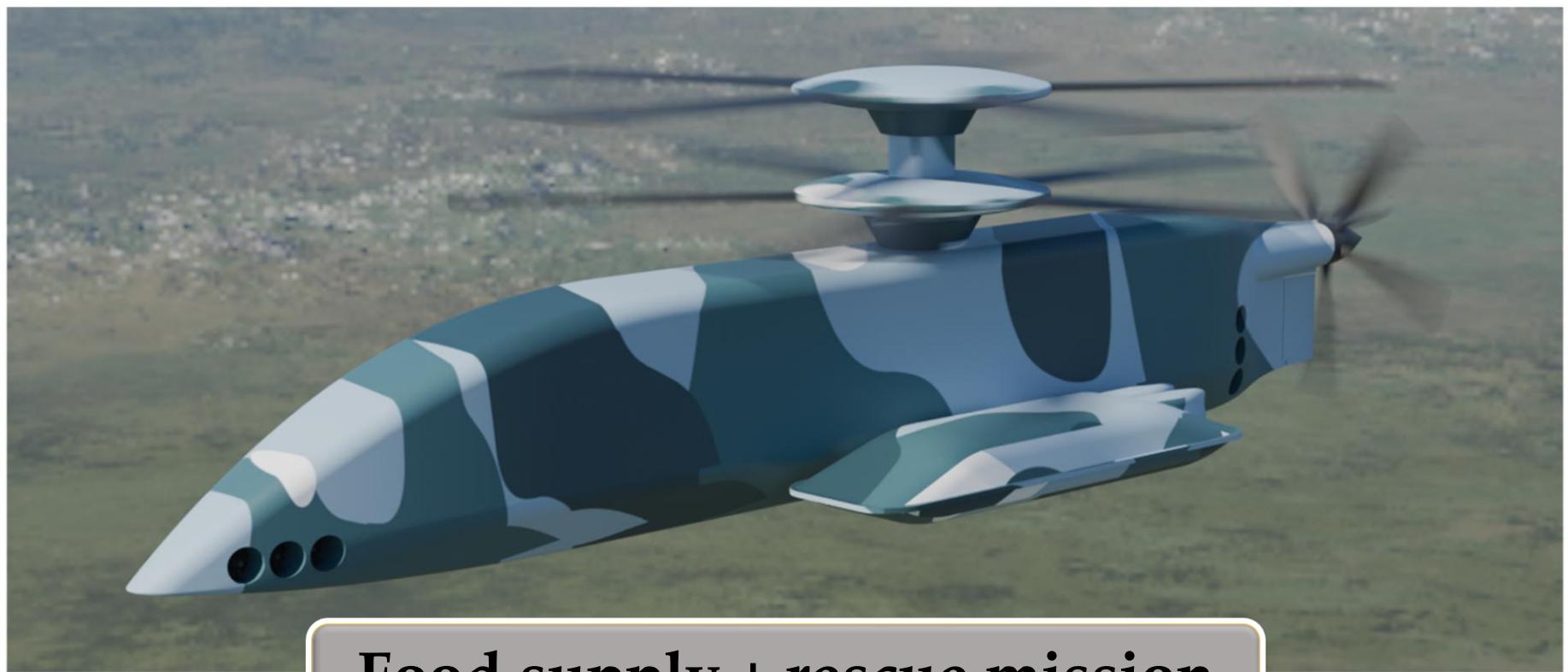


Vanisher D-R



Rescue drone:

→ 300 kg of food in
← 2 injured soldiers out



Food supply + rescue mission

Vanisher D-M



Mothership drone:

Space for 12 RPG FPV drones





**Thanks for
your attention.**

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