



NATO Foundation
Defense College



GAME CHANGERS 2020:
A New Future Dawns on International Security
Rome, the 10th and the 11th of December 2020



Fondazione
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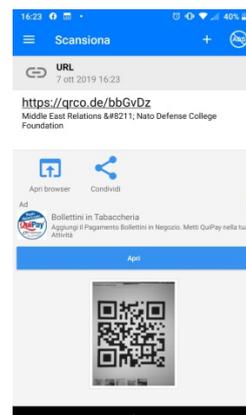
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GAME CHANGERS 2020:

A New Future Dawns on International Security

Advanced Research Workshop

Organised by the NATO Defense College Foundation

In co-operation with the NATO Science for Peace and Security Programme, Fondazione Compagnia di San Paolo, Policy Center for the New South and the NATO Defense College

Rome, the 10th and the 11th of December 2020

Venue: Live streamed from the Rome Cavalieri, A Waldorf Astoria Hotel, Via Alberto Cadlolo, 101, Rome

THURSDAY, 10TH OF DECEMBER 2020

15,00 – 15,10 CET

Welcome Remarks

- **Alessandro Minuto-Rizzo**, President, NATO Defense College Foundation, Rome **
- **Olivier Rittmann**, Commandant, NATO Defense College, Rome **

15,10 – 15,20 CET

Opening Remarks

Ian Lesser, Vice President; Executive Director, Transatlantic Center, The German Marshall Fund of the United States, Brussels *

15,20 – 16,40 CET

CONVERSATION
CLIMATE CHANGE AND SCARCE RESOURCES: RISING CONFLICTS

Climate change and resources scarcity are two scenarios that become increasingly relevant. The effects of climate change, like rising sea waters, desertification and increasing heat in wide geographic areas, and frequency of extreme thunderstorms, may have significant influence on essential logistics and combat operations. Water is the next paramount issue, traditionally linked to the control of flows on major rivers and now creating possible flashpoint around new dams. Finally, the control of arable land and associated basic crops recreates another important object of international and subnational contention, as it was for centuries when agriculture was man-intensive.

Moderatori: **Roberto Menotti**, Editor in Chief, Aspenia online; Deputy Editor of Aspenia and Senior Advisor for International Activities, Aspen Institute Italia, Rome **

- **Stefano Silvestri**, Vice President, NATO Defense College Foundation, Rome **
- **Mahmoud Karem**, Professor, British University; former Ambassador to NATO and the EU, and Commissioner, Human Rights Council, Cairo *
- **Kidane Kiros**, Senior Fellow, Policy Center for the New South, Rabat *
- **Vincenzo Camporini**, Former Italian Defense Chief of Staff **

Q&A Session

18,00 – 19,30

CONVERSATION
THE SECURITY-HEALTH NEXUS AND THE TRANSATLANTIC RELATIONSHIP

The NATO Strategic Concept includes health risks as factors that will further shape the security environment and potentially affect NATO planning and operations. What are the main political and operational lessons from the pandemic crisis? How can contingents deployed operations alleviate complex health emergencies in fragile countries? How is the pandemic affecting the USA-Europe relationship and how to enhance this multifaceted and historical cooperation after the crisis?

Moderator: **Stephen J. Mariano**, Dean, NATO Defense College, Rome **

- **Frediano Finucci**, Journalist, La7 Television **
- **Daniele Riggio**, Press Officer; and former NATO Political Advisor in Afghanistan, NATO HQ, Brussels *
- **Jamie Shea**, Former Spokesperson of NATO, Overijse (BE) *
- **Andrew Spannaus**, Journalist and Political Commentator **

19,30 – 19,40 CET

Special Intervention

Francesco M. Talò, Permanent Representative of Italy to the North Atlantic Council, NATO HQ, Brussels *

END OF THE FIRST WORKING DAY

FRIDAY, 11TH OF DECEMBER 2020

15,00 – 16,30 CET

DEBATE: PROS VS. CONS
ARTIFICIAL INTELLIGENCE AND GLOBAL SECURITY: THE CUTTING EDGE

AI promises to change deeply not only the way decision makers and organisations will operate in future political and security environments, but even the way international politics and conflicts will be conceived. The effect of Artificial Intelligence can be particularly disruptive in three strategic areas: the way deterrence is exercised and upheld, how autonomous weapon systems will combat in support of conventional forces or alone, and by which means it can enhance the complexity and tempo of offensive and defensive cyber operations.

