EQUILIBRIUM OF ASYMMETRY: DEFENSE IN A CONVERGENT ENVIRONMENT

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Abstract-The article concentrates on materialization of a supra or convergent environment in operational art, modeling, and planning, transpired out of implemented political and military actions. The subject delineates through the OODA loop of current conflict and implemented actions. By addressing particular segments and emerging directional trends and effects, attached to the future of knowledge in operational art, design, and planning.

Keywords-convergent environment, asymmetric warfare, hybrid warfare, operational art

FOREWORD

TROM ancient to present times, history of warfare is Plittered with continuous endeavor of denying adversary freedom of maneuver. What previously were walls became strategically positioned castles and fortification. Those progressed to trenches and to rapid maneuver on the battlefield. The rule was always the same; defend the territory by denying or at least halting adversaries' maneuver actions to achieve advantage and apply counteroffensive until all military and political goals are attained.

In the last thirty years, slowly and almost quietly, the approach to warfare is being reshaped by scaling the information technology to the highest levels. Proportionally countering maneuver with anti-access/area denial capabilities. In addition, slowly building augmented capacities of actions that can deliver warfare level outcome, without ground combat contact. Example of this is digitally networked artillery.

Whatever the viewpoint of military action on February 24, 2022, the actions have unmasked new approaches. Planned in the last couple of years and intensified in the last couple of months. High level of world technological and economic connectivity have allowed for development of financial warfare in rudimentary capabilities. Similarly, for months, predictions have intensified that biological pathogens are a new domain of future warfare.² Advance response bio trainings are performed, where pathogen and detection date by coincidence are correspondent in the real life.³ As a result, we have an established patterns and conditions where one or a group of nation-states can dictate a political path to one or a multitude of other nation-states. Not taking regard for other nation-states, concerns in the international arena and their interests.

Simultaneously, individual nation-states allow them self's having one directional diplomatic communication, with a political-financial, proxy coercive approach to the degree of immeasurable long-term consequences. Diplomacy and international law are becoming more and more nonexistent. As it stands now, nation-state, for the reason of having a political position of it is own, can be coerced. Or exposed to coordinated demonstration of political-financial warfare action, where national politics and economy of nation-state are positioned out of the equation.4

Equally, defense is becoming a field that, if nation-state invests into traditional methods, can be pointless endeavor. And if decides not to have a defense force, equally can be left without nothing. As a result, the contemporary direction of development of types of warfare and political steps has brought geopolitics to the highest level of omnipresence in nation-state internal politics and strategic planning.

If today nation-state still wants to keep its independence in the sense of independent political position, economy and interests. It should not attempt to compete and seek extravagant defense solutions. That will without doubt strain the economy and deliver questionable results when needed. It ought to seek direction to attain adaptive diplomatic, economic and defense posture in the progress of knowledge and proficiency of methods of force. By means that it possesses to match any diplomatic-political and military adversary.

I. OBSERVATION

1.1 Observation outline

Please before beginning, it should be noted that the domain of the supra or convergent environment is a point of view. Where asymmetrical and hybrid approach of defense or attack are simultaneously used in a continuously prevailing environment. The supra or convergent environment is an area where strategic, operational, and tactical parts with an asymmetric approach amalgamate allowing defense advantage over adversary or adversaries in three elements. In basic terms, convergent environment is ascribed to the asymmetric-hybrid mix in warfare level asymmetry—the larger the mix, the larger the environment, the larger the probability of obtaining an advantage.

Since the beginning of Russian military operations in Ukraine, commentators and officials are discussing new robust and expanding NATO, dollar weaponisation, politicalfinancial warfare, and a combination of short-term effects and outcomes. However, these interpretations steer and contribute to an examination and reassessment. The main aim here is what has a combination of political and military actions, with every involved belligerent generated in a broader view.

The situation by itself, military, diplomatic, and political is

still developing, and following could be called superficial. But when considering a broader overview, we find that diplomatic, political, and legal action, in concert with military action, has exposed multiple points that produce multiple consequences.

1.2 Observation - Methods and Thinking

Months ago, we could call trade and economic sanctions a political-economic action. Now, with the addition of banking blockade, asset seizure and weaponized currency, it has become an established asymmetric form or type of financial warfare with a range of means at disposal. Agreeing or disagreeing with the stated. The executed action combined with globalized connectivity is part that has made convergent environment certainty and asymmetric-hybrid defense against any adversary probable.

Timothy Thomas, July 2020, in the beginning of his "Russian Military Art and Advanced Weaponry" has written; "Russian General Staff Chief Valery Gerasimov has continually requested that the Academy of Military Science provide him with ideas about new forms and methods of warfare. One source defined methods as the use of weaponry and military art."

What is interesting in the above passage is that "form" is a type of warfare. And the "method" of warfare is how you fight this type of warfare and respond to it—military art and weaponry. If strategist of asymmetry in weaponized currency, and financial warfare thought they have produced a new way of warfare against any adversaries. The short answer is no. They just provided demonstration, answered the question asked by the Russian General Staff Chief, and solidify financial warfare as an asymmetric or regular type of warfare. From now on; it can now be classified as a direct attack by any nation-state. The world defense planning has just shifted into fifth gear—seeking how to respond to the specific or spectrum combination attack.

If the previous part of supposition is entertaining, it is an effect that a broader overview of the defense concept is still an evading point. As well as, shock and awe excitement have not settled into the reality of the broader picture. For this we need to turn once more to Timothy Thomas, January 2020, "Russia's New Military Theory: Updating Classical and Asymmetric Techniques" where he has written:

Russia's two top military officials, Defense Minister Sergey Shoygu and General Staff Chief Valery Gerasimov, have stated that Russia's military is constructing a new theory of warfare based on classical and asymmetric methods.

Classical methods appear to include the following... [But] there is no relation, in regard to terminology, between this list and US concepts... Russia's thought pattern is different, but one that has been constant through the years. Some aspects were addressed by Western specialists, but several important ones were not. Gerasimov stated that the main thing for military science today is to determine for Russia the possible

nature of military conflicts, develop a system of forms and methods of operations of both a military and nonmilitary nature, and determine trends for the development of weapons and military equipment systems.

Asymmetric thinking in Russia, the other aspect of this new warfare theory, involves spotting vulnerabilities in an opponent's thought process or his organization for war, the extended use of deception techniques, and so on. It also includes the use of "nonstandard" means and those that are prohibited, according to Russian sources.⁷

On said, without explanation, we could determine, by default, political-financial warfare has become an asymmetric nonstandard means of warfare. Just as it stands now, under the obscurity of necessary action is legal. However, there is a reality of disconnect—between legality, (political and military) thinking, methods, actions and direction. This disconnect can be corroborated between earlier written and created complex multi-domain relationship by currently implemented financial warfare actions against Russian Federation.

Still, financial warfare to be an effective, it needs tools or means to accomplish objective. Meaning to use financial warfare as an option in conflict against the adversary, it needs combined tools and means. Those could be bank transactions and trade blockades, with newer asset seizures and currency weaponisation implemented in a selective or combined manner.

However, here is where the complexity of created multidomain relationship lies:

- 1. Tools or means of attack as weaponized currency to be successful needs attachment to other associate means in this case other currencies of nation-states.⁸
- 2. Action of use of weaponized currency is not as use of means as ships, airplanes, tanks, howitzers, armored personal carriers, missiles, etc. But once used in an action of noncontactless attack, it has limited maneuverability.
- 3. As a result, success and survival for main weaponized currency and any other currencies sustaining it needs rapid results because of connectivity with other currencies and economies—possibility of backfiring.⁹
- 4. Whereas, the aim of the use of financial warfare on the economy of adversarial nation-state is rapid economic collapse, and underlain economic detriment to every citizen of that nation state—but subsequently forgetting collective punishment is forbidden by the Geneva Convention. ¹⁰

This complex assemble of multi-domain relationship, which touches finances and economies of multiple nation-states, combined with legality and international law, with connection to specter of military questions (in law, methods, thinking, planning, action and direction) does not end at this point.

It enhances by further implementing action—against (artist,

athletes, journalist and others) known or unknown individuals in a way of economical and psychological action with obscured limitation. The rationale of limitation is, so it does not result in backlash with the population of its own nation-state. Still with an underlain objective of mass effect—to denounce government, nation-state, restrict travel and work, and public appearance. Affluent non-elected or office holding individuals with public recognition are targeted based on having political influence, and by paying taxes that support the nation-state military.

For this reason, they are pronounced legitimate target. However, with all accounted, there was one last underlain allowance of action to rival elected members of government to express in public and media; calls of assassination to other nation-state citizens in an alluded or direct form. ¹¹

In essence, the complex multi-domain relationship of actions employed through political-financial warfare is a spectrum of legal, military and diplomatic-political contradictions that are portrayed lawful in an internationally sanctioned sense. However, overlooking a broader view, that direction does not consider Qiao Liang and Wang Xiangsui deliberated and portrayed view in a book Unrestricted Warfare¹², if everything is allowed, everything has just unlocked and is permitted.

It means, whatever has one adversarial side used against the other, what is preventing the other side of improving foundation "beyond limits" on the action, and using it against the primary side. Otherwise; "asymmetric thinking [is] spotting vulnerabilities in an opponent's thought process or his organization for war," improving the degree of action as conveniently and acting decisively to shock and awe.

On this point, we need to leap across the process to cross connect for reevaluation in the military domain.

1.3 Observation – Evolving character of war

All this cross connection in specifics that connects to overall mosaic can once again be found in Timothy Thomas' article Russia's "New Military Theory: Updating Classical and Asymmetric Techniques." He writes on Russian military thought, argumentation, and assesses that the new-warfare presents the impression of being in development. Despite this, he adds that new is more of an argumentative nature or is it:

Russian Defense Minister Sergey Shoygu ... stated that modern conflict requires new approaches and that developing a new theory of warfare is the main task of the Armed Forces. Shoygu offered that "conflicts of a new generation involve a combination of classical and asymmetrical methods of conducting armed combat, where hostilities are fleeting, and there is simply no time for correcting mistakes."

What Russian Defense Minister Sergey Shoygu stated has more to do with the emergent environment. Since, combination of methods is sought when we can notice emergent change or threat. The hybrid is combination, amalgamation/mix, which is a part of the defense solutions approach. From stated, there is an awareness of new emergence, which has not clarified yet, but is becoming apparent.

