

## **Golden Dome Missile Defense System**

**Source: DD** 

The US has finalized the design of the Golden Dome missile defense system.

## **Golden Dome Missile Defense System**

- About: It is an advanced multilayered missile defense system with space-based sensors and interceptors to protect the US from foreign missile attacks.
  - It is designed to counter hypersonic, ballistic, cruise missiles, and drones globally through satellite-based sensors.
  - It is inspired by Israel's <u>Iron Dome</u> and former US President Reagan's <u>1983 Strategic</u> <u>Defense Initiative</u> (Star Wars Programme).
  - It will integrate components from existing US missile defense systems, including Patriot batteries, THAAD, Aegis BMD, and Ground-based Midcourse Defense (GMD).
- Functioning: Using a network of hundreds of satellites, it targets missiles in the boost phase, immediately after launch, intercepting them before or shortly after they enter space.

## **Global Missile Defence Systems**

System	Range (km)	Features
Iron Dome (Israel)	70	Intercepts rockets and drones
		targeting populated
		areas; radar-based detection
S-400 Triumph (Russia)	400	Multi-missile system; engages
		stealth aircraft, cruise missiles,
		and multiple targets
Barak-8 (Israel/India)	70-100	Land and naval system; <b>360°</b>
		protection against aircraft,
		missiles, and UAVs
HQ-9 (China)	125	Inspired by S-300;
		intercepts <b>UAVs</b> , aircraft, ballistic
		and cruise missiles



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