

**Forum:** North Atlantic Treaty Organization(NATO)

**Issue:** Addressing concerns regarding weapons of mass destruction in the new digitalized age.

**Chair:** Nelson Hsu , Secretary

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## Introduction

Throughout the entire course of human history, information has always been of limited and scarce resources. The average peasant in the middle ages knew little about how to craft a sword or in any regards anything but farming. However, the advent of the internet, creating a new digitized pool of information, has revolutionized our grasp of information. Now with just a mere simple phone and a wifi router, someone as far and distant in the desert of Ethiopia can now watch a youtube video sourced from the United States, or anywhere in the world.

This digital revolution has undoubtedly set off a wave of both opportunities and challenges. On the one hand, the internet has been a beacon of hope and progress. It has facilitated the rapid transmission of medical information, potentially saving countless lives in the process. Social media platforms and online forums have become potent tools for raising awareness about global issues, advocating for social change, and changing communities. On the other hand, this digital age has a more sinister side. The emergence of the 'dark web,' a term coined by many modern day scholars, acts as a modern day internet blackmarket, where criminals, drug traffickers, and terrorists exchange illegal goods and information.

This digitized revolution is critically relevant when considering Weapons of Mass Destruction (WMDs) in our digitized era. The same global network that enables an Ethiopian villager to access educational content also allows a potential terrorist to obtain information on creating WMDs, posing a grave threat to global security and our liberal world order today.

## Definition of Key Terms

## **North Atlantic Treaty Organization (NATO)**

Established after World War II, the North Atlantic Treaty Organization (NATO) was originally an economic aid program to support war-torn nations' revitalization. As the values of the Soviet Union (USSR) and the United States of America (USA) began drifting apart, the economic pact between Western European countries and the USA grew not only to be a security pact to prevent a resurgence of Germany but also serves as a blockade to prevent the spread of communism into Western Europe. One of the most important parts of the treaty that the founding 12 countries agreed upon is the idea that an attack against one is an attack against all. This arrangement of collective defense not only put Western Europe under the protection of the "Nuclear Umbrella" of the USA, but it also prevented further Soviet influence on the continent (North).

*The Following Definition of NATO above was taken from: Chair report Issue 2*

## **Weapons of Mass Destruction (WMDs)**

Weapons of Mass Destruction (WMDs) are divided into three types: nuclear, chemical, and biological. Nuclear reactions are the source of the enormous destructive power of nuclear weapons, such as the atomic bombs detonated on Hiroshima and Nagasaki. On the other side, chemical weapons use poisonous materials to inflict damage or result in deaths; these materials are more lethal when employed frequently. Disease-causing organisms, such as the anthrax bacteria, are used in biological warfare. Because of their extreme potential for destruction, WMDs are a major concern for international security and are regarded as such by organizations like NATO.

## **Cybersecurity**

Cybersecurity is the practice of protecting internet-connected systems, including their hardware, software, and data, from hackers during Cyberattacks. In relation to WMDs, it plays a critical role in preventing unauthorized access(i.e terrorist organizations) to nuclear command, and top secret manufacturing details. Past examples include incidents such as the Stuxnet computer worm attack, which attacked an Iranian nuclear facility in 2010, disrupting their nuclear development process.

## **Non-Proliferation**

Non-Proliferation is the act of deliberately preventing the proliferation of nuclear weapons , best demonstrated through the Non-Proliferation treaty(NPT). Countries such as Japan who have signed the

NPT have committed to not developing a nuclear weapons program despite their ability to do so. But problems occur when nations like Iran and North Korea pursue nuclear programs in violation of NPT regulation. Maintaining world non-proliferation is still a core issue at NATO.

## **Disarmament**

Disarmament is the process of decreasing or becoming free of weaponry, especially WMDs. The Strategic Arms Reduction Treaty (START) between the US and the USSR, as well as South Africa's dismantling of its nuclear weapons program (both in the 1990s) are two historical examples of disarmament. The objectives of these initiatives are to increase global peace and security and reduce the likelihood of a potential nuclear conflict.

## **Digitalization**

The process of converting information into a digital format. In the context of WMDs, digitalization can refer to the integration of digital technologies into weapons systems or the use of digital platforms to spread information about such weapons.