Russian General Staff Chief Valery Gerasimov, in his ... presentation to the Academy of Military Science, stated that "Under these conditions our Armed Forces must be prepared to wage wars and armed conflicts of a new-type using classical and asymmetric methods of operations."

Timothy Thomas, in continuation, complements further with Russian military thinkers and their thought between new-generation and new type of warfare views and concerns:

Of interest is that Shoygu mentioned new-generation conflicts while Gerasimov noted conflicts of a newtype. Both of these concepts have been under discussion in Russian periodicals for a number of years. New generation was talked about extensively in Vladimir Slipchenko's 2001 book Noncontact War as well as in a 2013 article in Military Thought by S. A. Bogdanov and S. G. Chekinov. Bogdanov had written on new-generation warfare even earlier in the same journal, in 2003. But after 2013, the newgeneration concept all but disappeared from Russian writings.... In the meantime, the term "new type" conflict served as its substitute, to include in the writings of Chekinov and Bogdanov and many others. Maybe this was because General Staff Chief Valery Gerasimov mentioned the term in 2013 (and not new-generation) and again, as noted above, in 2019. Russian authors perhaps wanted to be in lock step with the Chief. Chekinov and Bogdanov, in 2017, stated that new type warfare is not only unique but is "threatening to become the pivot of historical life in the 21st century."4

Furthermore, Timothy Thomas adds:

Not only have Russian theorists stressed the new-type concept over the past five years, but the Chinese military often utilizes the term as well. ...

This flip-flopping of concepts between newgeneration and new type indicates that Russia's military is still not settled on a formal "naming" concept to describe its approach to the conduct of future war.

Perhaps stating a case for classical and asymmetric warfare is the closest Russia can come to a stereotype or a compromise on new generation and new type. Neither the term classic nor the term asymmetric can be considered as "new."

Either unknown to Timothy Thomas at the time of writing or identified as unrelated, the above cited paragraph section at present has significant importance. In conjunction with Ostapenko, Baushev and Morozov 2012, "Information-space support of Russian Federation armed forces groupings," that offered a view of evolving character of war. Relationship between eluding "new-generation" and "new type" of war can be acknowledged with current international military state of affairs. (See table 1)

Table 1 – Evolving character of war

Generation of war	Armaments	Scale of armed (military) actions	Goal of war
First	Steel arms	Tactical	Destruction of adversary, possession of his valuables and territory
Second	Gunpowder, smoothbore weapons	Tactical, operational-tactical	Destruction of adversary, possession of his territory or establishment of control over it
Third	Rifled high-capacity weapon with increased rate of fire	Operational-tactical, operational	Destruction of adversary armed forces' groupings, establishment of control over territory and its resources
Fourth	Automatic and reactive weapons, tanks, aviation, navy, transport means, and connections	Operational-strategic	Destruction of armed forces of the adversary, destruction of his economic potential and political system
Fifth	Nuclear weapons and its limited or mass employment	Strategic, [operational-strategic]	Destruction of armed forces of the adversary, destruction of his economy and overthrow of his political system
Sixth	High-precision weapons based on land-air-sea, developed informational-space support	Strategic, operational-strategic, and operational	Conquering or establishing control over world resources of human livelihood, establishment of loyal power in states which have these resources on their territory, control of mass consciousness of peoples and large groups of people

Source: Kofman, Michael et al. (2021). Russian Military Strategy: Core Tenets and Operational Concepts. August 6, 2021. CNA Research Memorandum. Arlington, VA. p.10.¹⁴

The table 1 illustrates six stages of war evolution. If the designation "new-generation" was allowed to continue, it would conflict with foundation and the future theoretical development and military thought. By interpretation, this can be determined from a scale that the designation "new-generation" would fall between fifth and sixth generation of war, making the concepts ambiguous.

In contrast, General Staff Chief Valery Gerasimov and others deliberated about "new type" of conflict, which concurs with previously stated. Form is a type of warfare and the method of warfare is how you fight this type of warfare. For this we should observe table 1 again, where we can find that "armaments", "scale of armed (military) actions" and "goal of war" corresponds to Russian assessment and prediction of "new type" of war, which is sixth generation war on the evolutionary ladder.

If we correlate all political, financial and military action of current conflict in Ukraine and above table will find scaling and all other action confusing or unclear. The Russian military assessed and interpreted the concept for future wars, which should be sixth generational warfare. If we observe current conflict in Ukraine. It can be concluded it is a proxy war with the United States as lead principal and other allies with varied sponsorship. It can be also observed from table 1. That action implemented by RF on one side and USA/NATO and other allies with Ukraine as proxy client on the other side are waging warfare in two different generational levels.

Meaning actions implemented by USA/NATO and other allies (Ukraine as client included) is a fifth generation level response against the Russian Federation by a Russian assessment on table 1 concept. For a moment, we omit the Ukraine classic approach of defense. Than from known military approaches; USA/NATO and other allies combined implemented asymmetrical attempt. Given from generational level ladder and mix between other segments, political-financial warfare and goals of war and armament.

Therefore, if we proceed with this cross table view, not mixing situation on the ground. We are presented that one side is operating on a fifth level of operational warfare thinking and goals, whereas the other is operating on a sixth level of operational warfare thinking and defense. Conceptual prediction of Russian military thinking about future warfare implemented by pears will be in sixth level, but current response action is still in fifth level and even that things flow up, down, across and shortened in implemented action. Combination of amalgamated-mix has developed long-term convergent environment, which allows a new approach of defense and necessity of new economic planning.

So this will happen in three ways. Extrapolation based on known and hypothesized on unknown, to come with explanation and predict the methods of political-diplomatic and defense actions. Or political and military thinking will be in the form of closed loop—where a system is self-adjusted by varying conditions and feeding output information back as input and hoping for the best—in some kind of alliance. Last, by becoming proxy client nation-state and hope that defense choice is favorable enough to principle not to be forgotten in wider spectrum of political-diplomatic and defense questions.

1.4 Observation - Proxy warfare

In proxy warfare, there is a possibility to make a "faux pas" because of placing emphasis on a particular specific. And that can especially transpire when we associate methods of attack and methods of defense in context of proxy warfare.

Still, there are a couple of things that different authors agree upon when it comes to proxy warfare. As first; through history is present and is not sufficiently analyzed. Second, when it comes to defining it, there are older and newer definitions. To support said, let's reference and review the main ones.

Andrew Mumford in 2013 "Proxy Warfare and the Future of Conflict," where he highlights two examples by Chris Loveman (2002) and Karl Deutsch (1964):¹⁵

Proxy wars are the product of a relationship between a benefactor, who is a state or non-state actor external to the dynamic of an existing conflict, and the chosen proxies who are the conduit for the benefactor's weapons, training and funding. In short, proxy wars are the logical replacement for states seeking to further their own strategic goals yet at the same time avoid engaging in direct, costly and bloody warfare.¹

Proxy wars an international conflict between two foreign powers, fought out on the soil of a third country; disguised as a conflict over an internal issue of that country; and using some of that country's manpower, resources and territory as a means for achieving preponderantly foreign goals and foreign strategies.²

Similarly, Frank Hoffman and Andrew Orner in 2021, "The Return of Great-Power proxy Wars" define proxy war and shortcomings of analyzes:

Proxy wars involve the sponsorship of actors by an external state to influence a violent conflict's outcome for the external state's own strategic purposes. This definition captures the desire of an external state (the "principal") to avoid direct action while supporting clients on the ground (state governments or local militia or contractors) as well as the prospect of violence in order to obtain desired political goals. Some scholars have recently proposed definitions that stress support to non-state actors, but that approach falls short of depicting the full range of state, transnational, or commercial entities that have historically been employed by great powers in the midst of strategic rivalry. Our conception does not assume similar interests between principals and clients, but does include the use of surrogates like private military companies, armed volunteers, or computer hacking groups. 16

These three highlighted descriptions for proxy warfare may not come close to the problem of analysis of subject. But, they still reflect on challenges posed when commenting about the issue and linking it to developing specific. One of those specifics was mentioned by Zoran Ivanov 2020, "Changing the character of proxy warfare and its consequences for geopolitical relationships," where he writes:¹⁷

The complexity of the changes of the characteristics of proxy warfare are being examined from different angles by many authors. Andrew Mumford, in his article from 2013, "Proxy Warfare and the Future of Conflict", identified that transformation of traditional warfare and the rise of PMCs will lead to changes in the character of proxy warfare.

This is the part where questions arise. Can the character of Proxy warfare be changed? Or are just some characteristics of proxy warfare added, where may evolve in different directions. Ivanov provides from Cronin 2020 one interesting element; "Technological innovation has empowered malevolent individuals and organizations to act as proxy

forces with a reach that goes beyond the traditional battlefield." This singular element opens an avenue of thinking. Added characteristics allow proxy warfare to evolve or transform to be used in a multitude of forms and dimensions to deliver the strategic goal of the principal. Still, war will stay war, and contingency of traditional is always an option. The goals of the client will always be a concern of the client if there are no other strategic plans from the principal.

Now, proxy warfare for decades had the characteristic of quasi hidden or disguised principals, fighting on a third party territory backing their own sides. The 2022 has seen something that has never been seen before. Ukrainian conflict was steered and prepared before any military action was implemented in Ukraine (restructuring of Ukraine's armed forces from 2014 until 2022). It can be observed that the government of Ukraine in public declaration has pronounced their territory and citizens' proxies in combating the Russian Federation to the allied coalition guided by the United States against the Russian Federation and their citizens.¹

It could be said; one-sided and unfounded statement. But the rule of diplomacy and politics is not to stir and inflame wars, but to find a solution even at the commencement of the same. Not to mention the last eight years. Yet, when a government accepts proxy status and war conditions on their territory for external reasoning and political, financial, and military support. Then a declaration of waging a ten-year attrition war¹⁹ on the beginning of military operations, with the recruitment of 20.000 foreigners by the Ukraine to fight the liberation war, raises questions again.²⁰

The questions, which come to mind for this emphasized feature. Is Ukraine waging a ten-year liberation war, with foreigner volunteers on backs of all citizens of Ukraine? For whose account and direction of western regimes, politicians, and any other actors with special interest is the liberation war being fought? And is this a ten-year attrition war a promise of warfare only to accomplish casualties' numbers on both sides?²¹

This and many other questions that will arise will be answered in time to come. But what is opened is that we can now have nation-state enunciate proxy status by its actions, and be steered and backed by principal and principal allies. And still have an open confrontation between opposing sides—Russia-Ukraine. Yet, principal and his allies are actively involved but not attacked.

