CYBERSEC CEE
CENTRAL AND EASTERN EUROPE

SECURING THE WORLD'S DIGITAL DNA

KATOWICE, 29-30.10.2019

**THE BIGGEST CYBERSECURITY EVENT
IN CENTRAL AND EASTERN EUROPE**

CYBERSEC CEE 2019 FOLDER

IN 2019 CYBERSEC IS CELEBRATING ITS 5th ANNIVERSARY

Launched in 2015, CYBERSEC is a successful and well-established annual public policy conference dedicated to strategic security aspects of the global technology revolution. It has embraced the need for trust-based, multilateral and cross-sectoral cooperation. As a result, CYBERSEC is not just a conference, it is a thriving international community that combines the knowledge and experience of experts and professionals. CYBERSEC has already established its presence in Krakow, Warsaw, Brussels and Washington DC.

In 2019 we will continue to channel the Community's energy into producing actionable, ground-breaking reports and recommendations that will shape policies and secure the world's digital DNA.

In its 5th anniversary year, CYBERSEC is expanding its formula. The CYBERSEC CEE will consist of a series of formats and events targeting a full spectrum of cybersecurity actors and dimensions in an effort to secure the world's digital DNA in the most collaborative and inclusive manner possible.

CYBERSEC 2019 has been endorsed as a recommended event on the Cybersecurity Conferences 2019 list by Infosec Conferences

INTRODUCTION TO CYBERSEC CEE 2019

MANY FORMATS BUT ONE CYBERSEC CEE 2019 THEME

SECURING THE WORLD'S DIGITAL DNA

- CYBERSEC FORUM
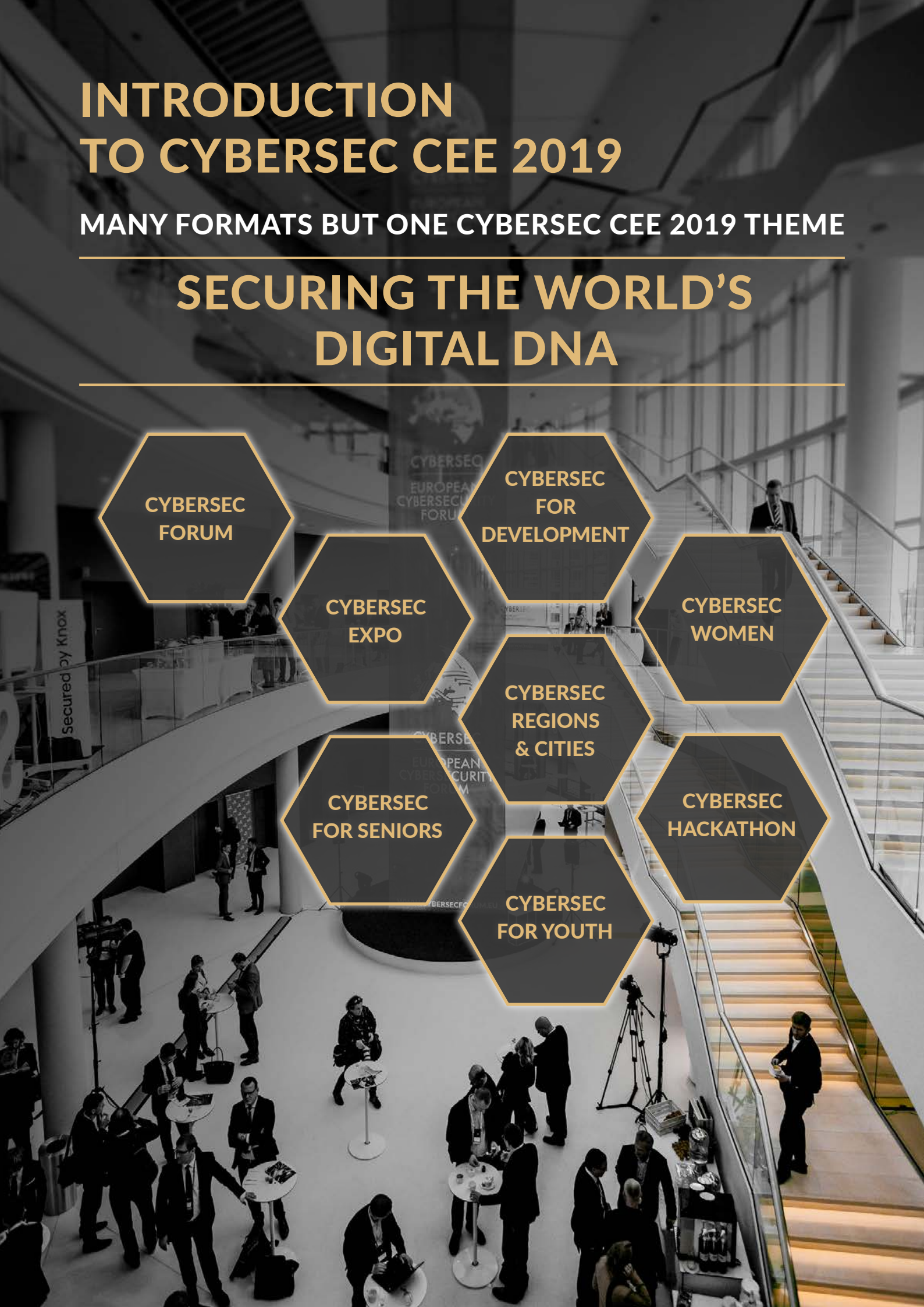- CYBERSEC FOR DEVELOPMENT
- CYBERSEC EXPO
- CYBERSEC WOMEN
- CYBERSEC REGIONS & CITIES
- CYBERSEC FOR SENIORS
- CYBERSEC HACKATHON
- CYBERSEC FOR YOUTH

