

Information Sharing Agreements?

For sharing threat intel...

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Restricted

CTI

- "Cyber threat intelligence represents a force multiplier for organizations looking to update their response and detection programs to deal with increasingly sophisticated advanced persistent threats. Malware is an adversary's tool but the real threat is the human one, and cyber threat intelligence focuses on countering those flexible and persistent human threats with empowered and trained human defenders."
 - https://www.sans.org/cyber-security-courses/cyber-threat-intelligence/



Cyber Threat Intelligence



- "The analysis of an adversary's intent, opportunity, and capability to do harm is known as cyber threat intelligence. Intelligence is *not* a data feed, nor is it something that comes from a tool. Intelligence is actionable information that addresses an organization's key knowledge gaps, pain points, or requirements."
 - https://www.sans.org/cyber-security-courses/cyber-threat-intelligence/
- "...is systematic collection, analysis and dissemination of information pertaining to a company's operation in cyberspace and to an extent physical space. It is designed to inform all levels of decision makers. The analysis is designed to help keep situational awareness about current and arising threats."
 - https://www.first.org/global/sigs/cti/curriculum/cti-introduction#A-working-definition-for-Cyber-Threat-Intelligence



We all have staff and skill shortages, are we:







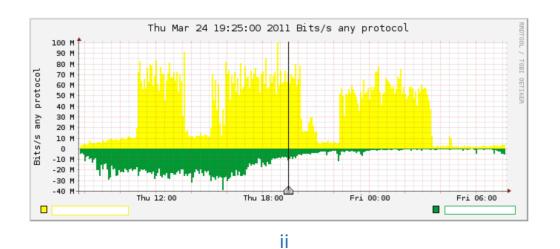
to ease the common burden?

Images source: unsplash.com /@lennykuhne /@airfocus /@nicolesherrero

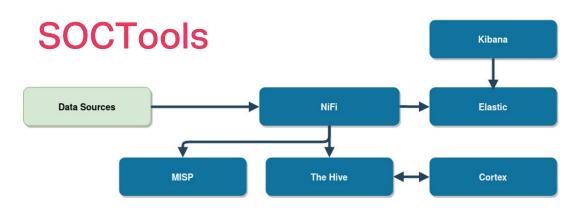


We have the data & tools













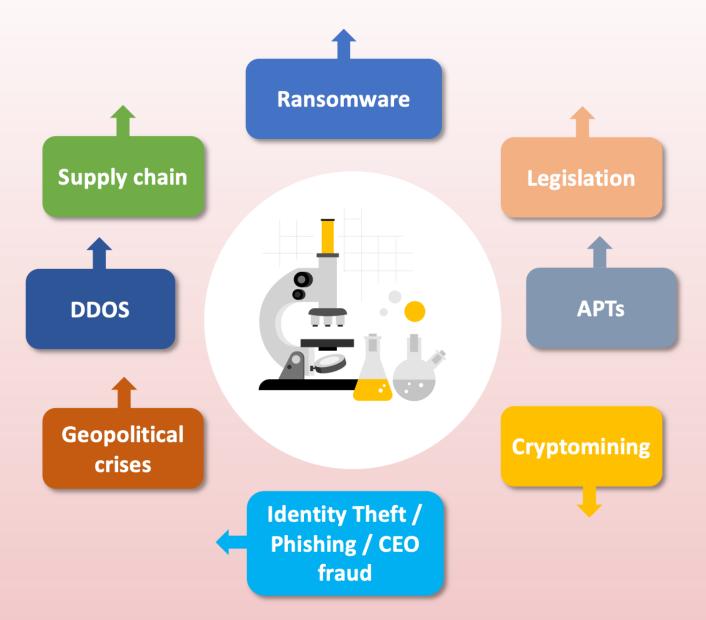
i: unsplash.com/@anvesh1616

ii: yurisk.info/Nfsen_custom_profile.png

iii. shadowserver.org/what-we-do/network-reporting/

THREATS





CHALLENGES

Boundaries & Borders

Laws & Regulations

Standards & Processes

Resources & Skills

Time & lack of Automation

Different levels of Maturity

How do we get to:

- Creating, verifying and sharing CTI
- that is trusted, timely and actionable?

+

- Collaborating
- Communities
- Shared operations / managed services?
- Resources
- = Getting ahead!



