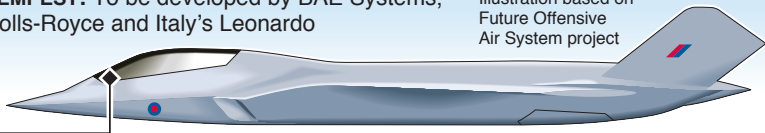


UK unveils “Tempest” fighter jet model

A model of the UK’s planned new fighter aircraft, the Tempest, has been unveiled at the Farnborough Air Show. The sixth generation jet will eventually replace the Eurofighter Typhoon and could be flying by 2035

TEMPEST: To be developed by BAE Systems, Rolls-Royce and Italy’s Leonardo

Illustration based on Future Offensive Air System project



Crew: Jet able to be flown by pilots or as unmanned drone

Next-gen systems: Could include “swarm” technology that uses artificial intelligence to hit targets, and laser weapons

JET FIGHTER GENERATIONS

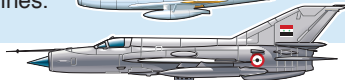
1st Generation (1940s-1950s): Powered by turbojet instead of earlier piston-engines.

Examples: *Me 262*, *F-86 Sabre*, *MiG-15*



2nd Generation (1950s-1960s):

Supersonic speed, onboard radar, first guided air-to-air missiles. Examples: *MiG-21*, *F-104 Starfighter*



3rd Generation (1960s-1970s):

Multi-role aircraft, improved avionics, first precision munitions.

Examples: *F-4 Phantom II*, *MiG-25*, *Mirage F1*



4th Generation (1970s-1990s):

Fly-by-wire controls, enhanced radar, weapons and manoeuvrability. First low-observable (stealth) aircraft.

Examples: *F-16*, *MiG-29*, *Mirage 2000*, *Tornado*, *F-117 Nighthawk*



4.5 Generation (1990s onwards): More advanced avionics, limited stealth features.

Examples: *Typhoon*, *Rafale*, *Su-35*, *F/A-18 Super Hornet*



5th Generation (2000+): Integrated avionics and sensors, all-aspect stealth, network-enabled.

Examples: *F-22*, *F-35*, *Su-57*, *J-20*



6th Generation (2030s): Possible directed-energy weapons, hypersonic speed, ability to switch between manned and unmanned versions