Moderator: **Laura Carpini**, Head of Cyber Department, Directorate General of Political and Security Affairs, Italian Ministry of Foreign Affairs and International Cooperation **

- **Peter Nielsen**, Associate Professor, Aalborg University, Aalborg (DK) *
- **Andrea Gilli**, Senior Researcher in Military Affairs, NATO Defense College, Rome **
- **Roberto Manca**, 4th Department of the Air Force Staff, Rome **
- **Stéphan Brunessaux**, Senior Expert, Artificial Intelligence and Data Analytics, Airbus Defence and Space, Elancourt (FR)*

Q&A Session

16,30 – 16,40 CET

Concluding Remarks

Piero Fassino, President, Foreign Affairs Committee, Chamber of Deputies, Rome *

END OF THE SECOND WORKING DAY

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GAME CHANGERS 2020:

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POLICY BACKGROUND PAPER

The international security arena is increasingly and rapidly marked by issues that are transnational and complex. The Foundation's Game Changers 2020 Dossier (<https://www.natofoundation.org/game-changers-2020-dossier>) has offered a balanced and diverse overview on 12 pivotal security issues that will change profoundly the global strategic dynamics. In this conference we have singled out three of them: climate change, the security-health nexus and artificial intelligence.

Climate change is unfortunately a fact and it is remarkable that in some important US companies almost half of the stakeholders declare their interest about environmental, social and governance (ESG) investments, signalling that this is not a purely political issue. The debate on how major countries are not reaching their objectives pledged in the 2015 climate Paris Agreement and if even agreed measures are sufficient to avoid an irreversible warming of the planet is still ongoing: China is evidently a partner to reckon with, considering its level of emissions. On the other hand, NATO has already to face concrete problems.

First of all, climate is indeed inextricably intertwined with the scarcity of water, arable land and sufficient crops' yield because warmer temperatures favour on one hand a process of desertification, and on the other extreme rainfalls that wash away fertile soil. This has since long been pinpointed as a recipe for local and international conflicts (e.g. water wars and several land conflicts in Latin America, Africa and Asia) and has been a historical object of contention. Then, as shown by repeated debates in the US Congress, all major bases of the four services are already affected by unfavourable climate changes. Naval bases could be unserviceable with rising waters, for instance. Finally, logistics, especially expeditionary ones, are heavily influenced by the availability of drinkable water and edibles.

The nexus between security and health has been, since more than a year, explored by the Foundation and it has been clearly shown by the present pandemic. Nevertheless, its wider implications on the transatlantic relationship have still to be assessed beyond past media debates. One area is of course a coordinated action and reaction vis-à-vis diplomatic forays by competing powers (Beijing's mask diplomacy or the targeted medical missions of Moscow), but the other is how to strengthen political and operational mechanisms within NATO and with the European Union. It is clear that the initial reaction may be considered satisfying, but it is far from perfect and systemic. A vigorous coordinated policy in terms of controlling high security biolaboratories in the framework of the Biological Weapons Convention needs to be devised and enacted. At the same time, vastly diverging approaches in managing the pandemic at national level are defensible with the sovereignty argument, but unhelpful against a transcontinental disease that impacts global trade to say the least. Finally, NATO's out of area missions have been quite effective in retaining operational capabilities and in supporting local populations, but again the sanitary chain needs to take full stock of the lessons.

One week ago, the Chinese Jiǔ zhāng (Nine Chapters) quantum computer established a new computational record, completing a complex task in some 600 seconds against the 600 million years needed by the fastest conventional computer, and overtaking the precedent result of the quantum Sycamore Google machine. These technological milestones are some of the elements necessary to build the future Artificial Intelligence environment. That AI might be desirable in abstract is clear in a vast number of defence and security sectors: multimedia intelligence analysis, encipher and decipher, automatic surveillance, automated/autonomous defence and attack systems, scenario and predictive analysis, cyberwarfare, criminal intelligence, for instance.

