



P-8A Poseidon

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P-8A Poseidon

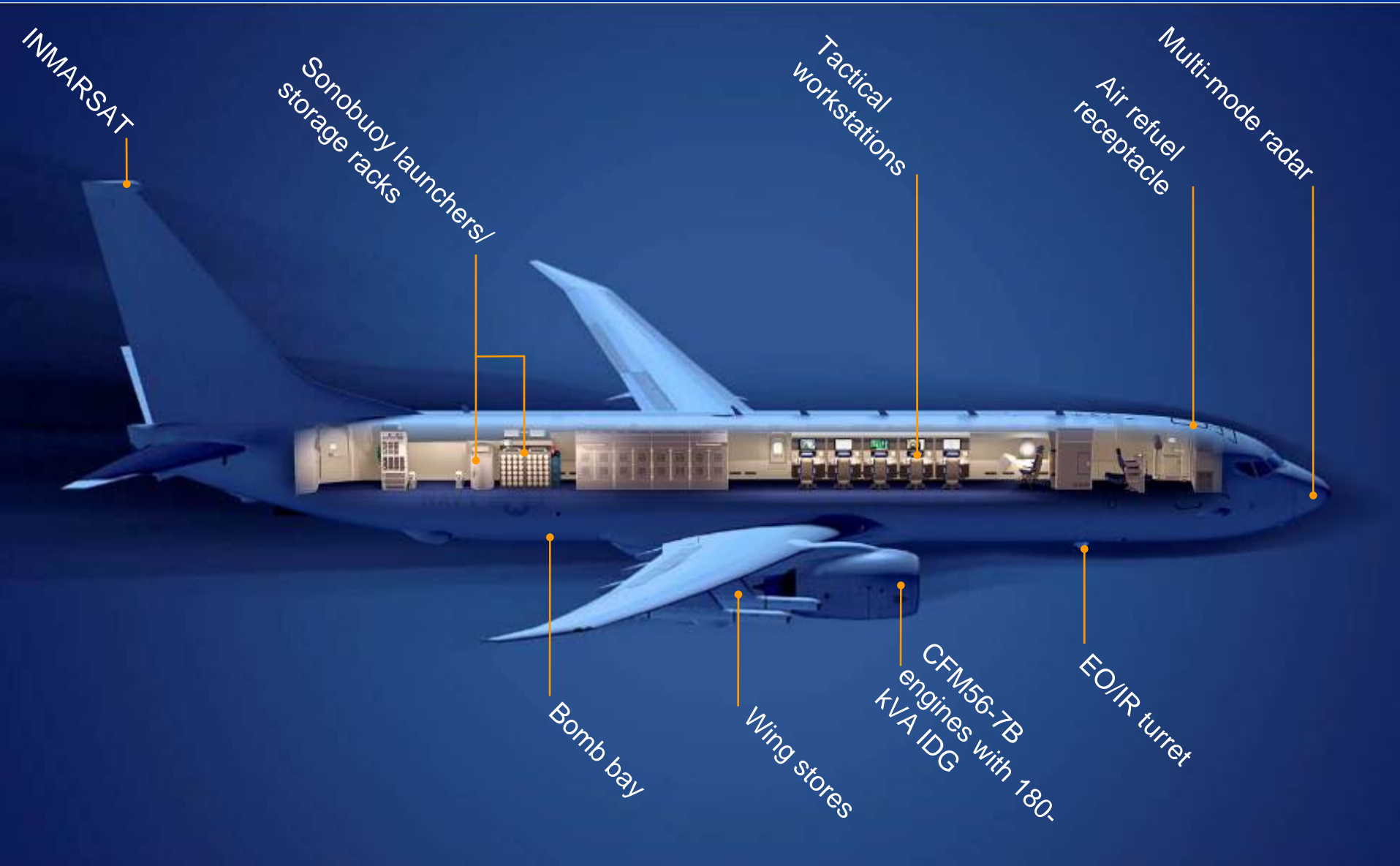
The P-8A Poseidon is the U.S. Navy's long-range, persistent, maritime patrol aircraft that will provide superiority in both the open ocean and littoral environments.



