

Section
2

Build-Up of Defense Capability in FY2019

In FY2019, which is the first fiscal year for implementing the NDPG and the MTDP, the MOD/SDF will steadily build up its defense capability as a truly effective defense capability toward building a Multi-domain Defense Force.

In particular, in order to realize cross-domain operations, the MOD/SDF is acquiring and strengthening capabilities in new domains, which are space, cyberspace and electromagnetic spectrum. In addition, the MOD/SDF is enhancing capabilities in maritime and air domains, stand-off defense capability, comprehensive air and missile defense capability, and maneuver and deployment capability, in order to effectively deal with various situations by employing them in combination with the capabilities in the new domains. Moreover, in addition to enhancing the sustainability and resiliency of defense capability including logistics support, Japan gives priority to reinforcing the human resource base in light of the aging population with a declining birth rate and

reinforcing the technology base due to advances in military technologies. The MOD/SDF is also strengthening the Japan-U.S. Alliance as well as security cooperation with other countries in view of changes in the security environment.

At the same time, in this process, the MOD/SDF will strengthen its defense capability at speeds that are fundamentally different from the past and by allocating resources flexibly and intensively. Furthermore, the MOD/SDF will further promote joint-ness of the Ground, Maritime and Air Self-Defense Forces in all areas and, avoiding a stove-piped approach, optimize their organizations and equipment.

In addition, considering the increasingly severe fiscal conditions and other factors, Japan will strictly work to achieve greater efficiency and streamlining.

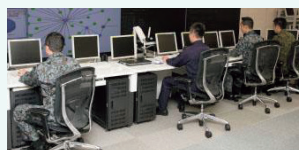
 See Fig. II-4-2-1 (Main Projects of Build-up of Defense Capabilities for FY2019)

Fig. II-4-2-1 Main Projects in Build-up of Defense Capabilities for FY2019

Category	Main Programs	
Priorities in strengthening capabilities necessary for cross-domain operations	Acquiring and strengthening capabilities in domains of space, cyberspace and electromagnetic spectrum	<ul style="list-style-type: none"> ● Acquisition of the Space Situational Awareness (SSA) System; ● Utilization of satellite communications including the improvement of X-band satellite communications functions; ● Utilization of commercial imaging satellite and weather satellite information; ● Enhancement and strengthening of Cyber Defense Group; ● Development of Defense Information Infrastructure (DII); ● Procurement of cyber information collection devices; ● Enhancement of electronic warfare abilities of fighter aircraft (F-15); ● Acquisition of the Network Electronic Warfare System; ● Sharing of electronic warfare information from the Japan Aerospace Defense Ground Environment (JADGE) and enhancement of the system's information processing capacity
	Enhancing capabilities in traditional domains	<ul style="list-style-type: none"> ● Construction of destroyers and submarines; ● Acquisition of long-endurance UAVs (Global Hawk); ● Acquisition of airborne early warning aircraft (E-2D); ● Organization of new AEW wings; ● Acquisition of fighter aircraft (F-35A); ● Enhancement of abilities of fighter aircraft (F-15); ● Research and studies for refurbishment of Izumo-type destroyers; ● Acquisition of stand-off missiles; ● Research on hyper velocity gliding projectiles intended for the defense of remote islands; ● Procurement of a land-based Aegis system (Aegis Ashore); ● Acquisition of SM-3 Block IIA and SM-3 Block IB; ● Refurbishment to enhance abilities of Atago-type destroyers; ● Refurbishment, etc. of the Patriot System; ● Acquisition of type-16 mobile combat vehicles; ● Acquisition of new utility helicopters (UH-X)
	Strengthening sustainability and resiliency	<ul style="list-style-type: none"> ● Procurement of ammunition (anti-aircraft missiles and torpedoes) necessary for ensuring air and maritime superiority; ● Acquisition of equipment necessary for enhancing abilities to restore damaged runways; ● Procurement of oil carriers; ● Renovation of old SDF facilities; ● Ensuring of a steady budget necessary for maintenance
Priorities in strengthening core elements of defense capability	Reinforcing human resource base	<ul style="list-style-type: none"> ● Promotion of measures for securing excellent personnel, encouraging women's participation, and achieving a work-life balance; ● Strengthening of education and research systems for National Institute for Defense Studies (NIDS), National Defense Academy of Japan (NDAJ), and National Defense Medical College, etc.; ● Reinforcement of medical functions
	Reinforcing technology base, etc.	<ul style="list-style-type: none"> ● Promotion of R&D toward early practical use of equipment; ● Promotion of intensive research in promising technology fields for ensuring technological superiority; ● Implementation of initiatives for strengthening project management in consideration of joint operation and development of product families; ● Promotion of defense equipment and technology cooperation; ● Promotion of measures for strengthening and maintaining Japan's defense production and technology infrastructure
	Enhancing intelligence capabilities	<ul style="list-style-type: none"> ● Enhancement of the defense attache system; ● Strengthening of information gathering and analysis capacity; ● Development of a common base for the intelligence headquarters
Responses to large-scale disasters	<ul style="list-style-type: none"> ● Strengthening and maintenance of functions of SDF garrisons and bases, which serve as response bases upon a disaster; ● Training for fostering SDF personnel's abilities to respond to large-scale and extraordinary disasters; ● Acquisition of equipment for disaster response measures 	
Strengthening of the Japan-U.S. alliance and measures concerning U.S. bases in Japan	<ul style="list-style-type: none"> ● Steady implementation of measures for relocation of U.S. marines from Okinawa to Guam and realignment of U.S. Forces in Japan; ● Promotion of measures targeting areas near U.S. bases and measures for ensuring smooth and effective stationing of U.S. Forces in Japan 	
Reinforcement of security cooperation	<ul style="list-style-type: none"> ● Promotion of initiatives, such as joint training and exercises, defense equipment and technology cooperation, capacity building assistance, and service-to-service exchanges in order to strategically promote multifaceted and multilayered security cooperation, in line with the vision of a free and open Indo-Pacific 	
Actions based on the three-year emergency measures for disaster prevention/reduction and national resilience	<ul style="list-style-type: none"> ● Procurement of SDF's disaster prevention-related equipment; ● Measures against aging and earthquake resistance for SDF facilities 	
Initiatives for increasing the efficiency of procurement	<ul style="list-style-type: none"> ● Reduction of the budget for equipment procurement by around 415.9 billion yen through promoting various measures for further streamlining and increasing efficiency of the procurement process as a whole 	
Other	<ul style="list-style-type: none"> ● Organization of new AEW wings; ● Increase of the actual number of SDF personnel; ● Establishment of new position of Public Records Management Officer (provisional), etc. 	



X-band defense communications satellite (image)



Enhancement and strengthening of a cyber system (image)



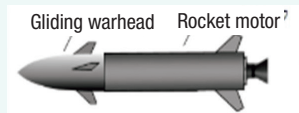
Enhancement of electronic warfare abilities of fighter aircraft (F-15)



Fighters (F-35A)



Izumo-type destroyer



Hyper velocity gliding projectiles intended for the defense of remote islands (image)