



MINISTRY OF
COMMUNICATIONS



NATIONAL CYBER SECURITY WEEK 2017

**"Securing Ghana's
Digital Journey"**

**23RD - 27TH
OCTOBER 2017**

ACCRA INTERNATIONAL
CONFERENCE CENTRE



I wish to congratulate you on the occasion of Ghana's National Cyber Security Week celebration. As the President of our great country, I am delighted to join all of you to create awareness and to dialogue on issues bordering on our cyber security. My government is fully committed to cyber security for a number of reasons:

STATEMENT – THE PRESIDENT OF THE REPUBLIC OF GHANA

- Digitalization is the backbone of my government's economic development agenda. Around the world, the adoption of connected digital services by people, businesses, and governments, has emerged as a major driver and enabler of socio-economic development. Ghana, under my presidency is embarking on a similar journey – the introduction of national identification system, digital addressing system, mobile money interoperability system and e-government initiatives such as the paperless port system, e-procurement, e-justice and e-passport are specific digitalization initiatives of the government. My government intends to develop a smart economy to meet the aspirations of our citizens. As a result, investing in cyber security, is an imperative rather than a choice.

- Our commitment to cyber security as a government is also linked to our obligations under the United Nation's Sustainable Development Goals (SDGs). As a co-chair of the SDG Advocates group, I am aware of the crosscutting

nature of ICT and how indispensable they are for the full realisation of all the SDGs. According to the World Development Report 2016 on Digital Dividends, increase digitalization is impacting positively on developing countries. The impact of digitalization on developing economies, like Ghana is manifested in direct foreign investment, economic productivity and job creation. In addition, digitalization in government and the public sector has proven to be one of the most powerful tools to fight corruption, a canker which has the potential to derail our socio-economic transformation.

- My government is committed to cyber security because cybercrime is a borderless crime and Ghana has an obligation to secure its cyberspace in order to protect investors and to honour its commitments to the international community. In line with the above commitments, I signed the African Union Convention on Cyber Security and Personal Data Protection when I attended the 29th AU Summit in Addis Ababa. Our intention to accede to the



Budapest Convention and our engagement with the United States government through the Security Governance Initiative (SGI) are other manifestations of our commitment to international cooperation as an instrument to address cybercrimes and cyber security issues.

My government is mindful of the fact that, the adoption of ICT as a foundation of our sustainable economic development will be futile without addressing the vulnerabilities emanating from the development and application of ICT systems and services across the various sectors of our economy.

According to the World Development Report 2014 on Risk and Opportunity, cyber-attacks could destroy lives, assets, trust, and social stability. Essentially, Ghana's critical infrastructures are inherently dependent on ICTs and therefore the survival of our economy and its critical systems such as power, telecommunication systems, financial sector, government services and the entire social and security system is dependent on the ability of the government to protect and secure ICT assets and systems.

Ladies and gentlemen, Ghana cannot fully reap the digital dividends associated with our adoption of ICT as a means of our socio-economic transformation if we fail to mitigate cyber security threats. The UN SDG 9 requires our country to develop resilient infrastructures including ICT systems in order to sustain

our economic development. My government therefore is resolved to address these challenges in order to safeguard our digital journey.

My government is committed to address issues of cyber security governance, capacity building, international cooperation, judicial enforcement of cybercrime legislations, research and development and implementation of relevant technical standards and safeguards to secure our digital journey.

To develop a sustainable cyber security ecosystem for Ghana, private sector involvement is key. Therefore, I wish to encourage partnerships and collaboration between the government and the private sector to facilitate information sharing, capacity building and research and development towards self-reliance.

I congratulate the Ministers for Communications, National Security, Interior, Defence, Finance, Foreign Affairs and Justice for their appointment to the National Cyber Security Inter-Ministerial Advisory Council and entreat them to work with the private sector and our international partners to scale up Ghana's cyber security readiness.

I wish all of you an exciting engagement towards securing Ghana's digital journey.

