Proud to Support the IAF Mission Since 1948
Neighborhood Getting More Unstable

Ongoing Conflicts - 2015

Key:
- Dark Red = 10K+ dead in 2015
- Red = 1000+ dead in 2015
- Orange = 100+ dead in 2015
- Yellow = 10+ dead in 2015
While Anti Access/Area Denial Proliferates

Coming Soon to a Theatre Near You?
Only a true 5th Generation aircraft is optimized and has the information dominance across an A2AD/contested battlespace.
F-35: 5th Generation to the Core

Key Features:
- Curved Diverterless Inlets, "Buried" Engine
- Composite Structure
- Radar Absorbing Material (RAM)
- Low-Emission Radar and Avionics
- Embedded Antennas
- Weapons Carried Internally
- Aircraft Shaping and Edge Alignment
- Internal Fuel Tanks
- Fixed Array Radar
- Engine Inlets
- Full Line-of-Sight Blockage
- Aligned Edges
- Embedded Antennas
- Reduced Signature Nozzles
- Internal Stores Carriage

Fundamental 5th Gen Design Features Can Not Be Retrofitted
Long Combat Radius

760nm Combat Radius in Internal Air to Air Configuration
The Value of Stealth

Lessons Learned From Desert Storm

4th Generation

75
2
0%

AIRCRAFT LOST
MISSION SUCCESS

BAGHDAD NUCLEAR RESEARCH FACILITY
DAMAGED LABORATORY BUILDING
DESTROYED LABORATORY BUILDING
DAMAGED REACTOR BUILDING

4th Gen is Expensive, Ineffective and Vulnerable

F-117

10
0
100%

AIRCRAFT LOST
MISSION SUCCESS

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4th Generation—Pilot as Sensor Operator/Correlator

Pilot Manages Sensors and Mentally Correlates Displays
5th Generation—Pilot as Battlespace Commander

Pilot Spends Majority of Time on Tactics
“The F-35 is the most powerful, comprehensive, integrated, sensor suite we have ever developed. You combine that with incredible Electronic Warfare capability in both Electronic Countermeasures and Electronic Counter-Countermeasures, you put it on a multi-discipline airplane that can do multi roles, and you remove the need for mission specific airplanes...when you bring it into the mix you make every one of the platforms better in terms of its performance for the joint force.”

—Gen. Hawk Carlisle, Commander, USAF Air Combat Command
The Value of 5th Gen

A2AD/Contested Environment

4th Generation Assets
- EA/MALD (4)
- Counter Air (4)
- SEAD (4)
- Strike (4)

5th Generation Assets
- Strike (4)
- Support* (0 to 4)

*Support requirements are mission dependent

F-35 Increases Force Efficiency by 100% to 300%

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We will deliver to Israel the F-35 Joint Strike Fighter, our finest, making Israel the only country in the Middle East with a Fifth Generation Aircraft” – US Vice President Joe Biden