BRAZIL-EU CYBER CONSULTATIONS
PREVENTING CONFLICT IN CYBERSPACE

November 21, 2019
Itamaraty Palace, Rio de Janeiro, Brazil

Amid a proliferation of threats posed by the use of information and communications technologies in the context of international security, building an open, free, and secure cyberspace has become a major challenge in global governance. Addressing this challenge, Brazil and the European Union (EU) have taken steps to build resilient networks and shape regional and global rules for responsible state behavior, including through joint efforts in their strategic partnership established in 2007. Brazil is drafting a new national cybersecurity strategy to harmonize various legislative and policy initiatives, and plays a leading role in promoting international norms on cybersecurity and digital rights. Brazil submitted several resolutions to the United Nations and assumed the chair of the UN Group of Governmental Experts (UNGGE) twice (2014-2015; 2019-2021), helping the group to produce its most critical substantive report in 2015. Finally, Brazil has made cooperation on technology policy and the digital economy a top priority of its one-year chair of the BRICS grouping, whose heads of state gathered in Brasilia in mid-November 2019. Similarly, the EU has facilitated its member states' efforts to promote cyber norms and resilience by establishing guidelines for capacity building in the EU Cybersecurity Strategy published in 2013 and the Network and Information Security Directive adopted in 2016. It enhanced cooperation on cyberconflict prevention, deterrence, and sanctions in the EU Cyber Diplomacy Toolbox adopted in 2017 and created an EU cybersecurity certification framework in the Cybersecurity Act approved by the European Parliament in March 2019. EU institutions and member states have also addressed online disinformation and championed digital rights.

As democracies, Brazil and the EU share an interest in building an open, free, and secure cyberspace as well as the capacity and global normative framework to jointly achieve this goal. They have engaged in an ICT/Information Society Dialogue since 2010 and a Cyber Dialogue/Dialogue on International Cyber Diplomacy since 2017. While the former has focused on aligning both sides' digital economies, the latter has addressed questions related to cybersecurity. Agreeing that international law applies to cyberspace and that norms of responsible state behavior need to guarantee fundamental human rights, both sides are committed to advance governments' understanding and consensus on how exactly it applies and what capacities are required to effectively and transparently implement cyber norms. To advance this agenda, Brazil and the EU have to navigate a norms-building process that has become highly fragmented across private and public sectors at the national, regional, and global level. More fundamentally, joint efforts to build an open, free, and secure cyberspace are confronted with the recent rise of increased digital surveillance and repression, and a growing reluctance to promote regional integration and liberal values in Europe and Latin America.

Against this background, the EU Cyber Direct Project and the Institute for Technology & Society of Rio organize *Brazil-EU Cyber Consultations* on Preventing Conflict in Cyberspace. The consultations seek to (1) enhance mutual understanding of the evolving cyber diplomacy postures in Brazil and the EU, (2) identify convergences in the diplomatic positions on future negotiations on an open, free, and secure cyberspace, and (3) build bridges between multiple stakeholders in Brazilian and EU cyber diplomacy by including non-governmental voices in the governmental norms-building processes. Taking place between the first substantive meeting of the Open-Ended Working Group in September and the first UNGGE meeting in December 2019, the consultations bring together a group of experts from Brazil and the EU to discuss positions on cyber norms, diplomacy and strategies to avoid conflict in cyberspace.

Agenda

November 20

18:00   Informal Dinner

November 21

8:30-9:00   Registration and welcome coffee

9:00-9:30   ## Welcome
Rosa BALFOUR
Senior Fellow, The German Marshall Fund
Celina Bottino BEATRIZ
Director, Institute for Technology & Society of Rio

Opening Remarks
H.E. Ignacio YBÁÑEZ
Ambassador of the European Union in Brazil

9:30-10:00   ### Keynote and Q&A: Brazil's vision for peace in cyberspace
H.E. Guilherme PATRIOTA
Chair of the United Nations Group of Governmental Experts

10:00-11:30   ### Panel 1: Building cyber resilient societies and states
Brazil and the EU have made substantial investments to increase their cyber resilience and acknowledged that the protection of digital rights is a precondition for a peaceful cyberspace. This panel serves to compare their assessments of main cyber threats to international security and the key instruments they developed to build cyber resilience, including through legislation, capabilities and strategies. Brazilian and EU governmental experts illustrate their experience and best practices with detecting threats and shaping and coordinating policies to build state and societal resilience through tools such as certification. Non-governmental experts will provide analysis of the key drivers of and impediments to effective cybersecurity policy.

