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Deployment of Tested EW Solutions in Ukraine – Implications for the Defense Strategies of Japan as Part of the Broader Ramifications in the Region of Indo-Pacific

Challenges and Opportunities in Today's EW Landscape

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Contents

Interaction with Japan's defense stakeholders

- Continuous delivery of the Ukrainian experience to government, corporate and academic partners

- Interest in both technology solutions and adopted defense mechanisms

- Deployment of common adversaries in Ukraine a driving factor for defense review

- Not wanting to be "the one without chair when the music stops" a crucial aspect of decision making

EW technology deployed in Ukraine sector – relevant solutions for other battlefields (1)

Premises:

- Wide destruction of Ukrainian critical infrastructure ➡ Japan's focus on civilian infrastructure protection

- Situation in Ukrainian cities "far" from the contact line ➡ Building sustainable safety measures within Japan's urban areas

- Geographical distance between the aggressor and defender small in the Ukrainian conflict ➡ In the context of Japan even smaller

EW technology deployed in Ukraine sector – relevant solutions for other battlefields (2)

Understanding:

- EW rules applicable everywhere

- Contemporary weaponry deployed against Ukraine will be deployed elsewhere if proven effective

- A need for a firm grasp of defense gadgets used

- A need for willingness to improve, develop and manufacture

Scope of interest – air, land and sea (1)

For UAVs:

- Testing the most crucial part of defense mechanism

For land robotic systems:

- Creativity in implementation of civilian solutions

For USVs:

- Recognition that marine solutions will prove to be most important

Scope of interest – air, land and sea (2)

- Important not only gadgets, but also methods
- Recognition of the adversary's capabilities and inventory
- EW will continue to evolve (not only through optical fibers and AI)
- Considerations for the support of the Ukrainian export
- Learning from the defense ecosystems of regional allies

International geopolitical developments and applicability of Ukraine's lessons (1)

As part of interaction with Ukrainian stakeholders:

- Foreign instructors learning FROM Ukrainian experience vs. delivering Western know-how

- Visible interest in Ukrainian lessons from multiple geographical locations with "hot" conflicts

- Deployment of Ukrainian specialists in emerging war theaters

- Scenarios for international conflict regulations after the Russo-Ukrainian war

International geopolitical developments and applicability of Ukraine's lessons (2)

International relevance, also in the context of cooperation with Japanese stakeholders:

- Scandinavian countries and current significance for Japanese EW tech development
- "Size is not what matters" – focus on the Baltic countries' defense strategies
- Learning from defense response mechanisms from countries of the Indo-Pacific

International geopolitical developments and applicability of Ukraine's lessons (3)

- Chinese EW technology components increasing both quality and assortment
- Groups of North Korean specialists returning from the conflict zone
- New weapon production facilities at Japan's doorsteps
- Constitutional and legal restrictions for defense strategy implementation

Challenges awaiting Japan's overhaul of defense capabilities

- A need for EW technology testing – both offensive and defensive
- Before testing – a need for new level of manufacturing
- Before manufacturing – a need for import of samples and prototype equipment
- Before any import – a need for an adequate grasp of existing technologies
- Frequency management

Primary Lessons for Japan

- ***Widely accepted "Ukraine today is the East Asia tomorrow" changes into "If you are not in Ukraine, you are not in defence"***

- ***The North Korean factor a direct and undisputed factor in establishing new defense capabilities***

- ***Many lessons to be learned from increasingly innovative and superior Chinese EW technologies***

- ***Acting in tandem with regional allies a key to building robust defense response mechanisms***

- ***Importance of regular review of existing security cooperation parameters with major allies***

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Thank You for the Attention.

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