

Current and Future Air Defense Equipment and Systems in Koku-Jieitai



Koku—Jieitai

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Air Staff Office

Head, Logistics Planning Division



BIOGRAPHY

- ◆ **Koichi NISHITANI, Colonel**
- ◆ **Educ. National Defense Academy (Aeronautical Engineering)**
- ◆ **Assignments**

1987-1991	3rd Air Wing (Misawa)
1991-1994	National Defense Academy (Yokosuka)
1994-1997	6th Air Wing (Komatsu)
1997-1999	Defense Plans & Operations Dept., Air Staff Office
1999-2000	Command & Staff Course
2000-2003	83rd Air Wing (Naha); Joint Forces Staff College (USA)
2003-2006	Defense Planning & Policy Dept., ASO
2006-2007	Visiting Fellow, CISAC, Stanford University (USA)
2007-2009	Logistics Planning Div., Air Staff Office; Stimson Ctr. (USA)
2009-2011	M&S Group Commander, 1st Tactical Airlift Wing (Komaki)
2011-2012	General Affairs Dept., ASO
2012-Present	Achieve Grand Slam of Logistics Planning Div.!



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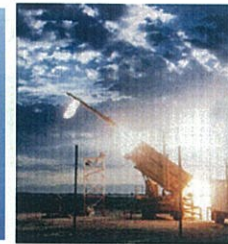
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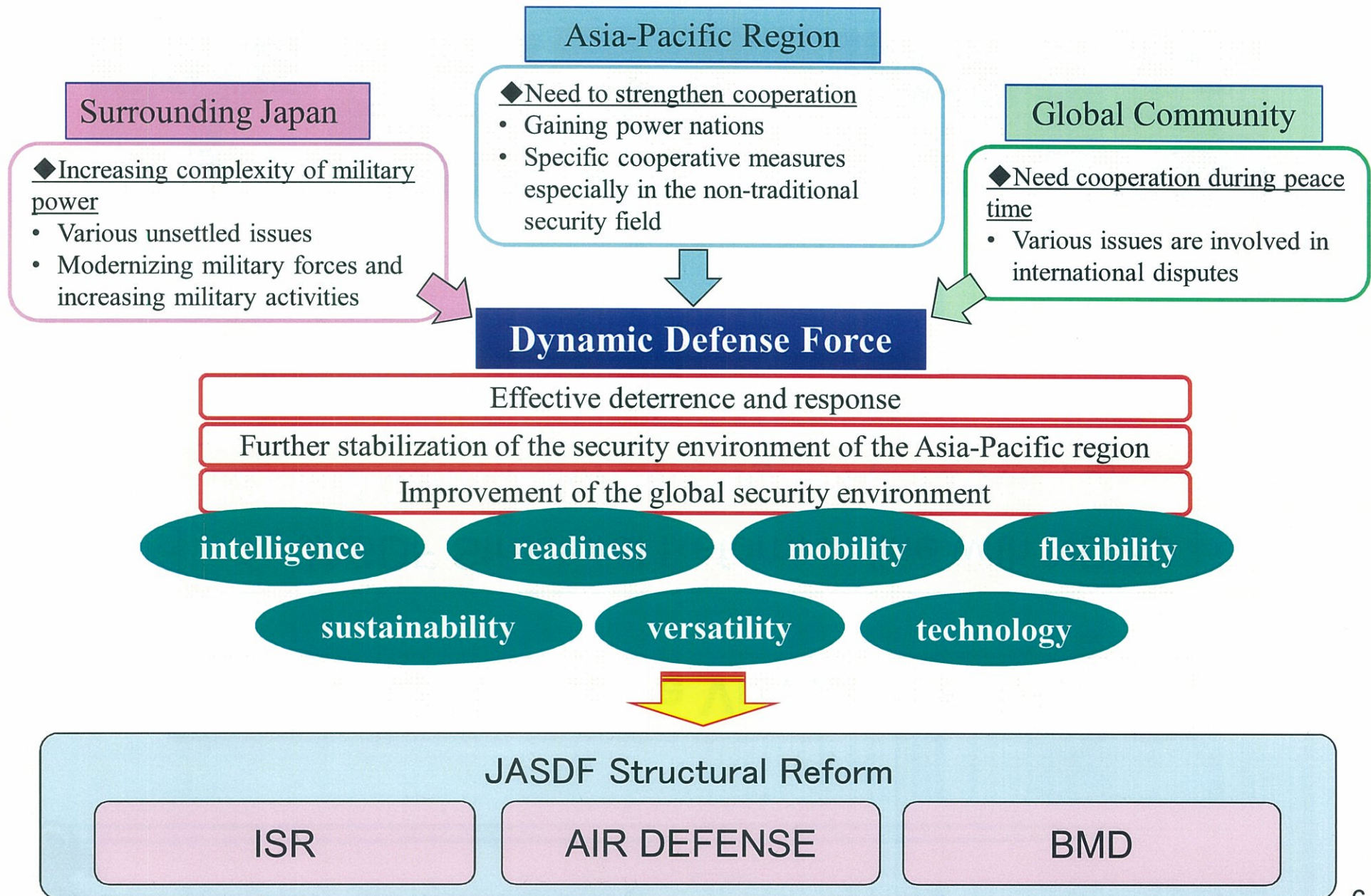
JASDF Future Vision in NDPG