GN5-1 WP8: Security Overview of activity – ongoing and new

Task 1: Best Practices,
Security Baseline

Task 4: Research

Securing High Speed networks

Security Incubator

Task 5
Security and privacy coordination across workpackages

Task 3: Delivery of Services and tools:

DDOS detection & mitigation: NeMo + FoD

Support for eduVPN

Tools for security operations

Cryptographic services

Broker (NREN) security services

Cyber Threat Intelligence

European R&E security Intelligence Hub

Task 2: Security Training and Awareness

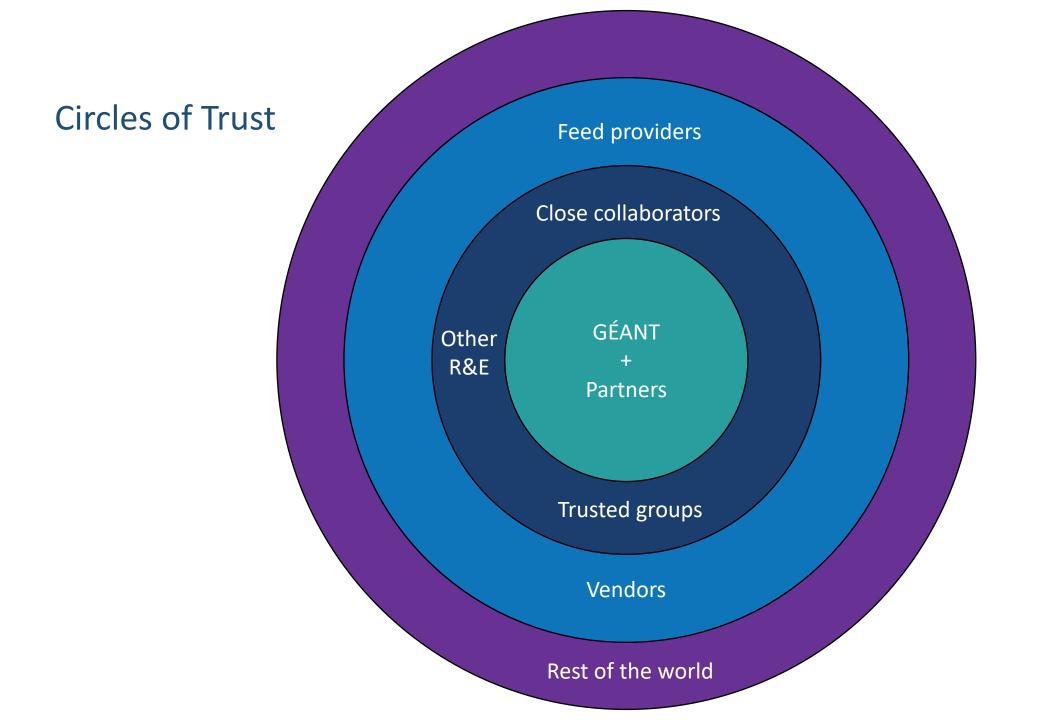
Cybersecurity Month, Regular awareness updates

Security training: Expert, basic and al-round

Incident Respons and crisis management

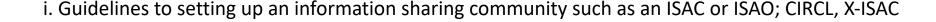
Career development/ mentoring: identify talents, stimulate and support cross training





Potential types of agreements i

- Subscriber agreement
 - legally binding
 - private entities / commercial activities
- Confidentiality/NDA agreement
 - establishes what (type of) information can be considered as confidential
 - use of TLP / similar
 - can also set obligations for the recipient of the confidential information
- Code of Conduct
 - not legally binding
 - standard community practices / guidelines for behaviour
- MoU
 - bilateral agreement between information sharing community and external entity
 - framework for cooperation
- Informal agreement
 - trust-based





Agreements on information		
sharing	Use	Туре
NDA	Usually bi-lateral, often used with law enforcement or government bodies	
Code of conduct	Usually multi-lateral, provides straightforward instructions on the standard practices and guide the behaviour of the members of the organisation	Usually not legally binding but in written form
MoU	Usually bi-lateral, often used with law enforcement or government bodies	Usually not legally binding but in written form
Informal agreement	Based on trust of the members of the organisation. It does not require any formalisation and usually takes oral form	Usually in oral form

Potential types of agreements

- Subscriber agreement (GÉANT + NRENs already have)
 - GN5 Consortium / Framework Partnership Agreement
 - + Specific Grant Agreement
- Confidentiality/NDA agreement
 - included in above
- * Code of Conduct (TF-CSIRT, FIRST, etc.)
 - not legally binding
 - standard community practices / guidelines for behaviour
 - * more specific than FPA / SGA e.g. include TLP
- * MoU
 - bilateral agreement between information sharing community and external entity
 - framework for cooperation
- Informal agreement
 - trust-based



GN5 Framework Partnership Agreement

- 10. Data Protection (+ privacy policy) → personal data
- 10.1. Each Party will comply with all applicable requirements of all data protection and privacy legislation in force from time to time in the countries in which they operate or are established (the "Data Protection Legislation"). This Article 10 is in addition to, and does not relieve, remove or replace, a Party's obligations or rights under the Data Protection Legislation.
- 10.2. As and when required by the applicable Data Protection Legislation the Parties shall enter into bilateral or multilateral data sharing and/or data processing agreements between them in relation to any personal data that they share between them.

