



# WP8 T4 CTI (Cyber Threat Intelligence)

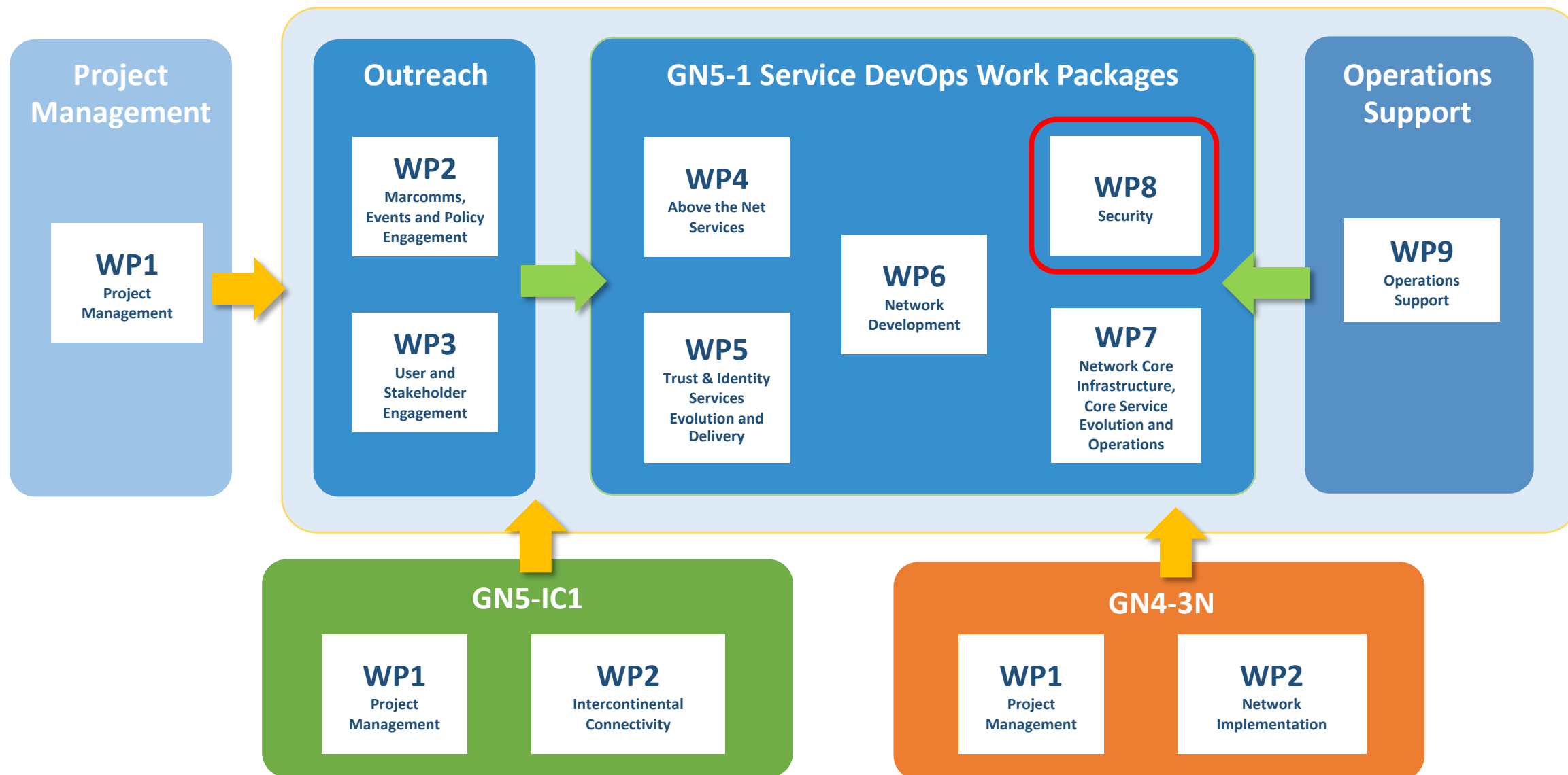
Summary

