



# SIG-ISM Meeting Fall 2025

10<sup>th</sup> anniversary meeting of SIG-ISM, RedIRIS, Madrid, Spain  
07./08.10.2025

# Introductions

- Let's see who is participating

# Welcome to RedIRIS

Connecting universities and Spanish R&D&I since  
1988

[www.rediris.es](http://www.rediris.es)



GOBIERNO  
DE ESPAÑA

MINISTERIO  
DE CIENCIA, INNOVACIÓN  
Y UNIVERSIDADES

MINISTERIO  
PARA LA TRANSFORMACIÓN DIGITAL  
Y DE LA FUNCIÓN PÚBLICA

SECRETARÍA DE ESTADO  
DE DIGITALIZACIÓN  
E INTELIGENCIA ARTIFICIAL

red.es



# Social Activity – Guided Tour



The touristic visit will start at 19:00

Meeting point

Statue of King Charles III, Puerta del Sol, Madrid.

# Social dinner

el imparcial



Dinner:

Restaurant Name: El Imparcial

Address: Duque de Alba 4, <https://maps.app.goo.gl/fR6WewcTG3jZwKcN7>

# Agenda

## Tuesday 7th

### 13-15 Session 1

- the past, the now and the future
- What is GÉANT doing

### 15-15:15 Coffee break

### 15:15-17 Session 2

- Compliance panel
- Open table discussions

19:00 Sightseeing tour, Puerta del Sol

20:30 dinner at El Imparcial

## Wednesday 8th

### 09:30-11 Session 3

- Communication
- A.I. and Security panel

### 11-11:15 Coffee break

### 11:15-13 Session 4

- Vulnerability lookup tool (CIRCL)
- Time to share and present
- Open table discussions

13-14 lunch and goodbye

## The past: 10 years of SIG-ISM

- Presentation by long time SC members Alf, Rolf & Urpo

## The now

- New steering committee members since Winter 2024
  - Cynthia Wagner, RESTENA
  - Kathrin Schopen, FZ Jülich
  - Michel Gerdes, DFN-CERT
  - Ana Alves, GÉANT Association
- Former and current members:
  - Urpo Kaila, CSC
  - Rolf Sture Normann, Sikt

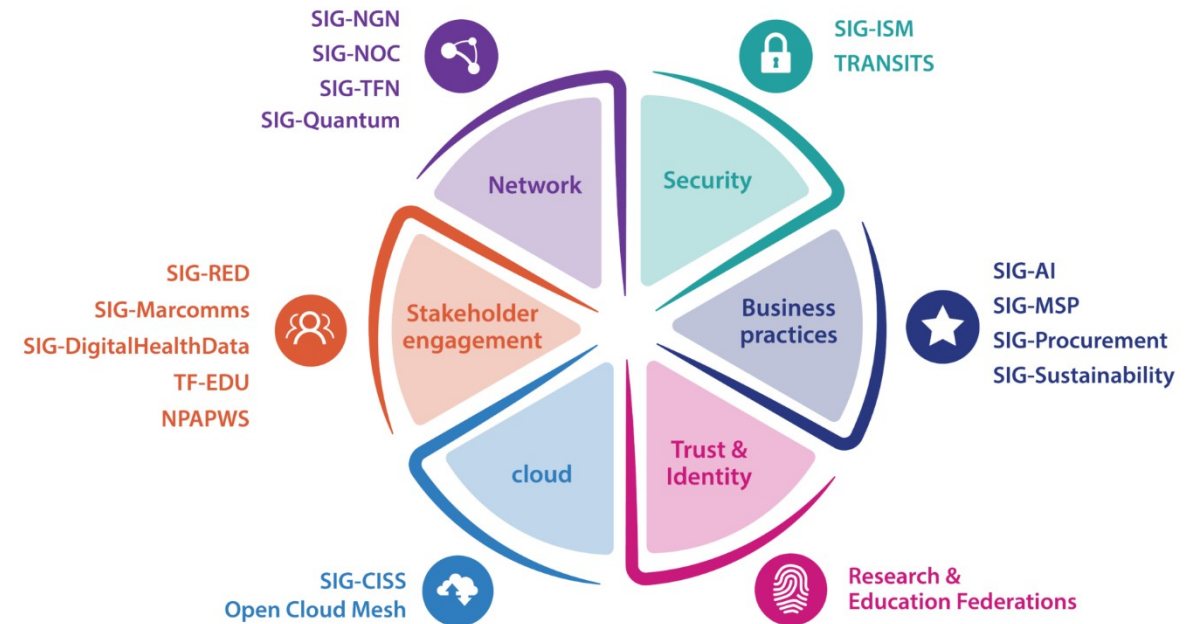
## The future

- SIG-ISM was created and approved in 2014
- Objective of this group work session:
  - Identify sections of the charter you want to change, discuss this within your group and present these afterwards for a discussion
  - Objectives, KPIs, Topics, collaboration with other SIGs, expectations
  - Meeting frequency, meeting type
- How would you like to get involved?