Thank you.

**Nana Addo Dankwa Akufo-Addo
President of the Republic of Ghana**



STATEMENT – MINISTER FOR COMMUNICATIONS

Welcome to the National Cyber Security Week and I am delighted to have all the stakeholders here to share ideas, raise awareness and discuss our cyber security.

The Ministry of Communications has oversight responsibility for the government's digitalization agenda and is actively working to ensure the success of the initiatives being implemented by government including the national identification system, the national digital property addressing system, and a number of e-government projects. We recognise that ICTs are indispensable for development and have a cross cutting nature and are determined to do our best to enable the NPP vision of a massive transformation of the economy through technology succeed.

'It is Digitime' in Ghana. This slogan demonstrates the government's prioritisation of ICTs and the crucial role it plays in accelerated socio-economic development. Through the Ministry of Communications, Ghana is developing a robust framework to support our digitisation. Mindful of the dangers inherent in increased usage of cyberspace however, the MOC is also leading the national effort to scale up our country's cyber security readiness.

Some initiatives we have undertaken include the following:

- Established the National Cyber Security Secretariat and appointed the Cyber Security Advisor as we begin the implementation of our National Cyber Security Policy and Strategy (NSCPS).
- Set up the National Cyber Security Inter-Ministerial Advisory Council (NCSiac) made up of the Ministries of Communications, National Security, Justice/Attorney-General, Interior, Finance, Defence and Foreign Affairs, with private sector representatives in attendance to provide policy guidance.
- Instituted the National Cyber Security Technical Working Group (NCSTWG) with representatives from all national institutions with a mandate on cybercrime and cyber security to ensure implementation of policy decision within the various sectors.
- Initiated capacity building programmes for the criminal justice sector through Ghana's partnerships with the Council of Europe (GLACY+ Project) and the US Government (through the Security Governance Initiative – SGI)
- The Ministry of Communications has been actively engaging with government and our development partners on funding for cyber security, within the last few months.



The immediate priority of the Ministry is to undertake a national cyber security risk assessment to identify cyber vulnerabilities and priority areas that require immediate and specific interventions and we are working with the World Bank to conduct a Cyber security Capacity Maturity Model to assess the level of development of national cyber security efforts from the policy, regulatory, end-user, and other



perspectives, in order to provide recommendations to government on how to enhance our cyber security readiness.

We will be setting up a National Computer Emergency Response team (CERT) to improve Ghana's cyber security emergency response readiness, review the National Cyber Security Policy and Strategy (NCSPS) to ensure it is compliant with international best practices and develop guidelines on cyber security for government and public-sector officials. This initiative will set the foundation for building a culture of cyber security across the public sector.

We will also implement a number of capacity building programmes to improve cybercrime prevention, prosecution and adjudication and cyber security awareness of individuals, businesses and government officials.

The Ministry of Communications, in collaboration with other stakeholders will set up Ghana's National Cyber Security Centre (NCSC) with full technical and human resource capabilities to oversee national cyber security operations. This will position Ghana among the elite countries with such a facility and transform the country into a cyber security hub in the sub-region.

The government is grateful to its international partners especially the Council of Europe, the US Government and the ITU for their support for Ghana's cyber security. We also appreciate support from our local partners and stakeholders.

Ghana is on course with its international commitments on cyber security. The accession to the Budapest Convention is currently before Cabinet and ratification by Parliament is expected later in the year. The President has signed the Africa Union treaty on Cyber Security and Personal Data Protection and it is imperative that we work towards achieving the objectives and targets of the Convention. We need to operationalize the ECOWAS Directive on Cybercrime to ensure cross-border investigations and prosecutions of cybercrimes within the sub-region.

I congratulate the members of the event planning committee for their commitment and the enormous amount of work they have put in to ensure the success of this event. We are grateful to all our sponsors for their kind donations which have also helped make this cyber security week happen.

