

Russia's S-500 missile defence system

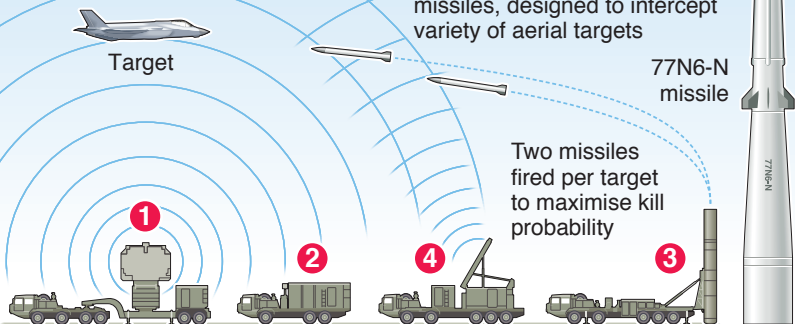
The S-500 "Prometheus" is Russia's latest generation of air defence systems, designed to intercept intercontinental ballistic missiles and capable of engaging enemy aircraft and cruise missiles

HOW MISSILE SYSTEM WORKS

S-500 will integrate under single command with existing **S-300**, **S-350** and **S-400** systems

S-500 MISSILES (10 types)

- ▶ **77N6-N** and **77N6-N1** anti-ballistic missiles (ABM)
- ▶ Extended-range **40N6M** plus seven existing S-400 missiles, designed to intercept variety of aerial targets



1 Long-range radar: Tracks objects and relays data to command vehicle, which assesses potential targets

2 Command vehicle: Identifies target and orders missile launch

3 Launcher: Best placed vehicle receives launch data. Missiles released

4 Engagement radar: Helps guide missiles towards target

SPECIFICATIONS: S-500 Prometey (Prometheus)

■ **Intercept range:** Up to 600km (200km more than S-400)

■ **Maximum intercept altitude:** Higher than 185km

■ **Detection range:** Up to 800km (up to 2,000km for ABM)

■ **System response time:** 3-4 seconds

■ **Number of simultaneously engaged targets:** Up to 10

■ **Maximum target speed:** 7km per second

Launcher: 10x10 all-terrain vehicle

Max. speed: **70km/h**
Launch tubes: **2**

