

# IMPACT

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INTERNATIONAL MULTILATERAL PARTNERSHIP AGAINST CYBER THREATS

## Overview

**We live in a highly connected world**



ChrisHarrison.net

**Image courtesy of chrisharrison.net**

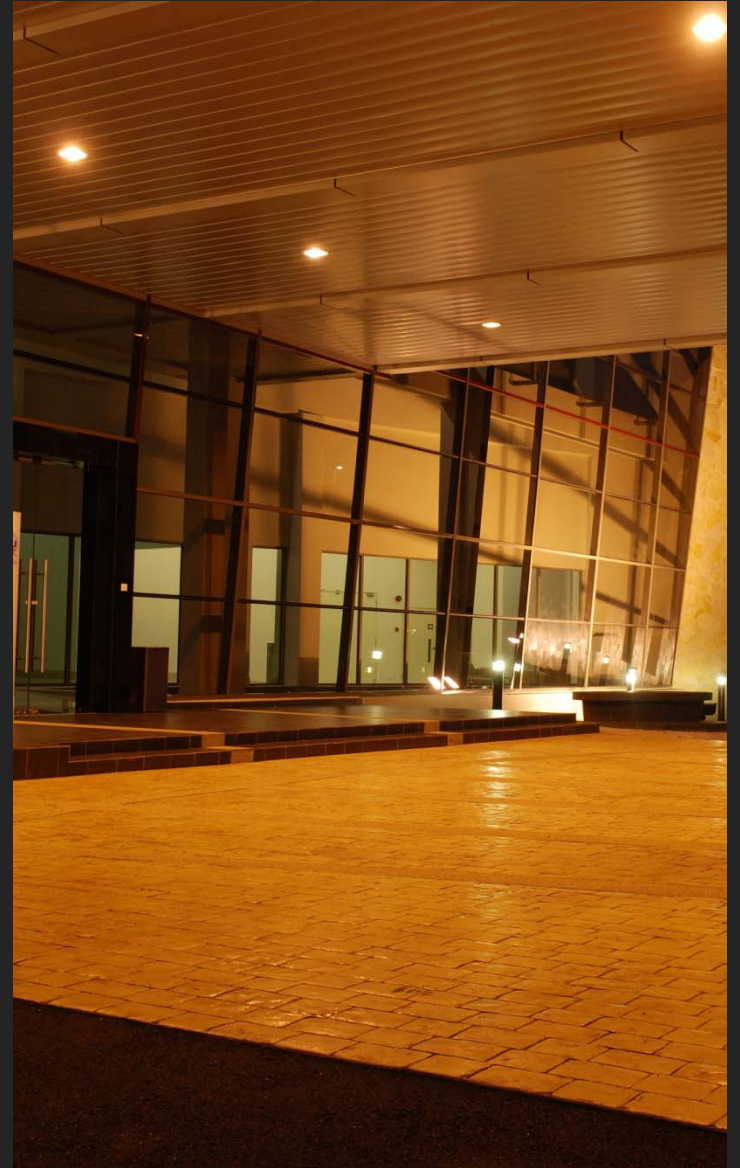
## Key Challenges

1. **The more connected we are the more vulnerable we become**— Critical Infrastructure, SCADA systems
2. **Evolving cyber threats** - The threat landscape has evolved
  - 1) Focussed attacks becoming norm
  - 2) Organised crime
  - 3) Terrorist groups
3. **Lack of concerted effort** - Governments, businesses, and academia need to work together to effectively combat cyber threats
4. **Cybersecurity is a dynamic field**—Constant need for upgrading the skill sets



## Cyber Threats - Incidents

- **Estonia** – Estonia, one of Europe's most wired nations, found its government websites under sustained cyber attacks
- **Queensland, Australia** – A disgruntled, unsuccessful job applicant to a waste management plant in Queensland sabotaged the plant's computerised sewage control system
- **Japan** – Malicious code targeted mobile phones to inundate the emergency hotline
- **Georgia** – Major attack on Georgia's IT infrastructure





## Combating Cyber Threats – Strategies

- **Providing effective information to empowered resources** – Disseminating right information to the right people at the right time
- **Collaboration across borders at all levels** – Individuals, law enforcement agencies, regulators and governments work together to effectively combat cyber threats
- **Capacity building** – Harnessing knowledge from industry & academia to develop skilled individuals with the knowledge to combat cyber threats
- **Involvement of all stakeholders and academia** – Industry and academia can play a vital role in helping governments secure national cyber infrastructure



# IMPACT

International platform for governments +  
industry + academia to collaborate in  
cybersecurity  
and home of the  
International Telecommunication Union's  
Global Cybersecurity Agenda



## Introduction to IMPACT – Characteristics

- **Non-profit organisation** – funded by grants, contributions etc.
- **Focussed on ‘upper end of cyber threats’** – including cyber-terrorism
- **International & multilateral in nature** – i.e. IMPACT is an international institution. Its partners are governments, its owners are the global community of partner-nations.
- **Public-private partnership** – Private sector, international institutions & academia are partners to assist partner countries secure their IT infrastructure.



# IMPACT Advisory Board

IMPACT's International Advisory Board comprises a distinguished list of renowned experts from industry and academia



**Dr. Vinton Cerf**  
Chief Internet Evangelist of Google,  
'Father of the Internet'



**Steve Chang**  
Founder & Chairman of Trend Micro



**Ayman Hariri**  
Chairman of Oger Systems



**Mikko Hypponen**  
Chief Research Officer of F-Secure



**Eugene Kaspersky**  
Founder & CEO of Kaspersky Lab



**Prof. Fred Piper**  
Professor of Mathematics at University of  
London & Founder of Codes & Ciphers Ltd.



**Prof. Howard Schmidt**  
Former White House Security Advisor,  
Former Chief Security Officer of Microsoft  
and eBay



**John W. Thompson**  
Chairman Symantec Corp.



**Dr. Hamadoun Touré**  
Secretary-General of International  
Telecommunication Union (ITU)

Chaired by Prime Minister of Malaysia (2008 – 2011)



## IMPACT Activities

- Global Response Centre
- Centre for Training & Skills Development
- Centre for Security Assurance & Research
- Centre for Policy & International Cooperation



## Partnership with ITU

- **September 3, 2008 (Bangkok, Thailand) :**
  - ITU signs an MoU with IMPACT to operationalise its Global Cybersecurity Agenda (GCA) initiative.
  - IMPACT HQ in Cyberjaya will be the new physical home for ITU's GCA
  - IMPACT confers full-fledged access to 191 countries
- **BotNet toolkit with ITU:** Malaysia is the test site for ITU's BotNet toolkit. IMPACT is helping co-ordinate with various agencies.
- **Operationalising COP:** IMPACT is to help in operationalising ITU's COP (child online protection) program
- **Special report for UN/ITU:** Every quarter IMPACT prepares a special report on the global cyber-threat landscape.

## Summary – How do partner countries benefit?

- Global Response Centre – NEWS and ESCAPE – Access to threat information and collaboration platform
- Training Programs – SANS/EC Council Scholarships/Other IMPACT courses
- Security Assurance – IGSS & CIRT Lite
- Research – University participation



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## Questions