We will build an effective harmonized national cybersecurity strategy only with multi stakeholder engagement and the commitment shown by our various stakeholders so far, gives me the confidence that we can do it. It is an exciting time for our cyber security as a country. The government is committed and it has already set the pace for the country's cyber security development. I therefore urge all of you – individuals, businesses, organizations and our international partners to get involved in our quest to secure Ghana's digital journey.

Thank you.

**Honourable Ursula Owusu-Ekuful
Minister for Communications**



MEMBERS OF THE NATIONAL CYBER SECURITY INTER-MINISTERIAL ADVISORY COUNCIL (NCSIAC)



Hon. Ursula Owusu-Ekuful
Minister for Communications



Hon. Gloria Afua Akuffo
Minister of Justice &
Attorney General



Hon. Ken Ofori-Atta
Minister for Finance &
Economic Planning



Hon. Ambrose Dery
Minister for the Interior



**Hon. Shirley Ayorkor
Botchway**
Minister for Foreign Affairs



Hon. Dominic Nitiwul
Minister for Defence



Hon. Albert Kan-Dapaah
Minister for National Security

BACKGROUND TO THE CYBER SECURITY WEEK

Cyber Security Week is an annual event which aims to raise awareness of cyber crime trends and to highlight the growing importance of cyber security at all levels – people, businesses and government. Hosting the event this year, in line with global practices, provides a unique opportunity to demonstrate the government's new vision and strategy to scale up Ghana's cyber security in order to secure the country's digitisation agenda.

Cyber Security Week aims to create awareness of cyber security and anti-cyber crime initiatives and to build the capacity of different stakeholders within the cyber security ecosystem. It also provides an opportunity for local and international stakeholders to engage and share ideas on cyber security initiatives being pursued within the industry and best practice. Cyber Security Week is important for a number of reasons. Ghana has joined the growing rank of countries that have recognized the importance of cyber security as a core function in response to technological advancements and use.

In addition, Information sharing and stakeholder engagement is key to building and sustaining an effective cyber security ecosystem. Cyber Security Week aims to enhance cooperation, strengthen partnerships and foster a collaborative approach to securing Ghana's digital journey.

Cyber Security Week offers an excellent opportunity for information sharing and engagement and is a key component in building an effective and robust cyber security ecosystem in Ghana.

Key Objectives of Cyber Security Week 2017

1. Create awareness of cybercrime trends, cyber security and cyber hygiene practices.
2. Demonstrate the government's new vision and direction on cyber security and highlight strategies towards achieving the vision.
3. Strengthen partnerships and consolidate cyber security related activities within the country.
4. Consolidate Child Online Protection (COP) related activities within the country to enhance Ghana's own COP strategy.
5. Support the Government's digitisation agenda by building the resilience across all levels (people, businesses, and government).
6. Highlight strides made in Ghana's cyber security efforts, nationally and in line with global best practices.

DEPUTY MINISTERS FOR COMMUNICATIONS



Hon. Vincent Sowah Odotei
Dep. Minister for Communications



Hon. George Andah
Dep. Minister for Communications



NATIONAL
CYBER SECURITY
SECRETARIAT

The National Cyber Security Secretariat has been set up within the Ministry of Communications to coordinate national efforts and to provide a focal point for the convergence of all cyber security activities and programmes being developed or implemented by government agencies and the private sector, within the context of Ghana's national cyber security policy and strategy.

FOR FURTHER INFORMATION PLEASE CONTACT:
Email: info@cybersecurity.gov.gh
Tel: 050 318 5846

STATEMENT – NATIONAL CYBER SECURITY ADVISOR



I wish to welcome you to the 2017 edition of the National Cyber Security Week! It is exciting that we have joined the global cyber community to celebrate this national event. I am particularly excited that we have different stakeholders, across all levels of the cyber security ecosystem representing at this event. This is a clear manifestation of Ghana's multi-stakeholder approach towards addressing the country's cyber security challenges.