What is still largely uncharted water is the man-machine interaction with very high-speed operations, in other words how can an operator still be the indispensable decision-making element in the loop. Some precedents are not exactly encouraging, as it happened with highly automated air defence systems that shot down civil aircraft or fired against friendly ships or with highly automated financial systems creating major problems.

It is evident that, regarding strategic deterrence decisions also in the cybersphere, current AI error rates might be considered unacceptable vis-à-vis the risk of an accidental nuclear exchange or of an unintended catastrophic international shutdown of critical infrastructures. Moreover, the prospect of having fully autonomous weapon systems might raise the reasonable issue of a new arms control regime.

More than even the challenges for the international community and the wisdom of major decision-makers are unprecedented and complex.

Alessandro Politi

Director, NATO Defense College Foundation



GAME CHANGERS 2020:

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CONCEPT

The panorama of global security is changing in a profound way. International security is experiencing an unprecedented rise in complexity because, on the one hand, all usual issues that have arisen after the end of the Cold War remain current. On the other hand, issues that are crosscutting and involve both public and private actors have an increasingly growing importance in the international agenda and are confirming a long-standing evolution of security towards a multidimensional nature, including societal resilience.

Three subjects stand out for their concrete relevance: Climate Change with competition for Scarce Resources, Health in its Transnational implications and Artificial Intelligence (AI). While each subject merits a full conference on its own, the goal of this event is to put them with more clarity in the international security context and sketching some of their reciprocal correlations.

Climate change and Resources Scarcity is much more than protest movements. A fast paced and intense conversation will discuss: how foreseeable climate change is a strategic variable; what is the impact of these changes on the control and competition for water resources in crisis areas (a practical case is the controversy on the new Nile dam) or on energy shifts, and finally how crop scarcity, land grabbing and droughts can affect food production and hence migratory crises and regional conflicts.

The second conversation will try to grapple with complex emergencies that revolve around the protection of health beyond national borders, as already anticipated by the NATO Strategic Concept (para. 15.). The panel will assess how the link between security and health must be managed in war zones, non-state actors' operations and man-made catastrophes (epidemics and pandemics), both at a conceptual and practical level. This means on the one hand evaluating the role of contingents deployed in stabilisation operations during complex health emergencies; on the other hand, it is important to understand the impact of repeated epidemics or pandemics on international security and on collective

resilience. Finally, one should consider the possible rise of a new bio-warfare in its different forms due to considerable technological advances and to the risks inherent in the gain of function research, that experiments with enhanced viral pathogens for scientific/commercial purposes sometimes outside approved laboratories and supply channels.

After this part a specialist on autonomous weapons will offer an over the horizon view on this very relevant subject.

Finally, there will be a debate on the pros and cons of artificial intelligence. AI (among other initiatives, the projects of developing systems endowed with the intellectual processes characteristic of humans, such as the ability to reason, discover meaning, generalize, or learn from past experience), apart from media hype, is beginning in its early stages to have an impact on political and hence on security processes. Clear examples are: computer-controlled processes in influencing electoral audiences, recognise visual patterns for intelligence and security tasks and systems capable to correlate intelligently vast amounts of unstructured data. Through the debate the speakers will explore Artificial Intelligence and its impact on international security, including deterrence management, autonomous systems and cyber operations.



GAME CHANGERS 2020:
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SPEAKERS' BIOGRAPHIES