SECURING THE WORLD'S DIGITAL DNA

... by design and by default

Biological DNA defines the very core aspects of the living world and in that sense gives the world its unique characteristic. As we are now creating the digital world, we can refer to that basics in trying to shape its core, to make it secure, resilient and prosper now and in the future.

Digitalization is an indispensable process penetrating every aspect of our reality, from daily life to economy, states and societies. Therefore, embedding security into that process as well as into more particular solutions is a key, both in terms of our societal functioning and prosperity. If we are thinking about implementing new digital technologies, deploying digital infrastructure or creating cyber products, services as well as crafting decisions, regulations and standards – the DNA refers to how we should design them by having cybersecurity in mind in the whole life cycle. Furthermore, simply being online as an end user, requires from us to have the cybersecurity gene. From now on, cybersecurity should be in our personal and societal digital DNA 'by default' to secure world's digital DNA.

Consequently, embracing, understanding and constantly analysing the world's digital DNA, can help in checking the security status of digital components, tools, and devices as well as regulatory, policy and institutional regimes.

... thanks to innovation

In the face of future development of technologies such as artificial intelligence, quantum computing, the Internet of Things or blockchain together with their intersections, this DNA-oriented approach can serve to identify future risks and address them up front to keep the digital realm 'healthy'. Rapid digital transformation will lead to more critical challenges of the future. To secure the world's digital DNA we need to innovate against new emerging threats.

... & within multi-stakeholder approach

Securing the world's digital DNA is a responsibility of us all. It requires sharing information, enhancing cooperation between and across public, private, academia and civil society sectors as well as creating platforms of inclusive collaboration. Common deterrence posture and collective defence actions might help to counter malign actions in cyberspace taken by state and non-sector actors. Work among like-minded governments is crucial to foster the incorporation of a secure digital DNA into states apparatus and decision making at the international level.

... to preserve free, open and peaceful cyberspace in the years to come

The CEE region – home to one of the fastest developing digital ecosystem in Europe – is demonstrating a strong potential for growth in the digital economy and the political cooperation it shows in the field, makes it a great place for discussing the development and securing of the world's digital DNA.

FOUR CYBERSEC FORUM STREAMS:

STATE STREAM

The creation and implementation of the most important public policies, strategies and regulations to advance secure digital transformation and to protect democracy. Advancing the Paris Call goals.

DEFENCE STREAM

The expanding military cooperation and innovation in the defence sector as a response to emerging dimension for cyber and hybrid conflicts.

FUTURE STREAM

The security challenges of implementing emerging technologies – Artificial Intelligence, 5G, quantum computing, blockchain – for the global economy and information society.

BUSINESS STREAM

The emerging role of the private sector in keeping cyberspace safe, the main challenges and the regulatory framework.

CYBERSEC FORUM PROGRAMME COMMITTEE

22 top-class experts

representing **12** countries

COL. ROBERT BALA
Director, NATO Counter Intelligence Centre of Excellence – Poland
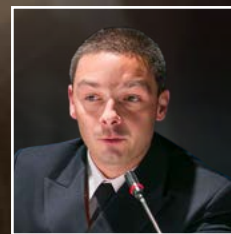
PAUL CORNISH
Former Co-director, Global Cyber Security Capacity Centre, University of Oxford – UK

AMBASSADOR SORIN DUCARU
Senior Fellow, Hudson Institute; Former Assistant Secretary General for Emerging Security Challenges, NATO – Romania