It looks like proxy warfare is developing to be a norm and form of warfare and political competition with near and peer declared rivals in 21st century. In addition, it seems on a global level as society we are running back into mid-19th all the way mid-13th century time of mercenaries and dark ages. Or we can just convey James Wither's conclusion, "renewal of great power competition to achieve influence, resources and security, without employing their military forces in a manner that could cause a major war."²²

1.5 Observation – Legal segment

Legal segment, the part that needs revisit, not to reiterate already stated. But just to draw on main points and

extrapolate. Before February 24, 2022, individuals could travel and do business anywhere in the world—where this was legally allowed. Now political-financial warfare and his hybrid combinations allows elected or non-elected, together with known or unknown (artist, athletes, journalist and other) individuals to be pronounced legitimated military targets.²³ Basic premise for the use of political-financial warfare and its hybrid combinations against individuals is that they need to renounce their nation-state and government. But the most interesting legal association about affluent is, they pay taxes in their respective nation-state and with that support economy and military, which gives them a power of influence. Equally, political-financial warfare action is used against the economy of the nation-state and its citizens. And all is deemed legal, at least from the side, using it and those supporting it. Not giving second thoughts about Geneva Convention and War Crime of Collective Punishment. 10

But then again, it was forgotten from "fog of war" that this implemented action is not just sanctioning action anymore, but warfare. And that similar individuals do not exist only in nation-state on the receiving end. We come again to questioning. What is forbidding any other side in the future of enhancing political-financial warfare's foundation beyond limits on the action already implemented? Or better, ad-hoc rules, laws, policies can be evoked at any-time against anyone in the world now, whom politicians and nation-state regime actors deem necessary—in form of preemptive action.

To capture and illustrate how this can escalate in the context of future unlimited warfare, let's observe a couple of examples:

- 1. French government action against French and other nationals by mining of vessel Rainbow Warrior in 1985—civilian activists.²⁴
- 2. Newer—Canadian government action against their own citizens—"Freedom convoy" blockade of traffic, but peaceful protests. Reaction, pronouncement of citizens, a terrorist and use of antiterrorist laws with a hybrid approach to other non-protesting citizens—blocking of personal finances and pronouncing publicly nation-state citizens as protest collaborators. Similar action of humiliation of protesters was used in France by public call to be stripped of their citizenship.²⁵
- 3. If the above examples did not define how all can be combined and can escalate beyond limits, in the present context combination of political-financial warfare action. Then, only what can be said is—disposition matrix. Its United States legal and force implemented action known as disposition matrix or unofficially known as kill list. It was implemented under Obama's administration in 2010. Which has become a permanent characteristic of U.S. policy against other nation-state's citizens or citizens of the United States if deemed necessary—anywhere in the world.²⁶

It can always be argued that examples are not representative

and disposition matrix example is policy meant for terrorism. But in the world of evolving warfare, state-political-elite personal interests, anyone can be pronounced terrorist or just to be put on someone's list as deemed necessary. As an example, DHS and SATA No Fly List of the United States and Canada can be used for assessment. It is a list of dangerous persons from aspect of air traffic security or nation-state entry. However, if a detailed assessment is taken of individuals included on a list. You will find a list filed with regular citizens, diplomats/politicians combined with the world most wanted. Swift conclusion allows us to consider that in a not distant future, a new catalog by multiple nation-states will be just an amalgamated assortment of unlocked disposition matrix lists. And this will form a basis for escalation without limits.²⁷

If we want to corroborate if these escalation actions already exist in or through political-financial warfare, we do not need to look far. Letter of Marque and Reprisal by implementation it induces a spectrum of legal consequences. United States is the only nation-state that has never annulled archaic law governing Letter of Marque and Reprisal, which was only issued in time of war to privateers from 13th to 19th century.²⁸

However, looking from 2001 out of three attempts to enact the law, two were unsuccessful. The third attempt, "H.R.6869 - To authorize the President of the United States to issue letters of marque and reprisal for the purpose of seizing the assets of certain Russian citizens, and for other purposes" law was enacted.²⁹ Nation-states cooperate not even completely comprehending under what law they are cooperating with that action, they are directly involving their nation-state in warfare. Because by the legal definition governing the Letter of Marque and Reprisal, they are becoming direct or indirect belligerents in warfare.³⁰

4. From legal standpoint—it's irrelevant, was Letter of Marque and Reprisal issued to private individual, company or governmental agency. In this case, it was issued to FBI -Federal biro of investigation, which makes this even more complicated. Official federal agency and, if not known, FBI at the same time is counterintelligence agency of the United States.³¹ It has been issued a military grade document to be applied in time of peace (no state of war exists between two countries) against Russian nationals to have their assets seized. On account that listed individuals pay taxes to Russian federation and they have influence. Therefore, an explanation for the action is their criminally gained assets will be seized, on account of paying taxes, having connections and influence. Interesting formulation from a legal standpoint. We are at peace, not war. The United States federal agency is issued a military grade document to seize criminally gained assets, because high net Russian individuals pay taxes with, which Russian federation supports military budget. The final conclusion on above written is that there is no possibility in the future of any escalation beyond limits by any nation-state in the world.

However observed or assessed, legal activity has compounding action and implications. Law is based and

combined on written parts and enhanced with any legal action implemented, which means that is constantly evolving and progressed—for better or worst. Any actions based on the implemented law and especially warfare associated. It has meaning and the foundation for defining prior actions before and at the onset of war. Together, they expose all the belligerent sides that are involved in warfare—not just those that can be seen. Equally, if we allow distortion of reality and laws governing warfare to unilateral interpretation, convergent environment is setting future in default of no limits.

1.6 Observation end remarks

The biggest paradox lies in the foundation of implemented actions. All allied nation-states with the Ukraine that have accepted United States actions and legal approach to solving the problem of the past eight years in Ukraine. Combined with actions at the onset of Russian military action have consigned the world to the future of unrestricted military thinking and planning. These combined actions allow for the birth of new proxy, unrestricted warfare, and convergent environment or "modified combined war that goes beyond limits" to become reality—in global context.

Without being an irrevocable conclusion. Politicians of some nation-states have used asymmetry to asymmetrically written them self's, affluent, and influential individuals to legally binding law. And with that, become part of nation-state legitimate war target—as a type of Sword of Damocles equation over their lives. In simple terms, unrestricted warfare and convergent environment compounded action allow for a possibility of future preemptive action. Never has in history of rules of engagement or warfare. An action been written and employed in a manner that action employed has enhanced value to any adversarial side, then thought by a side using it.

2 ORIENTATIONS

2.1 Orientational outline

In warfare to decide and act, we need to orientate to assess what was observed. But to orientate ourselves, there is a certain element to examine and evaluate—space. Space or environment, in which new types of warfare and future operations are going to be conducted, in one form or the other, it is going to be contested in the convergent method.

Supra-environment, or as here termed convergent environment; is environment that allows and combines asymmetric and hybrid warfare. Asymmetric signifying unequal and irregular, and hybrid is a combination of different things—amalgamation or mixture of different aspects or components, both elements together producing convergent environment.

This convergent environment is nothing else then operational environment, where everything converges and amalgamates for achievement of strategic objective—be it in defense or attack. The prospect of success of the objective lies in knowledge and his converged application. The table 2 illustrates this convergent and operational environment, and the importance and potential of knowledge in future warfare.

Table 2 – Convergent environment

(Convergent environment					
OODA LOOP ³²		OPERATIONAL ART33		REFLEXIVE CONTROL ³⁴		
Observe	[through]	Time	[to reach]	Complete picture		
Orientate	[in]	Space	[to assess]	Actualization of plans (intellectual potential and space)		
Decide	[on]	Means	[to settle on]	Conformity of goals (mission, place, time & method)		
Act	[with]	Purpose	[so that]	The modeling or forecasting of the condition (at the time of action are being implemented)		
[-]	[-]	[-]	[does not require uncertainty in]	Anticipation of events		

Modeled on consolidation of two different decision-making processes and equilibrium points of operational art to demonstrate a convergent environment

2.2 Operational art in convergent environment

In the best interests of further deliberation and design. Why would we say that this new environment now exists or will exist? By equally rudimentary assessment of semi-hidden political sentiment on a global geopolitical level by peer or near peer competitors—there is a desire for unadulterated war. Even present nuclear attitude sounds like, if there were no nuclear weapons, or let's agree not to use it—let's start a conventional war and winner takes all. Again, statement could be assessed as unsubstantiated. But there is a mix of individuals and groups of actors, especially in the west that openly support military actions for only their known reasons. But no one is hiding that one of economic calculation is or could be a beneficial part.³⁵

Rudimentary or not, from all observed, said, illustrated, and assessed. The combined action of different elements as; diplomatic, political, economic, military, with the actions implemented in an environment that was. Has or is producing new supra environment that, as said it provides the impression of convergence.

It is allowed to be said that it does not exist, or it can be called differently. But the convergent environment now exists from a multitude of unsubstantiated, unchecked actions that are implemented in a digitalized environment. Based on the assumption of getting an outcome like we are in the 20th century, but with a speed of a 21st century that we live in. Not to mention that some actions that are being implemented were based on laws of mid-13th to mid-19th century—Letter of Marque and Reprisal.³⁶

If on the above said is given an assessment. What does the convergent environment that exists mean for defense of the nation-state? If viewed from a position of developing of multipolar world and said present nuclear attitude. It could be

illustrated as—in short of purposely antagonizing a nuclear armed nation-state to humiliate in open conventional warfare. Defense is possible against any adversary regardless of the size and armament. Meaning, the Ukraine conflict has allowed a convergent environment to occur. And has opened the types and methods of warfare in a variety of amalgamation, where defense and attack can be implemented by any nation-state with relatively minimal means for maximum effect.

Could a convergent environment be called a convergent warfare environment? It could be interchangeable designation—in time of peace is just a convergent environment in which everything functions. In time of warfare becomes specific and concentrated. Defense preparation and operations have no influence on the convergent environment—except if changing the convergent environment itself.