Capabilities

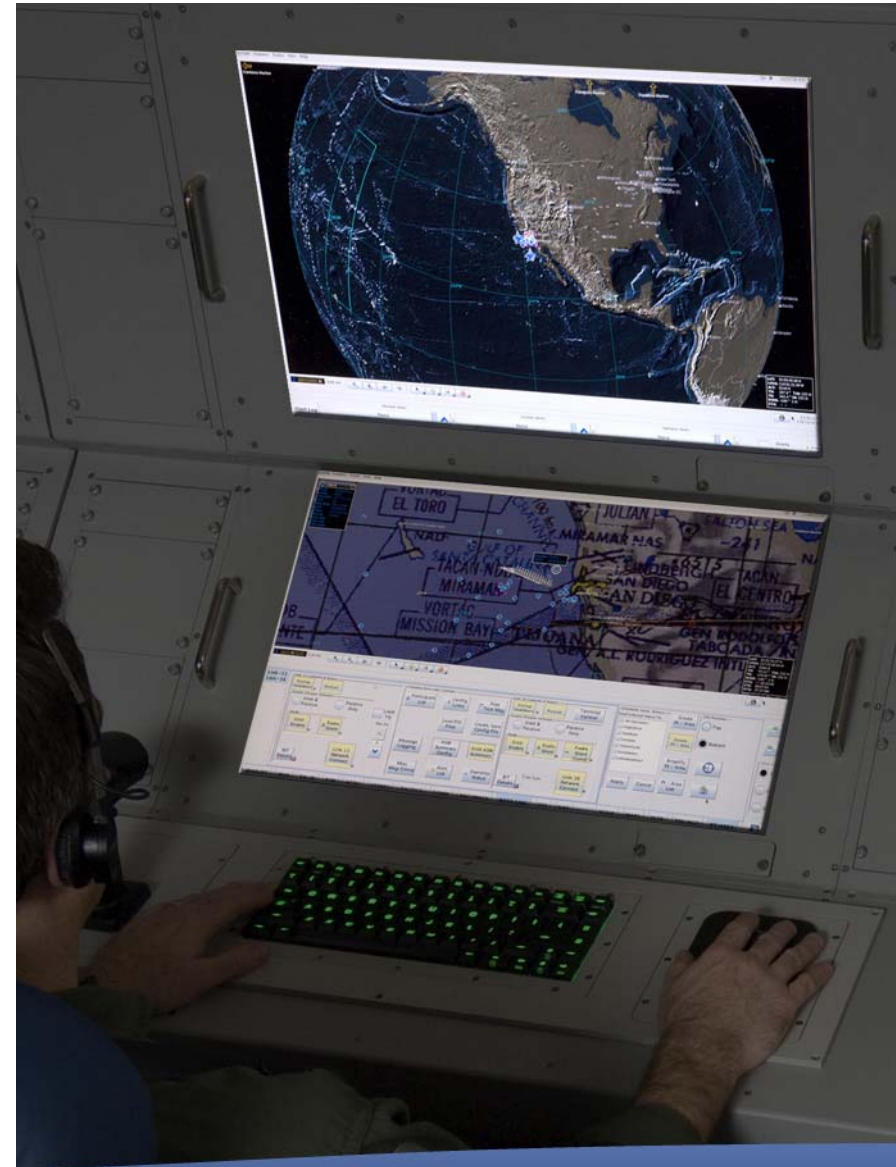
- Next generation anti-submarine warfare (ASW) to counter subsurface threats
- Detect, locate, identify and track targets in the surface, subsurface and littoral battlespace; if required: deny, disrupt or destroy
- Conduct armed Intelligence, Surveillance and Reconnaissance (ISR) in maritime and littoral areas of operation
- Provide command, control and communications (C3) and serve as an interoperable C3 node
- Provide accurate stand-off targeting and strike support for naval, joint and multi-national operations

State of the Art Capabilities



Mission Computing & Display System

- Dual ultra-high-resolution 24-in diagonal screens
- Common tactical situation display available to all operators
- Displays all on-board and off-board track data in one view
- Multiple layers with variable transparency for maps and tactical overlays
- Operator-customized display settings and filters