THURSDAY, 10TH OF DECEMBER 2020

WELCOME REMARKS

Alessandro Minuto-Rizzo

President, NATO Defense College Foundation, Rome

After having served at the Italian Embassy in Washington D.C. and as Commercial Counsellor at the Embassy of Italy in Prague, Amb. Minuto-Rizzo worked as Head of the External Relations Office of the EEC from 1981 to 1986. In the next years, his career focussed on Europe and Space Policy. In 1997 he was appointed Diplomatic Counsellor of the Minister of Defence Nino Andreatta, then of his successors Carlo Scognamiglio and Sergio Mattarella. In 2000, Minuto-Rizzo held the position of Italian Ambassador to the Western European Union and to the Political and Security Committee of the EU, of which he was among the founding members. He was Deputy Secretary-General of the Atlantic Alliance between 2001 and 2007. His mandate was mostly carried out in the strategic-political industrial area, in the relations with sensitive countries such as those in the Gulf and the Southern Mediterranean. He is the author of the books: "The road to Kabul" (Il Mulino-Arel, 2009); "A political journey without maps, diversity and future in the Greater Middle East" (Rubbettino, 2013), and "NATO and the Middle East: The Making of a Partnership" (New Academia Publishing, 2018).

Olivier Rittimann

NATO Defense College, Rome

Since July 2020, Lieutenant General Rittimann is the Commandant of the NATO Defense College in Rome. After graduating from the Military Academy of Saint Cyr and the Army Engineer School, he chose to serve with the Foreign Legion and he took part to operations in Chad, Mayotte, Pakistan, Saudi Arabia and Iraq. After an operational tour at the NATO-led Stabilization Force in Bosnia and Herzegovina (SFOR) in 1997, he was assigned in 1998 to the Allied Forces North Headquarters in Brunssum. In 2001, he took command of the 1st Foreign Legion Engineer Regiment and, in 2003, was assigned to the French Embassy in Islamabad as Defence Attaché. Then, he was posted to the Joint Staff in Paris, as Chief of the NATO branch. Promoted Brigadier General in 2010, he was deployed to the International Security and Assistance Force (ISAF) from January 2011 to January 2012 as Chief of Operations and assigned as French Deputy Military Representative (MILREP) to NATO Headquarters. Following, he became the French National Military Representative to NATO's Allied Command Operations in Mons (Belgium) and in 2016 got promoted to Major General. One year later, was appointed Lieutenant-General.

OPENING REMARKS

Ian Lesser

Vice President; Executive Director, Transatlantic Center, The German Marshall Fund of the United States, Brussels (Virtual)

Ian Lesser is Vice President at The German Marshall Fund of the United States (GMF) and a member of GMF's executive team, managing programmes across the organisation. He also serves as Executive Director of the Transatlantic Center, the Brussels office of the GMF, and leads the GMF's work on the Mediterranean, Turkey, and the wider Atlantic. Prior to joining GMF, Dr Lesser was a public policy scholar at the Woodrow Wilson International Center, as well as Vice President and Director of studies at the Pacific Council on International Policy. He spent also over a decade as a Senior Analyst and Research Manager for RAND Corporation. From 1994 to 1995, he was a member of the Secretary's Policy Planning Staff at the U.S. Department of State, responsible for Turkey, Southern Europe, North Africa, and the multilateral track of the Middle East peace process. He is a member of the Council on Foreign Relations, the International Institute for Strategic Studies, and the Pacific Council on International Policy. He serves on the advisory boards of the Delphi Economic Forum, the Atlantic Dialogues, the NATO Defense College Foundation and the Turkish Policy Quarterly.

CONVERSATION

CLIMATE CHANGE AND SCARCE RESOURCES: RISING CONFLICTS

Roberto Menotti

Editor in Chief, Aspenia online; Deputy Editor of Aspenia and Senior Advisor for International Activities, Aspen Institute Italia, Rome

Roberto Menotti is the Editor in Chief of Aspenia online as well as the Deputy Editor and Senior Advisor for International Activities of the Aspen Institute Italia. Before joining Aspen Institute Italia, in 2002, he was Deputy Director of the Rome based Centro Studi di Politica Internazionale (CeSPI). His articles have been published on international magazines such as the Journal of International Relations and Development, Middle East Quarterly, The International Spectator, Rivista Italiana di Scienza Politica, Teoria Politica and Limes. He is author of three books. From 2011 to 2014 Mr Menotti has been an op-ed commentator for the daily newspaper *Il Messaggero* and since 2014 for *Il Mattino*. He taught undergraduate courses in international relations, security studies, and international journalism at Luiss University, John Cabot University, La Sapienza, and Rome University. Additionally, Mr Menotti has been a lecturer at the NATO Defence College and at Wilton Park (UK).

