

# F-35 Lightning II

Lethal. Survivable. Connected.



## The Most Advanced Fighter Jet in the World

The F-35 strengthens national security, enhances global partnerships and powers economic growth. It is the most lethal, survivable and connected fighter aircraft in the world, giving pilots an advantage against any adversary and enabling them to execute their mission and come home safe.

The F-35 family includes three variants — all single-seat jets. The F-35A conventional takeoff and landing variant, the F-35B short takeoff/vertical landing variant, and the F-35C carrier variant.

All three variants have similar performance characteristics and the exact same advanced avionics. The variation between models allows military forces to achieve service-specific mission capability, while still taking advantage of the economies of scale that result from the parts and processes that are common to all three variants.



### F-35A

Designed to operate from conventional runways and is the most common variant. The United States Air Force and the majority of F-35 international allied customers operate the F-35A.



### F-35B

Can land vertically like a helicopter and take-off in very short distances. This allows it to operate from austere, short-field bases and a range of air-capable ships. The F-35B is operated by the United States Marine Corps, the United Kingdom, and the Italian Air Force.



### F-35C

The Navy's first stealth fighter and the world's only 5th Generation, long-range stealth strike fighter designed and built explicitly for aircraft carrier operations. The F-35C is operated by the US Navy and US Marine Corps.

## The Global F-35 Enterprise

The F-35 is developed, produced, and supported by an international team of government allies and aerospace industry leaders. The F-35 Program is managed by the Pentagon's F-35 Joint Program Office, the U.S. Air Force, the U.S. Marine Corps and the U.S. Navy are all procuring and operating F-35s. The program was founded by eight international partners — the U.S., United Kingdom, Italy, Netherlands, Australia, Norway, Denmark and Canada. Seven Foreign Military Sales customers are also procuring and operating the F-35 — Israel, Japan, South Korea, Belgium Poland, Singapore and Finland.

Lockheed Martin serves as the prime contractor with a global supply chain of more than 1,900 companies based in the United States and in every nation acquiring the F-35.



### Lockheed Martin-Led Supply Network



# Transformational Capability

As adversaries advance and legacy aircraft age, the 5<sup>th</sup> Generation F-35 is critical to maintaining air dominance now and for decades to come. 5<sup>th</sup> Generation capability is defined by the combination of Very Low Observable stealth, advanced sensors, information fusion and network connectivity — all packaged within in a supersonic, long range, highly maneuverable fighter.

With this advanced technology, the F-35 is a multi-role fighter capable of successfully executing any and all mission, including new missions not traditionally fulfilled by legacy fighters. More than a fighter jet, the F-35's ability to collect, analyze and share data, is a powerful force multiplier that enhances all airborne, surface and ground-based assets in the battlespace.

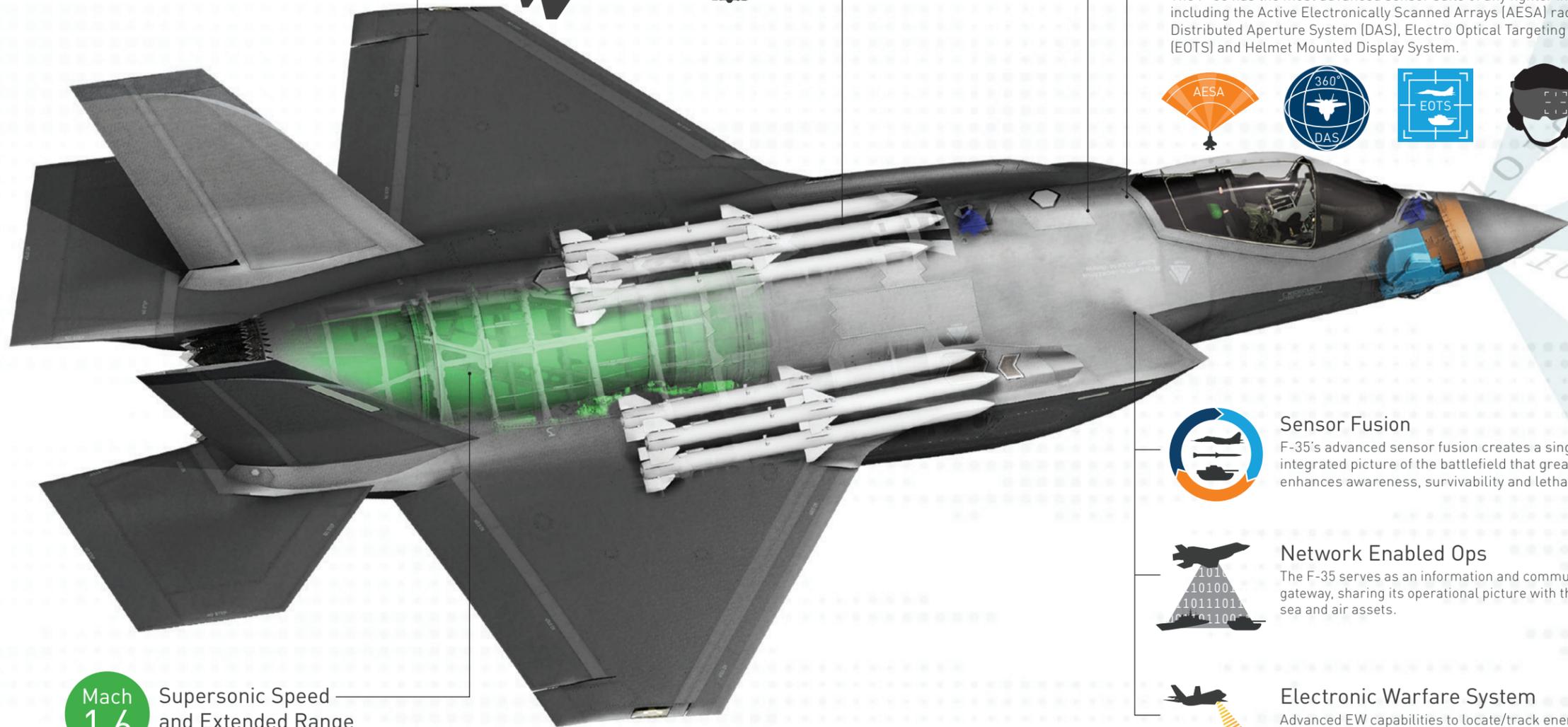
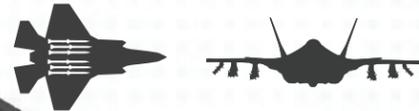