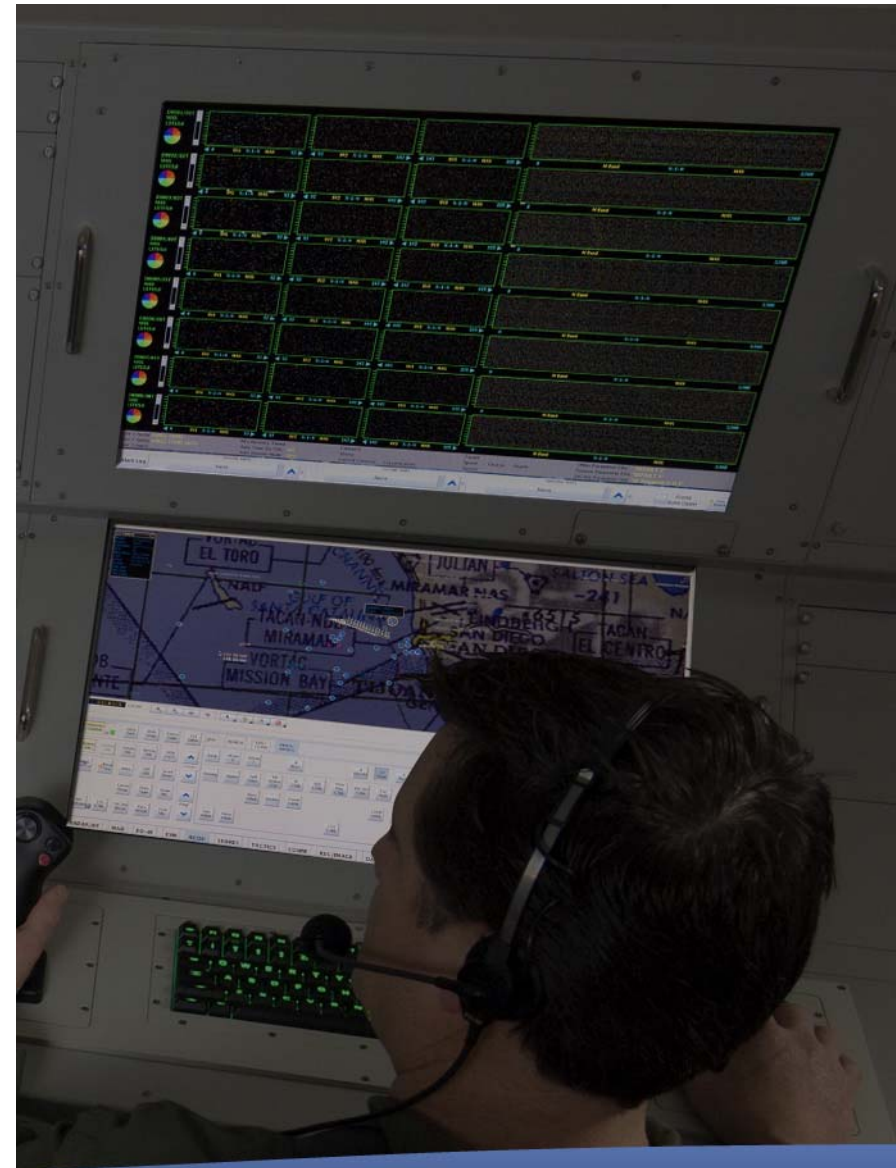
Communications

- **Communication system across the entire spectrum**
- **Robust, proven architecture provides clear and encrypted communication capabilities to all crewmembers**
- **Level 2 interface with UAV baseline requirement for P-8A**
- **Growth for Level 4 UAV control planned for future Incremental upgrade**



Acoustic Capability/Data Display

- **Processes sound energy transmitted up to the aircraft from sonobuoys**
- **Increased processing capacity**
 - 64 passive sonobuoys
 - 32 multi-static sonobuoys
 - Concurrent passive/active processing
- **Auto-detection algorithms**
- **High-resolution color presentation**
- **STANAG-compliant digital recording**
- **Sonobuoy Positioning System**



AN/APY-10 Radar

- **AN/APY-10 developed for the P-8A**
- **Only system of its type to provide ultra-high-resolution imaging modes for maritime and overland operations**
- **Provides superior maritime, littoral, and overland mission capabilities**
 - Inverse synthetic aperture radar (ISAR) mode
 - Navigation mode
 - Synthetic aperture radar mode (SAR)
 - Periscope detection mode
 - Surface search mode
 - Color weather mode
 - Track-while-scan



In-Line Production

Spirit AeroSystems

- P-8 fuselage



Boeing (Renton Factory)

- Wings, empennage, aircraft assembly, engine installations



Boeing (Boeing Field)