Speakers
Luciane DE ANDRADE OLIVEIRA SALES
Technical Advisor, Department of Information Security, Presidency of Brazil
Sara GARCIA MUNOZ
Programme Officer, Service for Foreign Policy Instruments Regional Team Americas, Delegation of the EU to Brazil
Virgilio ALMEIDA
Faculty Associate, Berkman Klein Center for Internet and Society, Harvard University, and Emeritus Professor of Computer Science, Federal University of Minas Gerais
Paul TIMMERS
Visiting Research Fellow, Oxford University, and former Director, Digital Society, Trust and Cybersecurity, European Commission

Chair
Hannes EBERT
Senior Advisor, The German Marshall Fund

11:30-12:00   Coffee Break

12:00-13:30   Panel 2: Promoting responsible behavior in cyberspace globally

The failure of the 2016-2017 UNGGE to reach consensus and the ensuing split into two diplomatic tracks to address global cybersecurity challenges highlighted the salience and politicization of the UN cyber norms-building process. Brazil and EU member states contributed significantly to previous UNGGEs' success of establishing consensus that international law applies to cyberspace and is essential to promote an open, secure, peaceful and accessible ICT environment. Both sides also committed to achieve progress in the Open-ended Working Group and UNGGE to affirm this consensus and further clarify how specific international legal regimes and rules apply to cyber operations. This panel will discuss the applicability of regimes and rules relevant for peacetime cyber operations such as sovereignty, attribution, human rights, non-intervention and countermeasures, as well as those relevant for wartime cyber operations such as self-defence and international humanitarian law. It will also identify joint measures to bolster implementation of and adherence to cyber norms and to bridge the gaps between various cybersecurity norms-building initiatives.

Speakers
Marcelo CÂMARA
Head, Disarmament and Sensitive Technology Division, Ministry of Foreign Affairs, Brazil
H.E. Luís BARREIRA DE SOUSA
Ambassador for Cyber Diplomacy, Ministry of Foreign Affairs, Portugal
Barrie SANDER
Postdoctoral Fellow, Fundação Getúlio Vargas
Anna-Maria OSULA
Senior Policy Officer, Guardtime, and Senior Researcher, Tallinn University of Technology

Chair
François DELERUE
Researcher, Institute for Strategic Research (IRSEM)

13:30-14:30   Lunch

14:30-16:00   Panel 3: Working together to prevent conflict in cyberspace

Brazil and the EU are developing toolboxes for preventing, attributing and diplomatically responding to malicious cyber activities, including through public attribution, sanctions, and confidence-building measures. The panel will discuss the broader Global North and South perspectives on these issues. Panelists will be asked to share their views on how Brazil and the EU can work together to pursue a more secure and peaceful cyberspace rooted in norms of responsible state behavior and international law.

Speakers
Karla CAVALCANTI
Project Manager, Ministry of Science, Technology, Innovation and Communication
Ene VISNEV
Policy Officer, European External Action Service
Louise Marie HUREL
Researcher, Igarapé Institute, and PhD Candidate, London School of Economics
Patryk PAWLAK
Brussels Executive Officer, European Union Institute for Security Studies

Chair
André BARRINHA
Senior Lecturer, University of Bath

16:00-16:30   Coffee Break

16:30-17:45	Panel 4: Developing fit-for-purpose cyber capacities

A key part of implementing cyber norms and preventing conflicts in cyberspace involves building cyber capacity. Brazil and the EU invested in building political, technical, institutional and regulatory capacity to increase resilience against cyberattacks by state and non-state actors, as well as to maximize their ability to benefit from the spread of new technologies, including by assisting other states to develop national cybersecurity strategies, set up national CERTs/CSIRTs, and increase critical infrastructure protection and awareness. Panelists will share best practices of strengthening capacities of various policy communities – political, legal and technical – while protecting fundamental rights, including through public-private partnerships, and identify specific ways to enhance joint cybersecurity capacity building. The panel will also address how countries can integrate cybersecurity capacity building into broader national development and digital transformation strategies, and link global cybersecurity capacity building to human rights and development initiatives, in particular the 2030 SDGs.