CDR WIESŁAW GOŹDZIEWICZ
Former Legal Adviser, NATO Joint Force Training Centre in Bydgoszcz; Expert of the Kosciuszko Institute – Poland
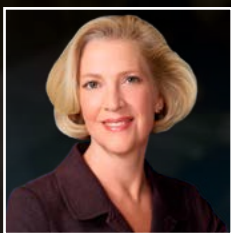
MELISSA HATHAWAY
President, Hathaway Global Strategies, LLC; Former Cybersecurity Advisor, George W. Bush and Barack Obama administrations; Expert of the Kosciuszko Institute – USA

AMBASSADOR MARINA KALJURAND
Member, European Parliament; Commissioner, Global Commission on the Stability of Cyberspace; Former Minister of Foreign Affairs of Estonia

SEAN KANUCK
Director of Future Conflict and Cyber Security, International Institute for Strategic Studies – USA

ALEXANDER KLIMBURG
Director of the GCSC Initiative and Secretariat; Director Cyber Policy and Resilience Program, The Hague Centre for Strategic Studies; Non-Resident Senior Fellow, Atlantic Council; Author of *The Darkening Web - the war for cyberspace* – Austria
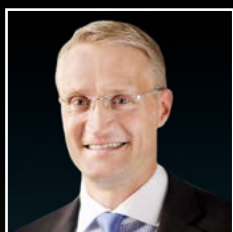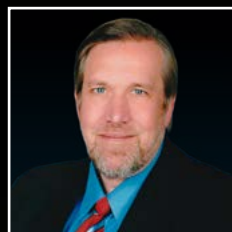
JARNO LIMNELL

Professor
of Cybersecurity,
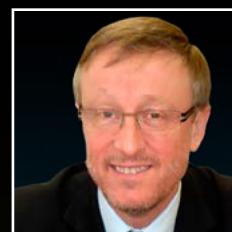Finnish Aalto University –
Finland

CIARAN MARTIN

CEO, National Cyber
Security Centre of the
UK – UK

CHRISTOPHER PAINTER

Commissioner, Global Commission
on Stability of Cyberspace; Former
Coordinator for Cyber Issues, U.S.
State Department – USA

STEVE PURSER

Head of Core
Operations,
ENISA – UK

LUIGI REBUFFI

Secretary General,
European Cyber
Security Organisation
– Italy

RAFAL ROHOZINSKI

CEO,
SecDev Group
– Canada

JANIS SARTS

Director, NATO
Strategic Communications
Centre of Excellence
– Latvia

KRZYSZTOF SILICKI

Deputy Director for
Cybersecurity and
Innovation, NASK
– Poland

**AMBASSADOR
MAREK SZCZYGIEŁ**

International
Cybersecurity Policy
Coordinator, Ministry
of Foreign Affairs
– Poland

PAUL TIMMERS

Visiting Fellow, Oxford
University; Former
Director, Sustainable
& Secure Society
Directorate,
DG CONNECT,
European Commission
– Netherlands

**JEAN-CHRISTOPHE
LE TOQUIN**

President, Cybersecurity
and Cybercrime
Advisors Network
– France

KIM ZETTER

Award-winning
journalist – USA

IZABELA ALBRYCHT

Chair, The Kosciuszko
Institute; President,
Organising Committee
of the European
Cybersecurity Forum
CYBERSEC – Poland

JOANNA ŚWIĄTKOWSKA

Programme Director,
European Cybersecurity Forum –
CYBERSEC; Senior Research Fellow,
The Kosciuszko
Institute– Poland

CYBERSEC FORUM AGENDA

DAY 1

OFFICIAL CONFERENCE OPENING

OPENING PANEL DISCUSSION:
Transforming cities into cyber-resilient smart metropolises

KEYNOTE PRESENTATIONS

MAIN PANEL DISCUSSION:
Secure 5G infrastructure as a backbone of digital transformation

STATE STREAM	**THEMATIC BLOCK:** • interviews • fireside chats • presentations • panel discussions	**TAILORED SIDE SESSIONS:** closed sessions, roundtables, working groups, working lunches, workshops	**INNOVATION HYDE PARK**

MAIN PANEL DISCUSSION: Industrial cyberespionage campaigns

BUSINESS STREAM	**THEMATIC BLOCK:** • interviews • fireside chats • presentations • panel discussions	**TAILORED SIDE SESSIONS:** closed sessions, roundtables, working groups, working lunches, workshops	**INNOVATION HYDE PARK**

INVITATION-ONLY CYBERSEC 2019 BANQUET

DAY 2

KEYNOTE PRESENTATIONS

MAIN PANEL DISCUSSION: Security among the Alliance, building capabilities together

DEFENCE STREAM	**THEMATIC BLOCK:** • interviews • fireside chats • presentations • panel discussions	**TAILORED SIDE SESSIONS:** breakfast/lunches, closed sessions, roundtables, working groups, working lunches, workshops	**INNOVATION HYDE PARK**