- Mission systems installation and checkout



First in industry with in-line production process

Performing to Plan

**Test Aircraft
Conduct Flight Test**

T2



T1



T3



T4



**Production Representative
Airplane Production**

T5



T6



2010

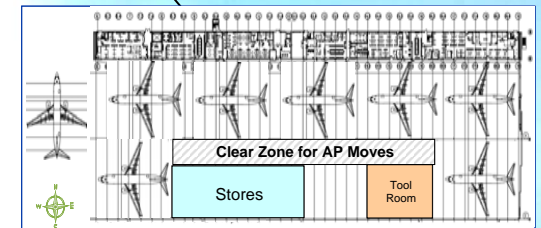
2011



**New Production
Facility Opens**



**Static Testing
Complete**



**LRIP-1
Contract Award**

Flight Test Progress



	T1	T2	T3
Entered Test Program	4Q09	3Q10	3Q10
Significant Accomplishments	<ul style="list-style-type: none">• Clean/stores GVT• Flutter• Envelope expansion• Fuel system verification	<ul style="list-style-type: none">• Acoustic system testing• Comm system testing	<ul style="list-style-type: none">• Radar system testing• Stores release testing

Major Program Events

- June 2004 – **Systems Development and Demonstration contract award**
- December 2004 – **High-speed wind tunnel tests**
- November 2005 – **Preliminary Design Review**
- June 2007 – **Critical Design Review**
- Fourth quarter 2009 – **Flight test start**



- First quarter 2011 – **Static testing complete**
- First quarter 2011 – **LRIP-1 contract award**
- 2012 – **IOT&E**
- 2013 – **Initial Operational Capability**
- 2015 – **Increment 2 fleet introduction**



P-8 Australia



- **Australia signed MOU with U.S. Navy to collaborate in Increment 2**
- **Joint Program Office established at NAS Pax River**
- **Currently in discussions for follow on development and product support**

