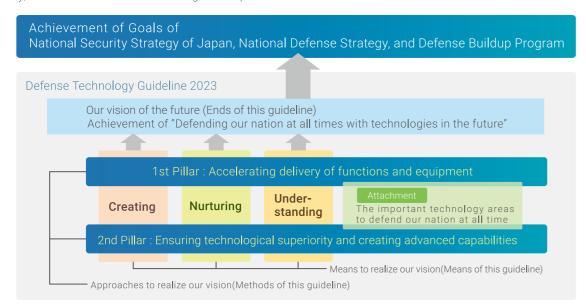
Defense Technology Guideline 2023 General description of

To defend our nation at all times with technologies

In the National Defense Strategy and the Defense Buildup Program, JMOD is to strategically communicate the forecasting results of the

Purpose

- Determine the direction of reinforcement of defense technology base described in the three documents, including the National Security Strategy of Japan.
- Organize the directions of the various efforts necessary for reinforcement of the defense technology base as a guideline to actively promote all of Japan Ministry of Defense (JMOD) efforts.
- By presenting outside the ministry the technology areas in which JMOD will focus on its R&D efforts, we aim to improve the predictability of industries and others, share the common understanding with those outside the ministry, and build the base for technological cooperation.



Current Status and Issues

- Advances in science and technology are changing warfare. Therefore, if we just continue incremental update of equipment systems, we may fail to defend our nation at all times.
- Need to maximally utilize Japan's Science, Technology, and Innovation (STI) capabilities for the security purpose (Spin-on) while spinning off the outcomes of JMOD's R&D

Our vision

Achievement of "Defending our nation at all times with technologies"

Approaches to achieve our vision (Ways of this guideline)

1st Pillar: Accelerating delivery of functions and equipment

We will deliver the functions and equipment in the seven fields of key capabilities as mentioned in National Defense Strategy to warfighters in a timely manner (by 5 years until FY 2027 or within approximately the next 10 years). We will develop these functions and equipment through the reformed R&D process.

2nd Pillar: Ensuring technological superiority and creating advanced capabilities

Over the next 10 years and further ahead, we will put our various technologies into practical / operational use as functions and capabilities to defend our nation at all times under the cooperation of the public and private sectors to provide defense innovation that brings about changes in our national defense, which ensures our technological superiority in the future, and achieving advanced capabilities ahead of other countries.

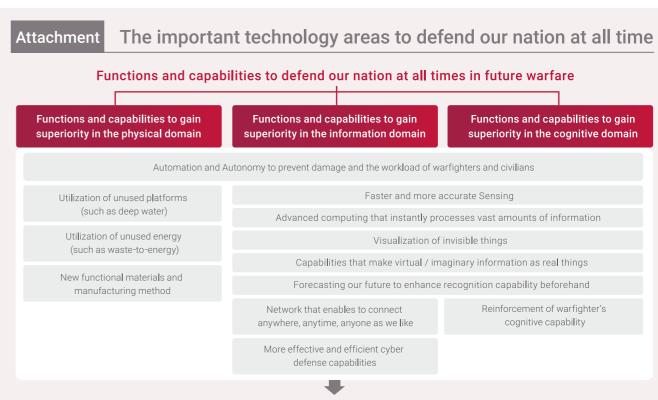
technology areas and R&D that are focused on by JMOD from the perspective of improving the predictability of industries and others.

5 Means to realize our vision (Means of this guideline)

Creating Nurturing Understanding Nurturing alone Creating new functions Understanding and equipment cutting-edge technologies, ▶ Encouraging even challenging innovative technologies. ▶ Accelerating delivery with new means as a new approach, and nurturing ▶ Understanding where and how the ▶ Establishing new research institutes technologies using diverse means and creating in a challenging manner latest sciences and technologies are Nurturing created and how they are utilized. Creating by putting together Japan's with those outside the ministry capabilities in STI Understanding ▶ Communicating JMOD's needs and Creating the future concept the role of technology developing diverse stakeholders and ▶ Creating the concept of future technologies ▶ Understanding the impact and role of warfare together with the policy and science and technology on security and ▶ By fusing with the previously operational sides defense non-defense sector, nurturing ▶ Creating the concept of utilizing technological solutions based on ideas ▶ Understanding the needs of technologies in the future with experts JMOD/JSDF and the seeds in the STI that are different from those in the past in a wide range of technologies fields, and translating the needs and Nurturing Creating the technology base seeds bidirectionally Japan's capabilities of STI ▶ Changing systems and mechanisms to Notifying those outside the ▶ Nurturing Japan's capabilities of STI increase the participation of start-ups through various R&D ministry of JMOD's efforts and others, and creating a new Nurturing technologies in the areas technology base ▶ Notifying what JMOD is doing now which are unlikely to gain investments ▶ Creating a human base that can fulfill and intends to do in the future in the private sector diverse roles

Conclusion

- Promoting the efforts of creating, nurturing, and understanding by breaking away from conventional thinking. and implementing the 1st and 2nd pillars
- As an organization which can build a bridge between security and STI, actively promoting their further fusion, and actively implementing a wide variety of policies and measures to achieve our vision



Important technology areas to achieve them = Important technology areas to defend our nation at all times