## VLO Stealth

With stealth designed in from day one, the F-35 has an unmatched ability to evade enemy detection and enter contested airspace.

## Weapons Capacity

The F-35 carries weapons internally in stealth configuration, or externally in permissible environments with greater than 18,000 pounds of total ordnance.

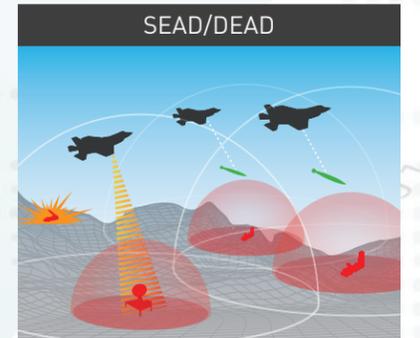
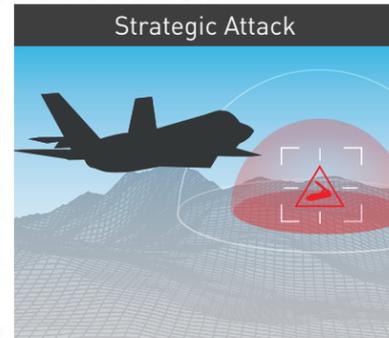


**Mach 1.6**

## Supersonic Speed and Extended Range

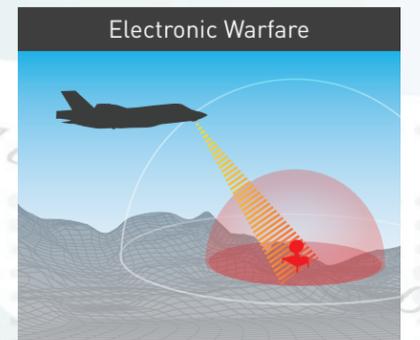
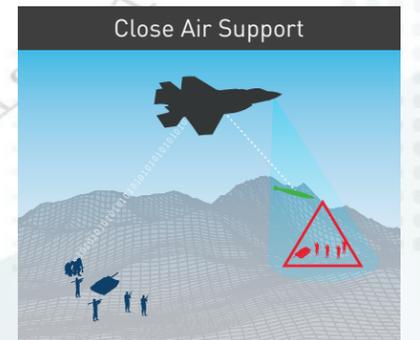
The Pratt & Whitney F135 is the most powerful fighter engine in the world. At Mach 1.6, the F-35 is a long range, supersonic fighter, even with a full compliment of internal weapons and fuel.

## Transforming the Battlespace



## Advanced Sensor Suite

The F-35 has the most advanced sensor suite of any fighter in history, including the Active Electronically Scanned Arrays (AESA) radar, Distributed Aperture System (DAS), Electro Optical Targeting System (EOTS) and Helmet Mounted Display System.



## Sensor Fusion

F-35's advanced sensor fusion creates a single integrated picture of the battlefield that greatly enhances awareness, survivability and lethality.



## Network Enabled Ops

The F-35 serves as an information and communications gateway, sharing its operational picture with the ground, sea and air assets.



## Electronic Warfare System

Advanced EW capabilities to locate/track enemy forces, jam radars and disrupt attacks.



# Sustaining the World's Most Advanced Fighter

The F-35 enterprise partners to ensure the world's most advanced fighter is mission ready and affordable to sustain throughout its lifecycle.

The F-35 Global Sustainment Solution is driven by strong government and industry partnerships in the U.S. and across the globe. This includes pilot and maintainer training; base operations; regional warehouses, repair and upgrade facilities; 24/7 sustainment services; supply chain management and the Autonomic Logistics Information System (ALIS).

Delivering more readiness at less cost, F-35 sustainment will be characterized by high reliability, predictive health monitoring, a high velocity supply chain and condition-based maintenance.

The global enterprise is on track to deliver 80 percent mission capable rates and \$25,000 Cost Per Flying Hour by 2025 — 5<sup>th</sup> generation performance at 4<sup>th</sup> generation cost.

High Reliability



High Velocity Supply Chain



Predictive Health and Advanced Analytics



Effective Engineering Support



Condition-Based Maintenance



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