

National Cyber Security Strategy (NCS) Toolkit

Let's create a toolkit to help states to develop or improve their national cyber security strategies

Examples of Topics To Be Addressed

- ✓ The role, objectives and scope of a National Cyber Security Strategy in a line with the UN SDGs
- ✓ The definition/publication/review process: the Governance Model
- ✓ National and International Standards and government compliance program
- ✓ Critical Infrastructure Protection and integration with other national security/emergency programs
- ✓ National Risk Management program
- ✓ National Incident Response/CERT - integration/alignment with Military/Intelligence
- ✓ Implementation strategies for the Government
- ✓ Implementation strategies for Private Sector
- ✓ The definition/publication/review process: the Awareness Programme
- ✓ Aspects not typically covered by public strategies that should be considered and addressed

Components of Toolkit


Reference Guide

- A **single resource** for any country to gain a clear understanding of National Cyber Security Strategy in terms of:
 - the **purpose and content**
 - how to go about **developing a strategy**, including **strategic areas and capabilities**
 - the relevant **models and resources** available
 - the **assistance available** from various organisations and their contact details
- **FORMAT:** 15-20 page Word / PDF

Evaluation Tool

- A **simple tool** that allows national governments and stakeholders to:
 - Evaluate their **current status in each of the strategic areas** identified in the reference guide
 - Evaluate their **current status in cyber security lifecycle management**
 - Easily **identify key areas** for improvement
 - Provide a means for **measuring improvements** over time
- **FORMAT:** Excel or web-based worksheet

Co-authored and Co-owned by Partners

11 Partners who have been active in devising models and implementing cybersecurity strategies and is facilitated by experts at  **INTELLIUM**



All project partners contribute their knowledge and expertise in the National Cyber Security domain, thereby providing a high added value to the toolkit definition

Five key elements to consider when designing a toolkit



By leveraging the strengths of existing guidelines and evaluation tools across these elements...

Models / Tools	Geographic Focus		Target Strategy Applicability		Areas of improvement		Linkage/reference to other models		Designed for assessing improvements
	Global	Regional	New	Existing	Identify	Address	Global	Regional	Indicators
ITU National Cyber Security Toolkit (This project)	X	X	X	X	X	X	X	X	X
ITU – National Cybersecurity Strategy Guide (2011)	X		X						
Oxford Martin School – Cyber Capability Maturity Model (2014)				X	X				
CTO – Commonwealth Approach For Developing National Cyber Security Strategies (2014)		X							
Microsoft – Developing a National Strategy for Cybersecurity (2013)			X						
CCDCOE - National Cyber Security Framework Manual (2012)	X		X						
OECD - Cybersecurity Policy Making at a Turning Point (2012)			X						
OAS – Cyber Security Program (2004)		X	X						

...we can achieve our goal of adding value to members by creating a framework that leverages global best practices

Strengths of NCS Toolkit

A nation-neutral toolkit that can be applied globally:
Europe, Africa, Americas, Asia Pacific, ...

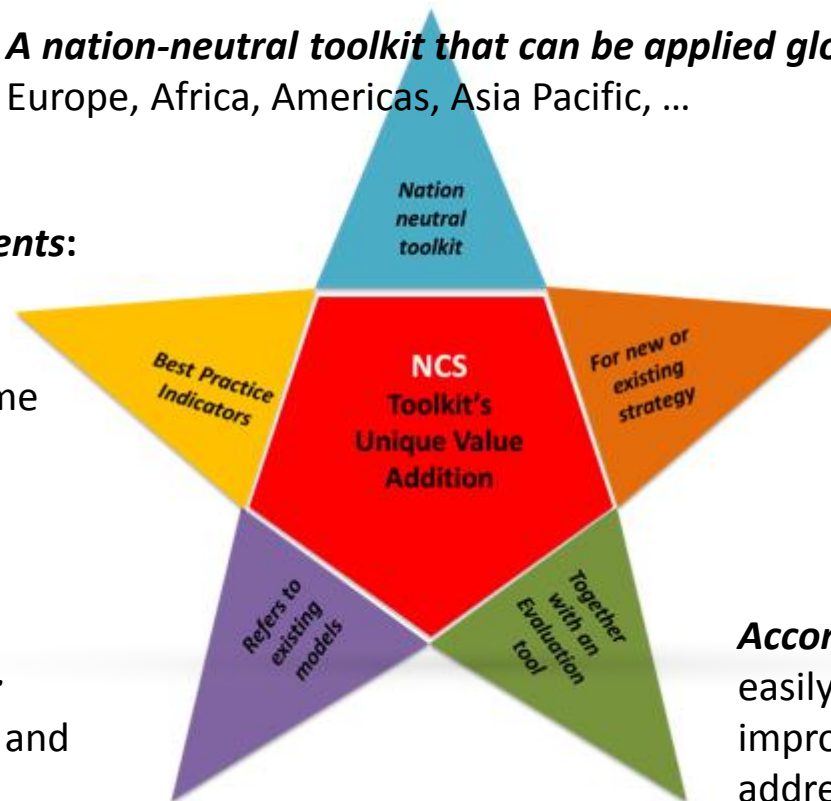
Measuring improvements:

