



BLACK WIDOW

Autonomous Aerospace Mission Infrastructure

Start here — complete investor snapshot on one sheet

[Investor Deck](#) · [One Page](#) · [Mission OS TRL 4](#) · [BW-C45 Manufacturing Active](#)

TRL 4

Readiness

235+

Auto tests

220

Scenarios

Freeze

Program

TODAY Mission OS → NEXT BW-C45 → FUTURE Autonomous Aerospace Mission Infrastructure

VISION

Mission OS validates missions today. BW-C45 validates physical systems. Foundation for future autonomous aerospace operations. Not a drone startup — mission infrastructure company.

WHAT EXISTS TODAY

Mission OS TRL 4 · Program Freeze active · GT-1 complete. Pipeline: Define → Risk → Monte Carlo → Digital Twin → AI Advisory → Human Gate → GO/REVIEW/NO-GO. Simulation & decision-support only · no paying customers.

BW-C45

Physical Validation Platform · manufacturing active. Modular VTOL carrier · EPM Payload Interface research testbed · Digital Twin validated · prototype assembly in progress. Proves execution on real hardware — not the company ceiling.

DISTRIBUTED MISSION ARCHITECTURE

Carrier platform · sub-agents · EPM Payload Interface (modular attachment · V1 research). Recovery R&D lifecycle: Deploy → Operate → Recover → Reuse — not V1 operational. Simulation-first.

MARKET + USE CASES

TAM \$8–15B by 2030 (mission ops + validation software). Defense startups · drone OEMs · research labs · grant programs · future space pre-mission validation.

FUNDING + PARTNERSHIPS

Pre-Seed €250K–500K — Physical Validation Program · prototype validation. Grants: BRAVE1 · Horizon Europe · ESA BIC · Seeds of Bravery. Strategic: Mission OS validation · future pilot programs.

CONTACT

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* Layers 2–4 (MDS, VBN) and space domains = research roadmap, not current products.