12. Non-disclosure of information -> confidential data

- 12.1. All information in whatever form or mode of transmission, which is disclosed by a Consortium member (the "Disclosing Party") to any other Consortium member (the "Recipient") in connection with a Project during its implementation and which has been explicitly marked as "confidential", or when disclosed orally, has been identified as confidential at the time of disclosure and has been confirmed and designated in writing within 15 days from oral disclosure at the latest as confidential information by the Disclosing Party, is "Confidential Information".
- 12.2 The Recipients hereby undertake in addition and without prejudice to any commitment of non-



GN5-1 Grant Agreement

ARTICLE 13 — CONFIDENTIALITY AND SECURITY

13.1 Sensitive information

The parties <u>must keep confidential</u> any data, documents or other material (in any form) that is identified as sensitive in writing ('sensitive information') — during the implementation of the action and for at least until the time-limit set out in the Data Sheet (see Point 6).

If a beneficiary requests, the granting authority may agree to keep such information confidential for a longer period.

Unless otherwise agreed between the parties, they may use sensitive information only to implement the Agreement.

The beneficiaries may disclose sensitive information to their personnel or other participants involved in the action only if they:

- ☆ (a) need to know it in order to implement the Agreement and
- \bigstar (b) are bound by an obligation of confidentiality.



GN5-1 Grant Agreement

ARTICLE 15 — DATA PROTECTION

15.1 Data processing by the granting authority

Any personal data under the Agreement will be processed under the responsibility of the data controller of the granting authority in accordance with and for the purposes set out in the Portal Privacy Statement.

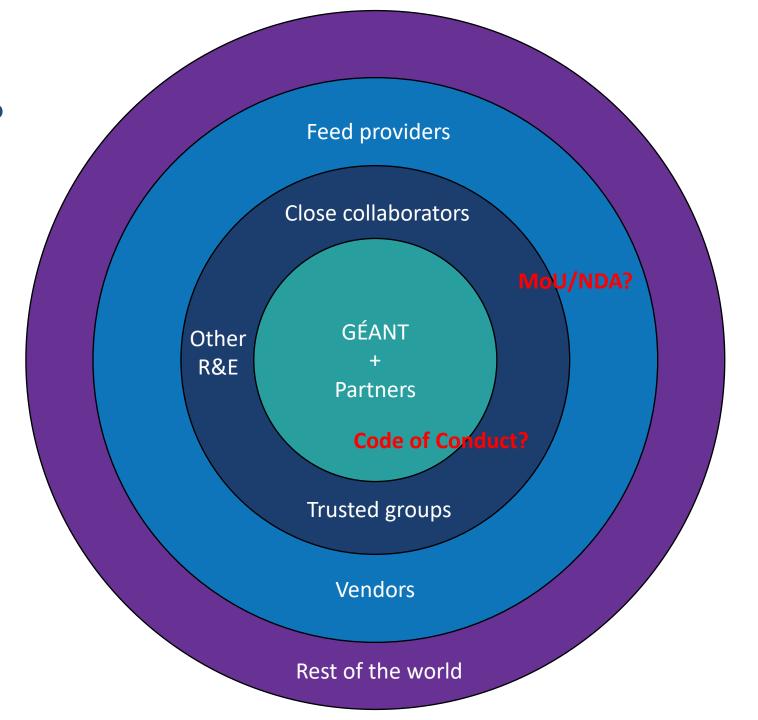
For grants where the granting authority is the European Commission, an EU regulatory or executive agency, joint undertaking or other EU body, the processing will be subject to Regulation 2018/1725¹⁵.

15.2 Data processing by the beneficiaries

The beneficiaries must process personal data under the Agreement in compliance with the applicable EU, international and national law on data protection (in particular, Regulation 2016/679¹⁶).



Agreements?

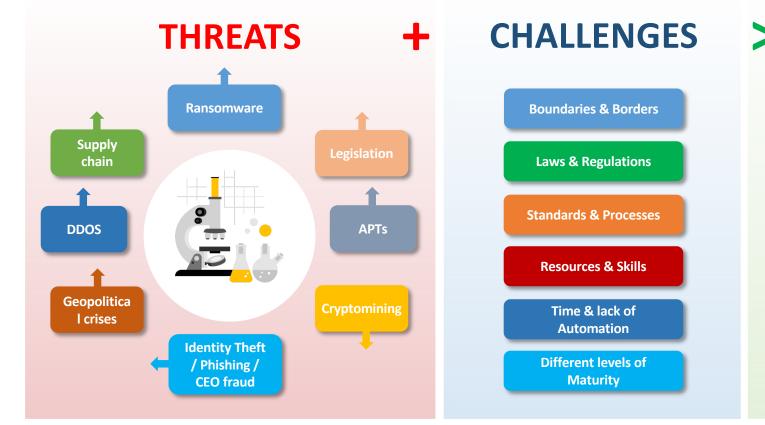




The European R&E Security Intelligence Hub



From: Raw Data + Tools To: Intelligence + Information Sharing







Thank You

Any questions?

www.geant.org



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