

Good Practices Cyber Exercises: Cyber Europe & Cyber Atlantic



Cyber Crisis Exercises & Cooperation

Resilience and CIIP Unit

ENISA

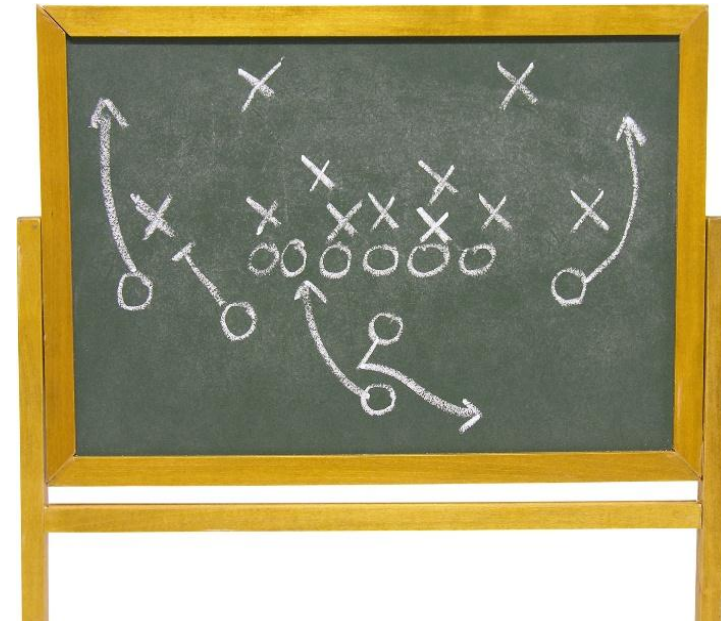


Agenda

- Introduction
 - Cyber Exercises Area at ENISA
- Good Practices on Cyber Exercise Organisation
 - The Cyber Exercise Lifecycle
- Case studies
 - Cyber Europe
 - Cyber Atlantic
- Cyber Exercise Stocktaking

Cyber Exercises at ENISA

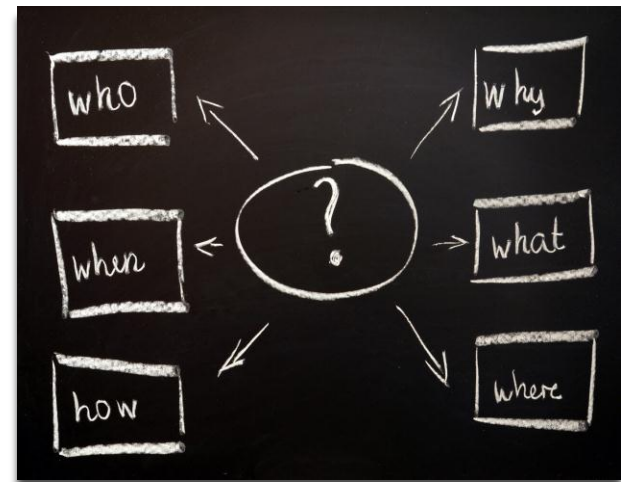
- **2009**
 - Good Practice Guide on National Exercises
- **2010**
 - Support all Member States (MS) to run exercises (seminars)
 - The first Pan-European Exercise 'Cyber Europe 2010'
- **2011**
 - Study National Cyber Contingency Plans (NCPs)
 - Cyber Atlantic 2011
- **2012**
 - Two regional exercises (EuroSOPEX)
 - Cyber Europe 2012
 - Cyber Exercises Stocktaking
 - International Conference on Cyber Exercises, Paris, 27th June 2012



<http://www.enisa.europa.eu/activities/Resilience-and-CIIP/cyber-crisis-cooperation/cyber-exercise-stocktaking/cyber-exercise-conference>