Speakers
Cristine HOEPERS
General Manager, CERT.br
Manon van TIENHOVEN
Program Manager, Global Forum on Cyber Expertise
Monica HERZ
Associate Professor, Institute of International Relations, PUC-Rio
Caitriona HEINL
Director and Founder, The Azure Forum for Contemporary Security Strategy

Chair
Christian PERRONE
Google Public Policy Fellow, Institute for Technology & Society of Rio

17:45-18:00	Conclusions

Celina Bottino BEATRIZ
Director, Institute for Technology & Society of Rio
Gustav LINDSTROM
Director, European Union Institute for Security Studies

About EU Cyber Direct & Its Partners

The EU Cyber Direct project was established to broaden the European Union's dialogues on cyber resilience, norms and CBMs with strategic partners, including Brazil. The project conducts research and facilitates dialogues among governmental and non-governmental cyber experts by organizing workshops in Europe as well as partner countries. The goal is to discuss in a more informal setting effective ways to jointly build a free, open, and secure cyberspace. It also seeks to disseminate knowledge on the EU's cybersecurity and internet governance policies and build bridges across regions and sectors. The EU Cyber Direct project is funded by the European Commission under its Partnership Instrument Action *International Digital Cooperation – Trust and Security in Cyberspace*. It is jointly implemented by GMF, the European Union Institute for Security Studies and Stiftung Neue Verantwortung.

The Institute for Technology & Society of Rio is a non-profit organization that works to ensure that Brazil and the Global South respond creatively and appropriately to the opportunities provided by technology in the digital age, and that the potential benefits are broadly shared across society. Through its own research and in partnership with other institutions, ITS Rio analyzes the legal, social, economic, and cultural dimensions of technology, and it advocates public policies and private practices that protect privacy, freedom of expression, and access to knowledge. The institute also offers innovative methods of education, training and opportunities for individuals and institutions. Finally, ITS Rio aims at strengthening Brazilian, Latin American, and Global South voices in international debates on technology, the Internet, and their regulation.

Biographies

Virgilio ALMEIDA is a professor emeritus of Computer Science at the Federal University of Minas Gerais (UFMG). He is also Faculty Associate at the Berkman Klein Center at Harvard University. Virgilio received his PhD degree in Computer Science at Vanderbilt University, a Master's degree in computer science at PUC-Rio and a bachelor degree in Electrical Engineering from UFMG. He held visiting positions in several universities and research labs, such as Harvard University (School of Engineering and Applied Sciences), New York University, Boston University, Santa Fe Institute and HP Research Labs. Virgilio was the National Secretary for Information Technology Policies of the Brazilian government from 2011 to 2015. He was the chair of the Brazilian Internet Steering Committee (CGI.br) from 2011 to 2016. He was also the chair of NETmundial, the *Global Multi-stakeholder Conference on the Future of Internet Governance,* that was held in Sao Paulo in 2014. Virgilio is currently one of the commissioners of the Global Commission for the Stability of Cyberspace (cyberstability.org/). Virgilio is member of the Brazilian Academy of Sciences (ABC) and the World Academy of Sciences (TWAS).

Pedro AUGUSTO is a senior researcher at the Igarape Institute, on the Cybersecurity and Digital Liberties Program. He is a Ph.D. Candidate in Cultural Anthropology at the Federal University of Rio de Janeiro, holds a Master's degree in Cultural Anthropology and a Bachelor's degree in Law. Pedro worked as a Project manager and Researcher at the Center for Technology and Society at FGV Law School in Rio de Janeiro from 2009 to 2018. His research lies at the intersection of Anthropology of Science and Technology, Economic Anthropology, and Political Anthropology. Currently, his main research interests are national security, privacy and surveillance.

