

EXECUTIVE SUMMARY · NATO DIANA CHALLENGE 2027

Multi-tier, AI-powered air defence

A layered counter-UAS and force-protection ecosystem — from loitering munitions to hypersonic threats. Built in Europe, sovereign by design, human-in-the-loop by doctrine.

THE THREAT

European airspace is contested. Loitering munitions, cruise missiles, and increasingly hypersonic vehicles outpace legacy air-defence economics. Defenders cannot sustain \$4M intercept costs against \$20K attack drones. +Shield reverses the cost equation.

FOUR PILLARS

- **Cost asymmetry** — SwarmWall intercepts at a fraction of conventional missile-defence cost.
- **Human-in-the-loop** — every engagement authorised by a human operator via +ROP biometric authentication.
- **Sovereign by design** — five-layer +Grid stack (LoRa FHSS, UWB, SDR, satellite, acoustic), zero US-dependency.
- **NATO procurement ready** — built to STANAG specifications, EU-manufactured.

CAPABILITY TIERS

TIER	THREAT	INDICATIVE COST	STATUS
T1 · +Shield Basic	Loitering munitions, small UAS	EUR 45K	Concept
T2 · +Eiffel full stack	UAS swarms, layered air defence	EUR 80K	Concept
T3 · +Ballistic	Cruise missile interception	—	Research
T4 · +Ground	Counter-armoured vehicle	—	Research
T5 · +Hypersonic	Hypersonic intercept	—	Research
+N	Restricted — international legal authorisation	—	Restricted

DOCTRINE

No +Shield system performs autonomous lethal engagement. The human-in-the-loop principle is engineered into the architecture (+ROP), not bolted on. The +N tier is subject to international legal authorisation and is not publicly documented.

STATUS & ROADMAP

2025 Concept → 2026 Research & development → 2027 NATO DIANA Challenge → 2027+ spin-off to PLUS DEFENCE s.r.o.

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