Ladies and gentlemen, it is exciting time for cyber security development in Ghana. The current level of digitalization – both in the public and the private sectors of our economy requires concerted efforts to scale up our cyber security, which is rated below 35% by the International Telecommunications Union (ITU). ITU's Global Cybersecurity Index Report for 2017 provides a good background of Ghana's cyber security landscape – across multiple domains, including – the state of Ghana's national cybercrime legislations and enforcements, current technical measures, cyber security institutional frameworks, capacity building and cooperation, among others.

The United Nations Sustainable Development Goals (SDGs) require countries to adopt innovation and to secure critical infrastructures including ICT infrastructures. Current trends in Ghana's digitalization is consistent with the requirements of the SDGs. Therefore, it is imperative that our country invests in cyber security.

As the Cyber Security Advisor to the Government, I have set out five key broad objectives, towards improving our country's cyber security readiness:

- Develop an independent, sustainable multi-stakeholder institutional framework for Ghana's cyber security based on international benchmarks and existing institutional arrangements;
- To develop our national cyber security

capabilities to protect our critical infrastructures and to respond to both existing and emerging cyber threats;

- To support national institutions with a mandate on cybercrime/cyber security to develop their cybercrime and cyber security response capabilities, consistent with their mandates.
- To foster cyber security cooperation and partnerships at all levels (In-Country, Sub-Regional and International).
- To develop a culture of cyber security in Ghana (at the individual, organizational and government levels).

These objectives are the drivers to secure Ghana's digital journey, which can only be achieved through continuous in-country engagements (public and private sector engagements) and partnerships with Ghana's international friends.

I therefore invite all and sundry to join the new vision on cyber security and to stay on board as we drive Ghana's cyber security agenda forward.

Thank you.

Albert Antwi-Boasiako
National Cyber Security Advisor



THE NATIONAL CYBER SECURITY TECHNICAL WORKING GROUP

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Margaret Abba
NCA

Otu Seppey
GHANA ARMED FORCES

Richard Quaye
EOCO

Jacob Puplampu
EOCO

PROGRAMME – MAIN AGENDA

DAY 1 - MONDAY OCTOBER 23, 2017

Thematic Area - Governance

VENUE: MAIN AUDITORIUM

9.30am Formal Opening Ceremony

Musical/cultural Interlude

Introductory Address

Remarks by ECOWAS

Remarks by African Union Commission

Remarks by Council of Europe

Remarks by the United Nations

Remarks by US Embassy/Security Governance Initiative

Opening Speech & Inauguration of National Cyber Security Technical Working Group (NCSTWG)

Keynote Address & Inauguration of National Cyber Security

Inter-Ministerial Advisory Council (NCSIAC)

Group Photograph (Dignitaries)

Visit to Exhibition (Dignitaries)

11.30am BREAK

Inauguration & High Level Dialogue

12pm-2pm National Dialogue for Digital Transformation
- High Level (closed door meeting)

1pm LUNCH BREAK

Presentations (Parallel Sessions)

12pm-1pm Overview of Ghana's National Cyber Security Institutional Framework

2pm-3.30pm Panel Discussion - Cyber Security Governance in the
Private & Public Sector

DAY 2 - TUESDAY OCTOBER 24, 2017

Thematic Area - Cyber Security Conferences & Workshops

VENUE: COMMITTEE ROOM 1- AICC

9am Cyber Security Conference

9am-9.45am ECOWAS Directive on Cybercrime

9.45am-10.30am African Union Convention on Cyber Security & Personal Data Protection

10.30am COFFEE BREAK

11am-12pm The Budapest Convention & International Cooperation against Cybercrime

12pm-1pm Cyber Security in the Context of Military Defence

1pm LUNCH BREAK

2pm-2.45pm Cyber Security & Forensics Readiness

2.45pm-3.45pm Cyber Security & National Wellbeing - National Security Perspective

3.45pm-4.45pm Data Protection & Cyber Security

Ministerial Roundtable Dialogue & SGI Stakeholder Mapping Workshop

Venue: Meeting Room (AICC)