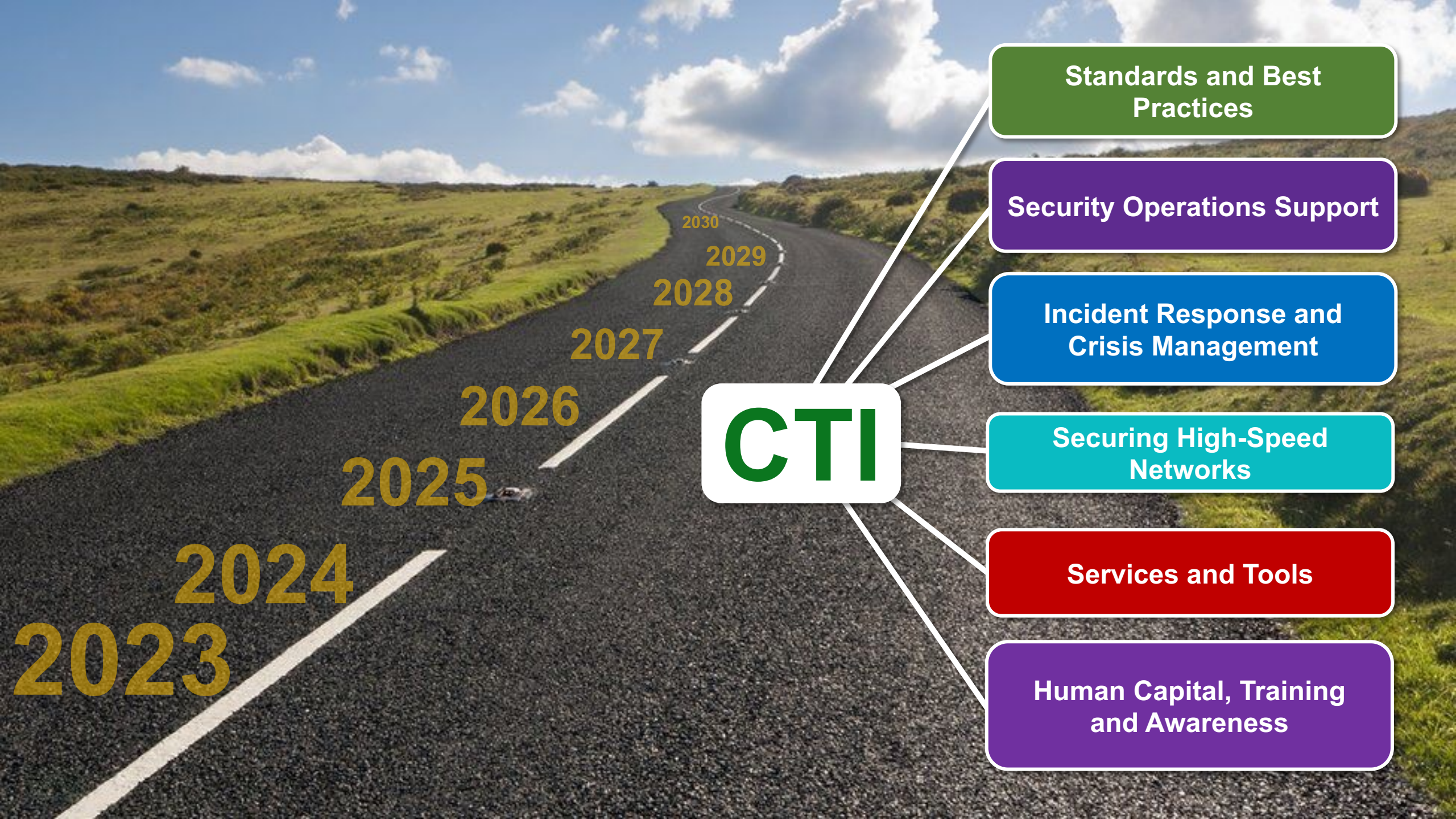
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T4 Task Lead