- 1 JASDF Structural Reform in line with NDPG
- 2 Mid-Term Defense Program (FY2011-15)



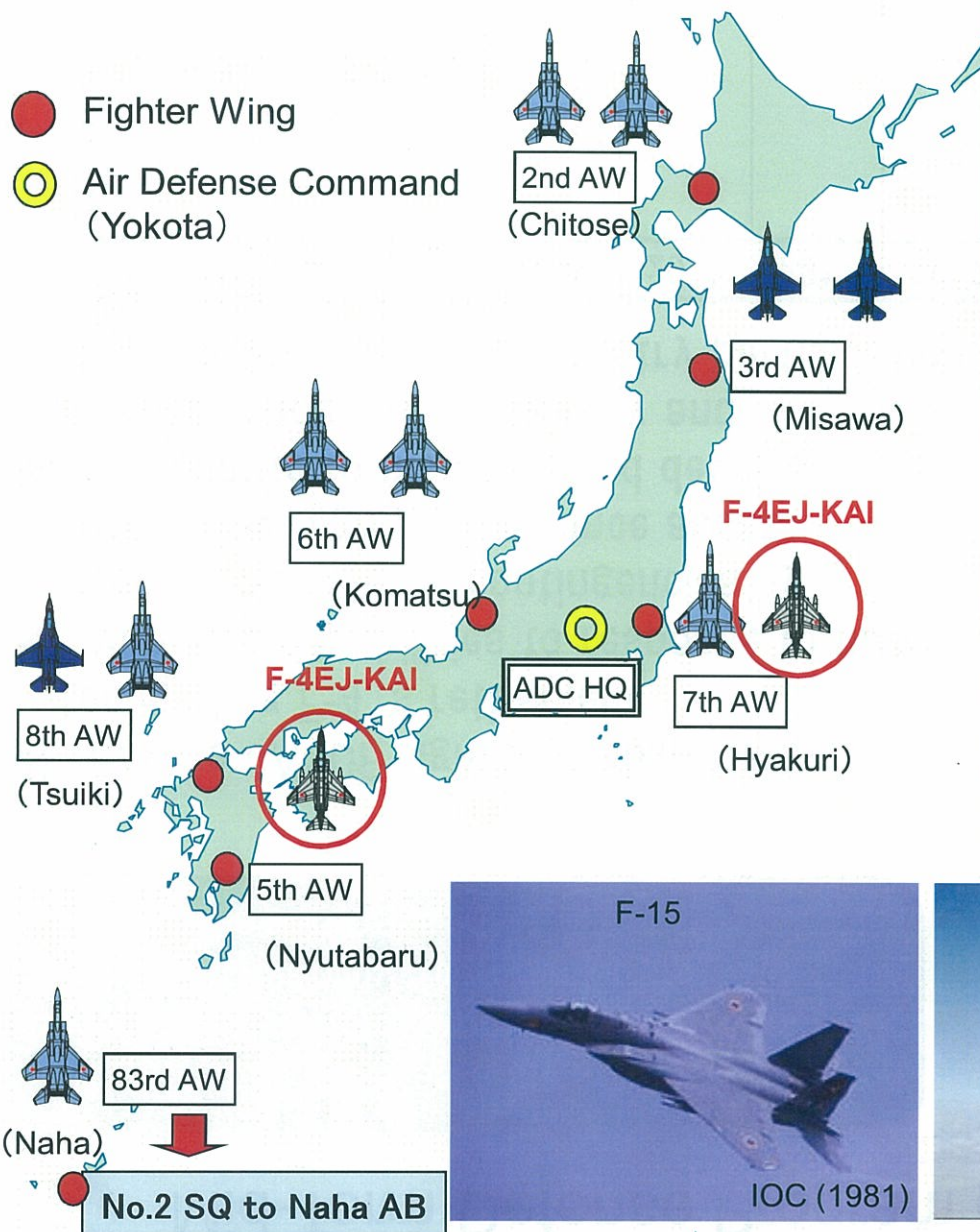


JASDF Structural Reform in line with NDPG





Mid-Term Defense Program (FY2011-15) ~Fighter SQ~



Units		Acft	Approx Qty
2nd AW (Chitose)	201SQ	F-15	20
	203SQ	F-15	20
3rd AW (Misawa)	3SQ	F-2	20
	8SQ	F-2	20
7th AW (Hyakuri)	302SQ	F-4EJ KAI	20
	305SQ	F-15	20
6th AW (Komatsu)	303SQ	F-15	20
	306SQ	F-15	20
8th AW (Tsuiki)	304SQ	F-15	20
	6SW	F-2	20
5th AW (Nyutabaru)	301SQ	F-4EJ KAI	20
83rd AW (Naha)	204SQ	F-15	20

As of 31 Mar 2012



* IOC: Initial Operating Capability 7




Mid-Term Defense Program (FY2011-15) ~Next Generation Fighter~

Acquire the F-35A as a successor to the F-4 fighters in order to promote fighter's abilities of high survivability, high performance sensor, situational awareness.

