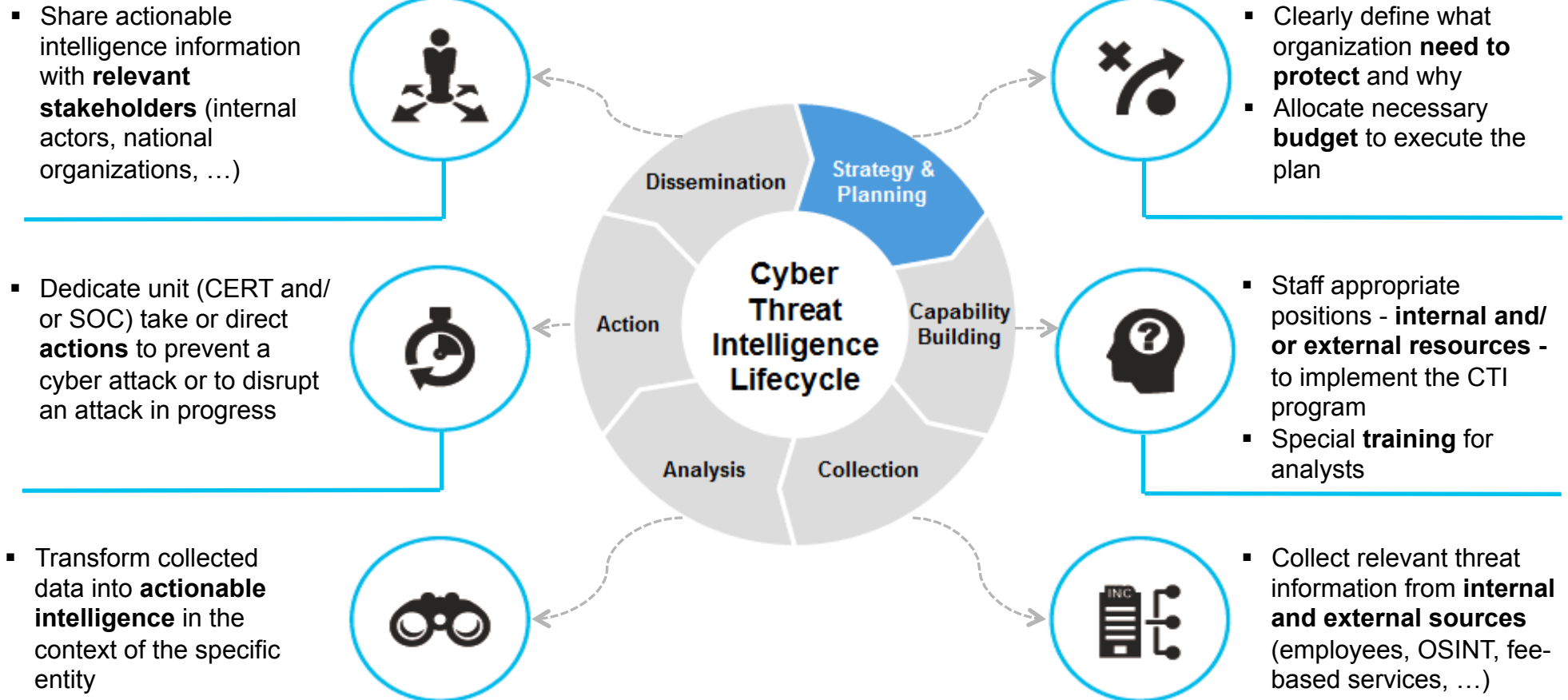




The organization should leverage a continuous CTI lifecycle that consistently maintains his awareness positioning

Threat Intelligence Lifecycle





Intellium produced a viewpoint on Cyber Threat Intelligence, available on our website



Cyber Threat Intelligence report



Topics covered

- What is Cyber Threat Intelligence
- The attacker's inherent advantage
- Building a CTI capability
- Why CTI programs fails
- Conclusions

More info on

<http://www.intelliumgroup.com>



Session Objectives



Objectives

- Present **main topics, objectives** and **tools** for CERT cooperation and coordination



We have selected three relevant topics, related to CERT capabilities, that will be addressed during the drill

Cyber drill topics

Topics	Description	Objectives
<div>1</div> <div>Information Sharing</div>	One of the CERT role is to enable the communication between members of the same and different Constituency	<ul style="list-style-type: none">• Gain information on vulnerabilities and threat that otherwise not have access to• Through vulnerability and threat intelligence, prevent and reduce the occurrence / impacts of cyber incidents
<div>2</div> <div>Reporting Threats/ Vulnerabilities / Incidents</div>	Analysis conducted by CERT in order to restore / sanitize the situation. This will be the starting point to report the event, including mitigation guidance, recommendation and best practices	<ul style="list-style-type: none">• Be alerted to threats and potential vulnerabilities experienced by others, therefore be better prepared themselves• Learn from others and adopt best practice
<div>2</div> <div>Cooperation with LEAs</div>	Establishment of cooperation mechanism to coordinate in case of cyber incidents	<ul style="list-style-type: none">• Tackle security issues collectively so as to generate a “public good”