NCSTWG

DAY 3 - WEDNESDAY OCTOBER 25, 2017

Thematic Area - Child Online Protection

VENUE: COMMITTEE ROOM 1- AICC

9am Child Online Protection

9am-9.30am Opening Remarks

9.30am-10.30am What & Why COP

10.30am COFFEE BREAK

11am-12pm Positive Use of Mobile & ICTs

12pm-1pm International Perspectives on Best Practices for COP

1pm LUNCH BREAK

2pm-2.45pm The Stakeholder Roles for COP in Ghana

2.45pm-3.30pm Industry Proposals for Safe & Responsible Use of Internet by Children & Young Persons

3.30pm-4.30pm Towards a Comprehensive National Strategy

SGI Stakeholder Mapping Workshop

Venue: Meeting Room (AICC)

NCSTWG & Other Stakeholders



DAY 4 - THURSDAY OCTOBER 26, 2017 *Thematic Area - Technology Solutions*

VENUE: COMMITTEE ROOM1- AICC

9am **Technology Solutions**

9am-10.30am Panel Discussion - Countering Mobile Money Fraud - Perspectives from Stakeholders

10.30am **COFFEE BREAK**

11am-11.40am Presentation on Cyber Security Technology Solution

11.40am-12.30pm Cyber Security Technology Options for People, Businesses, Government

12.30pm-1pm Presentation on Cyber Security Technology Solution

1pm **LUNCH BREAK**

2pm-2.45pm Smartphone Security Risks & Technology Solutions

2.45pm-3.30pm Dealing with Insider Threats - Technology Solutions Option

3.30pm-4.30pm Issues of Digital Footprints & Digital Reputation

Workshop by Innovare

Venue: Meeting Room 2 (AICC)

DAY 5 - FRIDAY OCTOBER 27, 2017 *Thematic Area - Cybercrime, Cyber Hygiene & Awareness*

VENUE: COMMITTEE ROOM1- AICC

9am **Group 1 Session**

9am-9.45am Cybercrime Trends in Ghana

9.45am-10.30am Awareness of Cybercrime Legislations

10.30am **COFFEE BREAK**

11am-12pm Cyber Security & Universal Access - GIFEC Perspective

12pm-1pm Cyber Security Awareness in the Public Sector

1pm **LUNCH BREAK**

2pm-3pm Panel Discussion - Responsibilities in the Cyberspace (People, Businesses, Government)

3pm-3.45pm Computer Security at the Workplace

3.45pm-4.30pm Social Media - the Good, the Bad, the Ugly

VENUE: COMMITTEE ROOM 2 - AICC

9am **Group 2 Session**

9am-9.45am See Technology, See Risks

9.45am-10.30am Virus Entry Points - We Open the Doors

10.30am **COFFEE BREAK**

11am-12pm Personal Security in the Inter-connected World

12pm-1pm Cyber Security Best Practices - GISPA's Perspective

1pm **LUNCH BREAK**

2pm-3pm Panel Discussion - Data Protection, What Can We Do?

3pm-3.45pm "Cyber Security is Everyone's Problem. Do Your Part!"