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Lifecycle of an Exercise

The Exercise Lifecycle



Lifecycle of an Exercise

The Exercise Lifecycle



Identifying The Exercise

Identify Clear Objectives

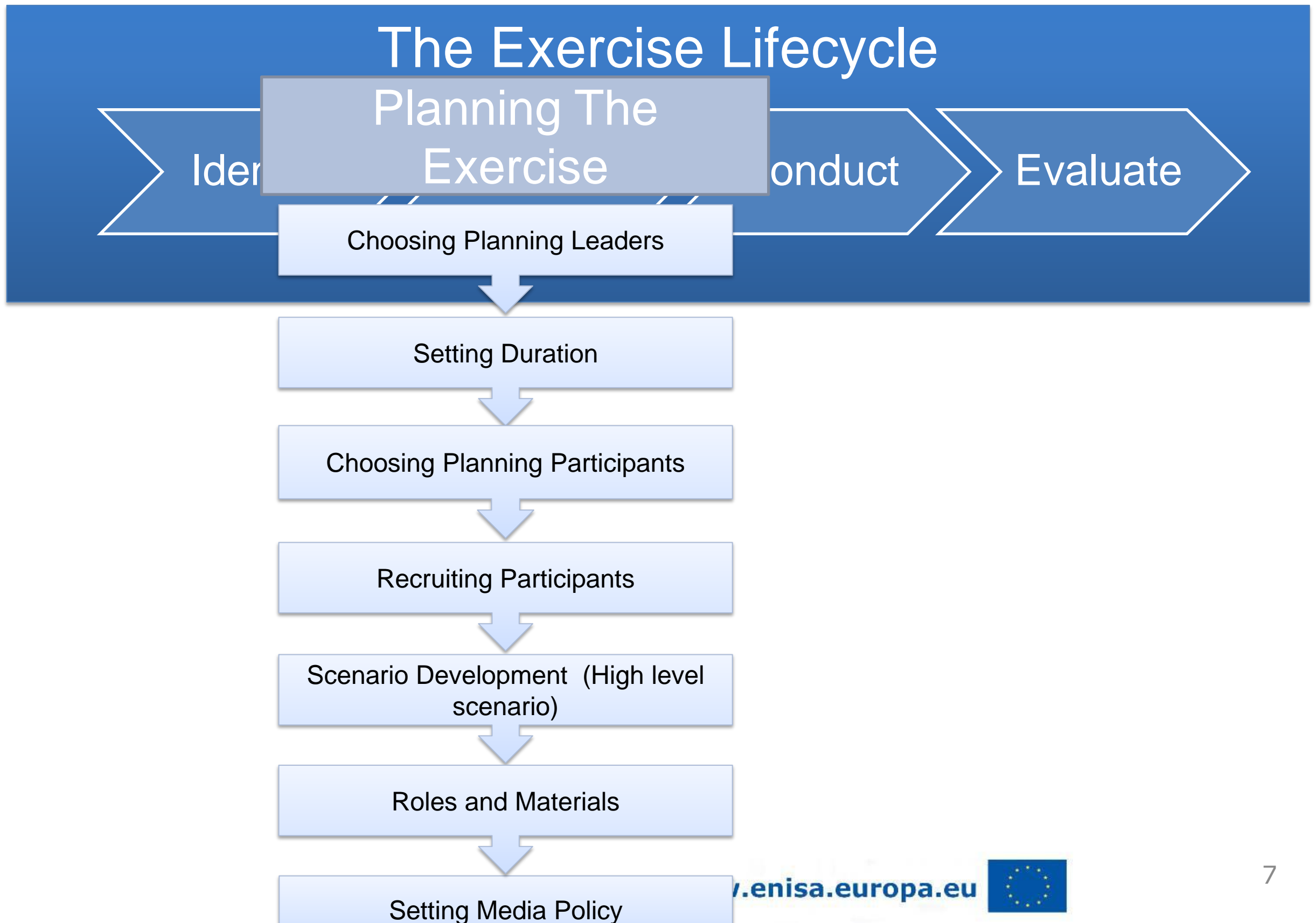
Choose a High-Level Scenario

Choose a Type of Exercise

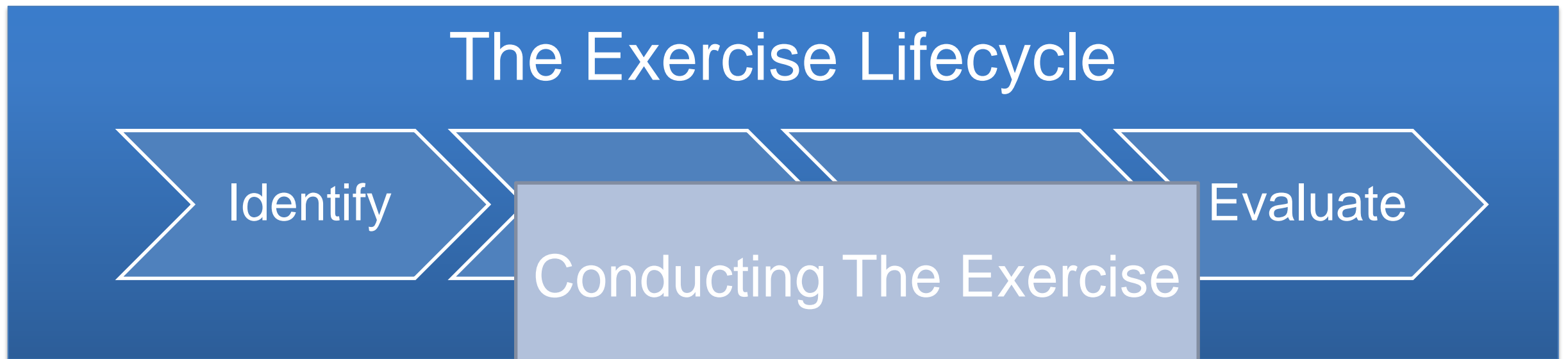
Identify Key Participants

Set The Size and Scope

Lifecycle of an Exercise



Lifecycle of an Exercise



Training Participants



Executing Roles and Tasks



Managing The Scenario and Injects



Lifecycle of an Exercise

The Exercise Lifecycle

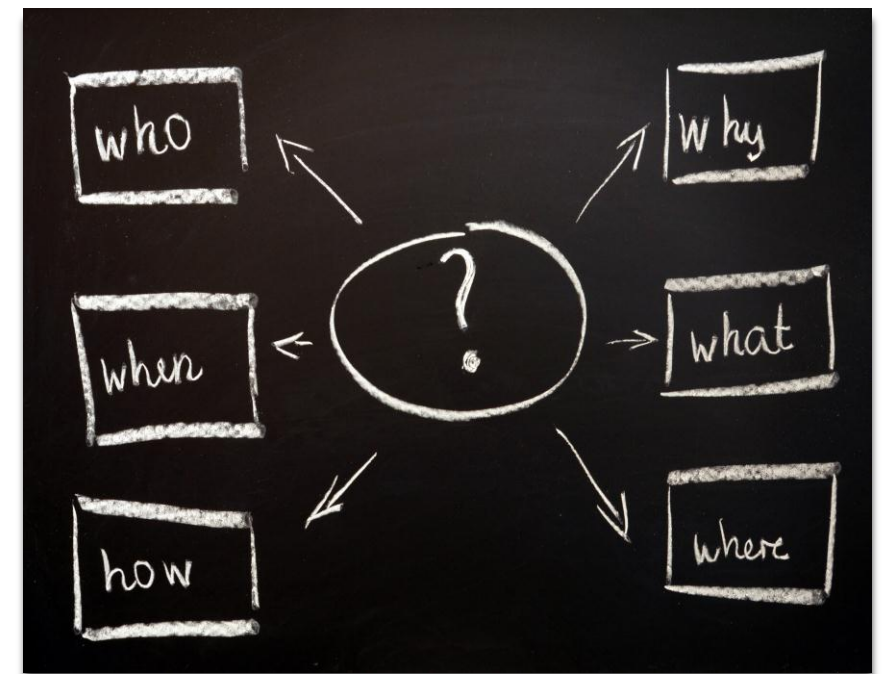


ENISA Good Practice Guide

- Available online at:

<http://www.enisa.europa.eu/activities/Resilience-and-CIIP/cyber-crisis-cooperation/exercises>

- Full day seminars



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Cyber Europe 2010: First Pan European Exercise

- Table top exercise
- Incidents affecting all EU Member States
- Tested mainly communication & cooperation
- Involvement of public authorities/bodies only
- Concentrated on members of the CIIP community
– no political escalation
- **Test Carried out on 4 November 2010**
- **Utilised the ENISA Good Practice Guide**



Objectives

- Increase understanding of how cyber incidents are handled by Member States
- Test communication points and procedures between participating Member States
- Build trust among participants - help to establish mutual support procedures
- Create a CIIP community with a focus on exercises



The Scenario

- The scenario was not the focus of the test **but was used to support the test.**
- Based on a Cyber Incident.
 - The impact is on IP networks - large operators – cross country interconnections.
 - Assumed that voice (PSTN/Mobile) communications and power networks are not affected.