Rosa BALFOUR is a senior transatlantic fellow at The German Marshall Fund of the United States and a member of the Steering Committee of WIIS-Brussels (Women in International Security). In September 2018, she was awarded a ten-month non-resident fellowship on Europe's Futures at the Institute for Human Sciences in Vienna. Her fields of expertise include European politics, institutions, foreign and security policy, and international relations. She has researched and published widely on issues relating to European politics and international relations, especially on relations with the Mediterranean region, Eastern Europe, and the Balkans, EU enlargement, and on the role of human rights and democracy in international relations. Currently, her focus is on the nexus between domestic politics and foreign policy in Europe.

H.E. Luis BARREIRA DE SOUSA was born in 1957 in Lisbon. He studied Political Economy at the Portuguese Catholic University in Lisbon (1975-80) followed by postgraduate studies in International Relations at Johns Hopkins University, Bologna Campus (1980-81) and Sciences Po in Paris (1982-83). In 1984, he joined the Foreign Service and then he was Junior diplomat in Harare and in Luanda from 1989 to 1995. After a few years as Deputy Permanent Representative in Geneva (1995-97), he became Deputy Director-general for National Defense Policy MoD (1997-99). He was Head of Mission in Sarajevo from 1999 to 2003, Consul-General in San Paulo from 2003 to 2006 and Deputy Permanent Secretary MFA from 2007 to 2008. From 2009 to 2012 he was Head of Mission in Dili and then in Bangkok, with jurisdiction over Cambodia, Laos, Malaysia, Myanmar and Vietnam (2013-2015). He has been Ambassador for Cyberdiplomacy since 2016.

Alesandro BARRETO is the Coordinator, SEOPI Cyber Operations Laboratory, Ministry of Justice and Public Safety, Brazil. He obtained his law degree from Regional University of Cariri in 1998 and pursued postgraduate training in law at the Federal University of Piauí. From 2005 to 2016, he served as Director of the Intelligence Subsystem Unit of the Piauí State Public Security Secretariat. Alesandro was part of the Working Group that revised the National Doctrine of Public Security Intelligence. He also taught courses on cyber intelligence as professor at SENASP and SEOPI and the Civil Policy Academy of Public Security Intelligence and Police Investigation Disciplines. He was Visiting Professor at the Latin American

Autonomous University of Medellin in Colombia (UNAULA) and at the Schools of Magistracy of Mato Grosso, Paraíba and Bahia. He was Collaborator of SESGEG-MJ and Coordinator of the Nucleus of Open Sources (NUFA) of the Extraordinary Secretariat for Security of Major Event of the Ministry of Justice during the 2016 Rio Olympic and Paralympic Games. Alesandro also served as General Coordinator of Counterintelligence of the Intelligence Directorate and later as Collaborator of the National Secretariat of Public Security, Deputy General Coordinator of the Judicial Police and expert of the Directorate of the National Public Security Force of the National Secretariat of Public Security.

André BARRINHA is a Senior Lecturer in International Relations at the University of Bath. He joined this university in September 2017, having previously worked at the University of Coimbra and Canterbury Christ Church University. His main research interests are within the fields of Security Studies, European Security and International Relations Theory. André is one of the coordinators of the UACES Research Network INTERSECT: Technology-Security-Society interplays in Europe. In 2019 he was awarded a Leverhulme Trust Research Fellowship to conduct research on cyber-diplomacy. His worked has appeared in journals such as *Global Affairs*, *Journal of Common Market Studies*, *Journal of European Integration* and *Third World Quarterly*. He is one of the authors of *International Relations Then and Now: Origins and Trends in Interpretation* (2nd edition) published by Routledge in 2019.

