



DISSEMINATION ACTIVITIES YEAR 2

REP-Dissemination-Year2

Project: **LuCySe4RE**

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Dissemination activities YEAR 2 [REP-Y2-LuCySe4RE-D4.2-Final]

PROJECT	
Project number:	101127864
Project name:	Enhancing Cybersecurity Services for the Luxembourgish Research and Education community
Project acronym:	LuCySe4RE
Call:	DIGITAL-ECCC-2022-CYBER-03
Topic:	DIGITAL-ECCC-2022-CYBER-03-UPTAKE-CYBERSOLUTIONS
Type of action:	DIGITAL-JU-SME
Service:	CNECT/H/01
Project starting date:	1 September 2023
Project duration:	36 months
Abstract	<p>LuCySe4RE aims to support the Luxembourg national research and education network (NREN) in enhancing its cybersecurity services for the national research and education community. For this, new innovative cybersecurity solutions will be implemented within the research and education network to improve knowledge and cybersecurity auditing solutions. This will help the internal Computer Security Incident Response Team (CSIRT) perform its daily tasks in fighting new threats and do incident response. With its community of research and education institutions, including organisations from primary up to higher education, important use cases will be demonstrated by integrating and providing strong cybersecurity services. The project will strengthen the cybersecurity on a national level and enhance the protection organisations against actual cybersecurity threats.</p> <p>By improving cybersecurity on a national level for Research and Education (R&E) sector, the knowledge and information will also be shared on a European level through Restena's active partnership in the GÉANT association. The results of LuCySe4RE will be shared on a national level (with other local CERTs) and on international level (in the European NREN and TLD community). In parallel, LuCySe4RE will pave the way to comply with new European directives such as the CRA, CER, NIS2 directive.</p> <p>Furthermore, the project shall increase the maturity of cybersecurity awareness in the R&E community on a national level by building bridges with institutions by means of professional training (prevention and education) and materials. As such, a long-term impact of LuCySe4RE to enhance the cybersecurity capabilities in Luxembourg and play a strong role in raising awareness not only in the R&E sector but on a national level.</p>

Revision Control

Version	Date	Modification	Status	Origin
0.1	24/07/2025	Initial version	Draft	CG
0.2	13/08/2025	review	Draft	CW
1.0	20/08/2025	finalising content, review and final version	Final	CW



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Glossary

Abbreviation	Explanation
CSA	Cybersecurity Act
CER	Critical Entity Resilience Act
CSIRT	Computer Security Incident Response Team
NREN	National Research and Education Network
R&E	Research and Education
TLD	Top Level Domain
WP	Work package
LuCySe4RE project	Luxembourg cybersecurity 4 research and education project
CISO	Chief Information Security Officer
TNC	The Networking conference
AI	Artificial Intelligence

Executive Summary

The dissemination activities - Year 2 report summarises the dissemination activities led in the second year of the LuCySe4RE project (1 September 2024 to 31 August 2025) according to the WP4 'Communication, Awareness, Training' whose objectives are

- 1) to define and implement comprehensive and effective communication activities on the deployed cybersecurity-as-a-service offer
- 2) create awareness about cybersecurity and data protection in the R&E community (and beyond) by organizing yearly conferences
- 3) facilitate exploitation of the project outcomes and to promote the results of the project also on international level (e.g. via GEANT, Restena Security website) and
- 4) extend the training offer and elaboration of content for trainings.

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Report on Year 2 dissemination activities

This report provides a summary of the dissemination activities performed in the second 12 month of the LuCySe4RE project.

The report is structured after the tasks order in WP4. In the first section "4.1. - Conference organization" a summary of the event organisation in the framework of the project will be presented. The second section "4.2. - Awareness materials" will present the materials and outcomes of the awareness activities. Section 3 will present the outcomes for Task 4.3. "Trainings". In Section 4, for Task "4.4. - Project Dissemination", the project identity related communication activities will be presented. The report concludes with an overview of the expected dissemination activities throughout the second year of the project.

1. Task T4.1. Conference organisation

Event and conference organisation is part of the LuCySe4RE project to raise awareness on cybersecurity and data privacy.

1.1 cyberday.lu conference

The CyberDay.lu event is organized by the Restena Foundation to raise awareness about recent cybersecurity topics and problems. The audience is mainly R&E and public.

