

The Boeing logo, featuring the word "BOEING" in a stylized, italicized font with a circular emblem to the left.

AUSTRALIAN
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AIRSHOW 2009



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P-8A Poseidon

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P-8 Program

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U.S. Navy Team Lead
P-8A Poseidon Program

March 11, 2009

What is the P-8A Poseidon?

- **Replacement for the P-3 Orion**
- **U.S. Navy's newest maritime patrol aircraft**
- **Military derivative of the highly reliable Next-Generation 737-800**
- **World's most advanced long-range maritime patrol and reconnaissance aircraft**



P-8A

Sized for Performance and Growth



Wing Span 123.6 ft (37.64 m)

Height 42.1 ft (12.83 m)

Length 129.5 ft (39.47 m)

Propulsion Two CFM56-7B engines
27,300 lbs thrust each

Speed 490 kn (564 mi/h)

Range 1,200 nmi with
4 hr on station

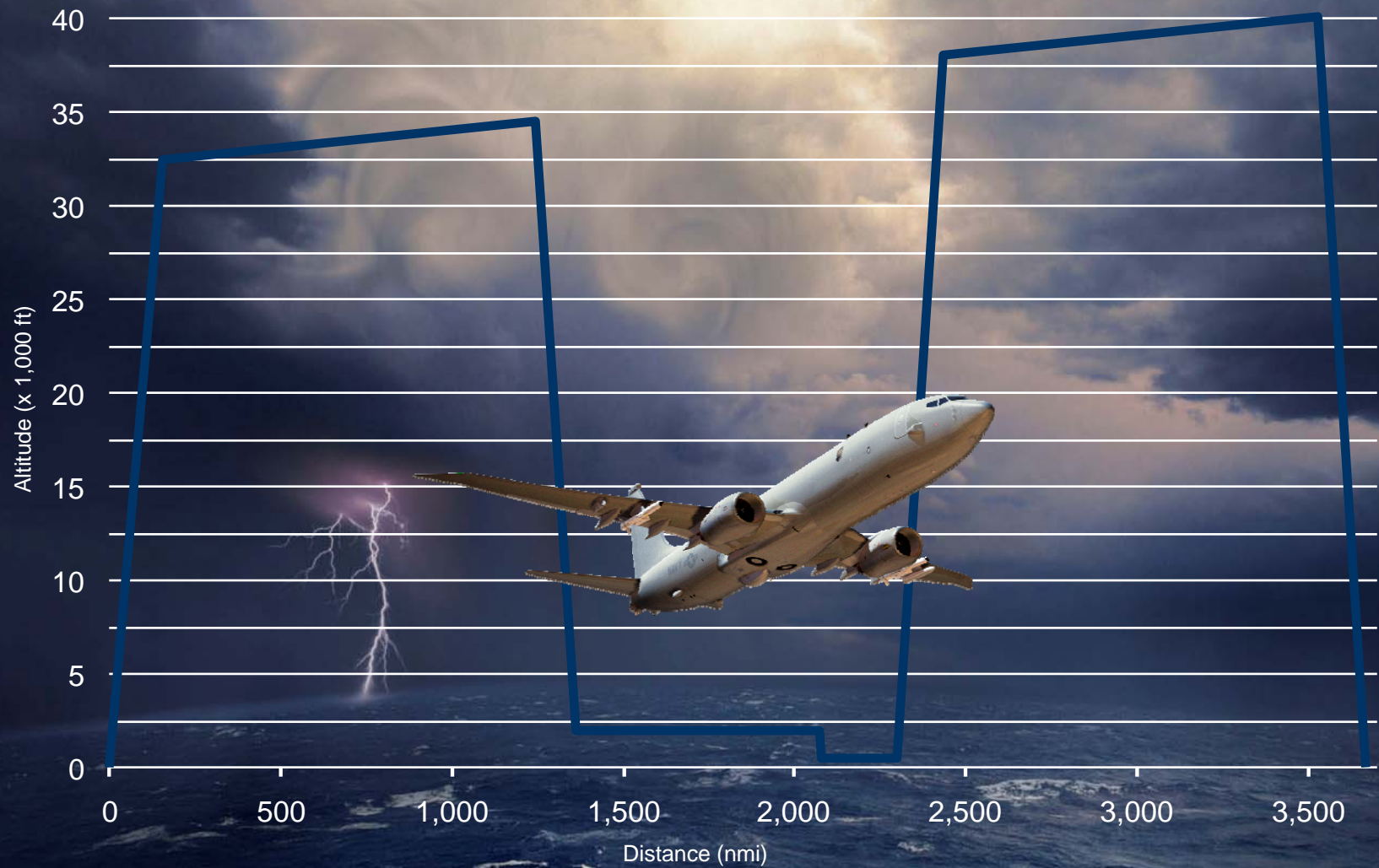
Ceiling 41,000 ft (12,496 m)

