



# IFPC Inc 2-1

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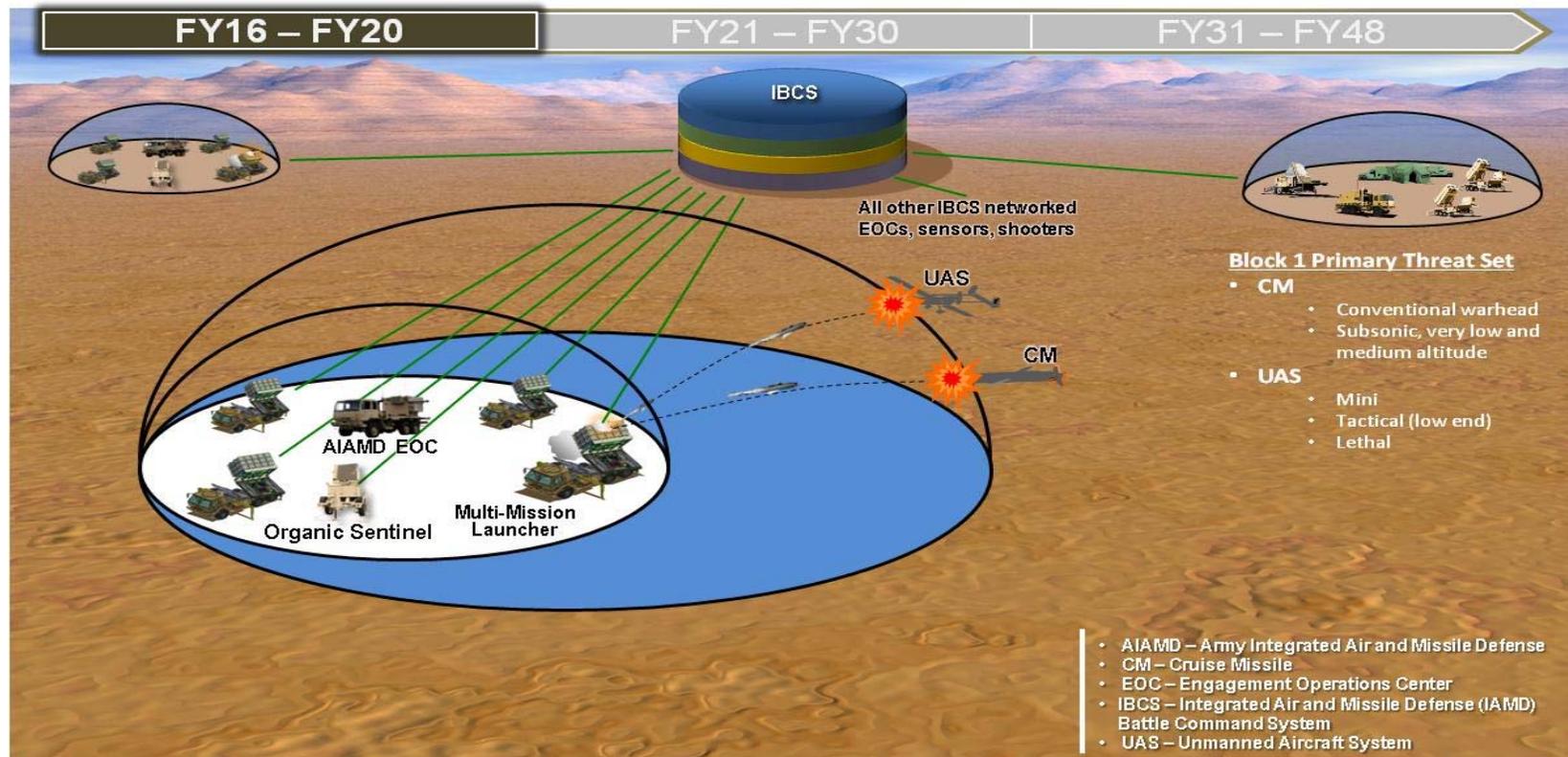
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# IFPC Inc 2-I Mission



## Mission:

Primary Indirect Fire Protection Capability Increment 2 – Intercept (IFPC Inc 2-I) mission is to provide a mobile, robust protection capability to critical assets within fixed and semi-fixed locations against Unmanned Aircraft Systems (UAS), Cruise Missiles (CM), and Rockets, Artillery, and Mortars (RAM).





