



## THE FLYING MACHINES

### COST



**F-16 BLOCK 70:** Large numbers already built make F-16 highly affordable

**GRIPEN NG:** Estimated to be about 25 per cent costlier than F-16

### COMBAT EXPERIENCE



**F-16 BLOCK 70:** Extensively flown in combat, proven worldwide over decades

**GRIPEN NG:** New fighter, not yet combat tested

### DESIGN MATURITY



**F-16 BLOCK 70:** 1970s design, reaching end of design life

**GRIPEN NG:** New aircraft, at early stage of design life

### AERODYNAMIC PERFORMANCE



**F-16 BLOCK 70:** Early model F-16s were superbly agile, but Block 70 fighters, with conformal fuel tanks, are less aerodynamic

**GRIPEN NG:** Highly agile fighter, with new F-414 engine

### COMBAT PERFORMANCE



**F-16 BLOCK 70:** Older cockpit design, less integrated network environment, older one-way data links, older Gallium Arsenide avionics

**GRIPEN NG:** State-of-the-art cockpit, cutting-edge Gallium Nitride (GaN) avionics, superbly networked through two-way data links, fused combat picture reduces pilot workload

### COMBAT AVAILABILITY



**F-16 BLOCK 70:** Fewer sorties, but each one carries heavier weapons package

**GRIPEN NG:** Low turn-around time, low flying cost, generates more sorties per day

### MANUFACTURE



**F-16 BLOCK 70:** Will transfer old F-16 plant from Fort Worth, Texas; but has experience of building 4,500 F-16s, and of transferring production abroad

**GRIPEN NG:** Will set up brand new manufacturing plant in India, but no experience in transferring production

### FLEXIBILITY



**F-16 BLOCK 70:** Cannot operate from highways, requires ground support kit, no scope for aircraft carrier operations

**GRIPEN NG:** Short take-off and landing capability allows mission turnaround even on highways. Can be modified easily into Sea Gripen for aircraft carrier operations

### WEAPONS SUITE



**F-16 BLOCK 70:** Integrated with mainly US weaponry and missiles. Will require source codes for integrating other missiles

**GRIPEN NG:** Integrated with weaponry from multiple countries, including US missiles and Meteor long-range missile

### TECHNOLOGY TRANSFER



**F-16 BLOCK 70:** Will be at discretion of US government, complex US export control laws. Unlikely to transfer AESA radar technology

**GRIPEN NG:** Likely to be easier, not governed by restricting export control regime. Committed to transfer AESA radar technology

### OPERATING COSTS OF FIGHTERS (\$/HOUR)