Effects

- Ensure JASDF fighter's ability with responding F-4's retirement
- Enhance capabilities to response to new threats and diverse contingencies by introducing high performance assets
- Contribute to maintain and develop defense production capability and technological cases by industry participation

F-35A	
Manufacture	Lockeed Martin
International Participation	U.S. 9 countries

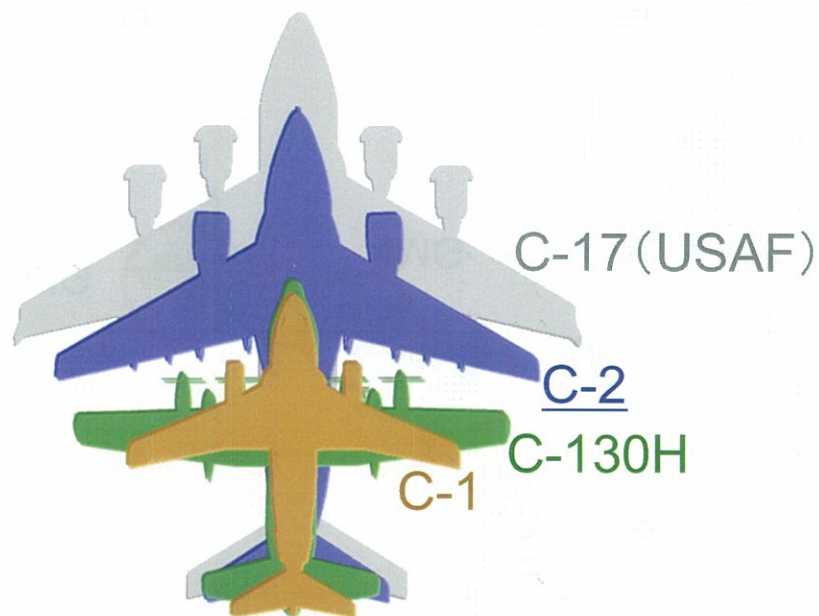
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Acquisition of F-35As				4 EA					
					2 EA				



Mid-Term Defense Program (FY2011-15) ~Next Gen Transport Aircraft~

Acquisition of next generation transport aircraft (C-2)

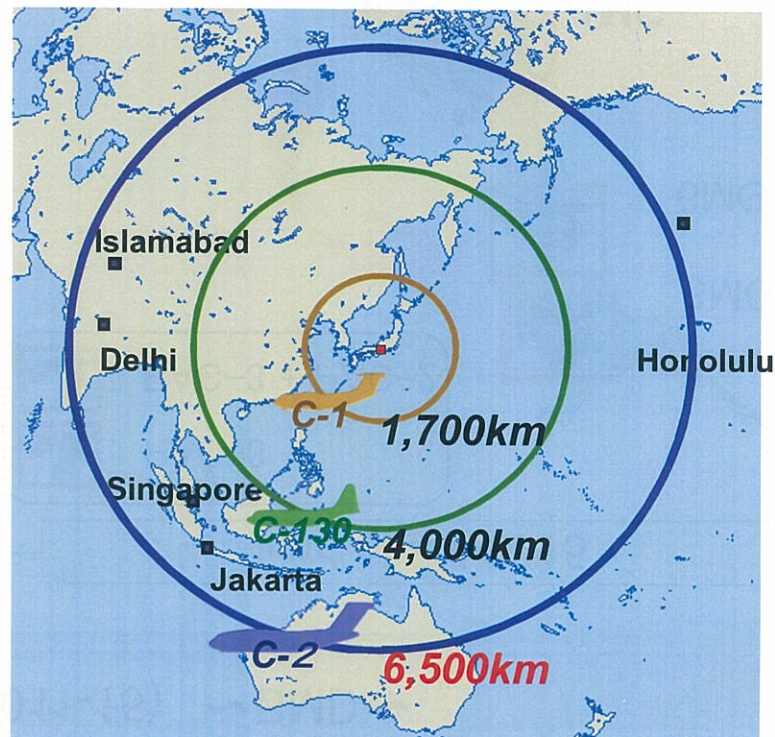
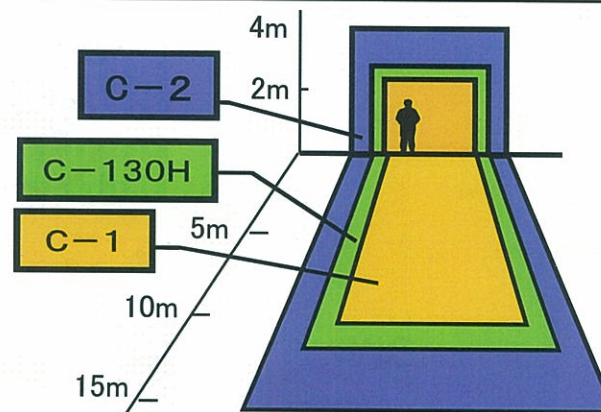
successor to the existing transport aircraft (C-1)