Celina Bottino BEATRIZ is Project Director at the Institute for Technology & Society of Rio de Janeiro (ITS Rio). She has a Master's Degree in Human Rights from Harvard University and Undergraduate Degree in Law from Pontifical Catholic University (PUC-Rio). She is an expert on human rights and technology. She was a researcher at the Human Rights Watch in New York and a Supervisor at the Human Rights Clinic in Fundação Getulio Vargas (FGV Rio). Celina was a consultant for the Harvard Human Rights Clinic and a researcher at ISER. An Associate of the Children's and Adolescent's Rights Protection in Rio de Janeiro. Celina is currently developing research in the human rights and technology field.

Sérgio BRANCO is one of the Co-founders and a Director of the Institute for Technology & Society of Rio de Janeiro (ITS Rio). He has a PhD and a Master's Degree in Civil Law from the Rio de Janeiro State University (UERJ), and an Undergraduate Law Degree from UERJ. He is a guest researcher at the Centre de Recherche en Droit Publique from the Montreal University. He was a civil and intellectual property professor at Fundação Getulio Vargas (FGV Rio), from 2006-2013. In 2006, he was the Attorney in Chief at the Nacional Institution of Technology (ITI) and the academic development Coordinator of the undergraduate law school program at FGV in 2005. Sérgio has written and published a few books. Among them: Copyright in the Internet and the Use of Third Party's work; Memory and Forgetfulness on the Internet, Public Domain in Copyright Brazilian Law – A Work in Public Domain; and What is Creative Commons – New Copyright Models in a More Creative World. He has undergone an extension course in intellectual property at the Pontifical Catholic University (PUC-Rio) and has an extension course in film documentary (FGV).

Marcelo CÂMARA is the Head of the Disarmament and Sensitive Technologies Division in the Brazilian Ministry of Foreign Affairs (MFA) since September 2015. He is career diplomat since 1995, has held various positions in Brazil and abroad, such as Deputy Head of the UN Division and the Deputy Head of the Brazilian Delegation to the IAEA. He participated as the Brazilian Expert in the Group of Governmental Experts (2016-2017) on the developments in the field of information and telecommunications in the context of international security, pursuant to UNGA Resolution A/RES/70/237. Since October 2019, he holds the position of coordinator for cybersecurity issues in the Brazilian MFA.

Karla CAVALCANTI is a public worker, graduated in Business Administration from the University of Brasilia, postgraduate in consumer behavior and marketing from Queensland University of Technology, Australia. She has 19 years of professional experience in the telecommunications sector. In recent years,

she has been at the forefront of the construction work on the National Cyber Security Strategy on behalf of the Institutional Security Cabinet of the Presidency of the Republic, having participated in the executive cyber security meeting in Israel, with countries of Latin America and the Caribbean. She also is the Brazil's representative to the OECD Digital Security Working Group. Karla is currently coordinating the construction of the National Artificial Intelligence Strategy at the Ministry of Science, Technology, Innovations and Communications.

Luciano CHARLITA DE FREITAS is a Regulatory Specialist and adviser to the Board of Commissioners of ANATEL. Within ANATEL, he is in charge of several projects related to the sector regulatory and legal reform and initiatives approaching the reduction of competition barriers and to leverage investment inbound towards the sector. Luciano holds a PhD in Economics-Development Policy from the University of Hiroshima and contributes as author and reviewer of several academic journals.

François DELERUE is a research fellow in cyber defense and international law at the IRSEM, an adjunct lecturer at Sciences Po Paris and a rapporteur on international law to the Academic Advisory Board of the EU Cyber Direct Project. His book titled Cyber Operations and International Law is forthcoming with Cambridge University Press. His research concerns cyber defense and cybersecurity, specifically their legal, policy and strategic dimensions. His research focuses on international law obligations, norms and international cooperation, as well as on the various actors involved in this area, including States, private companies, non-governmental organisations. More broadly, he is interested in how new technologies and activities (space activities, cyber, robotics and artificial intelligence) challenge international law and international relations. He regularly lectures at the International Institute for Humanitarian Law at Sanremo, Italy. He has taught at the European University Institute (EUI), Sciences Po Paris and the University of Florence. He was an IVLP fellow of the US Department of State (2019), a visiting researcher at Columbia University in New York (2014) and attended the 62nd youth seminar of the IHEDN (2009) and the international law and cyber operations seminar of the NATO School in Oberammergau (2013). He graduated from the EUI, the Sorbonne Law School (Paris 1 University) and Aix-Marseille University. He worked as a consultant in cyber-strategy and cybersecurity in a consultancy firm in Paris.

