

# NATO to deploy Patriot missiles to protect Turkey

NATO is to deploy advanced Patriot PAC-3 missiles to Turkey's border with war-torn Syria. Patriot batteries, which can be used to intercept missiles or planes, were previously deployed to Turkey during the invasion of Iraq in 2003

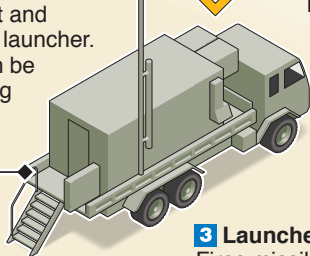
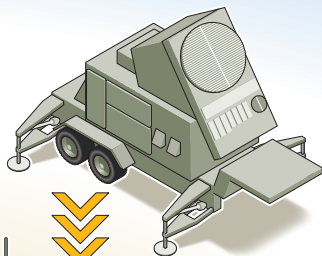
## 1 Detection

Multifunction phased array radar searches sky for aircraft or missile threats. Range up to 100km, can track up to 100 targets simultaneously

## 2 Engagement control station (ECS)

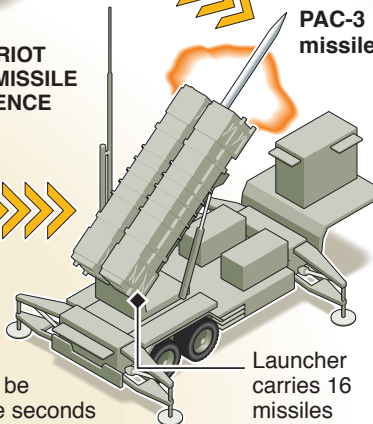
Weapons control computer determines intercept point and relays data to launcher. Trajectory can be updated during missile flight

ECS truck manned by three crew but system is capable of working autonomously



## 3 Launcher

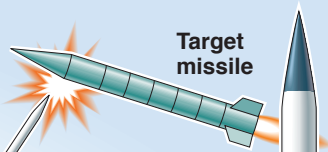
Fires missile towards intercept point. Missiles can be ready to fire in nine seconds



## 4 Flight

Missile tracked by radar and guided with help from control station and its own homing sensors

PAC-3 missile



Target missile

## 5 Terminal phase

Ka-band seeker locks on target, activates flight controls and primes warhead. Target destroyed by kinetic energy released in head-on collision

## PAC-3 specifications

Length 5.2m

Diameter 40cm

Warhead 73kg

Speed Mach 5

Range 70km

Altitude 24km

In service 2002