3.45pm-4.30pm tbd

PROGRAMME – OTHER EVENTS

EVENT/PROGRAMME	BRIEF DESCRIPTION	STAKEHOLDERS INVOLVED	VENUE/LOCATION	DATE
One-Day Workshop on Network Forensics & Incident Handling	Hands-on workshop covering network forensics, incident response and handling, threat analysis, etc.	<ul style="list-style-type: none"> • AfricaCERT • e-Crime Bureau • Universities • Insurance industry, etc. 	AITI-KACE	Friday October 27, 2017
Ethical Hacking Workshop	Certification programme in Ethical Hacking	<ul style="list-style-type: none"> • Accra Digital Centre (ADC) • Slamm Technologies • AITI-KACE 	Accra Digital Centre (ADC)	Monday October 23 – Thursday October 26, 2017
Workshop on Cyber Security Awareness	A 2-day workshop targeting IT personnel from public sector institutions	<ul style="list-style-type: none"> • Security Governance Initiative (SGI) • NITA 	AITI-KACE	Thursday October 26 – Friday October 27, 2017
Safe & Secure Online	Interactive presentation on online safety for children	<ul style="list-style-type: none"> • School Authorities • (IISC)2 Ghana Chapter 	Selected Schools' Premises	Monday October 23 – Friday October 27, 2017
Opening of Digital Forensics Lab at the KNUST	Formal opening of e-Crime Bureau funded digital forensics lab at the KNUST by the Inspector-General of Police	<ul style="list-style-type: none"> • e-Crime Bureau • KNUST • Ghana Police 	KNUST, Kumasi	Wednesday October 25, 2017



IAI-ELTA AT A GLANCE



IAI-ELTA is a Government owned Company and is one of Israel's leading defense electronics companies and a global leader in a variety of areas. ELTA's products are designed for Intelligence, Surveillance, Target Acquisition and Reconnaissance (ISTAR), Early Warning and Control, Homeland Security (HLS), Self-Protection and Self-Defense, and Fire Control applications.

IAI's broad suite of cyber intelligence products covers the modern cyber realm (social media, cloud based services, open web and the dark-web), the cellular realm (global cellular location, native interception and geolocation of 2G, 3G and 4G communication) and COMINT (interception and production of microwave, satellite, and tactical COMINT-HF, VHF & UHF - communication).



These advanced capabilities are possible due to the unique technologies developed by IAI's research, development and excellence centers, offering IAI's customers a wide range of capabilities for handling evolving and ever growing cyber threats.

IAI operates four cyber research and development centers (in Singapore, Switzerland, and Israel) and heads the Israel Cyber Company Consortium (IC3), which offers end-to-end solutions for national cyber systems.

IAI-ELTA CYBER TECHNOLOGY & PRODUCTS

A wide range of surveillance and alert products, cyber warfare systems, intelligence gathering products, integration of all levels and end-to-end solutions in the field of cyber protection.

End-to-End Cyber Centers:

Round-the-clock cyber surveillance of multiple end-users' and national infrastructures, in order to achieve a real-time situational awareness of the state of cyber security, and to disseminate security incident and early-warning information on a 24x7 basis.

Fusion Center

- Effectively detect cyber threats through correlation and analysis of collected information, and provide timely alerts
- Detect new and advanced cyber threats
- Generate cyber insights through collected logs
- Disseminate the insights to the various end-users of the Cyber Early Warning Center



From Sensors to Centers – Intelligence and Information Gathering tools:

- Next Generation Lawful Interception solution
- Extracting valuable intelligence from social media, open web, deep web, dark net & BitCoin transactions
- Cutting edge entity management solution

Capability Buildup, Training, Testing, Simulation & Forensics

National, sectorial and organizational capability buildup via training, testing and simulation of complex cyber scenarios

Cyber Analytics and Forensics

Using advanced analytics capabilities to turn cyber challenges into stepping stones towards tackling the "Attribution Challenge"



NCSW PLANNING COMMITTEE

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Data Protection Commission

Kwadwo Osafo-Maafo
National Communications Authority

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CYBER SECURITY WEEK 2017 SPEAKERS