Stefano Silvestri

Vice President, NATO Defense Collage Foundation, Rome

Dr Silvestri is the Vice President of the NATO Defense College Foundation. From 2001 to 2013, he has been the President of the International Affairs Institute (IAI). He has been a lead writer for *Il Sole 24 Ore* since 1985. Between January 1995 and May 1996, he served as Italian Under Secretary of State for Defence, having been an advisor to the Under Secretary of Foreign Affairs, for European matters, in 1975, and a consultant to the Prime Minister's Office under various Governments. As a professional journalist, he has been a special correspondent and columnist for the *Globo* (1982), member of the Policy Committee of the *Europeo* (1979), and has contributed articles on foreign and defence policy to numerous national daily papers. He was Professor for Mediterranean Security Issues at the Bologna Centre of the Johns Hopkins University (1972-1976), and has worked at the International Institute for Strategic Studies in London (1971-1972). He is currently a member of administrative council of the Italian Industries Federation for Aerospace, Defence and Security (AIAD) and of the Trilateral Commission.

Mahmoud Karem

Professor, British University; former Ambassador to NATO and the EU, and Commissioner, Human Rights Council, Cairo (Virtual)

Ambassador Karem currently teaches at the British University in Egypt. He also holds the title of Special Advisor to the President of the University for International Relations and leads the Egypt and Middle East Centre (CEMES) in Cairo. He served as Ambassador of the Arab Republic of Egypt to the Kingdom of Belgium, and the Grand Duchy of Luxembourg; Head of Mission of Egypt to the European Communities; and Permanent Representative of Egypt to NATO, from 2005 till 2010. He was also a member of the Advisory Board of the Secretary General of the United Nations for Disarmament Matters. From 2010 to 2012 he was nominated for three consecutive times to the post of Secretary General of the Egyptian National Council for Human Rights (NCHR). In July 2017, the Foreign Minister of Japan announced the establishment of a group of eminent persons for substantive advancement in nuclear disarmament: Ambassador Karem was chosen from the Middle East.

Kidane Kiros

Senior Fellow, Policy Center for the New South, Rabat (Virtual)

Dr Kiros is currently Professor-Researcher at Mohammed VI Polytechnic University's Faculty of Humanities, Economics and Social Sciences and Senior Fellow at the Policy Centre for the New South in Rabat. From 2014 till 2019, Dr Kiros served as the Director of the Institute for Peace and Security Studies (IPSS) of Addis Ababa University (AAU) which has been rated among the top 50 think-tanks in sub-Saharan Africa in 2015, 2016, 2017 and 2018. Before joining IPSS, Dr Kiros taught in various AAU's faculties and served as acting Director of the Institute of Federal Studies as well as Senior Administrator and Finance Head for Continuing and Distance Education at the AAU. Furthermore, he worked with humanitarian organisations, including the Ethiopian Red Cross Society and the International Federation of Red Cross/Crescent as a member of the Eastern Africa Regional Working Group on Food Security (WGFS). Dr Kiros holds a PhD degree in Development Studies.

Vincenzo Camporini

Former Italian Defence Chief of Staff

General Camporini is a Scientific Advisor for the International Affairs Institute (IAI) in Rome. Enlisted in the Air Force Academy in 1965, he rose through the ranks to eventually take up the highest office of Chief of Staff of the Italian Air Force (2006-08) and Chief of Defence Staff (2008-11). General

Camporini has dealt with the most topical issues of international politics as a scholar and academic, focusing on the political-military dimension of the European Union and the development of its ability to use the military instrument in the framework of its external relations. Among other things, he was President of the Centre for High Defence Studies in Rome (2004-06) and Vice President of the IAI (2011-19). General Camporini graduated in Aeronautical Sciences at the University of Naples Federico II and in International and Diplomatic Sciences at the University of Trieste.