	C-1	C-130H	C-2
Overall Length	29m	30m	44m
Wing Span	31m	40m	44m
Payload	8t	20 t	30t
Cruise Speed	650km/h	570km/h	850km/h
Range capability	1,700km	4,000km	6,500km

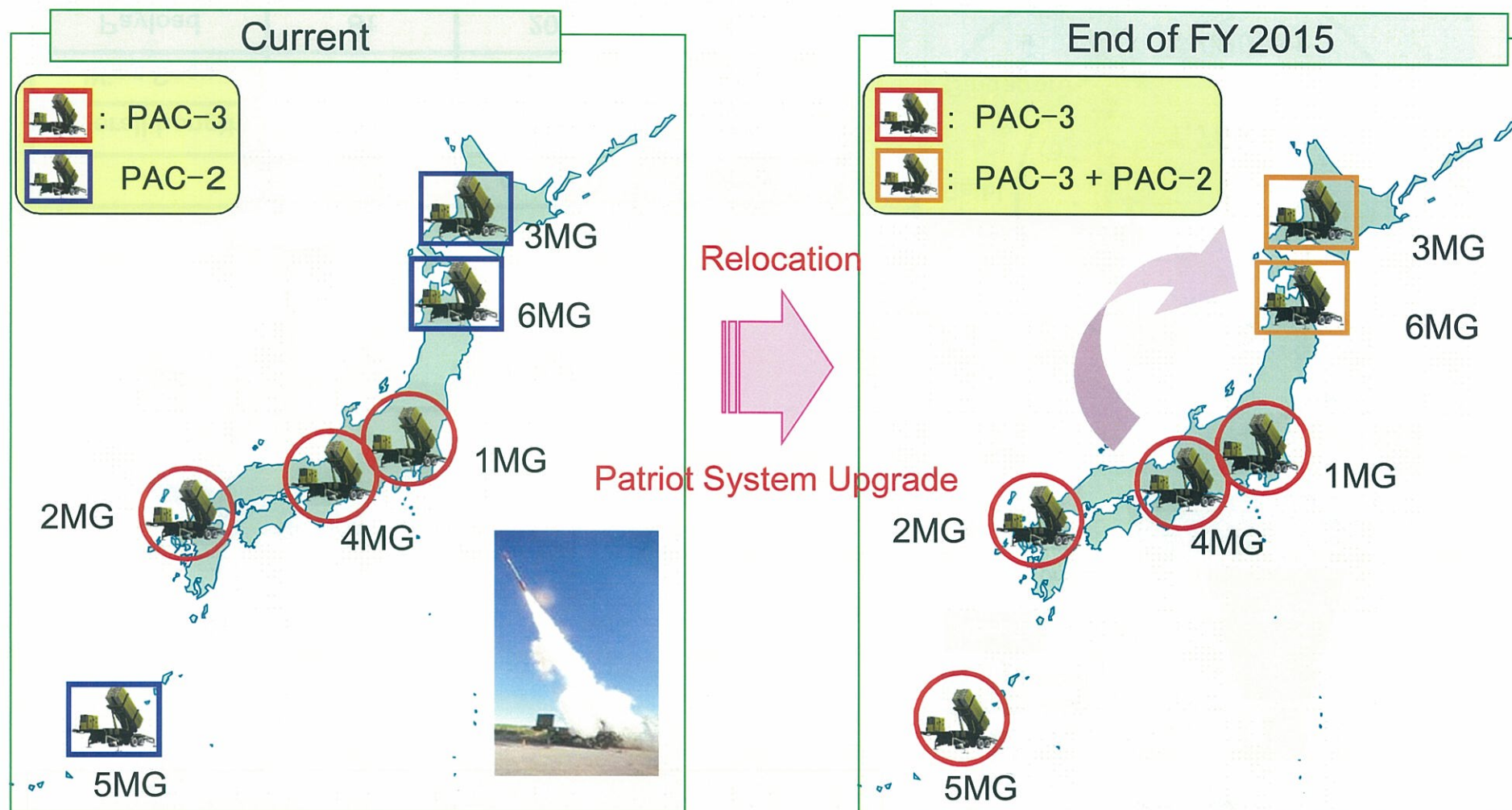
All data are approx number.

