

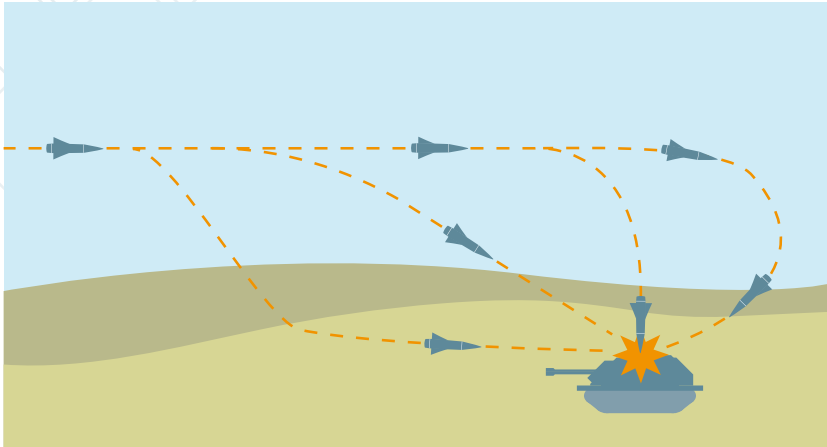
TAP

Top Attack Projectile Dynamic guidance algorithms for agile munition



www.isl.eu

TAP (Top Attack Projectile) offers **dynamic attack path** routing to **exploit vulnerabilities in modern armour**.



Adaptable impact-angle and attack trajectory

The armour of battle tanks has seen many improvements in recent decades, particularly with the widespread use of reactive armour, which provides good protection against direct frontal and lateral attacks. However, the top surfaces of battle tanks, such as **the turret top, represent an area of vulnerability**. The TAP **guidance logic enables ultra-precise top attack trajectories**.



Projectile before vertical impact

Intensive simulation and flight campaigns at ISL have proven the precision of the flight control and guidance, achieving **sub-metre accuracy**. The guidance law enables complex non-ballistic trajectories, adaptable to any sort of sub-sonic (drones, anti-tank missiles) or supersonic (guided projectiles) platform.

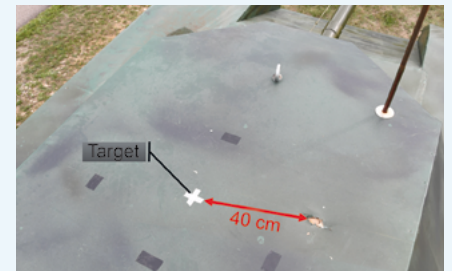


Application

- Anti-tank weapon

Performance

- Adaptable impact-angle and attack trajectory from horizontal, vertical, to inverse
- Sub-metre accuracy



Perspectives

- Future work at ISL will focus on **AI-based target detection and tracking** in the visible and/or thermal infrared spectrum.
- Additional features will incorporate hitting a target at a specific time, to enable swarming capabilities.



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