09 October 2024

SIG-ISM

# GN5 Project Work Package elements





**CTI**

**Standards and Best Practices**

**Security Operations Support**

**Incident Response and Crisis Management**

**Securing High-Speed Networks**

**Services and Tools**

**Human Capital, Training and Awareness**

## GN5-1 CTI 2023(-2024) journey

- In-person meetings at SURF Utrecht in May 2023, Security Days Prague April 2024 + next planned for Nov 2024
- Virtual meeting fortnightly to share experiences
- Delivered: Business model for R&E Security Intelligence Hub
- Identified MISP as de-facto tool for (most) information sharing
  - Especially IOCs + meta-data

## R&E Security Intelligence Hub: The Concept

- ISAC-like virtual organisation
- Data + expertise
- Threat analysis
- Aggregation + correlation
- Communications coordination
- Trend reporting
- Uniting the R&E community!



<https://resources.geant.org/project-output/gn5-1-milestones/> →

## M8.2 Business Model for a European R&E Security Intelligence Hub



Published date | 27 October 2023

This white paper presents the business model of a Research and Education Security Intelligence Hub – a virtual organisation that seeks to create, collect, analyse, classify, and share actionable security intelligence for research and education. It highlights the key outcomes of a Business Model Canvas workshop, SWOT analysis and indicative information-sharing agreements, providing guidance for the next steps required towards establishing the Hub.

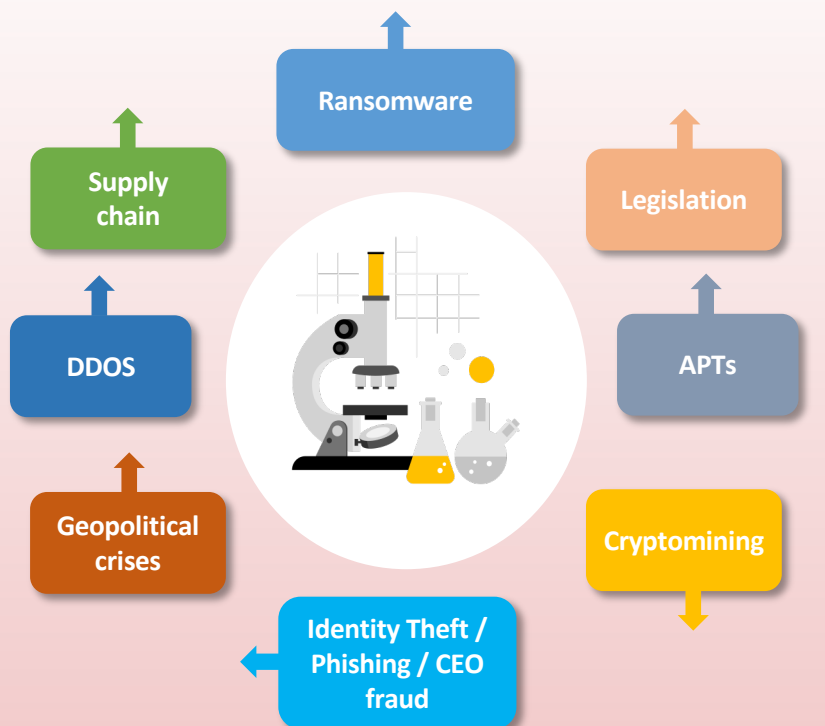
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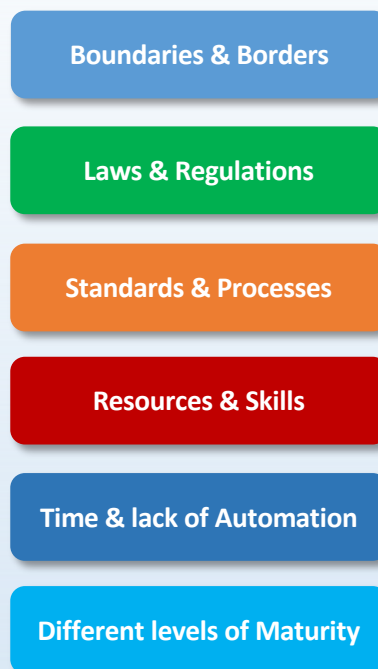
# The R&E Security Intelligence Hub