MAIN PANEL DISCUSSION:
Geopolitics of cybersecurity – forthcoming implications of the digital cold war

FUTURE STREAM	**THEMATIC BLOCK:** • interviews • fireside chats • presentations • panel discussions	**TAILORED SIDE SESSIONS:** closed sessions, roundtables, working groups, working lunches, workshops	**INNOVATION HYDE PARK**

CYBERSEC 2018 IN NUMBERS

1 of world's top policy priorities

2 days of inspiring and fruitful discussions

4 thematic streams

45 represented countries

50+ presentations, panel discussions & workshops

150+ speakers

25 start-ups with **45** innovative solution presentations
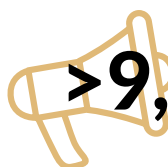
100 accredited journalists

113 CYBERSEC partners & patrons

1100 cybersecurity enthusiasts

156K Twitter impressions

>9,5 mln people reached with CYBERSEC 2018 media coverage

86% of participants rated CYBERSEC as very good or excellent

REPRESENTED SECTORS AT CYBERSEC 2018

Represented Sectors chart

- 26% Company
- 3% Armed Forces
- 3% Media
- 5% Other
- 28% Public administration
- 8% Academia
- 5% IT/ICT start-up
- 5% Uniformed Services
- 17% NGO/think tank
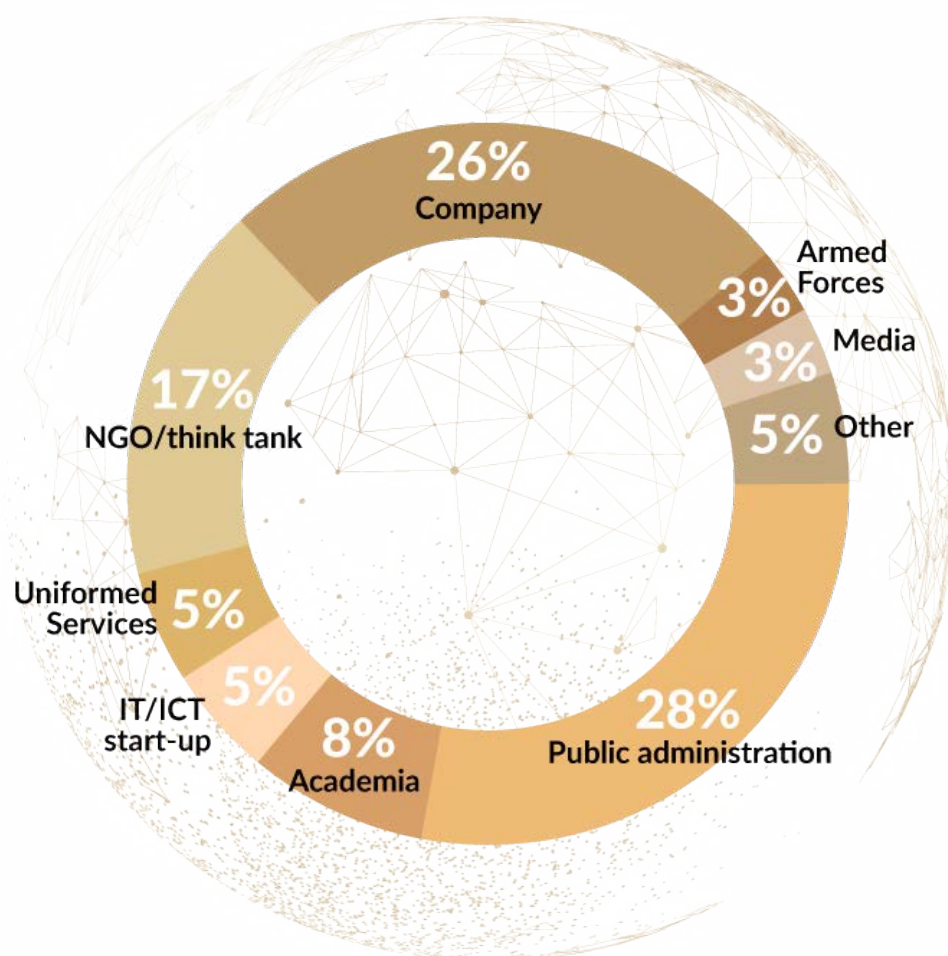
TARGET AUDIENCE FOR CYBERSEC CEE 2019

- CEOs, CIOs, CSOs, CISOs, CTOs, CROs

- IT/Security Vice Presidents, Directors, Managers

- Legal Professionals, Governance, Audit, Risk, Compliance Managers & Consultants

- Government and Regulatory Affairs

- National and Local Government Officials incl. the biggest cities in the world (Ambassadors among them)