# NREN (GÉANT) Community Programme

- National Research and Education Networks
- Security
  - TF-CSIRT
  - Transits
  - SIG-ISM



# Presentations for GÉANT by Ana and Alf

## Panel on Security Compliance

- Urpo Kaila, CSC
- Antonio Fuentes, RedIRIS
- Cynthia Wagner, RESTENA
- Tangui Coulouarn, DeiC



**restena**  
réseau · sécurité · .lu

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## Fondation Restena

- *Compliance in Security*
  - What are we doing?
    - ISO27001 recertification in March 2025
    - includes all services within Restena
    - NIS2
- Positive experience
  - Mostly reputation based
  - More requests for collaboration or requests on expertise
- Negative experience
  - ...well where shall I start

# Compliance at DeiC

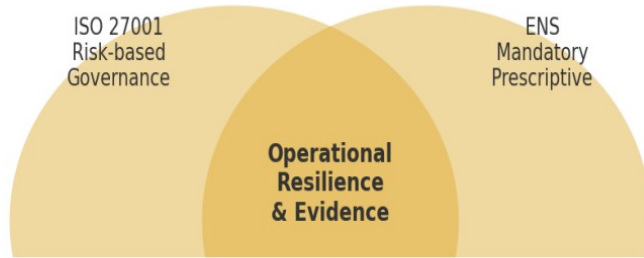
- ISMS in principle mostly DKCERT: DeiC Compliance (GDPR, ISO27001, Statens Tekniske Minimumskrav, NIS2), DPO-service, crisis exercises
- ISO27001 “DeiC/i2, WAYF, DKCERT services, and the Research Network in accordance with the Statement of Applicability v.2.0” re-certification in August 2025. Scope: Hosting>Identity federation>DKCERT>research network
- NSIS: National Standard for Identiteters Sikringsniveauer (NSIS)
- NIS2: network, DIX, WAYF, datacentre inscope

COMPANY WITH  
INFORMATION SECURITY  
MANAGEMENT SYSTEM  
CERTIFIED BY DNV  
ISO/IEC 27001

OIOSAML



# Real-World Compliance in RedIRIS



ISO 27001 provides a risk-based, international governance model.

ENS (Spain's National Security Framework) is mandatory and prescriptive, defining baseline measures for public institutions.



## The Santa Claus Effect

When we are kids, we believe in Santa Claus. Then we grow up, and we stop believing.

With compliance, it's the opposite.

When you're a technician, you don't really believe in compliance — you think it's just paperwork, policies, and checklists.

But as you gain experience, you start to see how those controls protect systems, improve coordination, and build trust.

That's when you start believing again — and you understand that compliance isn't about bureaucracy, it's about resilience.



## Key Challenges

Mapping ENS categories to ISO controls is easy - they share almost 85% of the requirements

High documentation workload and constant evidence maintenance.

Technician culture.

Annual audits with different auditors, each focusing on different controls and approaches

Limited technical staff and internal resources

# Positive and Negative Aspects of Compliance (ISO27001 & ENS)

## Positive

### Improve service quality

Ensures consistent processes and higher reliability across all services, supported by clear SLAs and performance indicators

### Enhances security monitoring

Provides better visibility, faster detection, and earlier response to incidents

### Strengthens coordination and operational procedures

Facilitates collaboration between teams and standardises response workflows.

### Improves the decisión-making process

Enables data-driven and evidence-based decisions supported by audit trails

## Positive

### Supports NIS2 compliance alignment

Thanks to the alignment between ENS and NIS2, compliance frameworks prepare us for future obligations

## Negative

### Ongoing maintenance

Requires continuous updates, reviews, and audits to stay compliant

### Resource-intensive across the organization

Demands significant time and effort from multiple teams, often putting additional pressure on operational areas

# CSC & FUNET

- CSC provides Finland's NREN, FUNET
  - Provides also HPC services, data management, and digital services for research, education, and public administration.
  - A non-profit company, 700+ staff, operations started 1971
- Operators must comply to regulations of Finnish Transport and Communications Agency
  - Resilience and emergency preparedness required
- National certification for processing classified information
  - Scope: ISMS, specified premises
- ISO 27001 certification since 2013
  - Started with Kajaani Datacenter
  - Current scope: Datacenter Operations, ICT and computing platforms, IaaS cPouta and ePouta, Long-term Preservation Service DPS, SAPA platform, Eduuni and Tiimeri collaboration platforms, LUMI hosting, Funet Miitti services, Funet Network and Secure Processing Environment (SPE4E) in Espoo and Kajaani
- NIS2 requirements covered by ISO 27001 SoA and incident reporting process