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

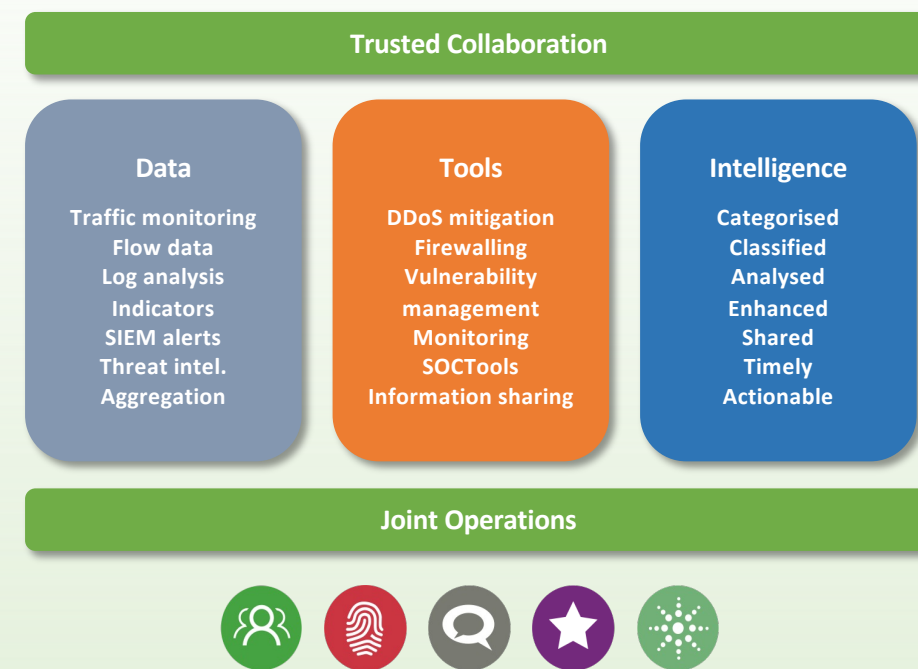
## THREATS



## CHALLENGES



## SOLUTIONS



## Value Propositions