Cargo capacity increases by twice





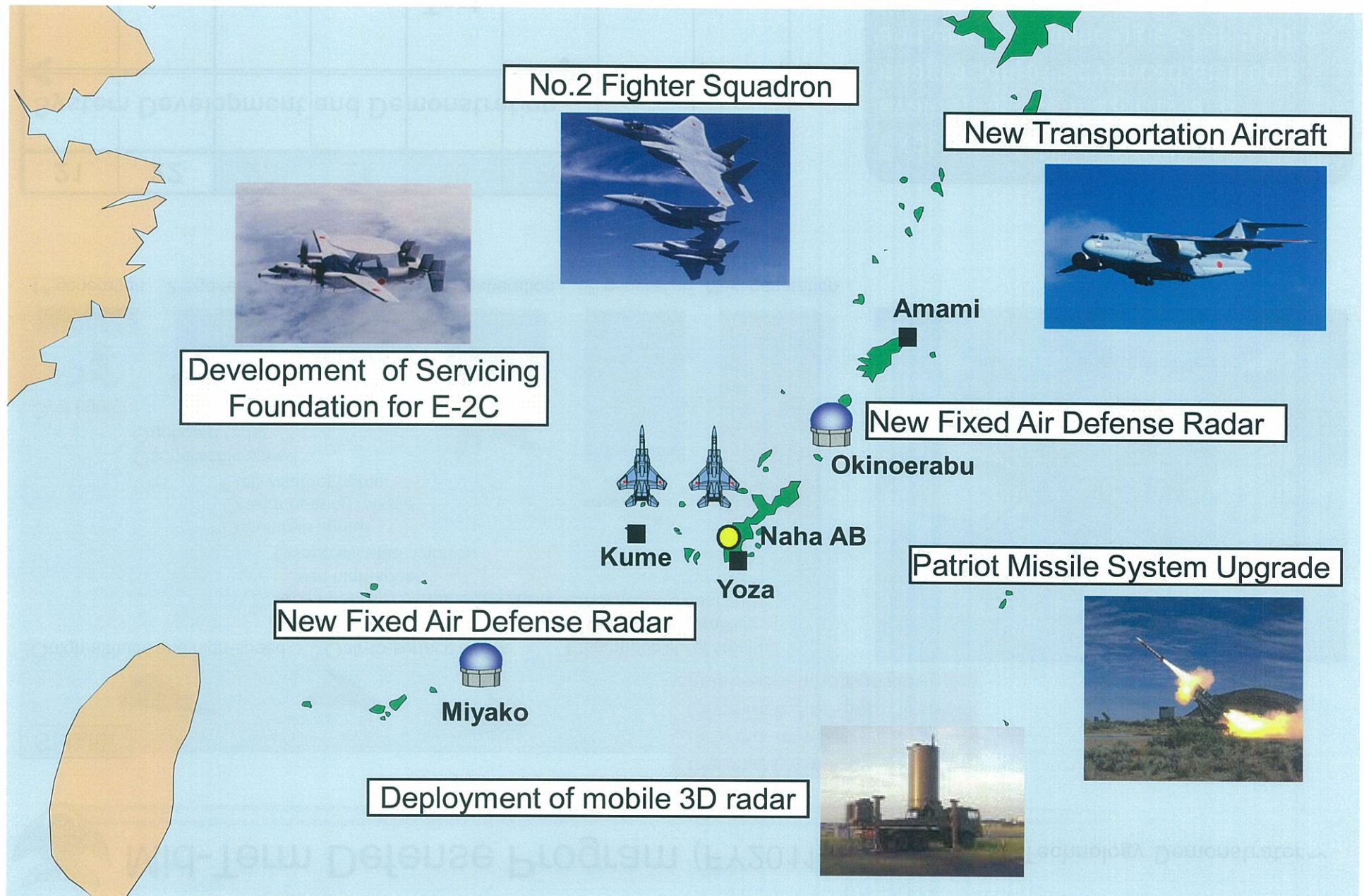
Mid-Term Defense Program (FY2011-15) ~BMD~



- 1 FU in 5MG(Okinawa) will be modified into PAC-3
- PAC-3 will be stationed in all Air Defense Missile Groups by relocating existing assets