## **Arms Control**

Arms control, like disarmament, entails taking international action to control the development, production, stockpiling, and use of weapons, particularly WMDs. The Intermediate-Range Nuclear Forces (INF) Treaty is one prominent instance. Europe's security was improved by the treaty's substantial reductions in nuclear and conventional missiles. But difficulties like noncompliance and allegations of treaty breaches by the US and Russia ultimately resulted in the treaty's dissolution in 2019.

## **Terrorism**

The unlawful use of violence and intimidation, especially against civilians, in the pursuit of political aims. In the context of WMDs, there is a significant concern about terrorist groups acquiring such weapons.

## **Additive Technologies**

In the context of WMDs in the digital age, additive technologies refer to manufacturing techniques like 3D printing, which can build intricate objects from digital designs layer by layer. The possibility of

these technologies being abused to create WMD components is a cause for concern. For instance, 3D printers could circumvent conventional manufacturing controls and export limitations by producing parts for nuclear weapons or delivery systems.

## **Background Information**

### **Brief history of WMDs**

The usage of chemical weapons, such as mustard gas and chlorine, throughout World War I is credited with starting the history of weapons of mass destruction (WMDs). This led to the 1925 Geneva Protocol, which outlawed the use of chemical and biological weapons in war. The first use of Nuclear war was when the U.S. dropped Atomic bombs on Hiroshima and Nagasaki in 1945, setting the stage for an alarming escalation during World War II. This ushered in a period of nuclear arms race, mainly between the United States and the Soviet Union during the Cold War. This is best exemplified during the Cuban Missile Crisis, which was the height of nuclear tension during the Cold War. To prevent such events from ever happening, the NPT was signed by multiple countries in 1968. Although they are less common, biological weapons prompted the 1972 Biological Weapons Convention (BWC), and persistent worries about chemical weapons resulted in the 1993 Chemical Weapons Convention (CWC), which reflects ongoing international efforts to prevent the use of these potent arsenals.

### **The Digital Age and its impact on WMDs**

The rise of the digital age has revolutionized many aspects of our lives, including the role of weapons of mass destruction (WMDs). This new era is characterized by rapid technological advancements in artificial intelligence (AI), cybersecurity, and additive manufacturing (3D printing), each playing a crucial role in the development, proliferation, and security of WMDs, with some playing both a positive and negative part on this issue.

#### **The importance of cybersecurity systems**

In recent years, it has become progressively clear how crucial cybersecurity is to safeguarding critical infrastructures like nuclear plants from online attacks. These facilities' recent digitalization has created new weaknesses that could be used in cyberattacks to gain unauthorized access, steal confidential information, or cause sabotage.

The nature of cyber risks are constantly evolving due to hackers creating new methods to get around established security systems and the requirement for ongoing monitoring and advancement of cybersecurity measures, which are two important factors contributing to the significance of the cybersecurity system. For instance, the Office of Nuclear Regulation in the United Kingdom has emphasized the continued need to reinforce cybersecurity throughout the nuclear industry. In order to maintain a high level of security in the face of evolving cyber threats, this proactive approach is essential.

In the United States there has been a focus on studying and addressing the cyber vulnerability of nuclear power plants. The country's early adoption of information technology in industrial control systems has created a set of vulnerabilities. While older facilities that are less connected may have vulnerability, facilities with increased interconnectivity and reliance on digital systems raise the risk of cyberattacks. To safeguard against threats, cybersecurity measures are employed in US nuclear power plants. These measures include isolating control systems, strict control over media and equipment monitoring internal personnel activities and implementing cybersecurity controls to protect critical components. These measures play a role in reducing the risks associated with cyberattacks that could disrupt power generation or result in radiological releases.

At the international stage, there are varying degrees of attitudes towards cybersecurity in nuclear programs. One such international organization, the International Atomic Energy Agency (IAEA) has produced guidance and recommendations for cyber protections on nuclear facilities; However, these are not strictly enforced and are up to the discretion of each country.

An instance that demonstrates the magnitude of these cybersecurity risks is the Stuxnet attack that targeted Iran's nuclear program in 2010. A highly skilled computer worm/virus was purposefully used by the United States to interfere with and destroy Iran's uranium enrichment operations. This cyberattack not only seriously damaged the centrifuges at the Natanz facility physically, but it also showed how dangerous cyberattacks can be to a country's vital nuclear infrastructure and, even scarier, how they can be used to steal important secret knowledge about producing nuclear weapons.