Convergent environment, considered through equilibrium of operational art and flexibility of response:

- **Time**—when time is not of essence, respond by intuition
- **Space**—defense of nation–state is not based on adversary direction of attack
- **Means**—is knowledge, intelligence, and method combined with a variety of equipment
- **Purpose**—if defense is the primary rationale of warfare, the victory is assured or highly probable

Let's elaborate in the abstract on about above written. Time can be rendered irrelevant in a convergent environment based on the type of warfare used and methods employed. Space or environment is relevant for defense and attack, dependent on the adversary and the final objective. The knowledge is the primary means of defense and attack, together with the holder of knowledge—the equipment is secondary—whatever the variety of equipment is. As long as the purpose of military operations lies in defense, the success of achieving nation-state objectives is assured or highly probable against any adversary.

2.3 Principles of war in convergent environment

Before bringing the orientation segment to an end, the principles of war should be added and mentioned. However, defined by different nation-state armed forces, the principles of war are part of doctrine and military art that guides preparation for and conduct of military operations. Therefore, principles in convergent environment should be succinct to allow for unrestricted thought in preparation and conduct of operations. To operate in a convergent environment, the principles should be flattened on select points that do not allow for divergence from military or operational thinking. Five assorted points are presented that are self-explanatory and succinct takes on military principles. Otherwise, additional explanations of principles can be found in armed forces' doctrines around the world. What is essential at this point is that the set group allows for direction in clear and unobstructed thought.

- **Legitimacy** maintain legal and moral authority in the conduct of operations.
- **Objective** maintain military operation to attainable objective.
- **Simplicity** prepare clear, uncomplicated plans and concise orders.
- **Surprise** offensive action has a result of surprise, induced by the deliberate or incidental introduction of the unexpected.
- Initiative allow for constant adaptability to actively secure initiative.

In the end, one thing that should never be overlooked in thought, preparation, planning and conduct of operations. The knowledge and experience can be sought anywhere, but must always be transferable to contemporary circumstances.³⁷

3 DECISIONS

3.1 Decision outline

All current political and military actions surrounding the Ukraine conflict have produced additional operational necessity for all nation-states. But especially those that are not involved in conflict to develop their own defense response capabilities. Every action that can be observed and assessed will be modeled in vertical level of the operational part. In the end, the combination of taken actions has produced a necessity for a comprehensive upsurge in operational expertise.

Meaning, current condition has put emphasis on knowledge of operational expertise to adapt and outline defense concept in convergent environment. Objective of any nation-state and defense forces will be to develop an operational plan that connects nation-state strategic, operational and tactical part. In such a manner, that is possible to respond in a way that utilizes all available means for the foreseeable future. Implying toward the knowledge capabilities to have proficiency to respond with available means at hand. And deployment of defense capability in a manner to support and sustain nation-state in direct, but especially indirect, attack in convergent environment.

Condensed manner from all above, written. There is a direct necessity of literal attainment of ability to apply knowledge in a way that allows command of current and desired in a convergent environment. As well as the ability to operate in such an environment, and respond and develop new means and methods that support mission in space and time.

3.1 Decision segment case design

As earlier stated in table 2, decide on means to settle on mission place, time and method. In one form or the other, all world nation-state and armies will attempt to respond to observed and try to progress operational segment that utilizes all of the available means of nation-state. This necessity of means includes operational knowledge, respectively. So that in transpired convergent environment, category III nation-state can respond in form of defense and attack by means available. As Andrew Krepinevich in 1992/2002, "The Military-Technical Revolution: A Preliminary Assessment" says; "The

[nation-state] would not seek information dominance, but readily accept an 'information neutral' environment. Its missions would involve denying ... military forces control of space, the air, and the sea, rather than attempting to control those media itself." How this exploratory interpretation looks in a digital environment of 21st Century can be seen in table 3.

Table 3 - Asymmetric and hybrid defense mode scale

Asymmetric and hybrid defense mode scale Level 4 Engagement: Sea, Air and Land If three levels of engagement did not deliver agreeable resolve—opponent can be engaged in amalgamated combination on Sea, Air and Land until final outcome is reached Level 3 Engagement: Outer Space Shrapnel-Kessler Mining Warhead SKMW Level 2 Engagement: Sea Underwater Cable Destruction UCD Level 1 Engagement: Sea Sea Mines and Costal Sea Mining SM-CSM

Modeled on: Andrew Krepinovich - The Military-Technical Revolution: A
Preliminary Assessment. 38

The interpreted model presents a combined asymmetric and hybrid approach or one method to the problem. The modeling scale of level 1, 2 and 3 are specifics that are assigned to asymmetry and combined with Level 4 as hybrid action, which only point to, but without, explicit illustration. What is missing overall is operational design or plan procedure for execution of all four levels. However, old "Soviet [and still contemporary Russian has] focus of deep operations within the concept of operational art requires mobilizing and coordinating often very dissimilar elements of combat power to achieve the desired results. The object of the Soviets was to attack an enemy nearly simultaneously throughout his depth to effect the complete disintegration of the ability and will to fight." ³⁹

Meaning, that even if the presented model does not illustrate selected hybrid action and leaves operational design out. It allows from theory to be determined, that model and consecutive orders of actions do not need be the same. But the model connected to theory allows for a connected understanding of operational art, deep operations or deep attack to develop an abstract representation of the direction of operational design. Where, operational design expressed as questions says: what is the current environment, desired environment, the problem and the solution? What was exploratory interpretation for Andrew Krepinovich has in digitalized 21st Century become reality through combined actions implemented by different belligerent actors to produce capability in operational level that permits category III nationstate defense and attack against category II and I-perfect convergent environment.

"The most ideal method of operation for dealing with an enemy who pays no regard to the rules is certainly just being able to break through the rules." But an even more ideal method of operation is when an enemy applies rules that permit disrupting his entire defense or attack. And opens himself to complete disintegration of ability and will to fight.

4 ACTION

4.1 Action contour

Whatever was above written and viewpoint expressed and the viewpoint derived—one is certain—Pandora's Box of wider warfare environment has been opened. Everyone has seen a wide spectrum of warfare models being implemented and contra-act moves are now being sought.

The moment that coordinated political-financial and proxy warfare was executed, it has backfired and failed. Not because that it cannot be used again, but it has created a convergent environment of warfare. And it has showed that no nuclear nation-state wants to use nuclear weapons, but they want to fight the adversary for one or the other political or financial reason. This is the breaking point in geopolitics that will allow new standard to fight any opposing adversary no matter the size of nation-state, his economy, or military power. What this democratic geopolitical gamble has indicated is that warfare or other military operation can be fought by direct and indirect means—no proxy necessary. Future sanctions will be countered by sanctions. Or, as it now stands, financial warfare will be countered by financial warfare. What is going to be different is the implemented model.

The large and strong economies will use financial-economic coercion and warfare, military coercion and force. But independent, robust, small and weaker nation-states will now organize to implement financial or other models of warfare or asymmetric-hybrid actions at the moment's notice. Through the methods of locking adversary and any allies to flatten the economic and military strength. Using means that can equally shock, and devastate strong and large nation-state, and any allies involved. These future financial and other models of warfare will come in the lowest of arrangements by any nation-state with military capability and military industry. The action will be acted by an immediate counteraction to disconnect opponent and allies. Including, their ability of intelligence network infrastructure, communication and any other prearranged power coercive coordination response.

Therefore, as said before, the nation-states that will want to keep its independent political position, economy and interests. Will need to seek direction to attain adaptive diplomatic, economic and defense posture through progress of knowledge and proficiency of methods of economy, diplomacy and force with means that they have, to match any economic, diplomatic, political and military question that will arise in the future.

BIBLIOGRAPHY

Foreword

1. See more details:

a. Baud, Jacques (2022). The Military Situation in the Ukraine. Centre Français de Recherche sur le Renseignement, Paris. Translated from the French by N. Dass. April 1, 2022. The Postil Magazine. Accessed at:

https://www.thepostil.com/the-military-situation-in-theukraine/ and https://www.thepostil.com/the-military-situationin-the-ukraine/?print-posts=pdf (10/05/22)

b. Dobbins, James at al. (2019). Extending Russia Competing from Advantageous Ground. RAND Corporation, Santa Monica, California, USA. Accessed at:

https://www.rand.org/content/dam/rand/pubs/research_reports/ RR3000/RR3063/RAND_RR3063.pdf (6/09/22)

- c. Baud, Jacques (2022). Kharkov and Mobilization. October 1, 2022. The Postil Magazine. Accessed at: https://www.thepostil.com/kharkov-and-mobilization/?print-posts=pdf (15/10/22)
- **2.** O, Hanlon, Michael (2021). Defense 101: Understanding the Military of Today and Tomorrow. Corrnell University Press. Ithaca, NY. p.134-161.
- **3.** Yassif, Jaime. O'Prey, Kevin. Isaac, Christopher (2021). Strengthening Global Systems to Prevent and Respond to High-Consequence Biological Threats. NTI-Nuclear Threat Initiative. Washington, DC. Accessed at: https://www.nti.org/wp-

content/uploads/2021/11/NTI Paper BIO-TTX Final.pdf (28/05/2022)

4. See more details:

a. CBS. 2022. Economic shock and awe: The strategy behind the economic sanctions against Russia. CBS News. March, 2022. Accessed at:

https://www.cbsnews.com/news/russia-economic-sanctions-ukraine-60-minutes-2022-03-20/ (28/05/2022)

- b. Valentina Pop, Sam Fleming, James Politi. 2022. Weaponisation of finance: how the west unleashed 'shock and awe' on Russia. April 6, 2022. FT Financial times. Accessed at: https://www.ft.com/content/5b397d6b-bde4-4a8c-b9a4-080485d6c64a (28/05/2022)
- c. Robin Wigglesworth, Polina Ivanova, Colby Smith. 2022. Financial warfare: will there be a backlash against the dollar? April 7, 2022. FT Financial times. Accessed at: https://www.ft.com/content/220db8f2-2980-410f-aab8-f471369ac3cf (28/05/2022)