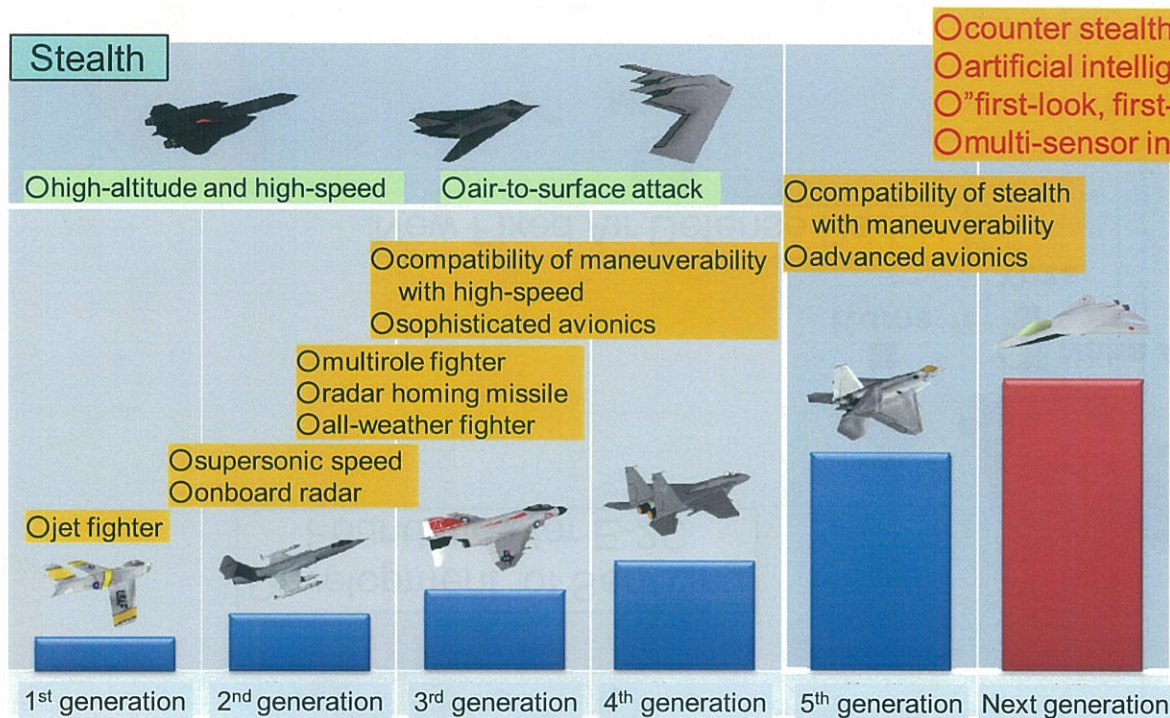


Mid-Term Defense Program (FY2011-15) ~Southwestern Area~





Mid-Term Defense Program (FY2011-15)~Advanced Technology Demonstrator~



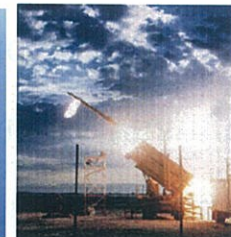
21	22	23	24	25	26	27	28
System Development and Demonstration							
←-----→							
				Test			
	←-----→						

Experimental aircraft designed for evaluating the maturity and integration of advanced airframe and engine technologies for future fighters.



FY2013 Budget Request Overview

- (1) Concept of FY2013 Budget Request
- (2) JASDF Major Projects
- (3) Defense-Related Expenditures





Concept of FY2013 Budget Request

- 1 Faced with an increasingly severe security environment, Japan is aiming at the solid implementation of effective and efficient defense programs towards building a dynamic defense force, in accordance with the “National Defense Program Guidelines for FY 2011 and beyond”(approved by the Cabinet on Dec 17, 2010) and the “Mid-Term Defense Program (FY2011-FY2015)”(approved by the Cabinet on Dec 17, 2010).
- 2 The following new roles are emphasized as continuous initiatives
 - Effective deterrence and response
 - Further stabilization of regional security environment in the Asia-Pacific region
 - Improvements in the global security environment

For that matter, emphasis will be placed on the functions applicable to wide variety of operations and functions having asymmetric response capability*¹, as well as non-substitutable functions*²

※¹ The term “functions having asymmetric response capability” refers to the functions that can respond to the actions of one’s opponent, while maintaining superiority in an efficient and effective manner: for instance, warning and surveillance using highly covert submarines against actions of the opponent’s surface fleet

※² The term “non-substitutable functions” refers to the functions, such as Ballistic Missile Defense (BMD) systems, that are absolutely necessary to sustain response capability against attacks that may cause serious damage if such functions are lost.



Concept of FY2013 Budget Request

Japan will also improve its defense posture, placing the priority on such functions as intelligence, surveillance and reconnaissance (ISR), maritime patrol, air defense, response to ballistic missile attacks, transportation, and command, control and communications in areas including the southwestern region.

- 3 Drawing lessons from the Great East Japan Earthquake, response capabilities to large-scale disasters and nuclear disasters will be strengthened.
- 4 Amidst growing fiscal austerity, it is necessary to allocate resources selectively to truly necessary functions by carefully examining the details of the programs.