Crew 9

Maximum Takeoff 187,700 lb

Gross Weight (85,139 kg)

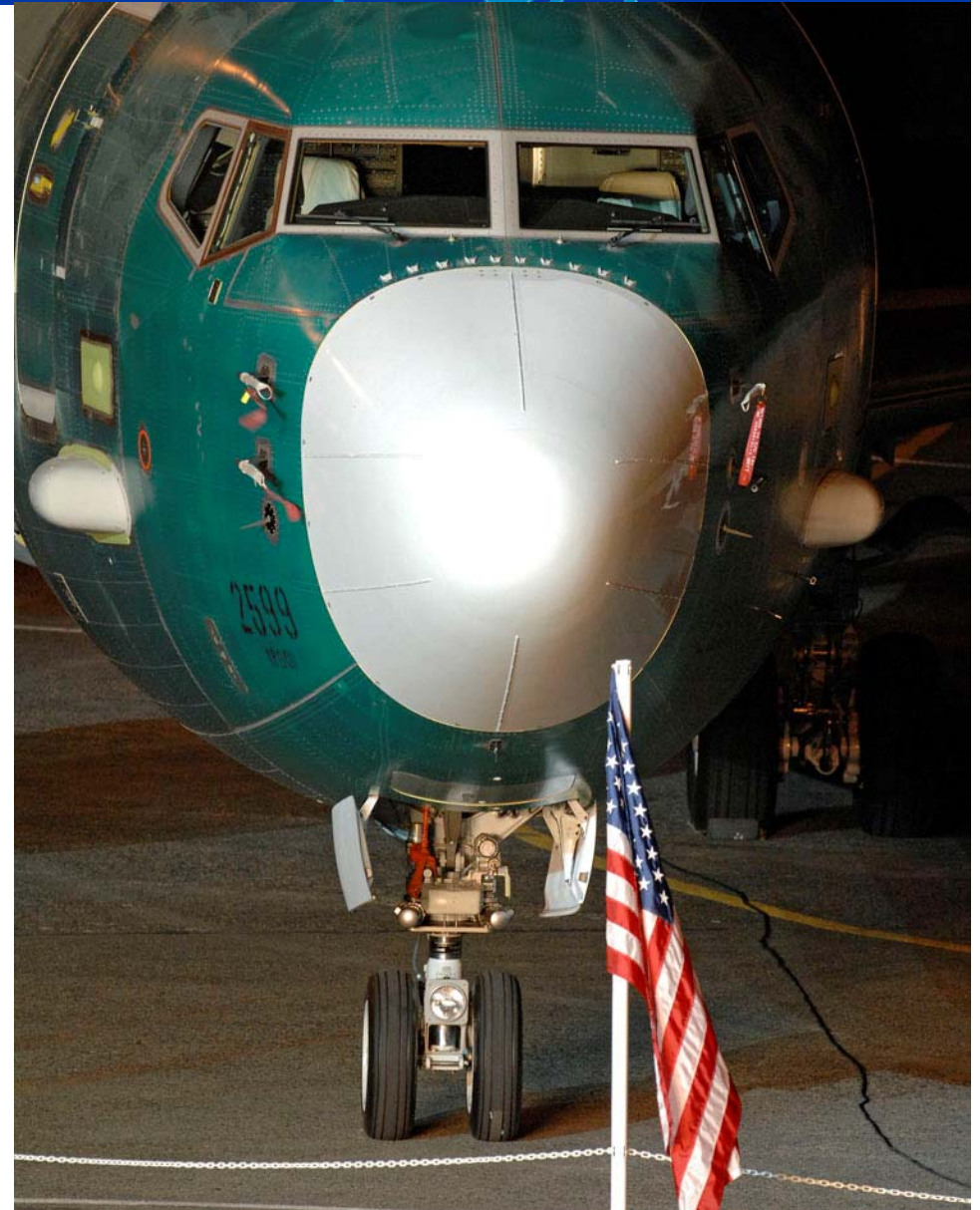
ASW Mission Profile



P-8A

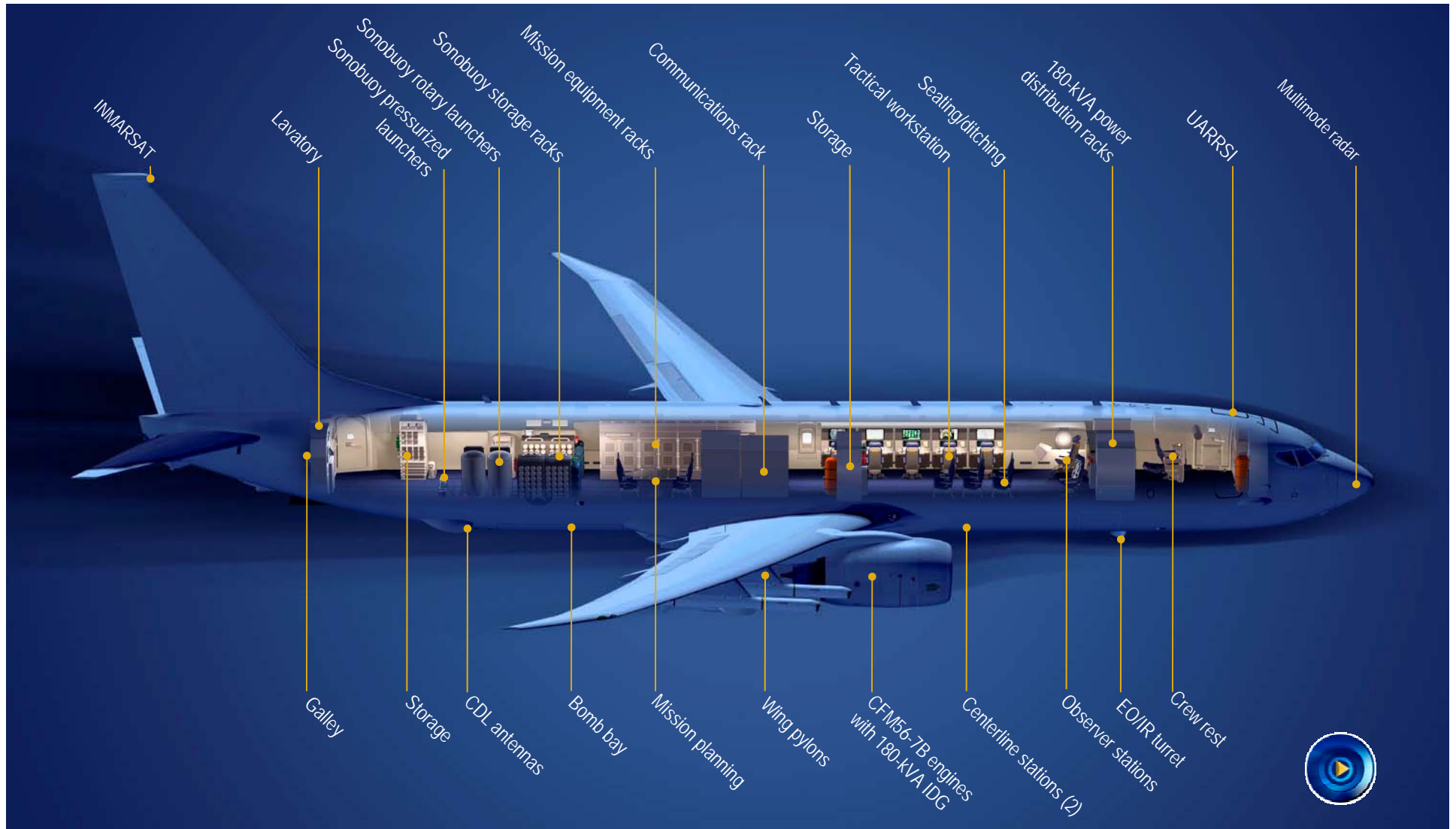
Program Statistics

- **Program includes five test aircraft**
 - T-1, T-2, T-3, S-1, and S-2
- **Flight test aircraft**
 - T-1, T-2, and T-3
- **Static and fatigue test assets**
 - S-1 and S-2
- **Three production representative test aircraft**
 - T-4, T-5, and T-6
- **Navy plans to purchase 108 production aircraft**



P-8A

Proven, Reliable Airframe



Mission Systems

P-8A



P-8A

Advanced Hardware and Software Solutions

- **Robust proven open architecture**
- **State-of-the-art mission computing and display subsystem**
- **Increased acoustic capability**
- **AN/APY-10 radar developed for the P-8A**
 - Only system of its type to provide ultra-high-resolution imaging modes for maritime and overland operations
- **Electronic Support Measures**
- **Early Warning Self-Protection System**