Objective of this Cyber Drill is to improve CERT capability to coordinate and communicate with relevant stakeholders in order to manage cyber incidents

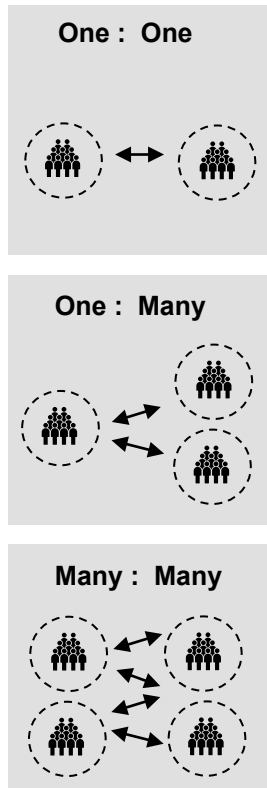


One of the crucial aspects of CERT work consists of the exchange of information and communication

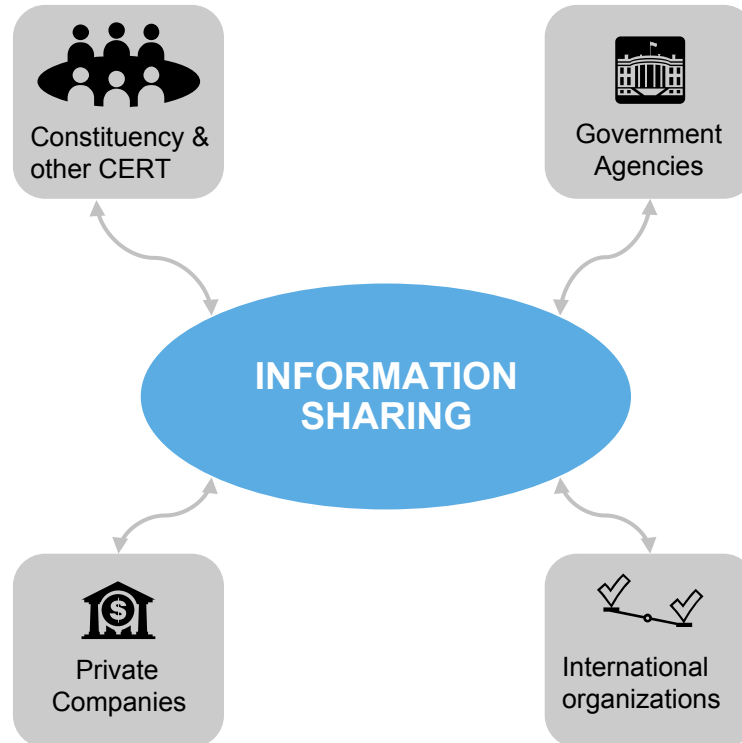
1

Information Sharing

Ways to share



Involved actors



Enablers

- Conferences/Seminars
- Standards/Good Practices
- Social networking tools
- Blogs
- Wikis
- Forums
- Working groups
- Professional groups
- Binding rules of behaviour:
 - NDAs
 - Chatham House
 - Information sharing protocol (ex. Traffic Light Protocol – TLP)

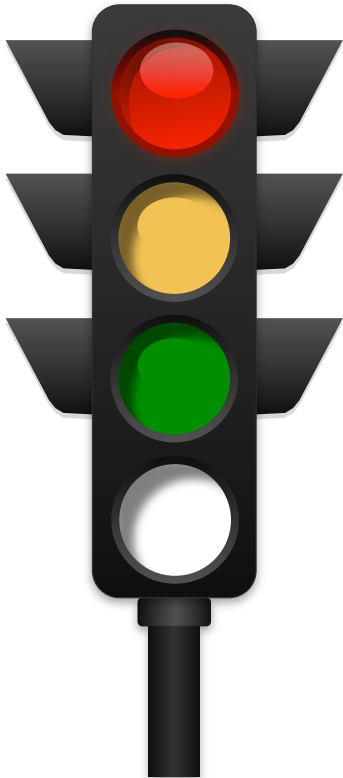
Final goal is to derive a fundamental mutual value proposition: the more effectively information is shared and exchanged between interested parties, the faster cyber incidents can be mitigated and less damage occurs.



In particular, sensitive information should be classified and shared according to information sharing protocol, such as TLP

1

Traffic Light Protocol - TLP



Color	Type of information	Sharing
RED	Information cannot be effectively acted upon by additional parties, and could lead to impacts on a party's privacy, reputation, or operations if misused.	Information exclusively intended for direct recipients
AMBER	Information requires support to be effectively acted upon, but carries risks to privacy, reputation, or operations if shared outside of the organizations involved.	Information for an organisation, possibly limited to certain persons in the organisation
GREEN	information is useful for the awareness of all participating organizations as well as with peers within the broader community or sector.	Peers and partner organizations within their sector or community, but not via publicly accessible channels.
WHITE	information carries minimal or no foreseeable risk of misuse, in accordance with applicable rules and procedures for public release.	information may be distributed without restriction, subject to copyright controls.