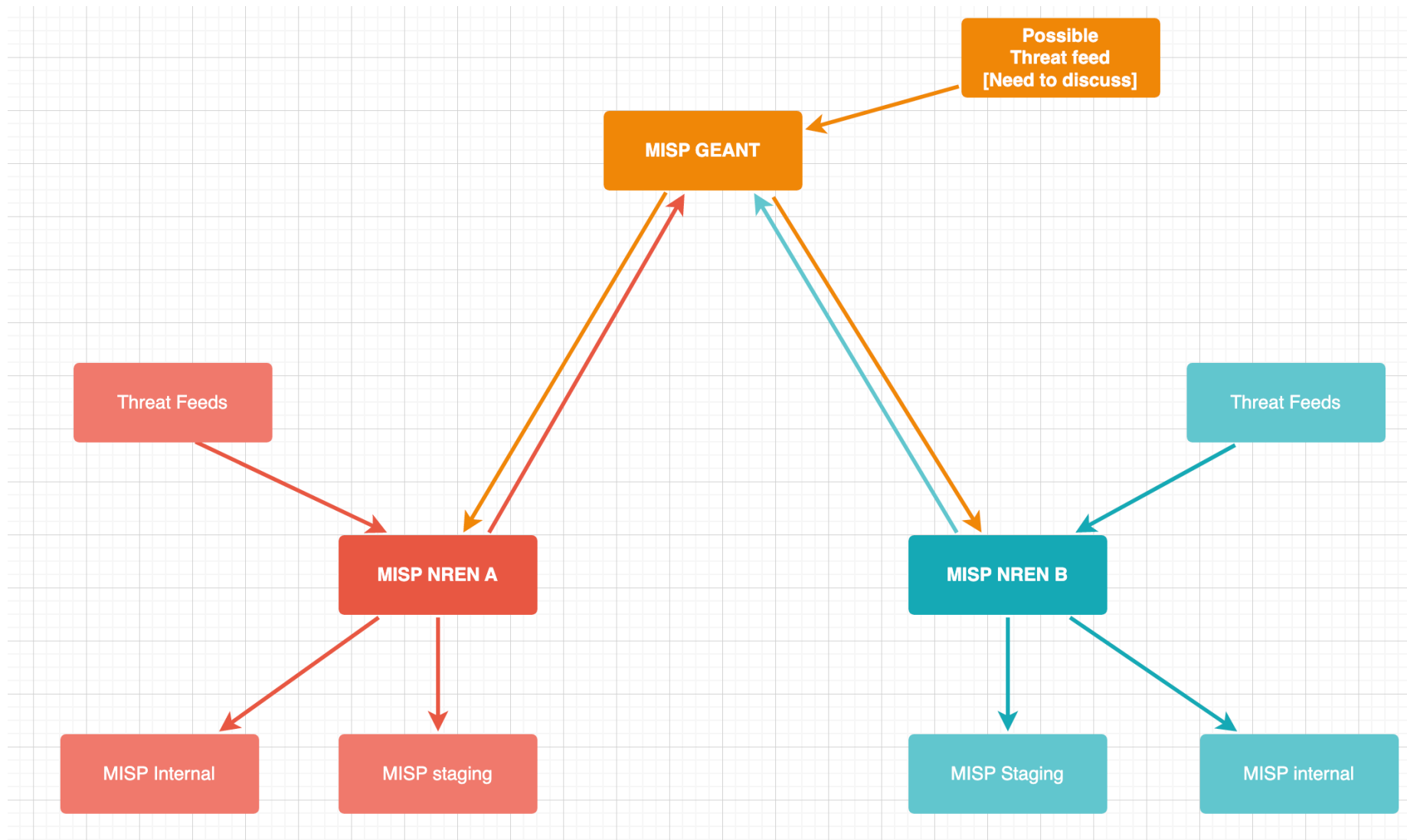
- **Sharing the workload**
  - (reduce duplication of effort)
- **Addressing common challenges**
  - Together!
- **Distributing resources**