P-8A

Weapon Systems Integration Lab



Major Program Events

- June 2004 – **Systems Development and Demonstration contract award**
- December 2004 – **High-speed wind tunnel tests**
- February 2005 – **Integrated Baseline Review**
- November 2005 – **Preliminary Design Review**
- June 2007 – **Critical Design Review**
- December 2007 – **T1 assembly begins**
- April 2008 – **S1 assembly begins**
- July 2008 – **T1 factory complete**
- December 2008 – **S1 factory complete**
- January 2009 – **T2 assembly begins**
- Fourth quarter 2009 – **Flight Test begins**
- Third quarter 2013 – **Initial Operational Capability**
- 2015 – **Increment 2 Fleet Introduction**



P-8A

The Team That Delivers

NAV  AIR™

NORTHROP GRUMMAN



Raytheon



P-8A

The P-8 In-line Manufacturing Process

Spirit AeroSystems

Wichita, Kansas

- P-8A fuselage

Boeing

Renton, Washington

- P-8A wings
- Empennage
- Aircraft assembly
- Engine installations

Seattle, Washington

- Mission systems/I&CO



Manufacturing Efficiencies

- **Benefits of an established commercial production line**
- **Assembly**
- **Robust manpower/training certification program**
- **Industrial Agility**



P-8A

Testing Begins



P-8A

Progress Continues



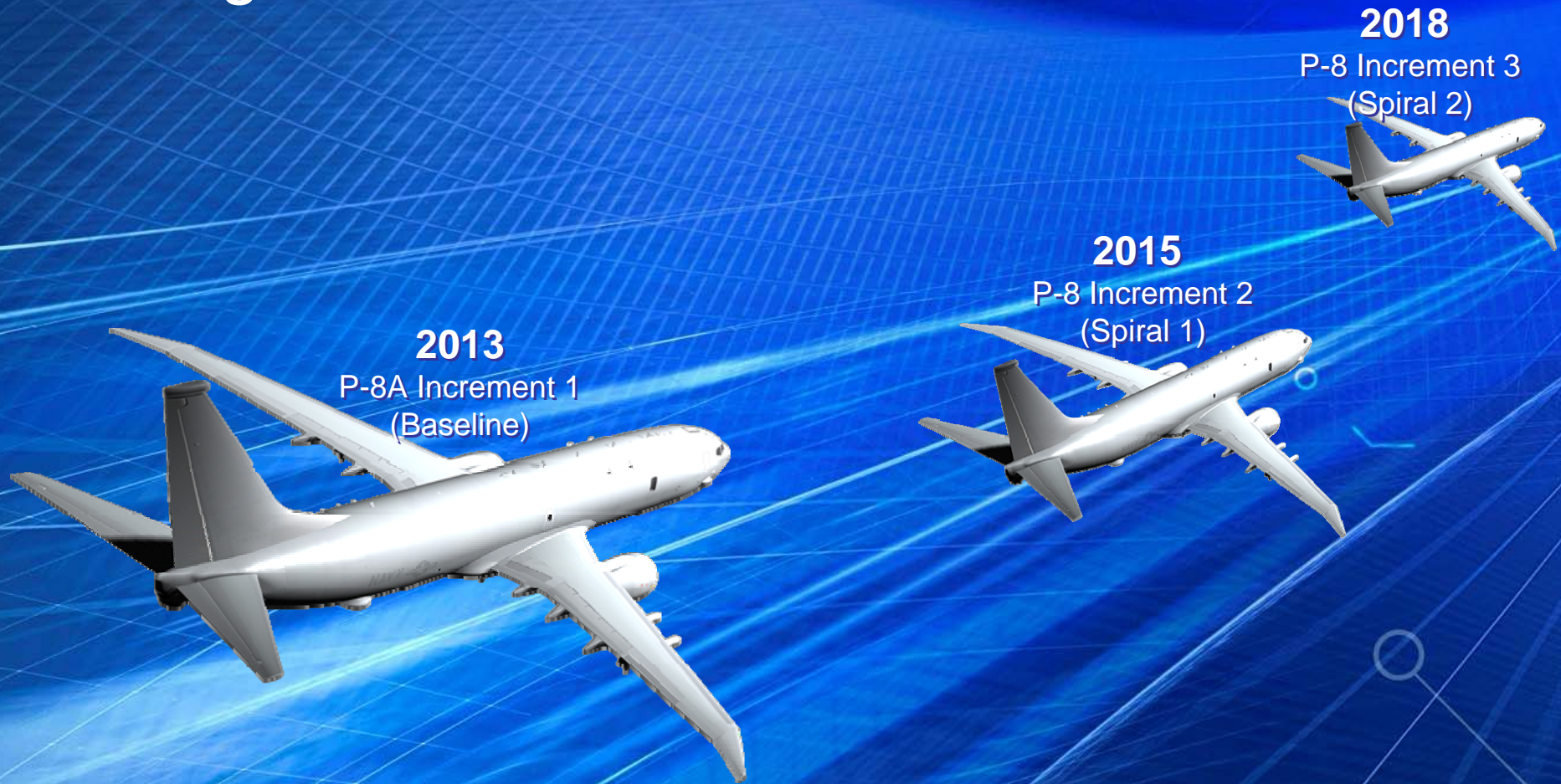
Roadmap for the Future

P-8A



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Designed for Future Growth

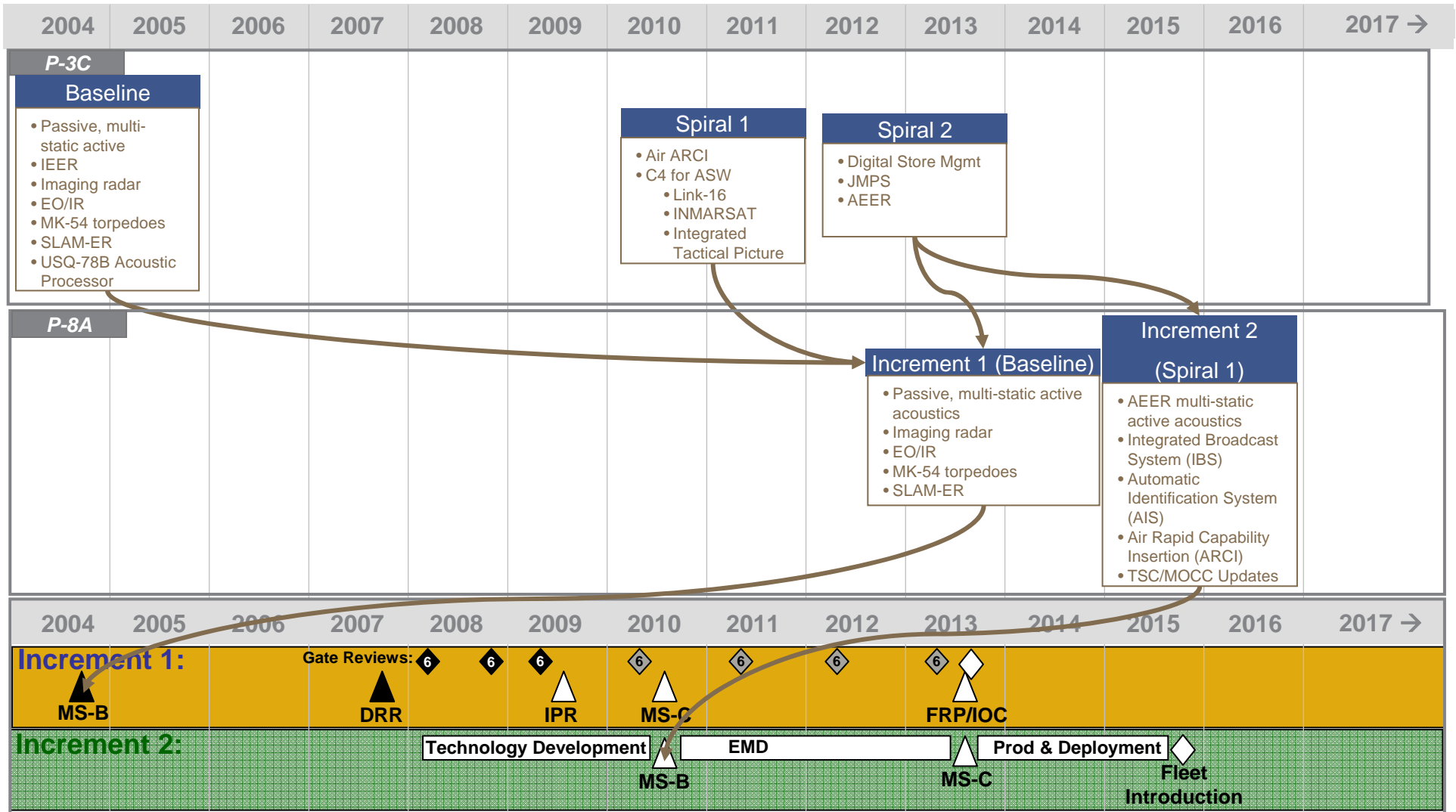


2013
P-8A Increment 1
(Baseline)

2015
P-8 Increment 2
(Spiral 1)

2018
P-8 Increment 3
(Spiral 2)

Capability Roadmap



Long-Range Maritime Patrol Market



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P-8A

Proven, Reliable Airframe Video

