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The Significance of Establishing Guidelines for Responsible AI Application

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MOD

□ Research & Development of AI-equipped defense systems needs to be in compliance with international and domestic laws, as well as consistent with international discussions, particularly, those regarding "Lethal Autonomous Weapons Systems" (LAWS) and "Political Declaration on Responsible Military Use of Artificial Intelligence and Autonomy". This approach aims to ensure better predictability for R&D partners and further promote the use and application of AI in future defense equipment.



etc.

• Ensuring appropriate human involvement

Responsible AI Application Guideline : Purposes and Structure

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- In July 2024, MOD launched its first AI Strategy to serve as a compass for the promotion of use of AI.
 > The Guideline has been formulated and published in accordance with the AI Strategy.
- Consisting of five chapters, the Guideline highlights the concept of responsible AI application in R&D of MOD/SDF defense systems.



Implementation measures in R&D of AI-equipped Defense Systems

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Based on the Guideline, properly manage AI risks throughout the R&D processes by taking 3 step measures : 1. Classification of AI-equipped defense systems, 2. Legal/Policy Review, and 3. Technical Review. 1. Classification of Systems 2. Legal/Policy Review 3. Technical Review Outline Outline Outline Classifies AI-equipped defense Reviews the project appropriateness Reviews project risk management systems into high and low-risk from legal/policy perspectives from technical perspective ones Points Points Points Human Accountability Fairness Fostering High-Risk Ensure it is not a project that is non-**Intensive Risk** Operator's compliant with Int' | Law, incl. IHL, AI-derived output Management Proper Safety and domestic law Technical affects functions Understanding 2. Legal/Policy Rev. with destructive Legal/Policy Requirements Requirements 3. Technical Review capabilities Transparency Reliability Ensure it is not a fully autonomous & Verifiability & Validity lethal weapon without human involvement Compliance with International Low-Risk Law and Domestic Law Basic Risk AI-derived output Management does not affect **Private Sector Review Structure Review Structure** functions with Self-assessment External AI EXP Hearing destructive of AI risks Gov. Gov. capabilities Gov. Gov. Internal AI MTG Review Proj Mgr Proj Internal Expert MTG Review Mgr