Promoting Best Practices in Cyber Security:
Executive Training in Israel

Latin America and the Caribbean (LAC) is the world's fourth largest mobile communication market, and by 2020 there will be more than 600 million smartphones connected in the region. More than half of its population already uses the Internet, while governments and businesses are increasingly moving towards services online. LAC has embraced the digital revolution and like all great revolutions this one also brings risks. The 2016 Cybersecurity Report, published by the Inter-American Development Bank (IDB) and the Organization of American States (OAS) identified greater trends that speak about the vulnerability that LAC faces on this issue, for example: out of 32 countries only five have developed cybersecurity strategies, only eight have planning coordination mechanisms to respond to cyber-attacks on the critical infrastructure, and in 30 out of 32 countries citizens are insufficiently aware of the security and privacy threats.

The IDB has a history of more than 50 years providing technical assistance to the LAC region, and in alignment with its commitment to support governments to better serve its citizens, the Innovation in Citizen Services Division (ICS) of the Institutions for Development Department (IFD) has launched a regional program with the ultimate aim to help LAC governments overcome these challenges and strengthen the capacity of their institutions responsible for cybersecurity. As part of these efforts, the IDB in collaboration with the Hebrew University, the Ministry of Economy and the National Cybersecurity Directorate of the State of Israel are organizing an executive training visit that will provide LAC government officials and policymakers with direct access to the country's cybersecurity structure, exposing them some of the most advanced practices around the world. This visit is part of the collaboration embodied on the Project-Specific Grant provided by the Government of Israel to the IDB to support the improvement of human resources capacity in cybersecurity in LAC.

Inputs by Participants

Prior to arrival: Each country delegation is requested to prepare a 3-slide presentation in English on: (a) the status of cyber security policy and government coordination in their country; (b) current cyber security initiatives and challenges in their country; and (c) a specific initiative or challenge they would like to share with the group or get feedback on. These presentations will be shared with the group in English during the program.

During the course: Each country delegation is requested to prepare, for the last day of the course, short descriptions of (a) Lessons learned that are applicable to the challenges faced in their home countries; (b) Areas the delegates will explore for implementation; and (c) Project ideas or decisions taken for implementation in their home countries.

Each participant will provide feedback on the course using forms and group discussions.

Important Notes

1. *The following agenda is indicative but subject to change.*
2. *Delegates will have time every evening to catch up with their offices, during workday hours in LAC.*
3. *All program activities are mandatory, except for the sightseeing tour.*

Saturday March 3rd
Jerusalem
- Arrival at Tel Aviv Ben Gurion Airport - Check into hotel in Jerusalem - **Group dinner, delegate introductions, and administrative coordination**

Sunday March 4th
Hebrew University Campus, Jerusalem
- **Official opening** - Keynote lecture: **The History of Israel's Cybersecurity Initiative** - **The German Cybersecurity Strategy in the European Context** - **Introduction to Malware and Cybersecurity Defense Tools**

Monday March 5th
Hebrew University Campus, Jerusalem
- **The Hebrew University's Cybersecurity Research Center** - **Communications and Network Security** - **IDF Cyber Defense Training Methodology** - **The Roles and Structure of a National Cybersecurity Coordinating Body** - **Delegate Presentations**

Tuesday March 6th
Field tour
- **Police Cyber Forensics Laboratory** - **ISP Security Operations Center (SOC)** - **Advanced SOC Technologies** - **Cyber Defense Training Environment**

Wednesday March 7th
Hebrew University Campus, Jerusalem
- **National Gap Analysis and Threat Modelling** - **National Critical Infrastructure Protection Framework** - **Introduction to Security Assessment, Threat Assessment and Red Teams** - **INCD best IT Security Practices Methodology** - Offsite dinner talk: **The Israeli cybersecurity Startup Ecosystem and its Funding**

Thursday March 8th
Hebrew University Campus, Jerusalem
- **Cyber Security and Artificial Intelligence** - **Security of Machine Learning** - **Bitcoin and Blockchain** - **Legal Aspects of Cybersecurity** - **Weekly wrap-up and feedback**

Friday March 9th
Jerusalem
No group agenda

Saturday March 10th
Jerusalem
- Tourist sightseeing: Jerusalem's Old City (optional)
- Offsite dinner talk: The Experience of a Hacker

Sunday March 11th
Hebrew University Campus, Jerusalem
- Legal Aspects of Cybersecurity
- Social Networks and Cybersecurity
- The Government's Support of the Private Sector Ecosystem
- Delegate Presentations

Monday March 12th
Field tour, Beer Sheva
- Check out of hotel in Jerusalem
- Tour of Israel's National CERT
- Tour of the Energy and Financial Sector SOCs
- The Technical Infrastructure of Israel's National SOC
- Advanced SOC Technologies
- International Cooperation in Incident Handling
- CERT Response Teams
- Check into hotel in Tel Aviv

Tuesday March 13th
Tel Aviv
- A Critical Infrastructure Regulator's Perspective: The Energy Sector
- A Critical Infrastructure Regulator's Perspective: The Banking Sector
- Securing Digital Health
- SOC Operations at a Critical Infrastructure Company
- Cybersecurity Startup Showcase

Wednesday March 14th
Tel Aviv
- Using Web Intelligence Systems for Cyber Defense
- National Cyber Incident Information Sharing
- Cybersecurity Professionals Careers and Training Paths
- Cybersecurity Training at the Education System
- Interactive exercise: Managing National Cybersecurity Emergencies

Thursday March 15th
Tel Aviv
- **Mobile Smartphone Security** - Keynote lecture: **The Future of Israel's Cybersecurity Initiative** - **Official Closing** - **Course wrap-up and feedback** - Offsite dinner

Friday March 16th
Tel Aviv
- Check out of hotel in Tel Aviv - Departure from Tel Aviv Ben Gurion Airport