- Law Enforcement & Intelligence Officers

- Military & MoD Officials

- International Organisations' Representatives **from business and public sectors of CEE region.**

GROWING CYBERSEC FORUM
COMMUNITY SELECTED SPEAKERS

During four editions of CYBERSEC, over 550 speakers came to Krakow to advance global cybersecurity. The take-aways and recommendations were inspired and crafted by many of them, including:

CSEU15:

ALEXANDER KLIMBURG
Director of the GCSC Initiative and Secretariat; Director Cyber Policy and Resilience Program, The Hague Centre for Strategic Studies; Non-Resident Senior Fellow, Atlantic Council; Author of *The Darkening Web - the war for cyberspace*

PAUL NICHOLAS
Senior Director, Global Security Strategy and Diplomacy, Microsoft

PETER ROUND
Managing Director, PKR Solutions Limited; Former Capabilities Director, European Defence Agency

KARSTEN GEIER
Head of the Cyber Policy Coordination Staff in Germany's Federal Foreign Office

CSEU16:

JAMIE SHEA
Former Deputy Assistant Secretary General for Emerging Security Challenges, NATO

NIGEL INKSTER
Director, Transnational Threats and Political Risk, International Institute for Strategic Studies; Former Director of Future Conflict and Cyber Security, International Institute for Strategic Studies; Former Assistant Chief and Director of Operations and Intelligence, British Secret Intelligence Service (MI6)

TUNNE KELAM
Member of the European Parliament, Committee on Foreign Affairs, Subcommittee on Security and Defence

LUIGI REBUFFI
Secretary General and Founder, European Cyber Security Organisation

CSEU17:

BEATA SZYDŁO
Former Prime Minister of the Republic of Poland

SIR JULIAN KING
European Commissioner for Security Union

MICHAEL CHERTOFF
Co-founder and Executive Chairman; Chertoff Group, Former U.S. Secretary of Homeland Security

AMBASSADOR MARINA KALJURAND
Chair; Global Commission on the Stability of Cyberspace, Former Minister of Foreign Affairs

CSEU18:

KATIE MOUSSOURIS
Founder & CEO, Luta Security

JOHN FRANK
Vice President, EU Government Affairs, Microsoft

ANTONIO MISSIROLI
Assistant Secretary General for Emerging Security Challenges, NATO

PABLO CHAVEZ
Vice President, Global Public Policy and Government Relations, Google Cloud

"It is my privilege to be here and it's Cisco's honour to be part of this event which is so critical for us as we sit here today in the digital economy.

EDNA CONWAY

Chief Security Officer, Global Value Chain, Cisco Systems

JOINED CYBERSEC COMMUNITY IN 2018

"I really admire the intellectual vibrancy that the CYBERSEC organizers managed to manufacture. I really like the practical focus on the policy, and the organizers' determination to come up with something that will make a difference for the better.

PAUL CORNISH

Former Co-director, Global Cyber Security Capacity Centre, University of Oxford

JOINED CYBERSEC COMMUNITY IN 2017
ATTENDED CYBRESEC TWICE

CYBERSEC HACKATHON
Finding the future cyberexperts

Challenge to be addressed:

The demand for cybersecurity professionals is growing exponentially and the global market has an insatiable thirst for new talents. Predictions saying about up to 6 million new workplaces and a fast evolving IT security field need to be acknowledged by companies and the academic sector. In addition, other stakeholders have to actively engage in building the workforce which will be able to secure our digital future and the world's digital DNA.

Response by CYBERSEC:

To address the shortage of cybersecurity specialists on the CEE market, based on our last year's experience, we decided to launch, as part of CYBERSEC CEE, CYBERSEC Hackathon with the goal of attracting youngsters, students and junior IT employees into the cybersecurity market.
CYBERSEC Hackathon is a24-hour challenge during which participants will have to complete cybersecurity tasks and programming exercises as well as solve riddles and logical quests based on the following four main principles:

GAMIFICATION
stimulate young people by allowing them to be players

EVERYONE IS A WINNER
show appreciation to every partici-pants and give them "cool" awards

ENGAGE BEFORE THE EVENT
communicate with the audience beforehand; start the storytelling; give them introductory tasks; ask them about their preferences