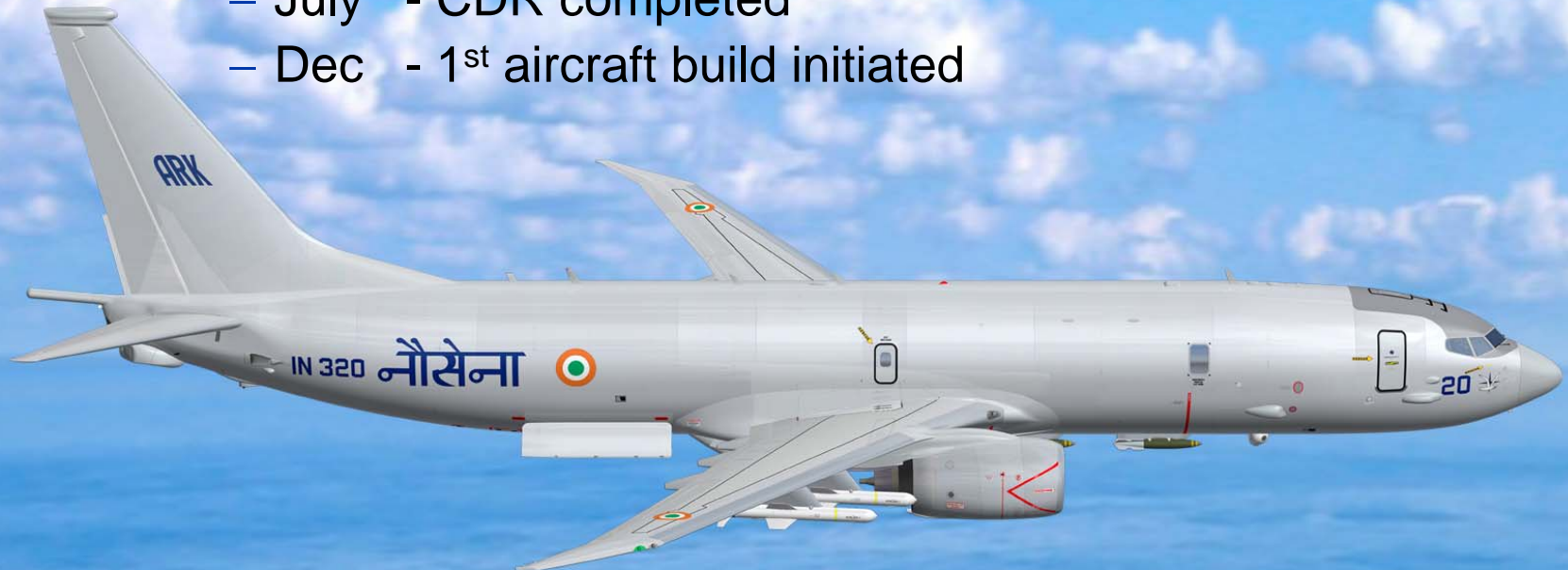




P-8I



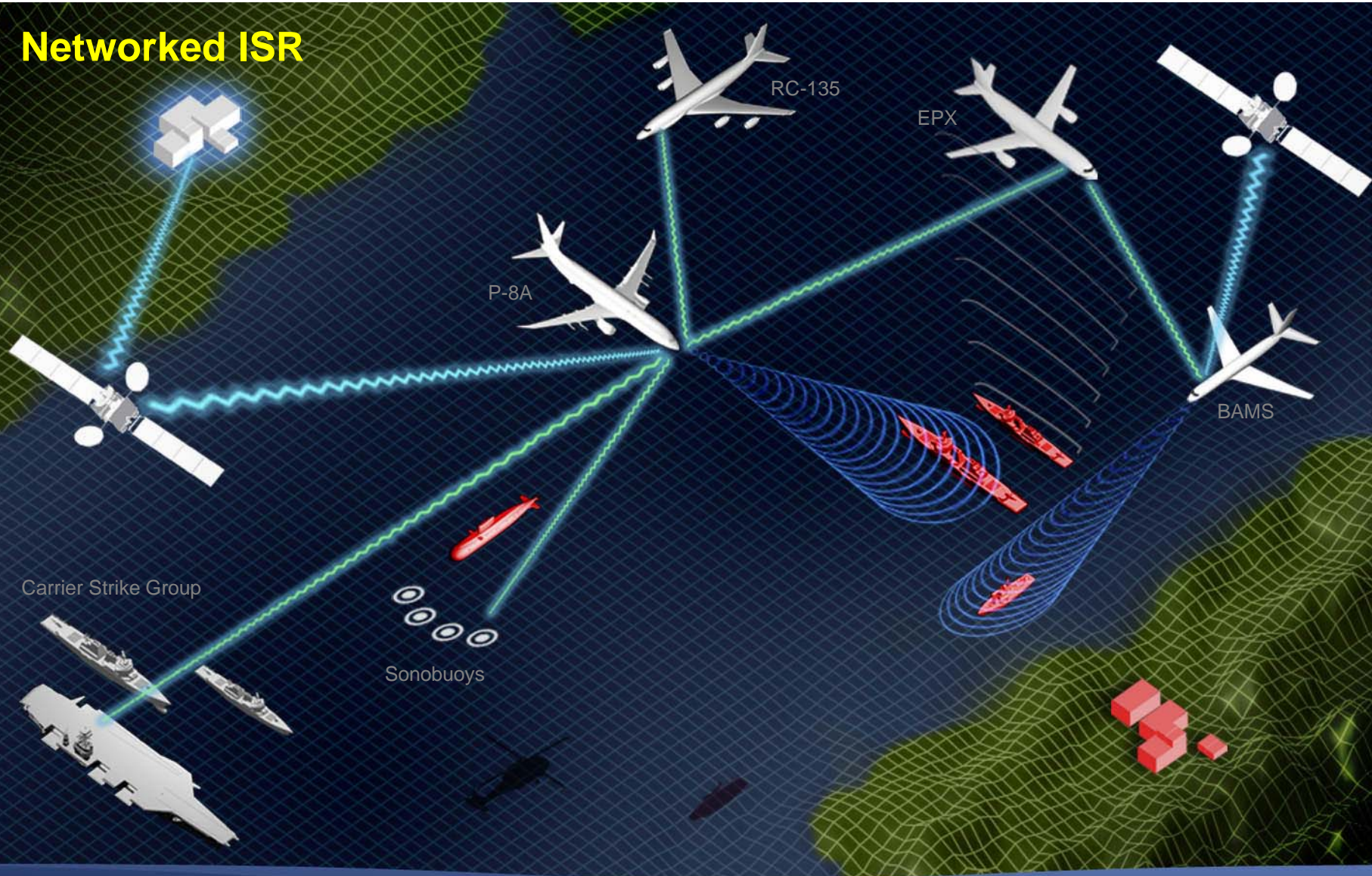
- Boeing to provide 8 P-8I aircraft to Indian Navy
- Contract includes provisions for additional 4 aircraft
- Significant accomplishments in 2010
 - Feb - Provisioning conference
 - July - CDR completed
 - Dec - 1st aircraft build initiated





Networked for Today and Tomorrow

Networked ISR



Future Growth

P-8A

2019

P-8 Increment 3



2015

P-8 Increment 2



2013
P-8A



The Team



Raytheon

NORTHROP GRUMMAN



BAE SYSTEMS