# IFPC Inc 2-I System Overview



## Characteristics / Description

- The Indirect Fire Protection Capability Increment 2 - Intercept (IFPC Inc 2-I) is a mobile, ground-based weapon system designed to acquire, track, engage, and defeat the threat
- The System provides 360-degree protection against the threat and will simultaneously engage threats arriving from different azimuths
- The IFPC Inc 2-I system is transportable by Army common mobile platforms
- The IFPC Inc 2-I System will be compatible with the Army Integrated Air and Missile Defense (AIAMD) Command and Control (C2) architecture





# IFPC Inc 2-I Block Acquisition Approach



- **Block 1: Point Defense (C-UAS / CMD)**
  - Started 24 March 2014
  - Leverage existing sensor (Sentinel)
  - Leverage existing interceptors (AIM 9 Class)
  - Leverage existing Mission Command (IBCS)
  - Develop a Multi-Mission Launcher (MML)

**Government Owned Interface  
Control Documents  
and Architecture**

- **Block 2: Point Defense (Add C-RAM Capability)**
  - Starts in FY19
  - Leverage S&T / Army Interceptor Investments
  - Leverage Next Generation Tactical Radar (NGTR) development (separate product within CMDS)
  - Leverage existing Mission Command (IBCS)
  - Leverage existing launcher (MML)
- **Block 3: Area Defense (Long Range C-UAS and CMD)**
  - Starts in FY27
  - Leverage S&T (Lower Air Defense, Directed Energy)
  - Modify sensor or compete new sensor

**Separate Acquisition Programs**

- CMD – Cruise Missile Defense
- CMDS – Cruise Missile Defense Systems
- C-UAS – Counter-Unmanned Aircraft Systems
- IBCS – Integrated Air and Missile Defense (IAMD) Battle Command System
- S&T – Science and Technology

**A series of block improvements for the program.  
Risk reduction enhanced by maximum use of existing major end items.**





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# IFPC Inc 2-I

## Block 1 Components



### Existing Sensors



- Demonstrate the ability to receive track data via the network from both PATRIOT and Sentinel
- Modify Sentinel processing software to further support IFPC mission

### Existing Interceptors



- Successfully engage a target during the Engineering Demonstration with the design reference interceptor to verify the kill chain

- Launch two interceptor types from the Multi-Mission Launcher

### Existing Command and Control



- Implement ICDs to act as a participant within the Integrated Air and Missile Defense (IAMD) Battle Command System (IBCS)
- Host the MML engagement and launch calculators within IBCS

### New Multi-Mission Launcher (MML)



- Design the MML with an open architecture to host multiple interceptor types
- Provide a developmental Technical Data Package