COOPERATE WITH THE INDUSTRY
include experts from cybersecurity com-panies; make them mentors and partners for young participants
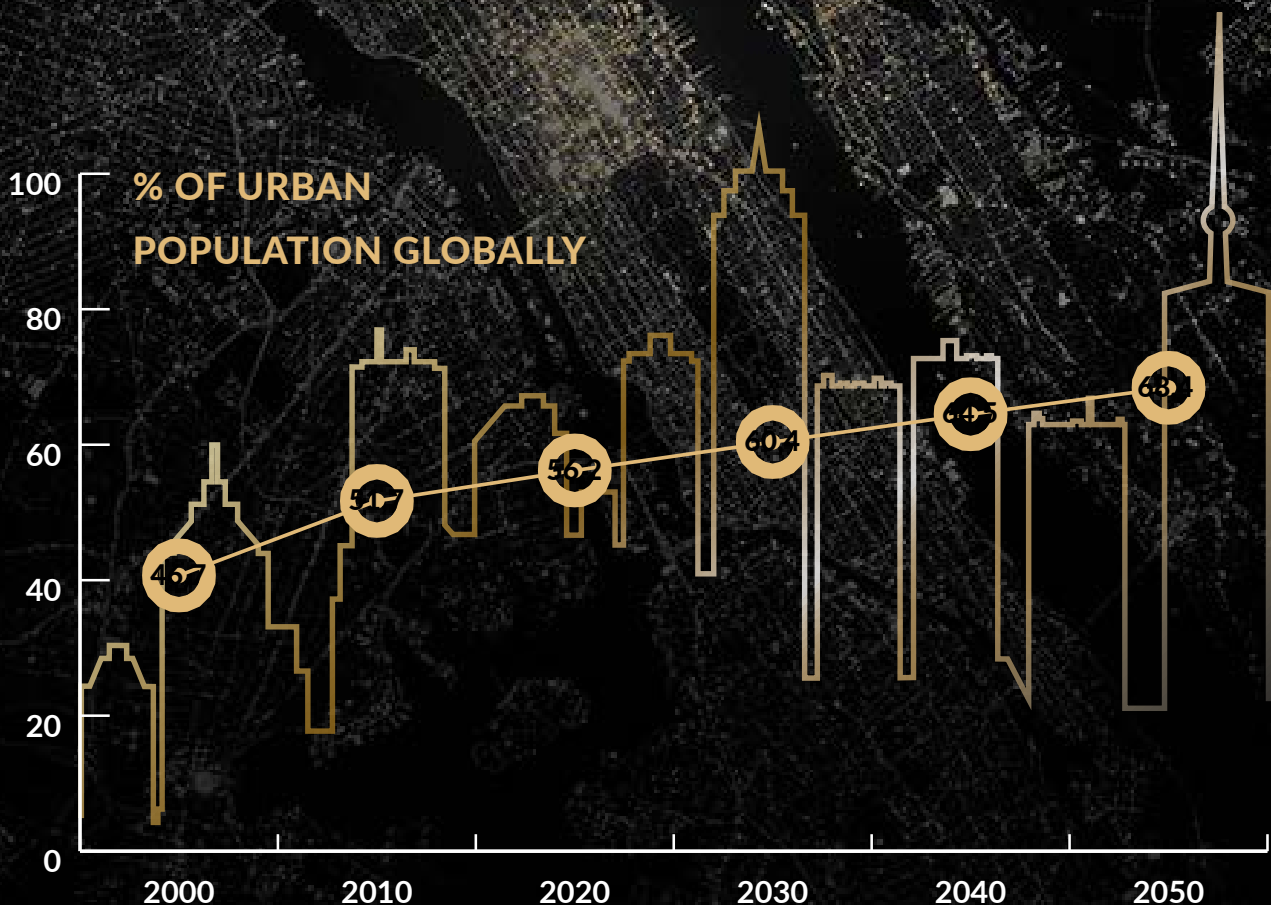
CYBERSEC
REGIONS & CITIES

Challenge to be addressed:

Today 55% of the world population lives in urban areas, with United Nations predictions showing that by 2050 this percentage will rise up to 68%. Cities and urban communities are at the forefront of the digital revolution and very often serve as test beds for emerging technologies and cybersecurity solutions, as they help them face key urban challenges, from transportation and power supply to civic engagement. Regions and cities have it all to be the leading competence and innovation centres for cybersecurity. Local ecosystems allow for real and efficient cooperation between the triple helix of government (both regional and national), university centres for research and innovation, large international companies, local SMEs and startups. Additional support from the venture capital community is also a feature of these ecosystems. In turn, an innovative sector of products and services to secure the world's digital DNA can develop on this foundation. Some regions and cities have already established regional cybersecurity hubs but others need to be incentivised and inspired to follow the trend.

Response by CYBERSEC:

We will invite representatives of selected innovation centres for cybersecurity to Poland to establish cooperation links and best practice sharing mechanisms with CEE regions and cities that are now lagging behind in building Digital Innovation Hubs for cybersecurity. We have to make the urban digital transformation human-centric and secure-by-design to ensure that in the times to come our world's digital DNA is properly secured. That is why decision-makers at the regional level have to work hand in hand with industry leaders to build smart, secure and safe cities and regions – the foundational tissues of the world.