Hannes EBERT is a senior advisor for the EU Cyber Direct project at The German Marshall Fund of the United States. His research and advisory work focuses on the impact of emerging technologies on international relations, armed conflict and crisis prevention. Hannes has previously researched international and cyber security in South Asia at think tanks in Berlin, Hamburg, London, Delhi and Islamabad, and worked as an advisor on German and European policies toward the BRICS, fragile states and the Indian Ocean at the German Federal Foreign Office's policy planning staff and East Africa division. He also served as researcher and program coordinator at Harvard University's Minda de Gunzburg Center for European Studies. Hannes studied international law and politics in Berlin and Geneva and obtained his M.Sc. in international relations theory from the London School of Economics and his Ph.D. in political science from the University of Hamburg. He was postdoctoral fellow at Yale University's MacMillan Center and visiting doctoral fellow at the Oxford University's Department of Politics and International Relations.

Sara GARCIA-MUNOZ is programme manager for the Foreign Policy Instrument (FPI) for the Americas region at the Delegation of the European Union to Brazil, currently in charge of the Connectivity and Digital portfolio. Before this, she worked as Strategic Director for the Foreign and Commonwealth Office (FCO) Prosperity Fund in Beijing and as researcher on BRICS cooperation for the Jeanne Marie Gescher-China Think Tank in Beijing (China) too. She has also worked as legal advisor for the Development Cooperation Directorate General at the European Commission, as well as managing different portfolios of EU cooperation actions in a wide array of areas, including digital, transport, space, trade or private sector development.

Laura GROENENDAAL is program assistant at The German Marshall Fund of the United States (GMF) in Brussels. She focuses on EU foreign policy, in particular in the field of cyber diplomacy. Laura contributes to the implementation of the EU Cyber Direct project and the activities of the Europe Program. Her research interests include security and defense, EU foreign policy, and cybersecurity. Laura joined GMF as a trainee in 2017 and worked on EU affairs, democracy and rule of law, and inclusive security. She obtained her master's degree in European Public Affairs from Maastricht University in 2017 and has a bachelor's degree in International Relations and International Organization from the University of Groningen.

Renata GUEDES has a Public Relations degree from PUC-Campinas and a Marketing and Communications postgraduate degree from IBMEC. She has worked in the areas of Marketing at Thema PR, Ogilvy PR and Ernst & Young. She is studying Digital Marketing at Polo Criativo. Currently, Renata is a Researcher at ITS and a member of the Education Team.

Ivar HARTMANN holds an MSc in public law from the Catholic University of Rio Grande do Sul (Brazil), a LL.M. from Harvard Law School and an SJD in public law from Rio de Janeiro State University. He is a professor and research project coordinator at FGV Law School in Rio de Janeiro since 2012 and is currently head of the Center for Technology and Society (CTS/FGV). Ivar teaches courses at the bachelors, masters and PhD level at FGV Law School on topics related to regulation of technology as well as programming and data science. His main research areas are cyberlaw - especially online speech - and judicial politics.

Caitríona HEINL is Director and Founder of The Azure Forum for Contemporary Security Strategy, Ireland. She is also an Executive Strategist at the strategic consulting firm EXEDEC, and an Associate Partner at Vedette Consulting Ireland. She is a member of the Irish Government's Department of Foreign Affairs and Trade 'Foreign Policy Network'. She has built up over ten years' experience working in think tank and academic environments including roles with the Centre of Excellence for National Security at Nanyang Technological University, Singapore; the ASPI International Cyber Policy Centre, Canberra; and Leiden University Institute of Security and Global Affairs. Caitríona holds an MPhil in International Relations from Cambridge University and graduated in Commerce and Law (BBLS) from University College Dublin and the University of Innsbruck, Austria.