Patricia Adusei-Poku
Exe. Dir., Data Protection Commission



C.K. Bruce
CEO, Innovare



Albert Antwi-Boasiako
National Cyber Security Advisor



Andy Akoto
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Dr. Herbert Gustav Yankson
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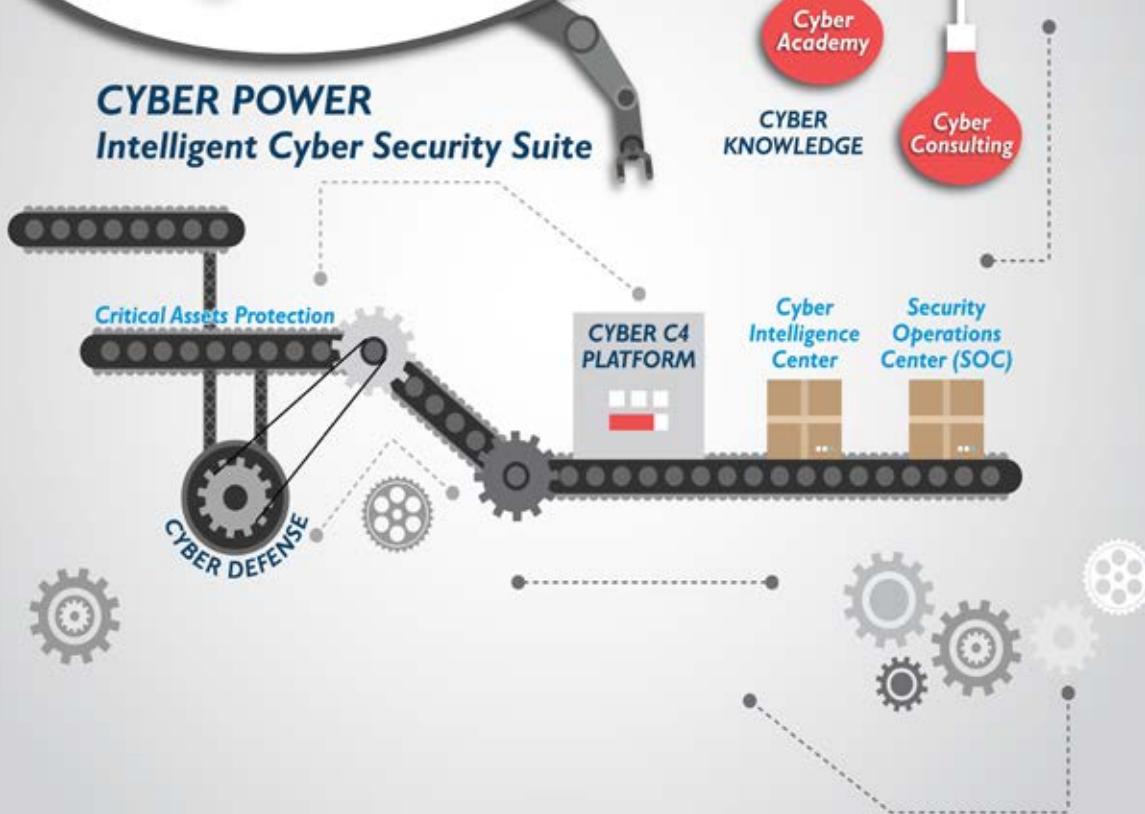
Philemon Hini
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COUNCIL OF EUROPE - GLACY



The Council of Europe advocates freedom of expression and of the media, freedom of assembly, equality, and the protection of minorities. It has launched campaigns on issues such as child protection, online hate speech, and the rights of the Roma, Europe's largest minority. The Council of Europe helps member states fight corruption and terrorism and undertake necessary judicial reforms. Its group of constitutional experts, known as the Venice Commission, offers legal advice to countries throughout the world.

GLACY+ (Global Action on Cybercrime Extended) is a Joint project of the European Union (Instrument Contributing to Peace and Stability) and the Council of Europe.

GLACY+ is intended to extend the experience of the GLACY project (2013 – 2016) which supports 10 priority countries in Africa and the Asia-Pacific region – Mauritius, Morocco, Philippines, Senegal, Ghana, Sri Lanka, Tonga, Cape Verde, Costa Rica and The Dominican Republic. These countries may serve as hubs to share their experience within their respective regions. Moreover, countries of Latin America and the Caribbean now also benefit from project support.

