

Newsletter January 2026

INSIDE ZEN'S INNOVATION PLAYBOOK

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Innovation – our key driver!

'India climbs to 38th position in the Global Innovation Index a jump from the 66th position just six years back', thus announced the Economic Survey released by the Govt last month end. Zen received this news with a sense of 'bhagidari' since we consider ourselves as a part of this national achievement; contributing to it in our own small way.

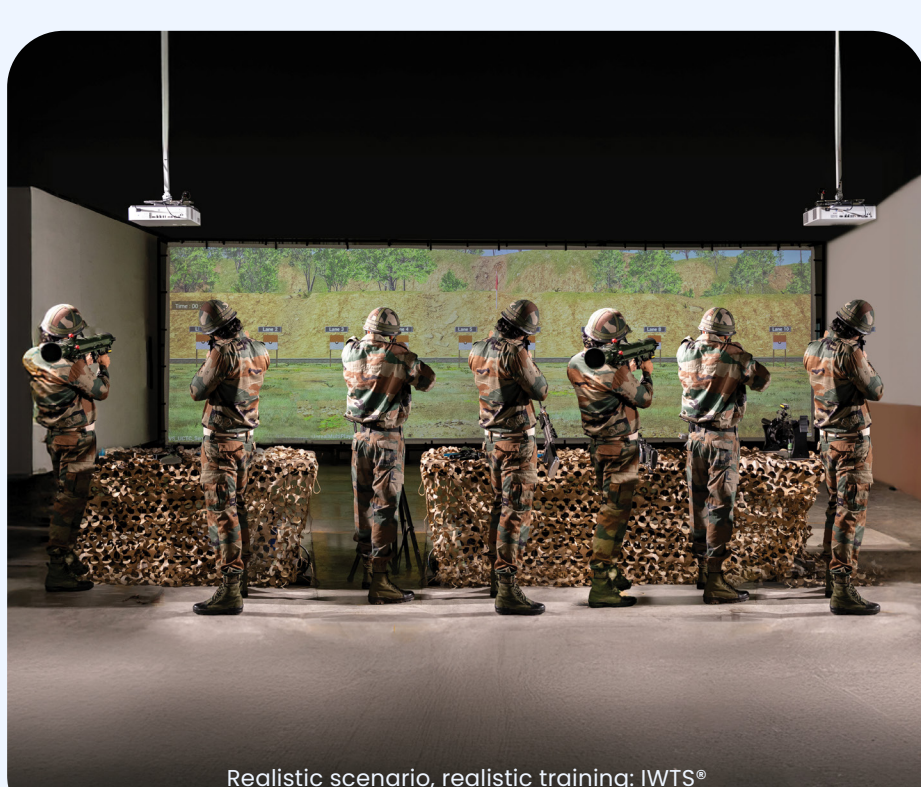
At Zen, **innovation and upgrade of our product line is a way of life**. Driven by this passion, we constantly endeavour to make it 'one-bit better'. The feeling of 'bhagidari' thus finds its relevance.

This Newsletter gives a glimpse of some of the recent innovations in our product line.

Making them capable of

'Ek Goli Ek Dushman'

Infantry Weapon Training Simulator (IWTS®) started out as a basic small arms simulator. It facilitated marksmanship training through expert handling of all direct-fire Infantry Platoon weapons. The system took the trainee through basic marksman training regime graduating to honing his responses in engaging opportunity targets through hundreds of tactical scenarios.



Over time we added **more and more tactical and security scenarios** that reflected current realities, **refined the algorithms for calculation of the Combat Readiness Score** and added the **feature of 'return fire'**. In this if the trainee, while engaging the target has exposed himself to the enemy – the system will record a return fire from the target and will score it negatively.

Powered by AI, we added the **'adaptive learning feature'** in most of our products. Based on this, the system guided by the individual's skills assessed over numerous parameters, will select the most optimal training schedule for each trainee –something like a group of 30 students being trained by 30 instructors!



Live and Virtual all together

Our **Containerised Tubular Shooting Range (CTSR)** started out as a secured firing range which allowed the trainees in live firing using a variety of small arms. The DNA of the system remained a combat training solution that allowed live fire.

Overtime, CTSR went through a major upgrade, in that; **an option to fire on virtual targets was incorporated**. This permitted multi-range fire experience with realistic environmental effects The AI driven algorithms kicked in providing for an immersive firing experience...all with 'Zero' expenditure of live ammunition.

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Enhanced Combat Readiness for our Tankmen

Talking of Tankmen, our basic Tank Driving Simulator (**Tank DS**) provides a realistic driving experience for armoured combat vehicle drivers while the Tank Crew Gunnery Simulator (**Tank CGS**) was dedicated to the training of Tank Commander and Gunners.

Tank DS and Tank CGS are separate containerized solutions. **An innovative solution binds them together**. It is called Zen FIST (Zen Futuristic Integrated Solution for Training). It digitally integrates the Tank DS and Tank CGS to behave as if it was a single tank. Besides this, virtual tanks can be digitally added to portray a tactical scenario for tank troop training.

Another flagship product for the training of mechanized forces is the **Armour Combat Training System (ACTS™)**. It serves to provide mechanised commanders the wherewithal to conduct force-on-force training using their in-service equipment over the actual terrain of operations. Grouped with the **Tactical Engagement Simulator (TacSim®)**, the **ACTS™ cater for all arms**, weapons and equipment and can simulate a battlefield for integrated forces over areas as vast as 40 km to 40 km.

Zen has innovatively included all modern threats as and when they appear or, in some cases, as and when they are imagined. To quote an example, **Zen's Situational Awareness Module for the Manoeuvre Range (SAMMER)**, has built on the capabilities of ACTS™ and TacSim® and included multiple emerging threats and technologies such as drones and Battlefield Management Systems (BMS).

[Know more](#)

Doing Things Differently

Innovation embraces all that we produce. When we designed our ZADS (Zen Anti Drone System), we chose to be different. While most of the conventional ADS were configured on the commercial bands for drones (2.4 GHZ and 5.8 GHZ) **we went well beyond** these bands firm in our belief that the adversary will not confine to commercial frequencies. The result was there for all to see. **Our ZADS in service of our armed forces during Op Sindoor could detect and neutralise most of the adversary's drones**.

One bit better- that was our desire for ZADS. Our AI-powered Hawkeye Multi-sensor Optical Platform Camera addressed it. This camera will push up the drone detection range of ZADS from the current 6-8 km to 15km. That will be industry-first.

In the years ahead, more innovative products will make their entry in the field of maritime domain and in the aviation field as well; that is our commitment.

Like we said – innovation is the Key!

Zen in News



In this podcast with The Print, while Brig Adil, VP Projects at Zen, showcases our product range the **CMD reflects on the Zen's journey** besides covering several issues of importance.

He recounts, how starting out in 1993 as small arms simulator Company **Zen today has reached the is No.1 position globally** in combat training solutions and is among the top in anti-drone systems. Further he explains how the wide-band ZADS proved its mettle in Op Sindoor and which are the emerging markets for Zen worldwide.

Further the CMD states out how the **IDDM Companies are national strategic assets which must be nurtured and protected by the Govt** to become Global champions. He opines that the **Govt must identify the Pareto technologies of the future and utilise the RDI fund judiciously to support long-term R&D by selected IP players in such technologies**. That is the route to make them become No1 in a matter of 5 years. Talking about the new Procurement Manual likely to be issued shortly, CMD said that the manual must simplify procedures and cut nagging delays in the procurement chain.

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