Monica HERZ holds a bachelor's degree in History from PUC-Rio (1985), a Master's degree in Sociology from the Sociedade Brasileira de Instrução – SBI/IUPERJ (1989) and a PhD in International Relations from the London School of Economics and Political Science (1994). She is an Associate Professor of the Institute of International Relations (IRI) at PUC-Rio. She has extensive experience in the field of International Relations, with emphasis on International Security. Areas of interest: international politics, international organizations, international security, International Relations in Latin America, and Brazilian Foreign Policy.

Cristine HOEPERS is the General Manager of CERT.br, maintained by NIC.br, from the Brazilian Internet Steering Committee. She has a degree in Computer Science and a PhD in Applied Computing. She has been working with Incident Management at CERT.br since 1999, where she helps the stablishment of new CSIRTs in the Country, provides training in information security and incident handling, and develops best practices to increase Internet resilience. In the past she served as a member of the FIRST Board of Directors, as a Lead Expert of the UN IGF Best Practice Forum on CERTs and on Spam, and as a member of the ITU HLEG (High Level Experts Group). She has been a speaker and moderator in several forums such as ITU, OAS, ICANN, APWG, IGF, MAAWG, LACNIC and FIRST.

Louise Marie HUREL is a cybersecurity and Internet governance researcher coordinating Igarapé Institute's projects on the Cybersecurity and Digital Liberties Program. She holds an MSc in Media and Communications (Data and Society) from the London School of Economics (distinction) and a BA in

International Relations from PUC-Rio (distinction), having been awarded for her dissertation "Cybersecurity and Internet Governance: Two Competing Fields". She is also a research fellow at the Brazilian Naval War College (NAC-EGN) regularly writing on geopolitical implications of emerging technologies. Louise has been actively involved in Internet governance spaces serving as representative for Europe in the Non-Commercial Users' Constituency (NCUC) Executive Committee and working on capacity building and engagement through the Onboarding Program at the Internet Corporation for Assigned Names and Numbers (ICANN). Louise was also one of the Brazilian representatives at the BRICS Youth Forum 2017. She's also a former fellow of the European School on Internet Governance (2018) II Brazilian Internet Governance School (2015) as well as a founding member of the Cybersecurity and Youth ISOC Special Interest Groups. Her previous experience includes consultancy for UNESCO project on "What if we all governed the Internet", and research on IG, privacy, data protection and security at the Center for Technology and Society at Getúlio Vargas Foundation (CTS-FGV).

Gustav LINDSTROM is the Director of the EU Institute for Security Studies (EUISS) – the European Union's Agency analysing foreign, security and defence policy issues. In his capacity as director, he also chairs the Council for Security Cooperation in the Asia-Pacific – EU Committee (CSCAP-EU). Previously, Gustav served as the Head of the Emerging Security Challenges Programme at the Geneva Centre for Security Policy (GCSP). In this function, he was also co-chair of the Partnership for Peace Consortium (PfP-C) Emerging Security Challenges Working Group and a member of the Executive Academic Board of the European Security and Defence College. Prior to his tenure at the GCSP, he was a Research Fellow and later a Senior Research Fellow at the EUISS. He has also worked at the RAND Corporation and the World Bank. His areas of focus include the EU's Common Security and Defence Policy, cybersecurity, EU-NATO relations and emerging security challenges. Gustav holds a doctorate in Policy Analysis from the RAND Graduate School and MA in International Policy Studies from Stanford University.

Luisa CRUZ LOBATO is a PhD Candidate in International Relations at the Pontifical Catholic University of Rio de Janeiro (IRI PUC-Rio) working on critical security studies, cyber security, global governance and Science and Technology Studies. She is a visiting researcher at the Graduate Institute of International and Development Studies and researcher at the Igarapé Institute's Cyber Security and Digital Liberties Programme.