# Open table discussions

## Closing Day 1

- Sightseeing tour
  - Meeting at 19:00 at Puerta del Sol
  - Finish at the Restaurant for dinner
  - Group Photo
- Dinner (sponsored by RedIRIS), from 20:30
  - El Imparcial, Duque de Alba 4
  - Group Photo
- Tomorrow
  - Start at 09:30
  - Finish by 13:00 with a departing lunch being served until 14:00

## Agenda for 2nd day

- Presentation by Nicole Harris, GÉANT
  - Security communications
- Panel on Security + A.I.
- Coffee break at 11:00
- 11:15 Presentation by CIRCL on their Vulnerability Lookup tool
- Open table discussions
- 13:00 lunch and goodbyes

# Security Communications by Nicole

## Panel on Security + A.I.

- AI: Mikolaj Dobski
- Privacy: Magdalena Rzaca
- Security: Andy Roebuck
- Network: Maria Isabel Gandia Carriedo

# Mikolaj Dobski at the PSNC ICT Security Department Summary



- Partially Labelled, Imbalanced Data Streams with Concept Drift Detection (2012)
- Syscalls Anomaly Detection with NN (2010)

Operator Tailored CTI  
(2016)

- IOT AuthN/Z Anomaly Detection (2016)
- SCADA IDS/IPS (2017)
- HPC & Forensics (2019)

- Compliance
  - EOSC EU Node (2024)
- AI 4 Security
  - CTI NG HoneyNet (2025)
- Security 4 AI
  - TBC

# 2025 AI & Cybersecurity Synergy at PSNC

## AI & Security

AI4Sec

Sec4AI

LLM-based  
honeypots

AI4CTI

...

Securing  
AI-systems

Securing  
LLMs

Securing  
Staff

# AI & Security: The Missing Integration Layer

## The Reality in Most Organisations:

- **Security, Privacy, and AI Governance** operate in **separate silos**  
→ Different owners, languages, priorities, risk models.
- AI is often treated as a *tech add-on*, not a *risk-bearing system* requiring multi-domain oversight.

# My perspective

More than 14 years of  
experience

CIPP/E CIPM FIP, IAPP  
Chair

Certified ISO27001  
Lead Auditor

Master's degree: Law/  
Postgraduate studies:  
Cybersecurity  
management/ AI  
Master

I bring **all three**  
**domains together: AI**  
**Governance ×**  
**Cyber/Security ×**  
**Privacy**

Why? Because AI  
introduces **cross-**  
**cutting risks:**

Data leakage & model  
extraction

Bias, harmful outputs,  
autonomy risks

Lawfulness, GDPR/AIA  
compliance

Supply-  
chain/foundation  
model dependencies

Monitoring & incident  
response for AI  
behaviour





## The Core Challenge

**The biggest challenge is not AI itself – it's the organisational g**  
Bridging the silos is essential for safe, compliant, and trustwort


### What Organisations Need

- A single **risk and governance** that merges:
  - Technical security controls
  - Data protection principles
  - AI-specific risk assessment & monitoring (AIA + DPIA + Safety Evaluation)
- Multidisciplinary teams and skills (legal × security × product × data).

## ISO 42001 - Could it help?

- A framework to manage AI systems responsibly and ethically:
  - AI Management System = AIMS
- Focusses on key principles like:
  - Transparency
  - Accountability
  - Privacy
  - Security
  - bias mitigation
- Can be used to demonstrate compliance with EU AI Act
- Standardised risk based approach


## AI & the Network: Towards Autonomous Networks

 Virtual agents (chatbots) help in configuration & the automation of repetitive tasks  Zero touch

 Support decision making & planning infrastructure  Self-planning / self-optimising /self governing

 Predicting & improving performance  Self-ordering / Zero-trouble

 Predict and proactively prevent outages  Self-healing / Self-repairing networks / Zero-downtime

 Closed loop automation  Self-organising networks / Self assuring / Zero-touch operations

 Enhancing security, detection of unusual behaviour or security violations  Zero-trust

 Minimise manual intervention, Automation  Self-fulfilling / Self-assuring / Zero-touch operations

 Self service, zero wait

## Vulnerability lookup tool (by CIRCL)

## Open table discussion or presentations

## Feedback

- Next meeting
  - TBD
- GÉANT Security Events
  - 2025
    - CLAW, December
  - 2026
    - Security Days, April



- Website: <https://wiki.geant.org/spaces/SIGISM/overview>
- Mailinglist: <https://lists.geant.org/sympa/info/ism>
- Coordinator
  - Annette Aylward, [Annette.Aylward@geant.org](mailto:Annette.Aylward@geant.org)





**Thank You**

Any questions?