provide best practice indicators to assess improvements over time

Reference to other

guidelines/references:

link to existing models and evaluation tools



Pragmatic reference guide can be used by all

countries, including micro-countries: developed strategies, new strategies under development, ...

Accompanying evaluation tool:

easily identify key areas for improvement and how they can be addressed

We have also defined the basic Reference Guide structure consisting of five main sections

WORK IN PROGRESS

National Cyber Security Toolkit

REFERENCE GUIDE

Est. 15-20
pages

Structure of Reference Guide

1 Toolkit Description

- Position relative to other guides
- Target Audience
- How to Use

2 Strategic Areas to Address

- Macro areas that a national strategy should address
- Public vs. confidential areas

3 Implementation Guidelines

- PDCA approach in national terms
- Elements relevant to implementation that should be outlined in the strategy

4 Development Blueprint

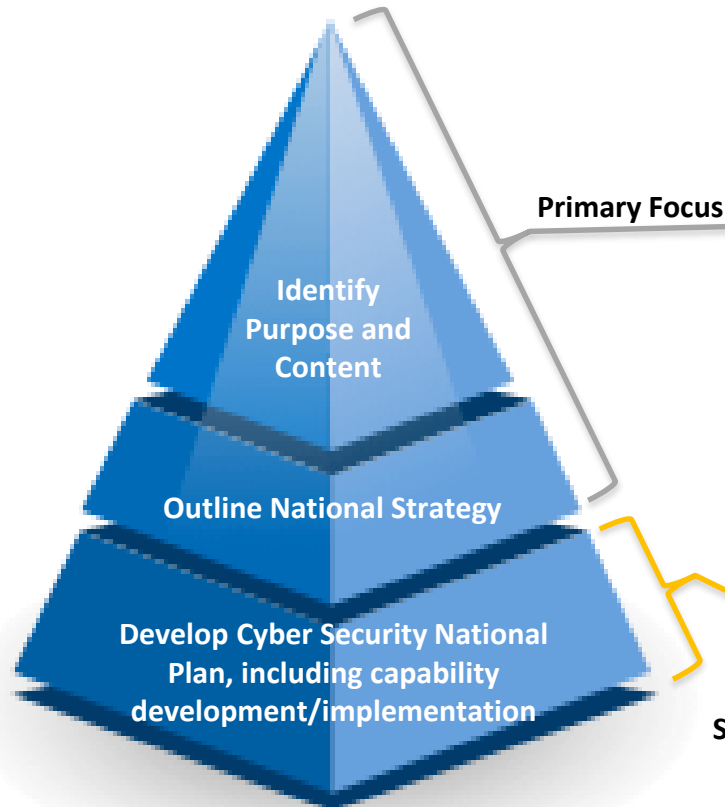
- Basic project approach for writing or improving a national strategy
- Lessons learned on what to avoid

5 Supporting Material References

- Direct links to supporting material to support writing the strategy
- Cross-references to other tools

Positioning and functionality of the toolkit

National Cyber Security Strategy Process



- The NCS Toolkit will provide national policy developers with **a means to evaluate their current status and identify areas for improvement** regarding:
 - Identifying the **purpose and content** of their own national cyber security strategy
 - Outlining the **strategic areas** that their national cyber security strategy should address
 - Defining a **management lifecycle process** to govern the implementation of the strategy
 - Establishing a **structured process** for strategy development
 - Finding **additional resources** to support strategy development

- The NCS Toolkit will provide national policy developers with **links to other best practice guidelines** for insights on how to:
 - Develop National Plan
 - Evaluate the current **maturity levels** of their national **cyber security capabilities**
 - **Compare their strategies / capabilities** against peers through ranking systems and criteria
 - ...more

Key Actions

- ✓ Background work on draft Reference Guide and partners identification
- ✓ Partnership Confirmation
- ✓ Partners Workshop of 18-19 February 2016
 - ✓ to work more on the Draft Reference Guide & evaluation tool
- ✓ Completed toolkit reviewed by experts
- ✓ Pilot test the toolkit
- ✓ Launch for use by all partners