JASDF Major Projects

Ensuring security of sea and air space surrounding Japan

● Mission Computing Upgrade (E-767) (¥ 10 billion)

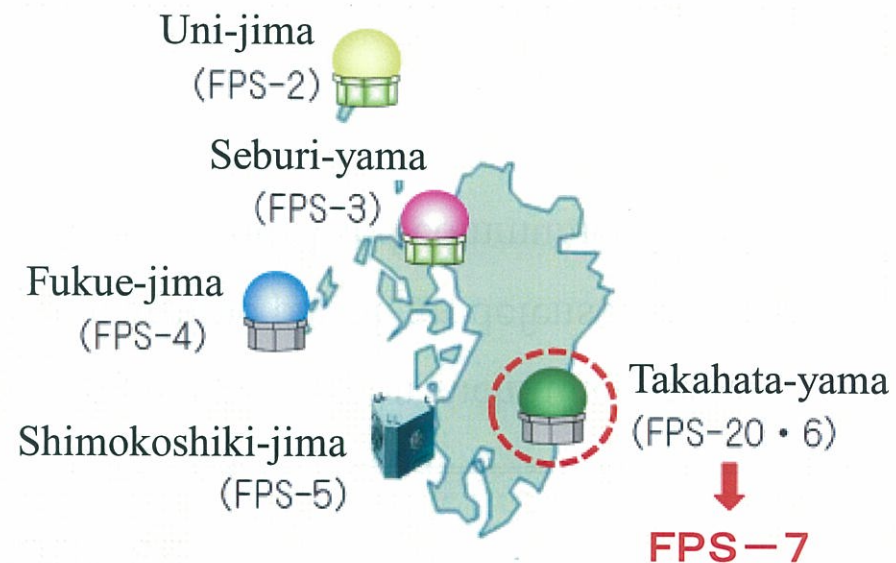
- Includes Electronic Support Measures (ESM))
- Acquisition of partial modification kits for 4 aircrafts



AWACS E-767

● Development of Fixed Air Defense Radar (¥ 4.5 billion)

- Replace the current radar on Takahata-yama with FPS-7.





JASDF Major Projects

Improvement of Air Defense capability

Acquire new aircraft

- **Next generation fighter (F-35A)** (2 units: ¥ 30.8 billion※)
※ ¥116.8 billion has been requested for initial expenses of Industrial Participation

- **Rescue helicopter (UH-60J)** (2 units: ¥ 8.1 billion)



F-35A

Capability enhancement of existing fighters

- **Fighters Upgrade** (¥ 14.6 billion)

Adapt to the modernization of the aerial combat capabilities of neighboring countries and to appropriately carry out air defense ops

- Modernize F-15
- Improve F-15 self-protect capability
- Improve F-2 air-to-air combat capability
- Add JDAM* function to F-2

※ JDAM (Joint Direct Attack Munitions)



F-15

Prepare for second Fighter Squadron to Naha AB (¥ 3.4 billion)



JASDF Major Projects

Response to Ballistic Missile Attacks

Development of interception system (¥4.1 billion)

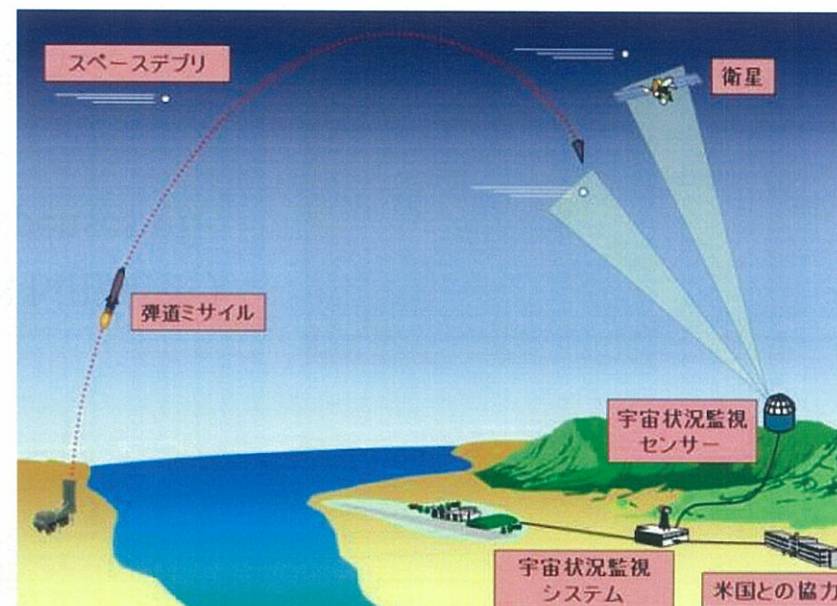
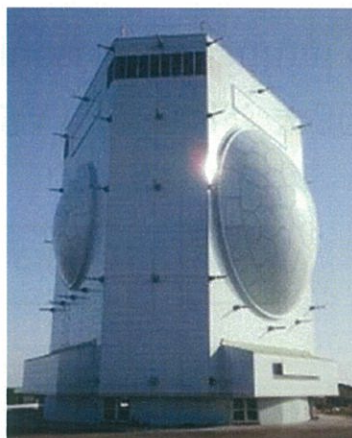
- Acquisition of PAC-3 missiles