1. Observation

1.2 Observation - Methods and Thinking

5. Thomas, Timothy (2020). Russian Military Art and Advanced Weaponry. July 2020. MITRE Corporation. McLean, VA. <u>Cited from</u>: Valeyev and Romas 2010. Choosing Methods of Warfare. Voennaya Mysl' (Military Thought), No. 6. p. 5-8. Accessed at: https://community.apan.org/wg/tradoc-g2/fmso/m/fmso-books/352075 (12/05/22)

6. See more details:

- a. Shukla, Raj (2022). The military lessons from the Ukraine conflict. Jun 01, 2022. ORF Observer Research Foundation. New Delhi, India. Accessed at: https://www.orfonline.org/expert-speak/the-military-lessons-from-the-ukraine-conflict/ (20/07/22)
- b. Shukla, Raj (2022). The Agnivir Scheme: Only the test of fire will make fine steel. Jun 27, 2022. ORF Observer Research Foundation. New Delhi, India. Accessed at: https://www.orfonline.org/expert-speak/the-agnivir-scheme-only-the-test-of-fire-will-make-fine-steel/ (20/07/22)
- 7. Thomas, Timothy (2020). Russia's New Military Theory: Updating Classical and Asymmetric Techniques. January 2020. MITRE Corporation. McLean, VA. p.2. Accessed at: https://apps.dtic.mil/sti/pdfs/AD1141304.pdf (12/05/22)
- **8.** Pop, Valentina, Fleming, Sam and Politi, James (2022). Weaponisation of finance: how the west unleashed 'shock and awe' on Russia. April 6, 2022. The Financial Times Limited. Accessed at: https://www.ft.com/content/5b397d6b-bde4-4a8c-b9a4-080485d6c64a (10/04/22)

9. See more details:

- a. Frankel, Jeffrey (2019). "How A Weaponized dollar Could Backfire." Project Syndicate. October 28, 2019. Harvard Kennedy School Belfer Center for Science and International Affairs John F. Kennedy School of Government. Cambridge, MA. Accessed at: https://www.belfercenter.org/publication/how-weaponized-dollar-could-backfire and Project Syndicate New York, USA. Accessed at: https://www.project-syndicate.org/commentary/donald-trump-weaponized-dollar-could-backfire-by-jeffrey-frankel-2019-10 (20/06/22)
- b. Frankel, Jeffrey (2022). Get Ready for "Reverse Currency Wars". Views on the Economy and the World. May 28, 2022, Harvard Kennedy School Belfer Center for Science and International Affairs John F. Kennedy School of Government. Cambridge, MA. Accessed at:

 $\frac{https://www.belfercenter.org/publication/get-ready-reverse-\\ \underline{currency-wars}.~(20/06/22)$

- c. Lynn, Matthew (2022). Weaponising the dollar against Russia will backfire especially if it works. February 7, 2022. Telegraph Media Group Limited. Accessed at: https://www.telegraph.co.uk/business/2022/02/07/weaponising-dollar-against-russia-will-backfire-especially/ (20/04/22)
- d. Xinyi, Wang and Bochao, Zhao (2022). U.S. financial hegemony backfires as countries opt for de-dollarization. Jul 14, 2022. Xinhuanet. Accessed at: https://english.news.cn/20220714/1302e4c23211412ca571e73 f10e994a2/c.html (25/07/22)
- e. Sheng, Wen (2022). US-led Western sanctions rarely successful, to backfire eventually. March 19, 2022. Global Times. Accessed at: https://www.globaltimes.cn/page/202203/1255270.shtml
- d. Makori, Michelle (2022). Sanctions on Russia will backfire, expose the failings of U.S. dollar, and may kill current global monetary system. July 06, 2022. Kitco News. Accessed at: https://www.kitco.com/news/2022-07-06/Sanctions-on-Russia-will-backfire-expose-the-failings-of-U-S-dollar-and-may-kill-current-global-monetary-system.html (20/07/22)

10. See more details:

(25/05/22)

- a. ICRC (2022). Rule 103. Collective Punishments. ICRC, Customary IHL Database. Accessed at: https://ihl-databases.icrc.org/customary-ihl/eng/docs/v1_rul_rule103 (30/08/22)
- b. ICRC (2022). Practice Relating to Rule 103. Collective Punishments. ICRC, Customary IHL Database. Accessed at: https://ihl-databases.icrc.org/customary-ihl/eng/docs/v2_rul_rule103 (30/08/22)
- c. Darcy, Shane (2010). Prosecuting the War Crime of Collective Punishment. Journal of International Criminal Justice. Volume 8, Issue 1. March 2010. p. 29–51. Accessed at: https://doi.org/10.1093/jicj/mqp083 (30/08/22)

11. See more details:

- a. AFP (2022). US senator calls for Putin's assassination. Mar 4, 2022. The Times of India. Accessed at: https://timesofindia.indiatimes.com/world/us/us-senator-calls-for-putins-assassination/articleshow/89986141.cms (19/05/22)
- b. Basu, Nayanima (2022). How US Republican senator's call to assassinate Putin shows deep divisions in party. March 7, 2022. The Print. New Delhi, India. Accessed at: https://theprint.in/world/how-us-republican-senators-call-to-assassinate-putin-shows-deep-divisions-in-party/861538/ (19/05/22)
- c. Shabad, Rebecca 2022. Sen. Lindsey Graham defends calling for Russians to assassinate Putin. March 4, 2022. NBC News. New York City, USA. Accessed at: https://www.nbcnews.com/politics/congress/sen-lindsey-graham-defends-calling-russians-assassinate-putin-rcna18703 (19/05/22)

- **12.** Liang, Qiao and Xiangsui, Wang (1999). Unrestricted Warfare. PLA Literature and Arts Publishing House, Beijing. Accessed at: https://www.c4i.org/unrestricted.pdf (10/06/22)
- **13.** Hoffman, Frank. 2007. Conflict in the 21st Century: The Rise of Hybrid Wars. Potomac Institute for Policy Studies. Arlington, Virginia. p.22. Accessed at: https://www.potomacinstitute.org/images/stories/publications/potomac_hybridwar_0108.pdf (15/06/22)
- **7.** Thomas, Timothy (2020). Russia's New Military Theory: Updating Classical and Asymmetric Techniques. January 2020. MITRE Corporation. McLean, VA. p.2. Accessed at: https://apps.dtic.mil/sti/pdfs/AD1141304.pdf (12/05/22)

1.3 Observation – Evolving character of war

- 7. Thomas, Timothy (2020). Russia's New Military Theory: Updating Classical and Asymmetric Techniques. January 2020. MITRE Corporation. McLean, VA. p.3. <u>Cited from: 1.</u> NON. (2019). Interfax, 18 June 2019.; <u>3.</u> Gerasimov, V. (2019). The Development of Military Strategy under Contemporary Conditions. Tasks for Military Science. Vestnik Akademii Voennykh Nauk (Journal of the Academy of Military Science). No. 2 2019, p. 6. And <u>4.</u> Chekinov, S. G. and Bogdanov, S. A. (2017). The Evolution of the Essence and Content of the Notion of War in the 21st Century. Voennaya Mysl' (Military Thought). No. 1 2017, p. 43. Accessed at: https://apps.dtic.mil/sti/pdfs/AD1141304.pdf (12/05/22)
- 14. Kofman, Michael et al. (2021). Russian Military Strategy: Core Tenets and Operational Concepts. August 6, 2021. CNA Research Memorandum. Arlington, VA. p.10. Cited from: Ostapenko, O.N., Baushev, S.V. and Morozov, I.V. Information-space support of RF armed forces groupings. Информационно-Космическое Обеспечение Группировок Войск (Сил) ВС РФ: St Petersburg, 2012. p. 92-93. Accessed at:

https://www.cna.org/archive/CNA_Files/pdf/russian-military-strategy-core-tenets-and-operational-concepts.pdf (18/01/22)

1.4 Observation - Proxy warfare

15. Mumford, Andrew (2013). Proxy Warfare and the Future of Conflict. April-May 2013. The RUSI Journal. Volume 158, Issue 2. p. 40–46. **Cited from**: **1.** Loveman, Chris (2002). Assessing the Phenomenon of Proxy Intervention. Conflict, Security and Development. Vol. 2, No. 3, December 2002. p. 30. And **2.** Deutsch, Karl (1964). External Involvement in Internal War. Harry Eckstein (ed.), Internal War, Problems and Approaches. New York, NY: Free Press of Glencoe, 1964. Accessed at:

https://www.tandfonline.com/doi/full/10.1080/03071847.2013 .787733 (28/07/22) **16.** Hoffman, Frank and Orner, Andrew (2021). The Return of Great Power Proxy Wars. September 2, 2021. Institute for National Strategic Studies - National Defense University. Washington, D.C. Accessed at:

https://inss.ndu.edu/Media/News/Article/2763589/the-return-of-great-power-proxy-wars/ and https://warontherocks.com/2021/09/the-return-of-great-power-proxy-wars/ (18/08/22)

17. Ivanov, Zoran (2020). Changing the character of proxy warfare and its consequences for geopolitical relationships. Security and Defence Quarterly. Volume 31, Issue 4. p. 37-51. Accessed at:

http://cejsh.icm.edu.pl/cejsh/element/bwmeta1.element.doi-10 35467 sdq 130902 (15/06/22)

- **18.** Cronin, Audrey (2020). Power to the People: How Open Technological Innovation is Arming Tomorrow's Terrorists. Oxford, Oxford University Press. p. 8–10. Accessed at: https://doi.org/10.1080/09546553.2021.2000223 (30/06/22)
- **19.** NON. (2022). 10-year-war vow points to more uneasy direction of Russia-Ukraine conflict. Apr 18, 2022. The Global Times. Beijing, China. Accessed at: https://www.globaltimes.cn/page/202204/1259632.shtml (27/04/2022)

20. See more details:

a. AFP – Agence France-Presse. (2022). Ukraine crisis: 20,000 foreign volunteers in Ukraine to fight Russians, says foreign minister. March 7, 2022. South China Morning Post. Accessed at:

https://www.scmp.com/news/world/russia-central-asia/article/3169477/ukraine-crisis-20000-foreign-volunteers-ukraine (10/04/2022)