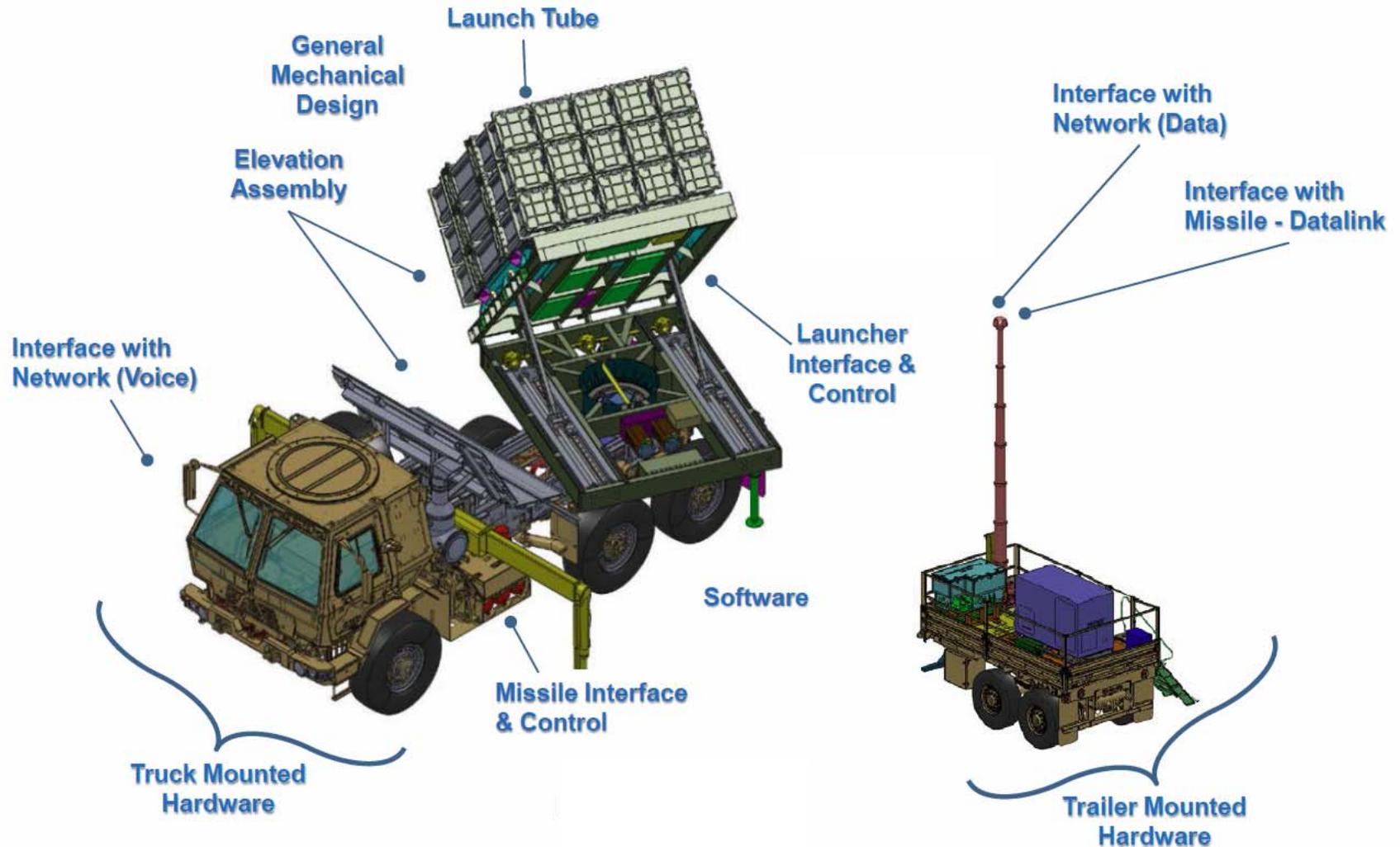
*Verify kill chain and demonstrate open architecture design in an IBCS construct*





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# IFPC Inc 2-I Multi-Mission Launcher





# IFPC Inc 2-I Summary



- ✓ Block 1 Technology Maturation and Risk Reduction phase began 24 Mar 14
- ✓ Block acquisition approach
  - Block 1: Point Defense for Cruise Missiles and Unmanned Aircraft Systems
  - Block 2: Adds Counter-Rocket, Artillery, and Mortar
  - Block 3: Extends from Point to Area Defense
- ✓ Uses Integrated Air and Missile Defense Battle Command System for Mission Command and as the Link to the Joint Architecture
- ✓ Open architecture allows integration of interceptors that meet the Interface Control Document hardware and software requirements to integrate with the launcher and Command and Control subsystems