### **The rise of additive manufacturing in WMD production.**

In the context of WMDs, additive manufacturing, or 3D printing, has extreme power that goes beyond simply printing a 3d model for a school project. It presents a real threat to established export laws and safeguards because it signifies a change in the way that vital parts of these weapons could be made. Nonetheless, there are serious security risks associated with this advancement. WMD components,

which were previously restricted to extremely controlled environments, can now be replicated anywhere with the appropriate equipment thanks to the ease with which digital designs can be shared globally. Since it is getting harder to control and monitor the spread of these technologies and the components they produce, it directly challenges efforts to prevent nuclear proliferation.

This technological advancement is not without its consequences. On the one hand, additive manufacturing presents an array of possibilities for useful, non-violent applications, including major applications in the industrial and medical areas. On the other hand, existing export regulation and non-proliferation frameworks need to be reexamined in order to address the new realities brought about by digital manufacturing. In response to these challenges, there is a growing chorus advocating for international cooperation as well as the development of new frameworks that are capable of effectively addressing the unique threats that additive manufacturing poses in the context of WMDs.

### **International legal framework and diplomatic efforts**

The legal frameworks and diplomatic efforts surrounding the control of WMDs have been essential components in the field of international security. The international community's response to WMDs has been greatly influenced by important treaties and agreements, including the Biological Weapons Convention (BWC), Chemical Weapons Convention (CWC), and Nuclear Non-Proliferation Treaty (NPT). The NPT seeks to prevent the spread of nuclear weapons and to advance peaceful nuclear energy; the CWC forbids the creation, manufacture, storage, and use of chemical weapons; the BWC similarly deals with biological weapons. Each of these treaties has a specific objective.

### **Problems with existing international legal frameworks**

But in the era of digitalization, people are questioning these frameworks' efficacy more and more. These traditional treaties might not be able to fully address the new challenges brought about by the rapid advancement of technology, particularly in the areas of cyber capabilities and digital manufacturing. For example, the emergence of cyberwarfare raises the possibility of cyberattacks on nuclear sites, which are not specifically covered by the NPT. In a similar vein, the development of technologies such as additive manufacturing (3D printing) may be utilized to evade the controls envisioned by the CWC and BWC by producing parts for chemical and biological weapons.

This dynamic setting illustrates how vital it is for these international agreements to change and adapt. It's becoming more and more obvious that these treaties' scopes need to be expanded in order to specifically address the digital challenges of WMD proliferation and control. Furthermore, since traditional approaches might not be sufficient in the face of cutting-edge digital technologies, the international community needs to think of new ways to monitor compliance.

## **Major Countries and Organizations Involved**

### **United States**

One of the main contributors to reducing the threats posed by WMDs has been the United States. Since it developed WMD first in history, the US has kept a sizable stockpile of the weaponry. The U.S.'s role goes beyond its borders, as it contributes to global security through various partnerships and multilateral organizations. The U.S. Departments of Energy and State are particularly involved in these efforts, leading programs for nuclear, chemical, and biological threat reduction and offering technical assistance.

### **Russia**

With its large stockpile of WMDs, Russia plays an important role in cybersecurity and the reduction of WMD threats worldwide. The country's historical and current involvement in WMD reduction projects, particularly in line with the US, underscores its importance in this regard. Russia has been accused of using chemical weapons even though it has ratified the Chemical Weapons Convention (CWC), making its position in international negotiations more difficult. Because of its expanded cyber capabilities, Russia is heavily involved in international efforts to contain and control WMD.

### **China**

China's cooperation and support as a rising global power is important in the areas of cybersecurity and WMDs. Due to its increasing advancements in technology and geopolitical impact, the country is a key player in negotiations and actions of WMDs and digital security. China, with its successes in cyber capabilities and its support of countries such as Russia in the field of WMDs, is at the heart of problems and solutions for addressing the threats posed by WMDs in the digital age.