- b. Weber, Peter. (2022). Ukraine says 20,000 foreigners have volunteered to fight Russia. Russia's now welcoming 'volunteers,' too. March 11, 2022. The Week. Future plc. Washington, DC. Accessed at: https://theweek.com/russo-ukrainian-war/1011196/ukraine-says-20000-foreigners-have-volunteered-to-fight-russia-russias (10/04/2022)
- c. Soo, Mark. (2022). Foreign Volunteers: A Morale Booster in Ukraine. March 17, 2022. Geopolitical monitor Intelligence Corp. Toronto, Ontario, Canada. Accessed at: https://www.geopoliticalmonitor.com/foreign-volunteers-a-morale-booster-in-ukraine/ (25/03/2022)
- d. Sparks, John. (2022). Ukraine war: 3,000 British volunteers fighting on Ukrainian side against Russia, says Georgian commander. June 13, 2022. Sky News. Middlesex, UK. Accessed at: https://news.sky.com/story/ukraine-war-3-000-british-volunteers-fighting-on-ukrainian-side-against-russia-says-georgian-commander-12633139 (20/06/2022)
- e. Muncy, C.S. (2022). This is Not a Video Game: U.S. Military Vets in Ukraine. May 23, 2022. Village Voice LLC. Irvine, CA. Accessed at:

https://www.villagevoice.com/2022/05/23/this-is-not-a-video-game-u-s-military-vets-in-ukraine/ (28/05/2022)

f. AE-RLS (2022). How Foreign Far-Right Volunteers Are Arriving to Fight in Ukraine. Rosa Luxemburg Stiftung. Berlin, Germany. Accessed at:

https://www.rosalux.de/en/news/id/46588/how-foreign-far-right-volunteers-are-arriving-to-fight-in-ukraine (10/06/2022)

21. See more details:

- a. Macgregor, Douglas (2022). The Endless War in Ukraine. April 22, 2022. RealClearDefense. RCD Real Clear Media Group.

 Accessed at: https://www.realcleardefense.com/articles/2022/04/22/the_endless war in ukraine 828468.html (10/05/22)
- b. Milburn, Andrew (2022). Time is not on Kyiv's side: Training, weapons, and attrition in Ukraine. Jun 27, 2022. Modern War Institute at West Point. Accessed at: https://mwi.usma.edu/time-is-not-on-kyivs-side-training-weapons-and-attrition-in-ukraine/ (30/07/22)
- c. Watling, Jack (2022). Ukraine is fighting a grim war of attrition. Only NATO can help change that. Jun 19, 2022. The Guardian News & Media Limited, UK. Accessed at: https://www.theguardian.com/commentisfree/2022/jun/19/ukraine-russia-war-of-attrition-nato (23/07/22)
- d. Atlamazoglou, Stavros (2022). The War of Attrition in Ukraine Continues. August 12, 2022. Sandboxx. Accessed at: https://www.sandboxx.us/blog/the-war-of-attrition-in-ukraine-continues/ (25/08/22).
- e. Macgregor, Douglas (2022). Reinforcing Failure in Ukraine. Aug 23, 2022. The American Conservative, The American Ideas Institute. Washington, D.C. Accessed at: https://www.theamericanconservative.com/reinforcing-failure-in-ukraine/ (1/09/22)
- f. Speedie, David (2022). Did the West 'bring war' to Ukraine?. September 3, 2022. Asia Times. Accessed at: https://asiatimes.com/2022/09/did-the-west-bring-war-to-ukraine/ (10/09/22)
- g. Macgregor, Douglas (2022). War and Regrets in Ukraine. October 19, 2022. The American Conservative, The American Ideas Institute. Accessed at: https://www.theamericanconservative.com/war-and-regrets-in-ukraine/ (20/10/22)
- **22.** Wither, James (2020). Outsourcing warfare: Proxy forces in contemporary armed conflicts. April, 2020. Vol. 31. Security & Defense Quarterly. War Studies University. Warsaw, Poland. Accessed at:

https://securityanddefence.pl/Outsourcing-warfare-Proxy-forces-in-contemporary-armed-conflicts,127928,0,2.html (28/07/22)

1.5 Observation – Legal segment

23. See more details:

a. NON (2022). EU restrictive measures against Russia over Ukraine (since 2014). October 12, 2022. Council of the EU - The European Council. EU. Accessed at:

https://www.consilium.europa.eu/en/policies/sanctions/restrictive-measures-against-russia-over-ukraine/ (15/05/22)

b. NON. (2022). EU sanctions against Russia explained.
 October 12, 2022. Council of the EU - The European Council.
 EU. Accessed at:

https://www.consilium.europa.eu/en/policies/sanctions/restrict ive-measures-against-russia-over-ukraine/ (15/05/22)

- c. NON. (2022). Consolidated list of financial sanctions targets in the UK. October 20, 2022. Office of Financial Sanctions Implementation HM Treasury, UK. Accessed at: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/1112485/Russia.pdf (21/10/22)
- d. NON. (2022). Ukraine-/Russia-related Sanctions. U.S. Department of the Treasury. Accessed at: https://home.treasury.gov/policy-issues/financial-sanctions/sanctions-programs-and-country-information/ukraine-russia-related-sanctions (18/10/22)
- e. Schwarz, Karel-Peter (2022). Lionizing and sanctioning Russian artist. May 27, 2022. GIS Geopolitical Intelligence Services AG. Vaduz, Principality of Liechtenstein. Accessed at: https://www.gisreportsonline.com/r/sanctioning-russian-artists/ (30/05/22)
- f. Gotev, Georgi (2022). EU sanctions Putin's spokesman, oligarchs, journalists. Mar 1, 2022 EURACTIV- Reuters. Accessed at:

https://www.euractiv.com/section/global-europe/news/eusanctions-putins-spokesman-oligarchs-journalists/ (18/04/22)

- g. Grez, Matias at al. (2022). These are the sports that Russia has been suspended from. March 7, 2022. CNN Cable News Network. A Warner Bros, Discovery Company. Accessed at: https://edition.cnn.com/2022/03/01/sport/sports-russia-banned-from-football-rugby-spt-intl/index.html (17/06/22)
- h. NON. (2022). Sports world hits back at Russia: Multiple sporting sanctions for war on Ukraine. March 2, 2022. The Times of India. Accessed at:

https://timesofindia.indiatimes.com/sports/off-the-field/sports-world-hits-back-at-russia-multiple-sporting-sanctions-for-war-on-ukraine/articleshow/89891203.cms (17/06/22)

i. Kishkovsky, Sophia (2022). Director of Moscow's Second World War museum says he is 'proud' to be sanctioned over war in Ukraine. Jun 1, 2022. The Art Newspaper. Accessed at: https://www.theartnewspaper.com/2022/06/01/director-of-moscows-second-world-war-museum-says-he-is-proud-to-be-sanctioned (15/06/22)

- j. Safronova, Valeriya (2022). Russian Artists Lose the Tools of Their Trades as Companies Pull Out. March 15, 2022. The New York Times Company. Accessed at: https://www.nytimes.com/2022/03/15/arts/russia-creative-artists-sanctions.html (12/04/22)
- k. Aleksander, Irina (2022). The Russian Filmmaker Trapped Between Hollywood and Moscow. The New York Times Company. August 14, 2022. Accessed at: https://www.nytimes.com/2022/08/10/magazine/russia-hollywood-films.html (28/08/22)
- Funakoshi, Minami; Lawson, Hugh and Deka, Kannaki (2022). Tracking sanctions against Russia. July 7, 2022.
 Reuters Thompson Reuters. Accessed at: https://graphics.reuters.com/UKRAINE-CRISIS/SANCTIONS/byvrjenzmve/ (20/03/22)

24. See more details:

a. Bremner, Charles (2005). Mitterrand ordered bombing of Rainbow Warrior, spy chief says. July 11, 2005. The Times. London, UK. Accessed at:

https://www.thetimes.co.uk/article/mitterrand-ordered-bombing-of-rainbow-warrior-spy-chief-says-3kl9n65m8g2 (20/05/2022)

- b. NON. (2022). The bombing of the Rainbow Warrior. Greenpeace Aotearoa. Auckland, NZ. Accessed at: https://www.greenpeace.org/aotearoa/about/our-history/bombing-of-the-rainbow-warrior/ (28/06/2022)
- c. Agence France-Presse. (2015). 30 years on, French agent apologises for sinking Rainbow Warrior. September 7, 2015. France 24. Accessed at:

https://www.france24.com/en/20150906-france-rainbow-warrior-dgse-sinking-greenpeace (17/05/2022)

25. See more details:

a. Roach, Kent (2022). "Freedom Convoy" Occupation Highlights Canada's Security Challenges. February 14, 2022. Just Security - Reiss Center on Law and Security at New York University School of Law. Accessed at:

https://www.justsecurity.org/80204/freedom-convoyoccupation-highlights-canadas-security-challenges/ (10/03/22)

- b. Ling, Justin (2022). Canada was warned before protests that violent extremists infiltrated convoy. February 17, 2022. The Guardian News & Media Limited. Accessed at: https://www.theguardian.com/world/2022/feb/17/ottawa-protests-anti-terror-agency-warned-violent-extremists (20/03/22)
- c. Austen, Ian and Bilefsky, Dan (2022). Trudeau Declares Rare Public Emergency to Quell Protests. The New York Times Company. February 14, 2022. Accessed at: https://www.nytimes.com/2022/02/14/world/americas/justin-trudeau-emergencies-act-canada.html (16/03/22)