CONVERSATION

THE SECURITY-HEALTH NEXUS AND THE TRANSATLANTIC RELATIONSHIP

Stephen J. Mariano

Dean, NATO Defense College, Rome

Stephen J. Mariano was appointed Dean of the NATO Defense College in January 2019. Prior he was Professor of National Security Studies at the National Defense University's National War College. Dr. Mariano taught military strategy and comparative military systems at the U.S. Military Academy at West Point, as well as politics and U.S. foreign policy at the Royal Military College of Canada. Formerly, he was U.S. Army War College Visiting Defense Fellow at Queen's University's Center for International Relations, U.S. Army's Senior Fellow at Harvard University's Weatherhead Center for International Affairs and M.I.T. Seminar XXI Fellow. He acted as Deputy Director of Strategy, Plans, and Assessments at the Multinational Security Transition Command-Iraq, where he liaised with the NATO Training Mission in Iraq, and as Military Advisor to NATO's Senior Civilian Representative in Afghanistan. He also served as Strategic Plans and Policy Officer within NATO's International Military Staff in Brussels and at the U.S. European Command in Stuttgart.

Frediano Finucci

Journalist, La7 Television

Frediano Finucci is a senior TV journalist, chief editor of the Economics-Foreign Affairs desk at La7 broadcaster where he also hosts the TV Programme "Omnibus". Previously, for the same TV channel, he was the Chief Editor of the Economic section, the manager for the nightly news outlet and the Chief Editor of the Foreign Affairs section. From 2003 to 2006, Mr Finucci was correspondent in Brussels and Special News and Economic correspondent in Italy and abroad (United States and Asia). In 2009 was also appointed Chief Editor of the "Otto e Mezzo", the popular prime time news-program

anchored by Lilli Gruber. Since 1992 he has worked for different media as a judicial reporter on the “Mani Pulite” (clean hands) enquiry. Mr Finucci holds a degree in History of International Relations from the “Cesare Alfieri” School of Political Sciences in Florence.

Daniele Riggio

Press Office; and former NATO Political Advisor in Afghanistan, NATO HQ, Brussels (Virtual)

Daniele Riggio is Press Officer in the Press and Media Section of the Public Diplomacy Division, at NATO Headquarters. Between 2003 and 2004, he was in Afghanistan as Political Advisor to the Commander of the NATO-led International Security Assistance Force (ISAF) and in 2008, he was appointed Senior Political Advisor to the NATO Senior Civilian Representative in Afghanistan. In 2005 he assisted the NATO Civilian Representative in Pakistan. Prior to that Mr Riggio was Civil Affairs Officer for the United Nations Special Mission to Afghanistan and took part in various OSCE-led missions. He holds a Juris Doctor degree from the Law School of Bologna University and a Master Degree on International Relations from the Fletcher School of Law and Diplomacy of Tufts University (Medford, MA, USA).

Jamie Shea

Former Spokesperson of NATO, Overijse (BE) (Virtual)

Since 2018 Jamie Shea serves as Secretary-General of the Global Advisory Council on Climate Change (GMACCC). Among his other affiliations he is professor of strategy and security within the Strategy and Security Institute at the University of Exeter. Additionally, Dr Shea is a senior fellow responsible for Security and Defense programs at Friends of Europe and a Senior Advisor with the European Policy Centre, both based in Brussels. From 1980 to 2018, Dr Shea was a member of the International Staff of NATO in Brussels. His last position was Deputy Assistant Secretary General for Emerging Security Challenges where he was responsible for taking NATO’s work forward in areas such as non-proliferation of weapons of mass destruction, cyber defense, counterterrorism, and energy security. He oversaw strategic analysis and forecasting as well as the NATO Science for Peace and Security program, which develops and funds capacity-building, and technology projects with NATO’s partner countries across the globe. He received worldwide attention during the 1999 Kosovo War, when he served as the Spokesperson for NATO. He holds his B.A. (Hons.) in Modern History and French from the University of Sussex (1977) and his D.Phil. in Modern History from Lincoln College, Oxford (1981).

Andrew Spannaus

Journalist and Political Commentator, Milan

Andrew Spannaus is an American journalist and political commentator based in Italy, known in particular for his analysis on the populist revolt in the United States and Europe. His commentary on U.S. and international politics appears on Rainews24, Swiss Italian Radio, Aspenia, and various other media outlets. He is the founder of the Transatlantico.info newsletter, which provides news and analysis of geopolitics and economics to institutions and businesses. Andrew Spannaus is a Lecturer at the ASERI Graduate School of the Catholic University in Milan, where he teaches a seminar on U.S. economic history. He served as the Chairman of the Milan Foreign Press Association from 2017 to 2020.