- Implemented as 320 injects.



Participation

- All EU Member States and 3 EFTA countries participated
- Profile of Participants:
 - Ministries, National Regulatory Agencies, CIIP and Information Security related organisations, CSIRTs and other related stakeholders
 - 70 organisations and 150 experts
- The role of ENISA was to help Member States to prepare - facilitation and project management.
- The role of the JRC was to provide scientific and technical support for the exercise itself.



Findings

- Findings have been published as a report on the ENISA web site.
- These findings have been grouped:
 - Planning & Structure.
 - Building Trust.
 - Understanding.
 - Points of contact.
- A set of recommendations can also be found in the final report.



<https://www.enisa.europa.eu/activities/Resilience-and-CIIP/cyber-crisis-cooperation/cyber-europe>

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1st Joint EU-US Exercise - key facts

- ★ Announced in April during the Hungary Ministerial Conference
- ★ Table top, centralised, discussion based
- ★ Exploratory nature
 - ★ how do we engage each other?
- ★ Planning team with experts from 15 countries
- ★ Exercise completed on 03.11.11



**CYBER
ATLANTIC
2011**

i.europa.eu



Exercise lessons learned

- Modern communication and conferencing facilities are needed for crisis cooperation of large groups
- Mechanisms/structures for cross-border cooperation do exist; however, each country needs awareness of all communications options
- Exercises need increased participation from all three: Technical, Law Enforcement, Policy/Political
- Single Point of Contacts would help but are not compulsory
- More exercises/workshops are needed!

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Contact and Questions

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