- d. Coletta, Amanda et al. (2022). Trudeau invokes Emergencies Act against Canada's 'Freedom Convoy' trucker protest. February 14, 2022. The Washington Post. Washington, DC. Accessed at:
- https://www.washingtonpost.com/world/2022/02/14/canadaottawa-trucker-protests-bridge/ (16/03/22)
- e. Fraser, David (2022). 'Freedom Convoy' assets to remain frozen through end of March. March 09, 2022. CBC News, Radio-Canada. Toronto, ON. Canada. Accessed at: https://www.cbc.ca/news/canada/ottawa/convoy-court-order-class-action-lawsuit-paul-champ-1.6379006 (12/03/22)
- f. Fraser, David (2022). Almost \$6M in Freedom Convoy money captured as months-long injunction ends. May 02, 2022. CBC News, Radio-Canada. Toronto, ON. Canada. Accessed at:
- https://www.cbc.ca/news/canada/ottawa/freedom-convoy-injunction-ends-money-captured-1.6438103 (10/05/22)
- g. Lawton, Andrew (2022). The Rise and Fall of the 'Freedom Convoy'. October 1, 2022. Quillette, Australia. https://quillette.com/2022/10/01/the-rise-and-fall-of-the-freedom-convoy/ (15/10/22)
- h. Yousif, Nadine (2022). Freedom Convoy: Ottawa 'lost control' of protests, mayor says. BBC News. Toronto, ON. Canada. Accessed at:
- https://www.bbc.com/news/world-us-canada-63181065 (18/10/22)
- i. Nardi, Christopher and Lévesque, Catherine (2022). OPP saw no evidence Freedom Convoy posed direct threat to national security: intelligence officer. October 19, 2022. Accessed at: https://nationalpost.com/news/politics/opp-sent-ottawa-police-intelligence-warning-freedom-convoy-would-stay-long-term (19/10/22)
- j. Slisco, Aila (2022). French President Emmanuel Macron Says Someone Who Refuses COVID Vaccine Is 'Not a Citizen'. January 5, 2022. Newsweek Digital LLC. Accessed at: https://www.newsweek.com/french-president-emmanuel-macron-says-someone-who-refuses-covid-vaccine-not-citizen-1665669 (5/01/22)
- k. NON. (2022). Macron's vow to 'piss off' the unvaccinated sparks outrage. January 5, 2022. France 24. Reuters AFP. Accessed at:

https://www.france24.com/en/france/20220105-macron-says-he-wants-to-piss-off-france-s-unvaccinated (5/01/22)

26. See more details:

a. Miller, Greg (2012). Plan for hunting terrorists signals U.S. intends to keep adding names to kill lists. October 23, 2012. The Washington Post. Washington, DC. Accessed at: <a href="https://www.washingtonpost.com/world/national-security/plan-for-hunting-terrorists-signals-us-intends-to-keep-adding-names-to-kill-lists/2012/10/23/4789b2ae-18b3-11e2-a55c-39408fbe6a4b story.html (28/05/22)

- b. Greenwald, Glenn (2012). Obama moves to make the War on Terror permanent. October 24, 2012. The Guardian News & Media Limited, UK. Accessed at:
- https://www.theguardian.com/commentisfree/2012/oct/24/oba ma-terrorism-kill-list (28/05/22)
- c. Greenwald, Glenn (2013). Chilling legal memo from Obama DOJ justifies assassination of US citizens. February 5, 2013. The Guardian, UK. Accessed at: https://www.theguardian.com/commentisfree/2013/feb/05/obama-kill-list-doj-memo (28/05/22)
- d. Shamsi, Hina (2014). Death Without Due Process. March 3, 2014. ACLU National Security Project. New York, NY. Accessed at: https://www.aclu.org/blog/national-security/targeted-killing/death-without-due-process (30/05/22)
- e. Friedersdorf, Conor (2014). A Ray of Sunlight on Obama's Extrajudicial Killings. June 24, 2014. The Atlantic Monthly Group. Washington, D.C. Accessed at: https://www.theatlantic.com/politics/archive/2014/06/a-ray-of-sunlight-on-obamas-extrajudicial-killings/373247/ (30/05/2022)
- f. Friedersdorf, Conor (2014). 7 Pages That Gave President Obama Cover to Kill Americans. August 18, 2014. The Atlantic Monthly Group. Washington, D.C. Accessed at: https://www.theatlantic.com/politics/archive/2014/08/7-pages-that-gave-president-obama-permission-to-kill-americans/378651/ (30/05/22)

27. See more details:

a. DOJ. (2005). Review of the Terrorist Screening Center. Audit Report 05-27. June, 2005. U.S. Department of Justice Office of the Inspector General Audit Division. Washington, D.C. Accessed at:

 $\underline{https://oig.justice.gov/reports/FBI/a0527/final.pdf}~(25/06/22)$

- b. DOJ. (2007). Review of the Terrorist Screening Center. Audit Report 07-41. September, 2007. U.S. Department of Justice Office of the Inspector General Audit Division. Washington, D.C. Accessed at:
- https://oig.justice.gov/reports/FBI/a0741/final.pdf (25/06/22)
- c. Wodinsky, Shoshana (2021). Secret FBI Watchlist Leaks Online, and Boy Do the Feds Think a Lot of People Are Terrorists. August 17, 2021. Gizmodo G/O Media Inc. New York, NY. Accessed at: https://gizmodo.com/secret-fbi-watchlist-leaks-online-and-boy-do-the-feds-1847500747 (20/05/22)
- d. Montalbano, Elizabeth (2021). Terrorist Watchlist Exposed Online with Nearly 1.9M Records. August 17, 2021. Threatpost Security News. Woburn, MA. Accessed at: https://threatpost.com/terrorist-watchlist-exposed-

online/168737/ (20/05/22) Credibility assessment: Moore, Michelle (2022). The Top Cyber Security Blogs and Websites of 2022. University of San Diego. San Diego, CA. Accessed at: https://onlinedegrees.sandiego.edu/top-cyber-security-blogs-websites/ (20/10/22)

- e. Shamsi, Hina (2018). The Government Is Blacklisting People Based on Predictions of Future Crimes. October 8, 2018. ACLU National Security Project. New York, NY. Accessed at: https://www.aclu.org/news/national-security/government-blacklisting-people-based-predictions (28/06/22)
- f. NON. (2021). Kashem, et al. V. Barr, et al. ACLU Challenge to Government No Fly List. April 7, 2021. ACLU National Security Project. New York, NY. Accessed at: <a href="https://www.aclu.org/cases/kashem-et-al-v-barr-et-al-aclu-challenge-government-no-fly-list?redirect=national-security/latif-et-al-v-holder-et-al-aclu-challenge-government-no-fly-list (28/06/22)
- g. Sulemaan, Ahmed (2016). Why are Canadian children still on no-fly lists and what can be done? June 27, 2016. The Globe and Mail Inc. Toronto, ON. Canada. Accessed at: https://tgam.ca/3DobtmN (30/06/22)
- h. Carbert, Michelle and Dickson, Janice (2019). Parents of kids wrongly flagged by no-fly list urge Senate to pass legislative changes quickly. May 6, 2019. The Globe and Mail Inc. Toronto, ON. Canada. Accessed at: https://www.theglobeandmail.com/politics/article-parents-of-kids-wrongly-flagged-by-no-fly-list-urge-senate-to-pass/ (30/06/22)
- i. Hadani, Ditmars (2018). Trapped on Canada's 'no-fly' list: 'It's a stigmatising experience'. January 10, 2018. Middle East Eye. London, UK. Accessed at: https://www.middleeasteye.net/features/trapped-canadas-no-fly-list-its-stigmatising-experience (30/06/22)
- j. Jaafari, Shirin and Maloney, Liam (2018). A 3-year-old held up by Canada's no-fly list? His parents say it's 'ridiculous.' February 28, 2018. The World PRX. Accessed at: https://theworld.org/stories/2017-11-30/3-year-old-held-canada-s-no-fly-list-his-parents-say-it-s-ridiculous (30/06/22)
- k. Ling, Justin (2018). Inside Tuscan: the other no-fly list Canada didn't tell you about. June 30, 2018. The Guardian News & Media Limited. UK. Accessed at: https://www.theguardian.com/world/2018/jun/30/canada-us-tuscan-database-no-fly-list-trudeau (30/06/22)
- 1. Burke, Ashley (2019). Families share their 'no-fly list' ordeals with Public Safety Minister Bill Blair. December 20, 2019. CBC News. Toronto, ON. Canada. Accessed at: https://www.cbc.ca/news/politics/canada-no-fly-list-kids-meeting-public-safety-minister-1.5403518 (30/06/22)
- **28.** Head, David (2022). Let's Not Revive Privateering to Take Russian Superyachts. The Bulwark. March 5, 2022. Bulwark Media. Accessed at: https://www.thebulwark.com/lets-not-revive-privateering-to-take-russian-superyachts/ (17/04/22)

29. See more details:

a. House Committee on Foreign Affairs (2022). Sponsor: Rep. Gooden, Lance [R-TX-5] (Introduced 02/28/2022) H.R.6869 - To authorize the President of the United States to issue letters of marque and reprisal for the purpose of seizing the assets of certain Russian citizens, and for other purposes. 117th Congress (2021-2022). Accessed at: https://www.congress.gov/bill/117th-congress/house-bill/6869/all-actions?s=1&r=42 and pdf https://www.govinfo.gov/content/pkg/BILLS-117hr6869ih.pdf (15/03/22)

b. GovTrack.us. (2022). Sponsor: Rep. Ronald, Paul [R-TX-14] (Introduced 10/10/2001) H.R. 3076 (107th): September 11 Marque and Reprisal Act of 2001. Accessed at: https://www.govtrack.us/congress/bills/107/hr3076 (15/03/22) Note: Died in a previous Congress. This bill was introduced on October 10, 2001, in a previous session of Congress, but it did not receive a vote. Although this bill was not enacted, its provisions could have become law by being included in another bill. It is common for legislative text to be introduced concurrently in multiple bills (called companion bills), reintroduced in subsequent sessions of Congress in new bills, or added to larger bills (sometimes called omnibus bills).