The CYBERSEC CEE format for regions & cities will provide a suitable platform to approach business sector, academia and local and regional governments to ensure they continue to be the places for people and technologies to thrive.

% OF URBAN POPULATION GLOBALLY

CYBERSEC
for Development

Challenge to be addressed:

The rapid rise of a cross-border digital realm has been an incredible enabler for countries and citizens world-wide – be it in the economic, political or social sphere. Nowadays, digital technologies already provide billions of people with an access to basic services such as healthcare, education, banking or even government-related services, therefore contributing to raising the development level of the countries they are deployed in. Upcoming new technologies such as artificial intelligence (AI) or Internet of Things (IoT), increase the potential that digital transformation entails. Due to their cross-sectoral character digital tools can transform an economy and a society more deeply and more quickly than previously, making them particularly suited for contributing to the fulfilment of United Nations' Sustainable Development Goals (SDGs).

Cyberspace therefore provides a necessary platform for spreading innovation, fostering economic growth, and empowering citizens. However, the increasing number and variety of challenges linked with the development of cyberspace should not be overlooked. The devastating global impact of cyber-attacks – such as NotPetya – warrants a stronger international cooperation in building cyber resilience.
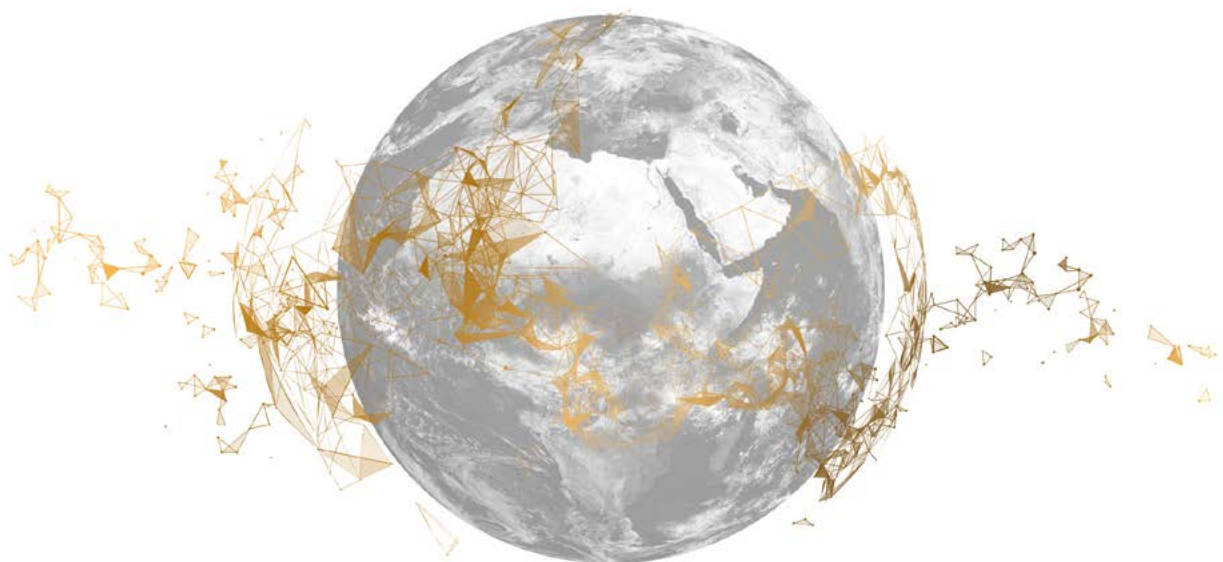
Response by CYBERSEC:

Bolstering the debate on reinforcing cyber capacities in developing countries is in the common interest. Our first CYBERSEC for Development working session will widely discuss the possibilities to support capability building through best practices sharing and know-how transfer between public as well as private actors. It will bring together government representatives, law enforcement agencies, cybersecurity experts and companies who will share and exchange practices and experiences related with digital transformation and cyber capacity building. The objective of CYBERSEC for Development is to foster and support cybersecurity capability building efforts undertaken around the world by providing countries with a platform to exchange ideas, learn from mutual experiences, and discover emerging technical and regulatory tools and solutions developed by both the public and private sectors.

CYBERSECURITY EDUCATION

Challenge to be addressed:

Young people are particularly exposed to aggressive expansion of Web threats; therefore, it has become necessary to more effectively raise their awareness of what cyberattacks in cyberspace they can expect and to develop their abilities to react and to use Internet resources and functionalities in a safe way. Over two-thirds of hacking attacks and data breaches are still caused by human error. What is more, an explosive growth of the ICT sector and the pressing need to build a cybersecurity system have led to an exponential rise in demand for STEM professionals and employees. The future of the cyberworld and its secured DNA require a sustained education for new generations and a continuous effort to develop their digital competences.