Ghana became a priority country in the joint project Council of Europe/European Union GLACY+ and since its inception in March 2016 has been an observer in the Cybercrime Convention Committee (T-CY). The country was invited to join the Budapest Convention in June 2016 and in October 2016 the initial assessment and establishment of the GLACY+ national team in Ghana took place. In November 2016 the Cabinet approved accession to the Budapest Convention

Several in-country activities were organized in Ghana under the GLACY+ project in 2017, namely:

- Advisory mission on Cyber strategy and policy [January];
- Intro ToT for judges and prosecutors [April];
- Support to National delivery in Ada and Kumasi [August];
- ECTEG course for cybercrime investigators [September];

An international event with the participation of all GLACY+ countries also took place in March 2017, namely, the International Workshop on reporting systems and on the collection of statistics on Cybercrime, with the participation of the Ministers of Communication and National Security.



"Securely Connecting People and Solutions in a Materialized and De-Materialized world"

IDENTITY AND ASSET MANAGEMENT

- CCTV Digital Surveillance Systems
- RFID and Asset Tracking Systems
- Key Management Systems
- Event and Ticketing Systems
- Security Access Control & Time/Attendance Systems
- ID Card Security Solutions and Systems
- ID Card Databases
- Specialized Security products
- Identity and Security Project Proposal Evaluation and Monitoring

BANK SUPPORT SERVICES

- Chip Cards, Contact-less Cards, Magnetic Stripe Cards and Bar-coding
- Printing & Encoding of Dual Interface Smart Cards
- Card Printers and Encoders
- Card Body Manufacturing and Personalization Solutions

IDENTITY AND SECURITY SUPPORT SOLUTIONS

- Flexographic Print Solutions (Labels, Scratch Cards)
- Loyalty and Smart Card Systems
- Maintenance Services (Warranty and Post Warranty)

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Deloitte named a global leader in cyber security consulting by Kennedy.

For more information, contact għdeloitte@deloitte.com.gh

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SecureGhCyberspace

Accra International Conference Centre - Thursday 26th October, 2017

Symposium Agenda

08:30am -Introduction of Chairperson & Opening Remarks

Papa Arkhurst, CEO, Chuck Solutions

CK Bruce, CEO, Innovare, Accra, Ghana

Carl Sackey, ISACA Ghana President

Albert Antwi-Bosiako, National Cybersecurity Advisor

09:00am -Guest of Honour Address:- Dr. Johnson Asiamah, 2nd Deputy Governor, Bank of Ghana

09:30am -Keynote: Governance requirements for Cyber Security – Warren Hero, CTO, Microsoft Africa

10:15am-10:30am -Coffee Break

10:30am -An overview of Cyber Security in Ghana, A Researcher's Perspective

Dr Paul Danquah, CEH, CCNP, DCIE, Technical Director, IT Council Limited

11:00am -Panel Discussion: Cyber Security Regulations in Ghana – Bank of Ghana, NSA, NCA, ISACA

12:00pm -Key Elements of an efficient Cyber/Information Security Program

CK Bruce, CISA, CISM, CRISC, ISO 27001, CEO, Innovare

12:30pm -Lunch

13:15pm -Developing a Security Fabric – Segun Daini, Implementation Manager, Fortinet

13:45pm -Maximising the PCI-DSS Framework

Francis Kyereh CISA, CISM, PCI QSA,
Information Security Consultant, Sysnet Global Solutions

14:15pm -Panel Discussion- Creating the Secure Network

Dr Paul Danquah, IT Council Limited

Benjamin Ofori, Bluespace

Francis Kyereh, Sysnet Global Solutions

Segun Daini, Fortinet

15:15pm -Building Effective Incidence Response Capabilities – Andy Akoto, Partner, Risk Consulting- KPMG

15:45pm -Profiling System users using Digital Forensics

Alex Oppong, CISSP, EnCE, Principal Consultant, e-Crime Bureau

16:15pm -Capacity Building on Security Blueprint – Victor Addison Lead Security Consultant, Bluespace

16:45pm -Closing Remarks



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