### **North Korea (DPRK)**

North Korea is an example of a country that, despite joining the NPT, has violated international law by acquiring nuclear weapons and missile capabilities. The country's emphasis on cyber activities, which are primarily targeted at financial gain and gaining top-secret information, has made it a major threat to NATO. North Korea's cyber capabilities might potentially be utilized for cyber warfare, endangering not only regional stability (such as South Korea), but also global security. The DPRK's hidden biological weapons programs, as well as its continuous development of nuclear and missile capabilities, make it a crucial target for international efforts to combat WMD threats.

### European Union (EU)

The EU is an important player in the global effort to combat WMD proliferation, using its position as a major provider of humanitarian assistance and leader of international efforts the EU's foreign policy strategy in general includes a focus on digital communications and security to help it effectively address WMD problems. The EU's efforts to promote cultural diversity, as well as its anti-propaganda stance, are also important elements of its counter-WMD strategy. As a union of diverse member states, the EU brings a common voice and action to the world stage, influencing the course of international security policy and practice.

### International Organizations (UNODA, OPCW)

Organizations such as the United Nations Office for Disarmament Affairs (UNODA) and the Organisation for the Prohibition of Chemical Weapons (OPCW) play critical roles in managing WMD concerns around the world. These organizations promote multilateral efforts to strengthen nonproliferation of weapons of mass destruction and support applicable international treaties. Their collaboration with multilateral organizations and specialized agencies improves the efficacy of disarmament initiatives. These institutions play critical responsibilities in ensuring worldwide security, particularly in the face of growing WMD threats and technological breakthroughs in the digital age.

## Timeline of Events

Date	Description of event
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July 1st, 1968	The Non-Proliferation Treaty (NPT) is signed, marking a significant international commitment to prevent the spread of nuclear weapons and technology.
May 22nd, 1972	Strategic Arms Limitation Talks (SALT I) lead to the signing of the Anti-Ballistic Missile (ABM) Treaty, control agreements focusing on WMDs.
September 23rd, 1983	The Bhopal disaster, a chemical weapon-grade accident, highlights the catastrophic potential of chemical technologies when mishandled
April 20th, 1996	The Comprehensive Nuclear-Test-Ban Treaty (CTBT) is adopted by the United Nations General Assembly
June 17th, 2010	The Stuxnet computer worm is discovered

## Relevant UN Resolutions and Treaties

- United Nations Security Council Resolution 2325, 15 December 2016 (**S/RES/2325**)
- United Nations Security Council Resolution 1977, 20 April 2011 (**S/RES/1977**)
- NATO Policy on Cyber Defence, June 2011 (**NATO**)
- NATO Comprehensive Strategic-Level Policy for Preventing the Proliferation of Weapons of Mass Destruction (WMD) and Defending Against CBRN Threats, June 2009 (**NATO**)
- United Nations Security Council Resolution 1673, 27 April 2006 (**S/RES/1673**)
- United Nations Security Council Resolution 1540, 28 April 2004 (**S/RES/1540**)
- Treaty on the Non-Proliferation of Nuclear Weapons, 1 July 1968 (**NPT/CONF.2020/1**)

## Possible Solutions

**Enhanced International Collaboration and Information Sharing**

Under the Biden Administration, the Department of Homeland Security (DHS) has made international cooperation a priority in order to strengthen the security of nuclear and radioactive materials and combat terrorism with WMDs. The DHS is taking a multipronged effort in this regard. In order to prevent, lessen, and effectively respond to WMD threats, it entails both enhancing current capabilities and creating new ones. This all-encompassing approach requires the incorporation of state-of-the-art technologies and risk analysis procedures, hence augmenting the group's capacity to predict, comprehend, and mitigate possible weapons of mass destruction situations. Furthermore, carrying out in-depth risk studies is a crucial part of this strategy. The development of successful counter-WMD strategies is dependent on these assessments. They consist of gathering and carefully reviewing threat information, which is essential for spotting any weak points and averting WMD attacks. The DHS understands the critical role that data-driven decision-making plays in enhancing WMD security. Through utilizing the knowledge obtained from strong analytical procedures, the organization hopes to create focused plans that deal with the particular intricacies of the WMD threat environment.

The DHS's approach emphasizes how important international collaboration is in this area. There is no country that can eliminate all the risks associated with WMDs on its own in a world where threats are becoming more international. The cooperative endeavors encompass the exchange of intelligence, optimal methodologies, and technical innovations. In order to create a strong global architecture that can withstand WMD threats, information and resource exchange across state borders is essential. This will help create a united front against these existential threats.