Response by CYBERSEC:

CYBERSEC for YOUTH is an educational workshop programme directed at people aged 13–19 that is designed to increase their online security in relation to data privacy and protection of IT systems and IT devices. Simultaneously, the intermediate goal of the project is to improve the security system of the Web that young users are surfing now and are going to use in the future, also in their professional lives. CYBERSEC for YOUTH is also meant to inspire young Poles to learn about STEM and to choose a related educational path, to develop their scientific interest in ICT, and to present successful professional careers in ICT and cybersecurity industries.

CYBERSEC for Seniors

NARROWING THE DIGITAL DIVIDE

Challenge to be addressed:

Even though older people engage with the Web more and more every year, the number of seniors who use modern communication technologies is still very low in Poland. They are among the age cohorts which are at the highest risk of both digital exclusion, resulting in numerous impediments to social participation, and of being targets of attacks by cybercriminals, often a consequence of lacking awareness or robust knowledge of how to stay secure. The needs of older age groups keep being neglected in cyberspace.

Response by CYBERSEC:

CYBERSEC for SENIORS is a workshop programme for people aged 55+ that aims to overcome seniors' resistance to using Internet resources and modern technologies, and at the same time to form cyber-savvy browsing habits. We hope to use this initiative to raise awareness among the elderly regarding their security and cyberthreats in order to enable them to protect themselves against Web frauds and gain necessary knowledge of high-quality and accessible public e-services. CYBERSEC for SENIORS supports the empowerment of older age groups in the virtual world by overcoming their reservations, distrust, and excessive caution in using new technological affordances and at the same time develops safe habits and heightened threat awareness.

CYBERSEC *Women*

In partnership with ECSO

Challenge to be addressed:

Inclusiveness is a key factor in security issues. Diversity in cybersecurity contributes to the efficacy of teams and sustainability of solutions, making it both a national security and a business imperative. The representation of women in cybersecurity has an alarmingly low rate of around 11%, this critical gender imbalance has prevented cybersecurity from developing full scale. A growing number of companies and organizations are recognising the importance of having inclusive and diverse teams in order to tackle current digital threats. But there is still a limited number of universities offering careers in cybersecurity or encouraging a greater participation of women in engineering careers.

Therefore it is much to do and the strong advocacy of women and men is a key element to diminish this gap and achieve a more equal and thus a more effective cybersecurity field.

Response by CYBERSEC:

That is why two years ago we launched the CYBERSEC WOMEN initiative and this year we will introduce it in a revamped CYBERSEC CEE format, in the centre of the region where the spirit of great women can be felt like nowhere else. Marie Skłodowska-Curie once said: "Nothing in life is to be feared, it is only to be understood. Now is the time to understand more so that we may fear less". Now the European Commission initiatives focus on boosting participation of women in digital and technology sectors by recommending actions to create national strategy blueprints. The EC is also supporting ECSO's Women 4Cyber Initiative which was co-founded by one of CYBERSEC originators – Izabela Albrycht.

PLENARY SESSIONS
of CYBERSEC FORUM

CYBERSEC CEE 2019
STAGES & EXHIBITION VENUES

TAILORED SIDE
SESSIONS for
CYBERSEC
FORUM
PARTNERS

INNOVATION
HYDE PARK

CYBERSEC EXPO SPACE

"
The European Cybersecurity Forum is one of the most important platforms that give power to our voices, that help us inform and gain knowledge about key issues from deep cryptography and quantum computing all the way to the strategic policies that our government must adopt in order to advance our economies.

MELISSA HATHAWAY

President, Hathaway Global Strategies, LLC; former Cybersecurity Advisor, George W. Bush and Barack Obama administrations; Expert, The Kosciuszko Institute

JOINED CYBERSEC COMMUNITY IN 2016
ATTENDED CYBERSEC THREE TIMES

"
I am a loyal participant of CYBERSEC and I have always appreciated the combination of enthusiasm, professionalism and dynamism at these conferences.

AMBASSADOR SORIN DUCARU

Senior Fellow, Hudson Institute; Former Assistant Secretary General for Emerging Security Challenges, NATO

JOINED CYBERSEC COMMUNITY IN 2015
ATTENDED CYBERSEC FOUR TIMES

CYBERSEC CEE
CENTRAL AND EASTERN EUROPE

SECURING THE WORLD'S DIGITAL DNA

KATOWICE, 29-30 OCTOBER 2019

ESTABLISHING THE PARTNERSHIP:

Izabela Albrycht
Chair, The Kosciuszko Intitute
izabela.albrycht@cybersecforum.eu
+48 512 297 897

FOLLOW US:

#CSCEE19

@CYBERSECEU

www.cybersec-cee.eu