Cybersecurity and Education
Development of National Capacity

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www.diplomacy.edu
Different Perspectives

- Politicians
- Lawyers
- Business
- NGOs
- Insurers
- Academics
- The Media
- IT security
- … others…

Are they different from the six blind men describing an elephant?
How to Communicate?

Provided by Ed Gelbstein

DiploFoundation 2008
“Somehow it seems to fill my head with ideas - only I don’t exactly know what they are”

Lewis Carroll, Alice’s Adventures in Wonderland, 1865
Same Problem Different Perspectives

- **Parliamentarians** – Need to be re-elected
- **Government Officials** – Risk Avoidance + Focus on Procedures
- **IT People** – Solution Oriented + “Algorithm Approach”
- **Media** – Sensation & Front-page Story – Cybersecurity as “Scary” and Attractive Topic
- **Civil Society** – Focus on Human Rights
- **Academia** – Comprehensive and Sometimes Slow Approach
How to address these challenges?

- Introduce **inter-professional communication** in the cybersecurity curriculum (academic courses and professional training)
- **Multistakeholder** composition of student / participant groups – opening trainings to other professional and institutional groups
- “Walk the talk” – **use online tools** for training and community building
- Encourage **peer-to-peer** collaboration – involve experienced peers as intermediaries between senior experts and new trainees
- Introduce “Learning by Doing” – combine **training and practice**

- Introduce National Cybersecurity Capacity Development
Cybersecurity Capacity Development

I. Course (online or blended)
II. Policy Research
III. Policy Immersion
IV. Facilitating Communities of Practice
Cybersecurity Capacity Development and the ITU Toolkit

ITU Cybersecurity Toolkit

“The identification of specific training requirements and ongoing training programs should be made.”
(National strategy, part C.6)

Capacity Development
Incorporating the Toolkit into the course, policy research and immersion as a baseline for practical follow-up initiatives

Broader context:

Global Cybersecurity Agenda
Cybersecurity Course

- **Foundation Course (one month)**
  - Ensures basic understanding and shared context
  - Guides participants with varied backgrounds
  - Creates an initial community and shares knowledge

- **Advanced Courses (one month)**
  - Explore important issues in depth
  - Provide multiple perspectives
  - Engage participants experience and views
Online collaborative research

- Initial training provides context and background for policy research *(what is policy? how to do a policy research?)*

- Research of the national and regional challenges and status, and impact of relevant policies *(what, who, where, how, when?)*

- Research results published and disseminated to decision makers
Policy Immersion

- Practice oriented
- Participation in policy processes
- Links with international organisations
- Opportunity to apply previous training
- Merit-based selection
Establishing Communities of Practice

- Functional integration of ITU’s Cybersecurity Toolkit into National and Regional Initiatives
- Participants remain active and involved
- New initiatives from the Community
- Regional activities and links
- Impact on national, regional and international level
- Using ICTs for communication and collaboration
Does it work?
Experience from Internet Governance

- Training of 400+ professionals worldwide over the last 4 years
- Establishment of National, Regional and Global Expert Communities
- Continuous communication after the training
Communities of Practice
Communities of Practice
Next Steps?

- **Framework:**
  - Global Cybersecurity Agenda

- **Toolkit:**
  - Use of ITU Cybersecurity Toolkit

- **Action:**
  - Introduce National, Regional and Global Cybersecurity Capacity Development

- **Approach:**
  - Walk the talk – Online Trainings and Community Building

- **Principle:**
  - Multistakeholder Participation

- **Planning:**
  - Development Period: 4-6 Months
About DiploFoundation

- Involved in Online Learning Since 1996 (as part of the Mediterranean Academy of Diplomatic Studies)
- Established as Independent Foundation by Governments of Malta and Switzerland in 2002
- Offices in Malta, Geneva and Belgrade
- 20 full-time and 40 part-time staff
- UN ECOSOC Special Consultative Status
- Alumni of 1000 diplomats, officials and academics
What Diplo Does

- Capacity Building Programmes
- Academic Courses (M.A., short courses)
- Development of Tools and Methodologies for Information and Knowledge Management
- Innovative approaches to learning – always engaging, interactive and collaborative
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