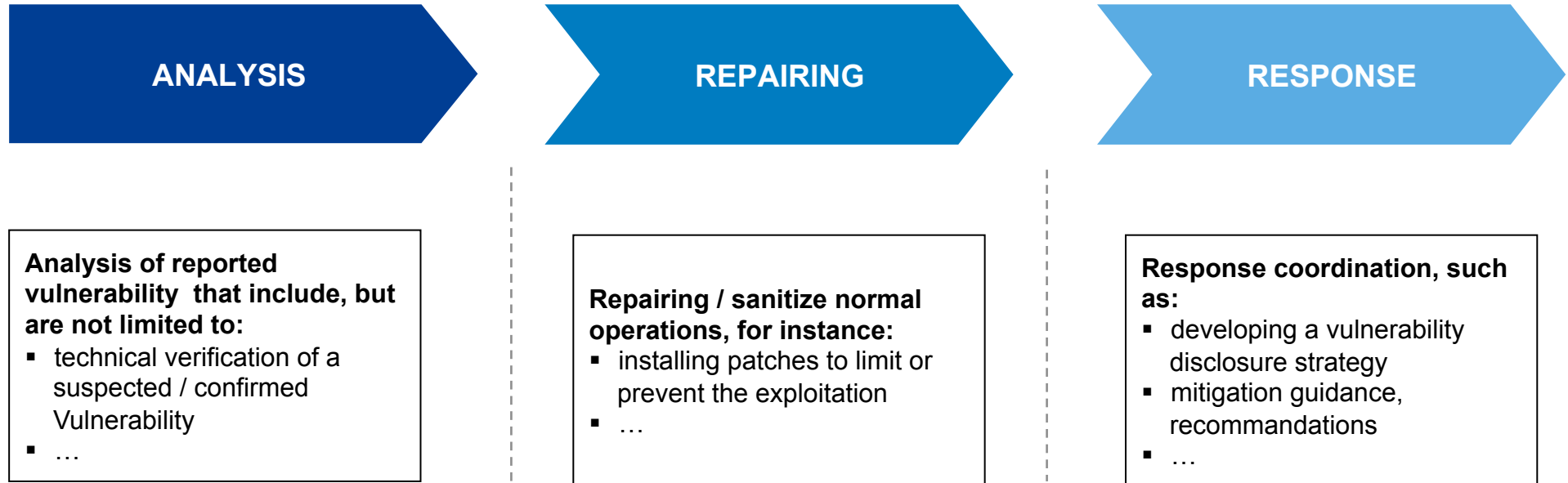
TLP provides a simple and intuitive schema for indicating when and how sensitive cybersecurity information can be shared within the global cybersecurity community of practice.



An important role of the CERT embraces the incident handling process and related activities

2

Report Threats / Vulnerabilities / Incidents



The CERT will act in order to establish and maintain the communication among several actors, such as other involved CERT, vendors.
The main role of CERT is to advise in case of threats, vulnerabilities and cyber incidents



In order to create an effective cooperation among CERT and LEAs/Institutions, an adequate agreement has to be identified

3

Cooperation with LEAs/Institutions

Aspects to be addressed

- Definition of dedicated **information sharing protocols** and classification of information
- Increase the **communication**, for instance in terms of consultations, when CERT receives a request from LEAs
- **Periodic Training** activities
- ...

Actors to be involved

- **Local enforcement Agencies** at national (ex. Police Forces) and international level (ex. Interpol)
- **National Institutions** with dedicated units for cybersecurity (ex. National Intelligence)
- **International Organizations** (ex. ITU-IMPACT, Africa CERT, FIRST)
- ...

The combination of these two components is the key element to create the framework for cooperation mechanism



Therefore, our session is structured into four main parts, three for the exercises and one for the wrap-up

Time Schedule

#	Item	Time	Duration
1	Introduction to the exercise	14:00 – 14:10	10 minutes
2	Task 1: Information Sharing	14:10 – 14:35	25 minutes
3	Task 2: Early Warning	14:35 – 15:00	25 minutes
<i>Coffee Break</i>		15:00 – 15:15	15 minutes
4	Task 3: Cooperation with LEAs / Institutions	15:15 – 15:45	30 minutes
5	Exercise summary and wrap-up	15:50 – 16:00	10 minutes
Total duration			1 hour, 45 minutes

A “conductor” from Intellium will coordinate the drill by providing the teams instructions. Moreover, he will be available to answer any questions that may arise and will evaluate final results by giving useful feedback to improve CERT functionalities.



As you have been informed, we are conducting a questionnaire to collect useful information for the cyber drill



Cyber drill questionnaire

<https://www.surveymonkey.com/s/Intellium>



**Focusing on cyber security
for critical infrastructures.**