Space and Information and Telecommunication Programs

- **Space Surveillance Research** (¥0.1 billion)

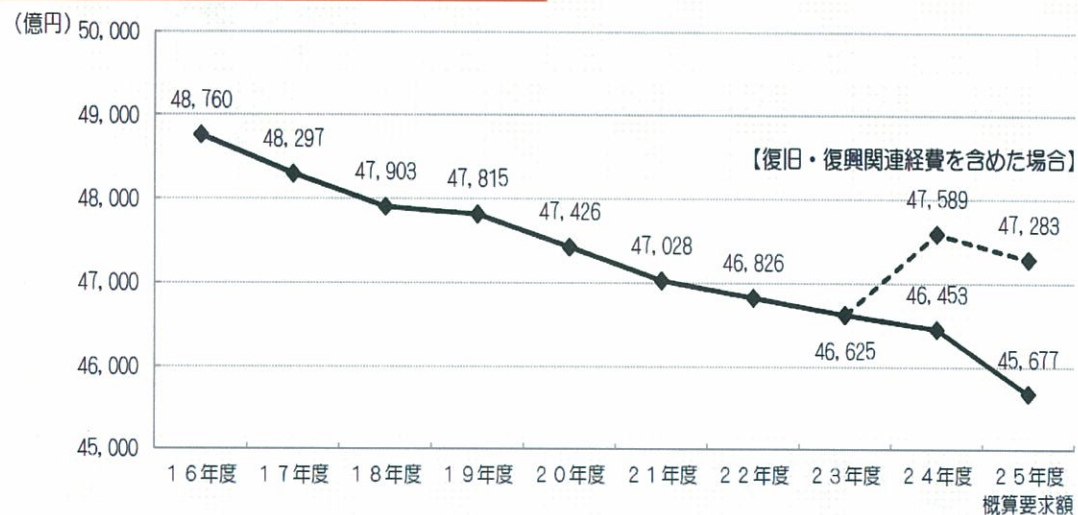
Study of capability of Fixed Air Defense Radar (FPS-5) to search and track satellites



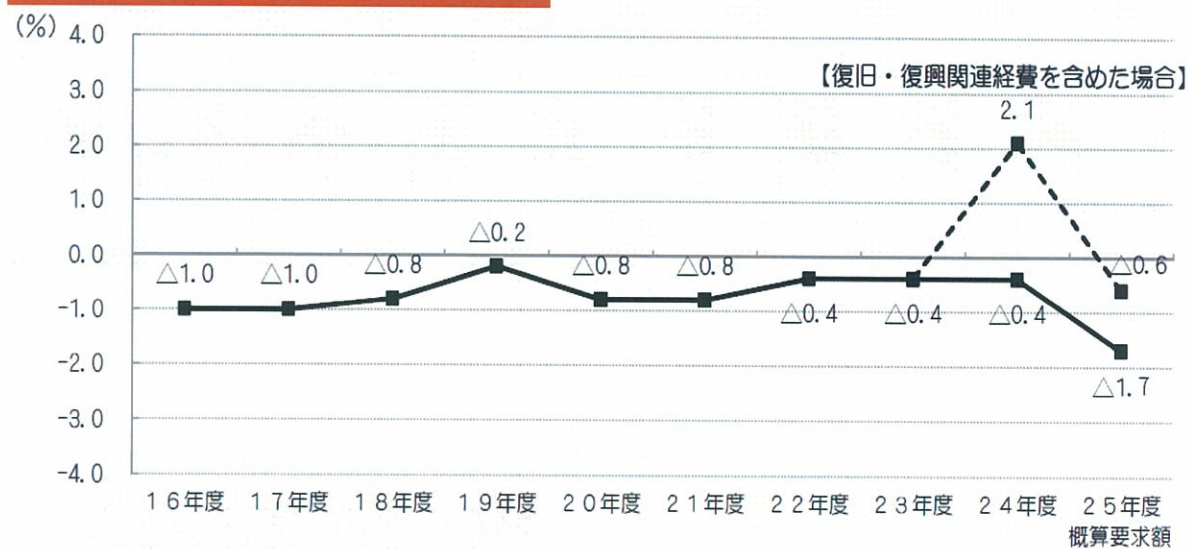


Defense-Related Expenditures

Changes in total amount



Changes in growth rate

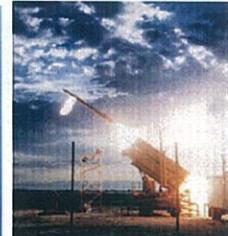




CONCLUSION

Take off to 60th Anniversary in 2014

航空自衛隊
Koku-Jieitai



Current and Future Air Defense Equipment and Systems in Koku-Jieitai

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