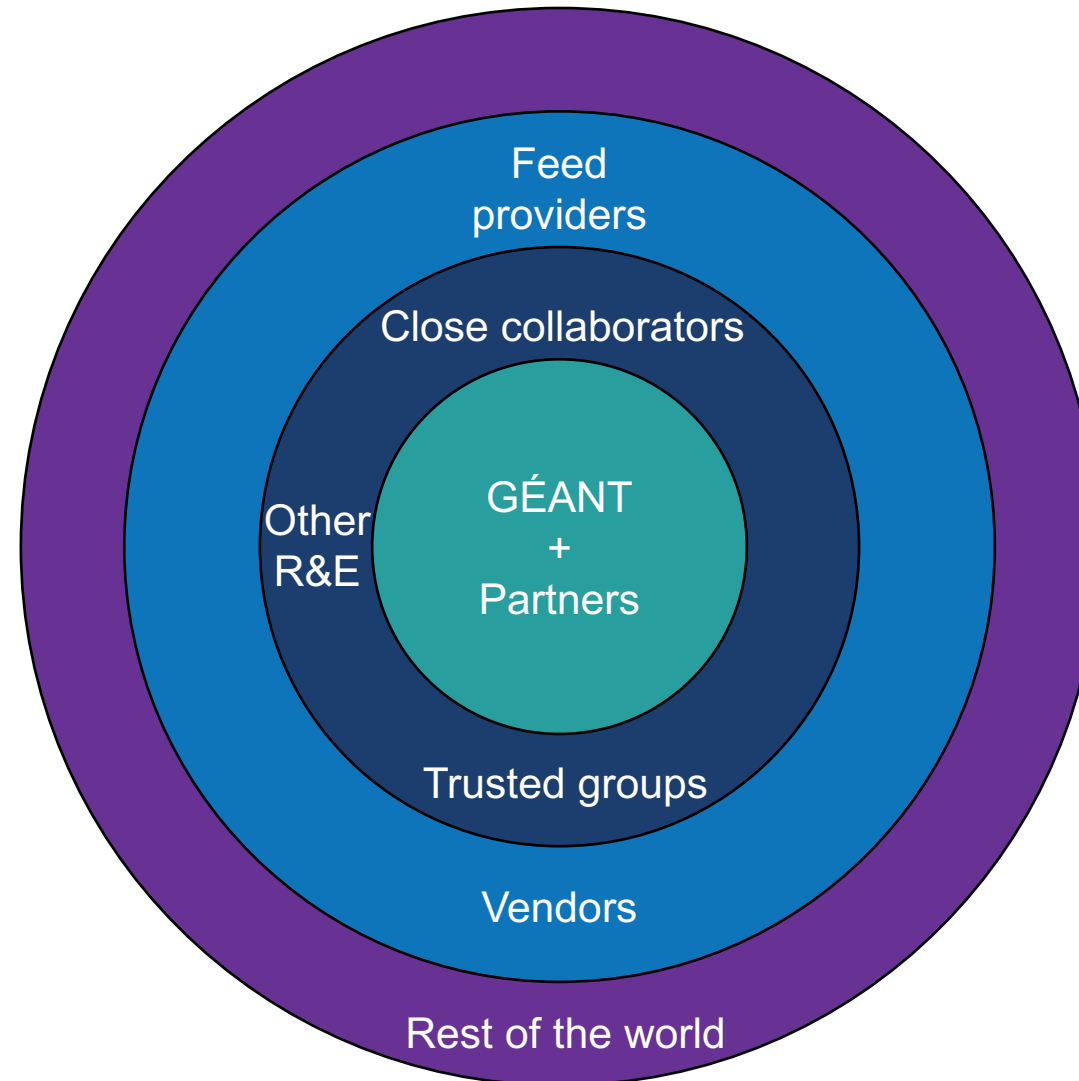
→ improved view of the R&E threat landscape

- **Verified (and therefore actionable) data** – e.g. IOCs
- **Creating intel specifically for / relevant to R&E** – e.g. threat actor reports
- **Sharing consumed intel** within our own networks and constituencies
- **Central contact point** for R&E CTI
- **Trends and statistics** – e.g. Portal/dashboard(s) showing key intel and metrics for customers
- **CTI-related tooling blueprint** (optimised architecture and implementation)
- **Early(ier) warnings** of possible compromise, vulnerabilities, etc.

# R&E Hub: MISP Setup



# Information Sharing Agreements: Circles of Trust



# Information Sharing Agreements

Level	Trust Group	Sharing agreement(s)
1	GÉANT + Partners	Code of conduct + existing GN project contracts
2	Trusted groups Close collaborators Other R&E	MoU / NDA (depending on the parties involved)
3	Vendors Feed providers	Subscriber agreement (or equivalent contract)
4	Rest of the world	N/A. Probably only TLP:CLEAR and GREEN (i.e. non-sensitive) information

## GN5-1 CTI (2023-)2024 journey

- Exploring means to correlate IOCs with network traffic / flow data / logs / DNS, etc.
- 4 NRENs sharing + 4 more joining in 2025
- <details redacted>

## GN5-2 CTI Task Objectives

- Implement the R&E Security Intelligence Hub
- KPI: 4 organisations participating in joint security intelligence operations in 2025 and 6 in 2026
- Procure and provide selected intelligence feeds for distribution
- 2 Milestones:
  - M13/8.2 Quarterly Trend Reports R&E Threat Landscape (M8)
  - M36/8.9 Six NRENs actively participating in R&E security intelligence hub / intelligence sharing (M20)

## Key Activities

- Feed evaluation, (procurement,) configuration and sharing
- Information sharing infrastructure (MISP, etc.) + integrations
- Threat intelligence + trend reports



# Thank You

Any questions?

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