



## SMART System

Source: [PIB](#)

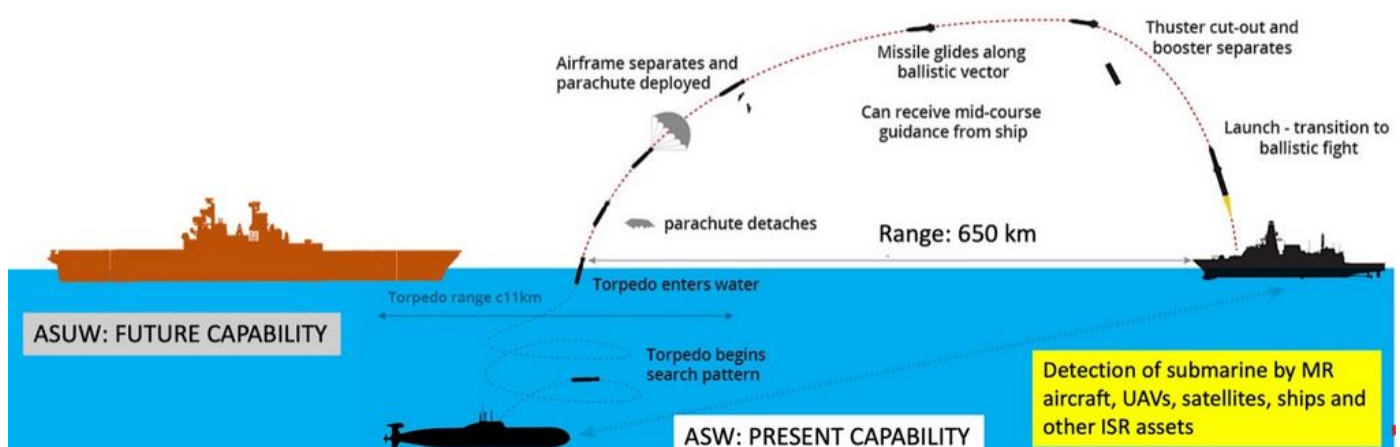
Recently, the [Defence Research and Development Organisation \(DRDO\)](#) successfully conducted a flight test of the [Supersonic Missile-Assisted Release of Torpedo \(SMART\) system](#) from **Dr APJ Abdul Kalam Island** off the coast of Odisha.

### ▪ SMART System:

- It represents a next-generation missile-based **lightweight torpedo delivery system**.
- Its primary aim is to significantly augment the anti-submarine warfare capabilities of the **Indian Navy** extending beyond the conventional range of lightweight torpedoes.
  - The missile is launched from a **ground mobile launcher**.
- This canister-based missile system incorporates various advanced sub-systems,
- It includes a two-stage solid propulsion system **electromechanical actuator system** and **precision inertial navigation system**.
- When it approaches close enough to the submerged submarine, the missile will **eject the torpedo system into the water** and the autonomous torpedo will start moving towards its target to take out the submarine.
- A **torpedo** is an underwater weapon with a **cigar-shaped design**, propelled by its power.
  - It can be launched from various platforms such as submarines, surface vessels, or aeroplanes.
- **Varunastra** stands as the inaugural indigenous heavyweight ship-launched anti-submarine electric torpedo.

//

### Supersonic Missile Assisted Release of Torpedo (SMART) CONOPS



Read more: [Supersonic Missile Assisted Torpedo](#)

PDF Refernece URL: <https://www.drishtias.com/printpdf/smart-system-1>