Daniel OPPERMANN is a research coordinator at the NUPRI Research Center for International Relations at the University of São Paulo, a research fellow at the FGV Law School CyberBRICS project and a postdoctoral researcher at the ECEME University of Rio de Janeiro. Daniel studied Political Science at the Free University of Berlin (FUB). He holds a PhD in International Relations from the University of Brasília (UnB). Daniel was a researcher at the OPSA Research Center for South American Politics of the State University of Rio de Janeiro (UERJ) and a postdoctoral researcher at the Institute of Economy of the Federal University of Rio de Janeiro (UFRJ). Daniel was a member of the Steering Committee and Chair of Program Committee of the Global Internet Governance Academic Network (GigaNet) and a member of the Board of Directors of the Brazilian Internet Association ABRANET. Daniel Oppermann's current research interests are focused on Internet Governance and cybersecurity. He has taught Internet Governance, cybersecurity and geopolitics at the Federal University of Rio de Janeiro and at the Digi Winter School on Internet Governance at the San Andres University in Buenos Aires (Argentina).

Anna-Maria OSULA is a senior policy officer at Guardtime, a systems engineering company offering data-centric security solutions based on blockchain technologies as well as cyber range exercises. She also serves as senior researcher and lecturer at Tallinn University of Technology (TalTech), and as a research fellow at Masaryk University under the project "Cyber Security, Cyber Crime and Critical Information Infrastructures Center of Excellence". Previously, she worked as a legal researcher at the NATO CCDCOE, focusing on national cyber security strategies, international organizations, international criminal cooperation and norms. She has authored a number of publications, including co-editing the NATO CCD COE book "International Cyber Norms: Legal, Policy and Industry Perspectives". She is also

the founder of an annual conference series "Interdisciplinary Cyber Research", which has been organized by TalTech since 2014. In addition to a PhD in law from the University of Tartu, she holds an LLM degree in IT law from Stockholm University.

H.E. Guilherme PATRIOTA is the Chair of the United Nations Group of Governmental Experts on the Developments in the Field of Information and Telecommunications in the Context of International Security. He is a Brazilian career diplomat since 1983 and currently Brazil's Consul General in Mumbai. Ambassador Patriota most recently was Deputy Permanent Representative of Brazil to the United Nations and other Specialized Agencies in Geneva, in charge of the United Nations' health cluster, including WHO, UNAIDS, UNITAID, and served as Special Representative of Brazil to the Conference on Disarmament. Between August 2013 and September 2015, he was Deputy Permanent Representative of Brazil to the United Nations in New York, in charge of development, UN budget, UN funds and programs, and SDGs negotiations, among other issues of the UNGA. From 2010 to 2013, he worked as Deputy Advisor to the President on Foreign Affairs in Brasilia. In earlier posts, he served in Brazil's Missions to the Organization of American States in Washington, D.C. (1990-1994), the Latin American Integration Association and Mercosul, in Montevideo, Uruguay (1994-1997), the WTO and the World Intellectual Property Organization in Geneva (2005-2008), and the to the UN in New York, as Minister-Counsellor, from 2008 to 2010. He was also deputy head of Brazil's Embassy in Wellington, New Zealand (1997-2000).

Patryk PAWLAK is the EUISS Brussels Executive Officer. In this capacity, he maintains and develops relations with other Brussels-based institutions. In addition, he is in charge of the cyber portfolio, leading the Institute's cyber-related projects and contributing to its outreach activities. Since June 2016, he is a member of the Advisory Board of the Global Forum on Cyber Expertise. His work on cyber-related issues and the European Union's security policies more broadly has appeared in several peer-reviewed journals and edited volumes. Patryk holds a PhD in Political Science from the European University Institute in Florence and an MA in European Studies from the College of Europe.

Christian PERRONE is a Google Public Policy Fellow at the Institute for Technology & Society Rio. He is an experienced Legal Consultant with a demonstrated history of working with international and domestic regulation. He has a strong legal professional background and an interest in the information technology industry. Christian Perrone obtained a Master of Laws (LLM) focused on International Law and Legal Studies from the University of Cambridge and is currently working towards a Ph.D. He is also a Researcher at Georgetown Law School, with a thesis on informal sources of regulation - case study privacy and data protection.

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