IMPACT
INTERNATIONAL MULTILATERAL PARTNERSHIP AGAINST CYBER THREATS

Overview
We live in a highly connected world
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.

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Vinton Cerf</td>
<td>Chief Internet Evangelist of Google, ‘Father of the Internet’</td>
</tr>
<tr>
<td>Steve Chang</td>
<td>Founder &amp; Chairman of Trend Micro</td>
</tr>
<tr>
<td>Ayman Hariri</td>
<td>Chairman of Oger Systems</td>
</tr>
<tr>
<td>Mikko Hypponen</td>
<td>Chief Research Officer of F-Secure</td>
</tr>
<tr>
<td>Eugene Kaspersky</td>
<td>Founder &amp; CEO of Kaspersky Lab</td>
</tr>
<tr>
<td>Prof. Fred Piper</td>
<td>Professor of Mathematics at University of London &amp; Founder of Codes &amp; Ciphers</td>
</tr>
<tr>
<td>Prof. Howard Schmidt</td>
<td>Former White House Security Advisor, Former Chief Security Officer of Microsoft and eBay</td>
</tr>
<tr>
<td>John W. Thompson</td>
<td>Chairman Symantec Corp.</td>
</tr>
<tr>
<td>Dr. Hamadoun Touré</td>
<td>Secretary-General of International Telecommunication Union (ITU)</td>
</tr>
</tbody>
</table>

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
IMPACT
INTERNATIONAL MULTILATERAL PARTNERSHIP AGAINST CYBER THREATS

Questions