### **Development and Implementation of Advanced Technology**

Developing Advanced Anti-Cyber Technology is a pivotal framework as regards to addressing Weapons of Mass Destruction in a new digitized age. The 2023 Department of Defense (DOD) Strategy for Countering Weapons of Mass Destruction (CWMD) delineates a sophisticated approach emphasizing the role of advanced technology development and implementation in safeguarding against chemical, biological, radiological, and nuclear (CBRN) threats. This strategy, far from being a mere blueprint of defensive measures, represents a forward-thinking vision that integrates the latest scientific and technological advancements into the core framework of national and international security. A key aspect of this strategy is the development of credible options to deter WMD use. This involves not just the

traditional show of military might, but also the deployment of advanced technologies that can detect, neutralize, or render such weapons ineffective. For instance, the creation of highly sophisticated detection systems that can identify and track the movement of WMD materials provides a powerful deterrent by closing the gaps through which these materials could be smuggled or deployed. This strategy is not only a blueprint but a living document backed by tangible, ongoing projects and initiatives that showcase the DoD's commitment to leveraging cutting-edge technology in the realm of national security.

Moreover, creating technological alternatives to discourage the use of WMDs is a crucial part of this strategy. Investing in sophisticated detection and surveillance systems is one prominent example. These systems improve the capacity to monitor and detect illicit WMD materials and activities with higher accuracy and speed. They frequently incorporate AI and machine learning techniques. An illustration of this strategy is the Global Nuclear Detection Architecture (GNDA), a framework for the detection and reporting of radioactive and nuclear materials. The goal of the GNDA is to prevent the illegal trafficking of nuclear and radiological items by combining several detecting systems with information-sharing networks.

### **The regulation and control of emerging technologies**

One crucial area of concentration in the fight against the proliferation of WMDs is the regulation and control of developing technologies, especially additive manufacturing (3D printing), which has applications in delicate industries like nuclear weapons production. Because of the possible risks involved in the digital distribution of build files that could be misused to create WMD components, this aspect of security is becoming more and more important. In light of the spread of WMD, additive manufacturing poses a variety of risks. If unapproved parties gain access to digital construction files for nuclear or other WMD components, it may result in the covert production of these weapons. This worry is grounded in reality; the Kansas City National Security Campus, for example, has been producing non-nuclear nuclear weapon components using 3D printing for more than ten years, saving a substantial amount of money. Although the technology is remarkable in its potential to speed the production process, it also emphasizes the need for strict control mechanisms over digital assets of this nature.

Numerous actions are being taken and are being discussed at different levels in response to these dangers. Encrypting important digital files and establishing strong cybersecurity standards are two

examples of such measures. This method guarantees that the contents of files remain unreadable by unauthorized users, even in the event that they are intercepted. International agreements and norms controlling the transfer and use of such technology are also becoming more and more important. Strict export regulations, end-user verification, and surveillance tools can all be required by these agreements to guarantee that the technology and its results are only put to peaceful uses. Another illustration is the laws governing the additive manufacturing sector itself, which force producers to have policies in place to prevent the unapproved printing of certain components. Programs that identify and prevent the printing of limited designs or the usage of specially designed, strictly regulated materials are examples of this.

## Questions for Further Research

- How has the advent of digital technology, particularly in areas like artificial intelligence and cyber warfare, altered the landscape of WMD proliferation and defense?
- What are the specific risks associated with the use of additive manufacturing (3D printing) in the development and proliferation of WMDs, and how can these be mitigated?
- In what ways can international legal frameworks such as the Nuclear Non-Proliferation Treaty (NPT) be updated to address the challenges posed by digital technologies in the context of WMDs?
- How can global cybersecurity measures be strengthened to protect critical infrastructure, especially nuclear facilities, from cyber threats?
- What role can international cooperation and diplomacy play in addressing the challenges of WMD proliferation in the digital age?
- How effective are current international monitoring and compliance mechanisms in the face of advanced digital technologies, and what improvements are needed?
- What are the ethical implications of using emerging technologies like AI in national defense strategies, particularly in relation to WMDs?
- How can nations balance the need for technological advancement in defense with the imperative to prevent WMD proliferation and maintain global security?

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