SPECIAL INTERVENTION

Francesco M. Talò

Permanent Representative of Italy to the North Atlantic Council, NATO HQ, Brussels (Virtual)

Ambassador Francesco M. Talò is an Italian diplomat, and Italy's Permanent Representative at the North Atlantic Council. He has previously been Coordinator for Cybersecurity at the Italian Ministry of Foreign Affairs; Ambassador of Italy to the State of Israel; Special Envoy of the Minister of Foreign Affairs for Afghanistan and Pakistan and Consul General in New York. From 2017 till 2018, he coordinated the OSCE Conference against anti-Semitism. Ambassador Talò graduated in Law from La Sapienza University of Rome.

FRIDAY, 11TH OF DECEMBER 2020

DEBATE: PROS VS. CONS

ARTIFICIAL INTELLIGENCE AND GLOBAL SECURITY: THE CUTTING EDGE

Laura Carpini

Head of Cyber Department, Directorate General of Political and Security Affairs, Italian Ministry of Foreign Affairs and International Cooperation

Minister Plenipotentiary Laura Carpini is the Head of the Cybersecurity Department in the Political and Security Affairs Directorate General of the Ministry of Foreign Affairs in Rome. She joined the Italian

Foreign Service in 1994. From 1998 until 2002 she was appointed Vice Consul and then Deputy Consul at the Consulate General of Italy in New York. She served in Cuba as Deputy Head of Mission at the Embassy of Italy until 2006. As Human Rights Director until 2010, and led to success, in 2007, the first resolution on the moratorium of executions at the UN General Assembly. The last positions she held were in India, as First Counsellor Head of the Political and Consular Sections in New Delhi, in Ghana as Ambassador, also credited to Togo, from 2012 to 2016 and in Florence, as Diplomatic Advisor to the Mayor, from 2017 to 2019. She received the honour of Officer Knight in the Order of Merit of the Italian Republic. Since February 2017, she is a member of the Scientific Committee on “International Relations” of the Università per Stranieri in Perugia. Minister Laura Carpinì is a passionate promoter of gender equality and she is President the Association of female members of the Italian Foreign Service, DID.

Peter Nielsen

Associate Professor, Aalborg University, Aalborg (DK) (Virtual)

Peter Nielsen is Associate Professor at the Department of Materials and Production. He is a leading expert on AI for autonomous decision making for large scale cyber-physical systems. He has published more than 130 scientific publications. He is Head of Operations Research group at the Department of Materials and Production and Coordinator for AAU Defence, which is Aalborg University’s unit for Defence related research. He is a founding member of the European Defence Skills Partnership and work package lead on the 4 M€ project ASSETS+ (Alliance for Strategic Skills addressing Emerging Technologies in Defence) which focuses on AI and C4ISR skill development for the European Defence Industry.

Andrea Gilli

Senior Researcher in Military Affairs, NATO Defense College, Rome

Andrea Gilli is a Senior Researcher at the NATO Defense College where he works on issues related to technological change and military innovation. In the past, Dr Gilli has been visiting and Post-Doctoral Fellow at Johns Hopkins University and Columbia University as well as at the Stanford University and Harvard University. Dr Gilli has conducted research for the U.S. Department of Defense; the Italian Air Force; the Italian Government, the Italian Ministry of Foreign Affairs; the Preparatory Commission for the Strainer Nuclear Test-Ban Treaty Organization; the Royal United Services Institute, the European Union Institute for Security Studies, and Metropolitan University Prague, among others. His researches have been published in the most important academic journals on security issues, such as

International Security, Security Studies and Journals of Strategic Studies. Furthermore, he has been featured in the Washington Post, Foreign Policy and the Economist receiving multiple awards: the 2015 European Defence Agency and Egmont Institute's bi-annual prize for the best dissertation on European defence, security and strategy, and the 2020 best research article award on U.S. foreign policy and grand strategy as part of the America in the World Consortium. Dr Gilli holds a BA in Politics and Economics from the University of Turin, a MSc in International Relations from the London School of Economics and Political Science and a PhD in Social and Political Science from the European University Institute.