30. See more details:

- a. RFE/RL. (2022). Fiji Allows U.S. Seizure Of \$325 Million Superyacht Linked To Russian Kerimov. June 07, 2022. Radio Free Europe Radio Liberty. Accessed at: https://www.rferl.org/a/russia-superyacht-kerimov-seizure/31887247.html (19/07/22)
- b. Mangan, Dan (2022). \$325 million yacht seized from Russian oligarch Suleiman Kerimov sails to U.S. after Fiji court ruling. June 7, 2022. CNBC LLC NBCUniversal. Accessed at: https://www.cnbc.com/2022/06/07/yacht-seized-from-russian-oligarch-kerimov-sails-to-us-after-fiji-ruling.html (19/07/22)
- c. Ubilla, Francisco; Parra, Artiz and Balsamo, Michael (2022). US seizes yacht owned by oligarch with close ties to Putin. April 4, 2022. Associated Press News. New York, NY. USA. Accessed at: https://apnews.com/article/russia-ukraine-war-oligarch-yacht-seized-e8415972392839f818c5505aa93fc8a5 (10/05/22)
- d. Webster, Francesca (2022).Update on Russian yachts seized: 82m Alfa Nero searched in Antigua. May 27, 2022. SuperYacht Times B.V. Accessed at: https://www.superyachttimes.com/yacht-news/update-on-russian-yachts-seized (15/06/22)
- e. Duffy, Kate (2022). A Russian businessman's \$50 million superyacht was seized by the UK after mooring in London for an awards ceremony, government says. March 29, 2022. Insider Inc. New York, NY, USA. Accessed at: https://www.businessinsider.com/russian-businessman-superyacht-seized-uk-government-awards-ceremony-2022-3 (25/03/22)

- f. NON. (2022). Italy seizes yachts and villas from Russian oligarchs, say state sources. March 5, 2022. The Guardian News & Media Limited. UK. Accessed at: https://www.theguardian.com/news/2022/mar/05/italy-seizes-yachts-and-villas-from-russian-oligarchs-say-state-sources-ukraine-invasion-sanctions (15/03/22)
- g. NON. (2022). Here are the Russian superyachts sanctioned so far. April 6, 2022. Marine Industry News. Gosport, UK. Accessed at:

https://marineindustrynews.co.uk/here-are-the-russian-superyachts-sanctioned-so-far/ (10/05/22)

h. NON (2022). Dutch government impounds 14 Russian yachts in shipyards. April 6, 2022. Marine Industry News. Gosport, UK. Accessed at:

https://marineindustrynews.co.uk/dutch-government-impounds-14-russian-yachts-in-shipyards/ (10/05/22)

i. NON. (2022). Dutch impound six more boats with links to Russia, taking total to 20. April 13, 2022. DutchNews. Amsterdam. Accessed at:

https://www.dutchnews.nl/news/2022/04/dutch-impound-six-more-boats-with-links-to-russia-taking-total-to-20/ (10/05/22)

j. NON. (2022). France seizes two yachts owned by Russian oligarch. March 23, 2022. The Local Europe AB. Stockholm, Sweden. Accessed at:

https://www.thelocal.fr/20220323/france-seizes-two-yachtsowned-by-russian-oligarch/ (10/04/22)

31. NON. (2022). FBI Counterintelligence Program - Counterintelligence Division. Federal Bureau of Investigation. Accessed at:

https://www.fbi.gov/investigate/counterintelligence (10/08/22)

1.6 Observation end remarks

1. See more details:

- a. Baud, Jacques (2022). The Military Situation in the Ukraine. Centre Français de Recherche sur le Renseignement, Paris. Translated from the French by N. Dass. April 1, 2022. The Postil Magazine. Accessed at: https://www.thepostil.com/the-military-situation-in-the-ukraine/?print-posts=pdf (10/05/22)
- b. Dobbins, James at al. (2019). Extending Russia Competing from Advantageous Ground. RAND Corporation, Santa Monica, California, USA. Accessed at: https://www.rand.org/content/dam/rand/pubs/research_reports/RR3000/RR3063/RAND_RR3063.pdf (6/09/22)
- c. Baud, Jacques (2022). Kharkov and Mobilization. October 1, 2022. The Postil Magazine. Accessed at: https://www.thepostil.com/kharkov-and-mobilization/ and https://www.thepostil.com/kharkov-and-mobilization/?print-posts=pdf (15/10/22)

13. Hoffman, Frank. 2007. Conflict in the 21st Century: The Rise of Hybrid Wars. Potomac Institute for Policy Studies. Arlington, Virginia. p.22. Accessed at: https://www.potomacinstitute.org/images/stories/publications/ potomac hybridwar 0108.pdf (15/06/22)

2. Orientations

2.1 Orientational outline

- **32.** Richards, Chet (2020). Boyd's OODA Loop. Necesse Journal. 2020. Vol 5, Issue 1. FHS, Sjøkrigsskolen. p.143-144. Accessed at: https://fhs.brage.unit.no/fhs-xmlui/handle/11250/2683228 (25/08/22) Note: OODA loop, the loop does provide a concise framework for improving competitive power throughout an organization. [...] The acronym "OODA" stands for "observe, orient, decide, act [action]," and it is often depicted with the four elements arranged in a simple sequence.
- **3.** Robinson, James (1997). The Rommel Myth. September-October, 1997. Military Review, The Professional Journal of the US Army. Volume LXXVII. No 5. p.81. Accessed at: https://cgsc.contentdm.oclc.org/digital/collection/p124201coll1/id/429/ (20/06/22) **Note:** Operational art comprises four essential elements: time, space, means and purpose. Each element is found in greater complexity at the operational level than at the tactical or strategic level. This is true, in part, because operational art must consider and incorporate more of the strategic and tactical levels than those levels must absorb from the operational level.
- **33.** Menning, Bruce (1997). Operational Art's Origins. September-October, 1997. Military Review, The Professional Journal of the US Army. Volume LXXVII. No 5. p.32-37. Accessed at:

https://cgsc.contentdm.oclc.org/digital/collection/p124201coll 1/id/429/ (20/06/22) Notes: 1982 FM 100-5 appeared, it recognized three levels of war and asserted that "the operational level of war uses available military resources to attain strategic goals within a theater of war." 1982 FM-100-5 [focused] on the operational level..."sustained operations designed to defeat an enemy force in a specified space and time with simultaneous and sequential battles." 1986 FM 100-5...defined operational art..."the employment of military forces to attain strategic goals in a theater of war or theater of operations through the design, organization and conduct of campaigns and major operations."

34. Timothy Tomas, (2004). Russia's Reflexive Control Theory and the Military. The Journal of Slavic Military Studies Volume 17, Issue 2. Taylor & Francis Group. Oxfordshire, United Kingdom. p.249. Accessed at: https://www.tandfonline.com/doi/full/10.1080/135180404904 50529 (26/08/22)

2.2 Operational art in convergent environment

35. See more details:

a. Senate - Foreign Relations. 2022. Sen. Cornyn, John (R-TX) (Introduced 01/19/2022). All Information (Except Text) for S.3522 - Ukraine Democracy Defense Lend-Lease Act of 2022. U.S.A. 117th Congress 05/09/2022. Accessed at: https://www.congress.gov/bill/117th-congress/senate-bill/3522/all-info (15/10/2022)

b. PLAW. 2022. Text: S.3522 — 117th Congress (2021-2022). Sen. Cornyn, John [R-TX] (Introduced 01/19/2022). U.S.A. 117th Congress 05/09/2022. Accessed at: https://www.congress.gov/bill/117th-congress/senate-bill/3522/text and https://www.congress.gov/117/plaws/publ118/PLAW-117publ118.pdf (15/10/2022)

c. Christoph Bluth. 2022. America's massive 'lend-lease' aid plan for Ukraine recalls similar help in Britain's 'darkest hour' Published: May 12, 2022. The Conversation Media Group Ltd. Melbourne, Australia. Accessed at: https://theconversation.com/americas-massive-lend-lease-aid-

https://theconversation.com/americas-massive-lend-lease-aid-plan-for-ukraine-recalls-similar-help-in-britains-darkest-hour-182889 (15/10/2022)

f. Stellino, Molly (2022). Fact check: False claim that President Zelenskyy sold huge amount of land in Ukraine to US companies. USA Today - eu.hawkcentral.com. Accessed at:

https://eu.hawkcentral.com/story/news/factcheck/2022/09/13/fact-check-ukraines-president-did-not-sell-farmland-us-companies/7942775001/ (01/10/2022)

36. See more details:

- a. Still, Jonathan (2012). Resurrecting Letters of Marque and Reprisal to Address Modern Threats. March, 2012. United States Army War College. p.3. Accessed at: https://apps.dtic.mil/sti/pdfs/ADA590294.pdf (16/06/22)
- b. Kempe, Michael (2010). Even in the Remotest Corners of the World: Globalized Piracy and International Law, 1500-1900. November, 2010. Journal of Global History. Volume 5, Issue 3. Cambridge University Press. p.353-372.
- c. Marshall, Kevin (1997). Putting Privateers in Their Place The Applicability of the Marque and Reprisal Clause to Undeclared Wars. 64:953. The University of Chicago Law Review. Chicago, Illinois. USA. Accessed at:

https://chicagounbound.uchicago.edu/cgi/viewcontent.cgi?article=5638&context=uclrey (20/07/22)

d. Stark, Francis (1897). The Abolition of Privateering and the Declaration of Paris. Volume VIII. No. 3. p.47-136. Columbia University. New York. NY. Accessed at: https://ia600208.us.archive.org/19/items/abolitionofpriva00sta ruoft/abolitionofpriva00staruoft.pdf (17/04/22)

e. Grotius, Hugo (2006). De jure praedae commentarius - Commentary on the Law of Prize and Booty. Liberty Fund, Inc. Indianapolis, Indiana. p.31-497. Accessed at: http://files.libertyfund.org/files/1718/1350_LFeBk.pdf (17/04/22)

2.3 Principles of war in convergent environment

37. Vego, Milan 2010 Military History and the Study of Operational Art. JFQ - Joint Force Quarterly. Issue 57, 2 Quarter 2010. NDU - National Defense University Press. Washington, DC. Accessed at: https://www.benning.army.mil/MSSP/PDF/vego_operational

https://www.benning.army.mil/MSSP/PDF/vego_operational_art.pdf (28/07/22)

3. Decisions

3.2 Decision segment case design

- **38**. Krepinovich, Andrew (2002), The Military-Technical Revolution: A Preliminary Assessment. New edition: 1992-2002. CSBA Center for Strategic and Budgetary Assessments. Washington, DC. p.46-49. Accessed at: https://csbaonline.org/uploads/documents/2002.10.02-Military-Technical-Revolution.pdf (10/03/22)
- **39**. Durham, Richard (1997). Operational Art in the Conduct of Naval Operations. September 15, 1997. School of Advanced Military Studies. US Army Command and General Staff College. Fort Leavenworth, Kansas. p.5. Accessed at: https://apps.dtic.mil/sti/pdfs/ADA340139.pdf (19/07/22)
- **40**. Liang, Qiao and Xiangsui, Wang (1999). Unrestricted Warfare. PLA Literature and Arts Publishing House. Beijing. p.136. Accessed at: https://www.c4i.org/unrestricted.pdf (10/06/22)