Roberto Manca

4th Division of the Air Force Staff, Rome

Roberto Manca is an Italian Air Force officer, working at the Air Force Staff in Rome. He graduated from the University of Naples in Computer Science Engineering. Before being posted to the Air Force Staff, he served in the Italian Air Force Flight Test Wing, where he covered many roles in aircraft systems development and flight test on over one hundred projects. His main areas of interests have been avionics software, human-machine interfaces, modelling and simulation, sensors, equipment and datalink integration, certification and airworthiness on over 30 aircraft. He also holds a Master in International Military Strategic Studies, a Master in Business Administration and a Master of Science in Scientific Computation.

Stéphan Brunessaux

Senior Expert in Artificial Intelligence and Data Analytics, Airbus Defence and Space, Elancourt, France (Virtual)

Stéphan Brunessaux is Senior Expert in Artificial Intelligence and Data Analytics at Airbus Defence and Space in Elancourt (France). For the last 30 years, he has actively contributed to the development of innovative solutions, for the benefit of the Connected Intelligence division, with solutions based on advanced information processing techniques. He has been involved on advanced technology demonstrators for the French Minister of Defense and NATO Industrial Advisory Group on Big Data and Artificial Intelligence. He also coordinated and/or participated to several EU research projects on speaker identification, image and video analysis, internet voting, webpage filtering. Dr Brunessaux has been regularly appointed as an expert for the French National Research Agency and for SAFE and Cap Digital competitiveness clusters, as a member of the High-Level Expert Group on Artificial Intelligence set up by DG Connect, and as a member of the Cybersecurity AI expert group set-up by the European Union Cybersecurity Agency. He is an active member of the French association for Artificial

Intelligence and the organizer of different conferences on Artificial Intelligence (APIA 2020, FIIA 2020, etc.).

CONCLUDING REMARKS

Piero Fassino

President, Foreign Affairs Committee, Chamber of Deputies, Rome (Virtual)

Piero Fassino is the President of the Foreign Affairs Committee of the Italian Chamber of Deputies. He has been elected for the first time in 1994, re-elected in all the following legislatures until 2011 - when he became mayor of Turin (2011-2016) - and elected again to Parliament in 2018. Currently he is also a member of the Parliamentary Assembly of the Council of Europe and Vice-President of the Political Commission, President of the Italy-France friendship section of the Inter Parliamentary Union. Under-Secretary of State for the Ministry of Foreign Affairs (1996-1998 in the Prime Minister Prodi government) and, in the same period, Under-Secretary for European Union Policies to the Prime Minister; Minister of Foreign Trade (1998-2000 in the Prime Minister D'Alema government); Minister of Justice (2000-2001 in the Prime Minister Amato government). From 1991 to 1996 he held the role of International Secretary of the Democratic Party of the Left, leading it in the joining to the Socialist International and in the foundation of the European Socialist Party. From 2016 to March 2020, he was President of the Socialist Group and spokesman for the Mediterranean at the Congress of Local Authorities of the Council of Europe.

THE NATO FOUNDATION

The NATO Defense College Foundation, the only existing think-tank bearing the name of the Alliance, was established in Rome in 2011. It grew out from a common intuition of the President Alessandro Minuto-Rizzo and the NATO Defense College top decision makers who understood the value of a non-profit NGO that could work beyond usual and institutional outreach, training, communication and scientific research activities.

The principles stated in the preamble to the Washington Treaty of 1949 are our heritage.

Our mission is to promote the culture of stability and well-being in the North Atlantic area and in NATO partner nations.

Our aim is to meet the highest standards in contributing to public debate and future deliberations on strategic, security and geopolitical issues.

Therefore, the NDCF strives at considering relevant issues not just in a descriptive or prescriptive way, but by catching the sense of events and the essential vectors of future developments. In a word: Charting ahead.

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