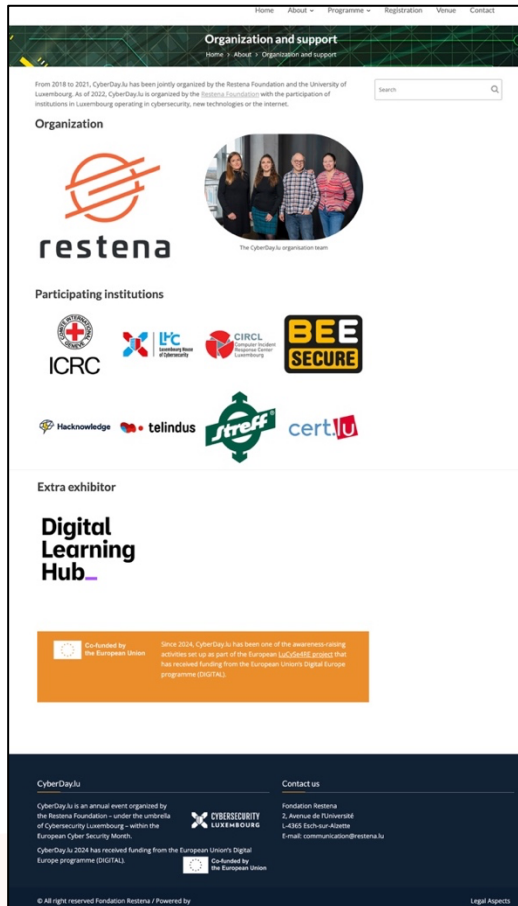
1.1.1 The 2024 event

In October 2024, no fewer than *105 participants* took part to CyberDay.lu event that was also live streamed on the event website. The live streaming recorded 50 views.

While preparatory work for this event began during the first year of the LuCySe4RE project, additional achievements were made during the second year of the LuCySe4RE project. They are:

- the dedicated event website (cyberday.lu) has been regularly updated,
- event banners for Restena social medias LinkedIn, mastodon, and Facebook (accessible at <https://www.linkedin.com/company/restena-foundation>, <https://mstdn.social/@restena>, <https://www.facebook.com/fondationrestena>) and counting respectively 896, 69 and 10 followers as of 30 December 2024) have been designed and shared at key steps of the communication process ('Register now').

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1- CyberDay.lu 2024, cyberday.lu website, section 'Organisation and support' (printscreen - 7 August 2024)



2- CyberDay.lu 2024 generic web banner

1.1.2 The cyberday.lu 2025 event (projection into Y3 activity)

In the third year of the LuCySe4RE project (in October 2025) the CyberDay.lu event will be organised once again. Preparatory work for this event has already begun during the second year of the project in a similar approach as the 2024 event. Among the achievements done for CyberDay.lu 2025 during the second year of the LuCySe4RE project are:

- the booking of the room where the event will be held and related logistics,
- The speakers have already been selected (but not officially announced yet),
- the dedicated event website (cyberday.lu) has been updated with 2025 information,
- event banners for Restena social medias LinkedIn, mastodon, and Facebook have been designed and shared at key steps of the communication process ('Save the date')
- event factsheet, web banner and poster were shared with partners,
- 250 personalised dynamo torch with the conference name have been designed and ordered from a specialized company (They will be offered to attendees at the event).

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3-CyberDay.lu 2025, cyberday.lu website, section 'Organisation and support' (printscreen - 27 July 2025)



4- CyberDay.lu 2025 generic web banner



5- CyberDay.lu 2025 dynamo torch

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6- CyberDay.lu 2025 Save the Date on Mastodon (printscreen -23 July 2025)



7- CyberDay.lu 2025 poster

1.2 Data Privacy Day conference

In January 2025, the Data Privacy Day event was co-organised together with the University of Luxembourg around the central theme 'Riding the waves of new data protection challenge'.

No fewer than 190 participants took part physically or virtually to that hybrid event. The audience is mainly professionals from legal domains, but also R&E as well as larger audience.

All the related communication documentation mentions the co-financing information from the LuCySe4RE project. In addition to the 'regular' tasks of organising an event, including the search for speakers or the establishment of the agenda, a variety of communication tools were used to spread the word about the event before the event, engage during the event, and improve event loyalty on the long-term. Among the achievements:

- the dedicated event website (dataprivacyday.lu) has been regularly updated,
- event banners for Restena social medias LinkedIn, mastodon, and Facebook channels have been designed and shared at key steps of the communication process ('Save the date' and 'Register now'),
- event web banner and poster were shared with partners,
- TV screens were designed,
- 400 personalised cups with the event name and website were designed, ordered from a specialized company, and offered to attendees. The remaining cups will be used over the next few years while stocks last.

Dissemination activities YEAR 2 [REP-Y2-LuCySe4RE-D4.2-Final]



8-Data Privacy Day 2025, dataprivacyday.lu website, section 'Organisation and support' (printscreen - 13 March 2025)



9-Data Privacy Day 2025 generic web banner



10-Data Privacy Day 2025 Save the Date on LinkedIn (printscreen - 14 March 2025)



11-Data Privacy Day 2025 'Register now' on Facebook (printscreen - 14 March 2025)

Dissemination activities YEAR 2 [REP-Y2-LuCySe4RE-D4.2-Final]



12- Data Privacy Day 2025 poster



13- Data Privacy Day 2025 cups

1.3 Benelux Security Privacy Meeting 2025 (projection into Y3 activity)

In the third year of the LuCySe4RE project (in October 2025) the Benelux Security Privacy Meeting will be co-organised with SURF and Belnet, the NRENs for the Netherlands and Belgium. Preparatory work for this meeting has already begun during the second year of the project. Among the achievements done for the Benelux Security Privacy Meeting during the second year of the LuCySe4RE project are:

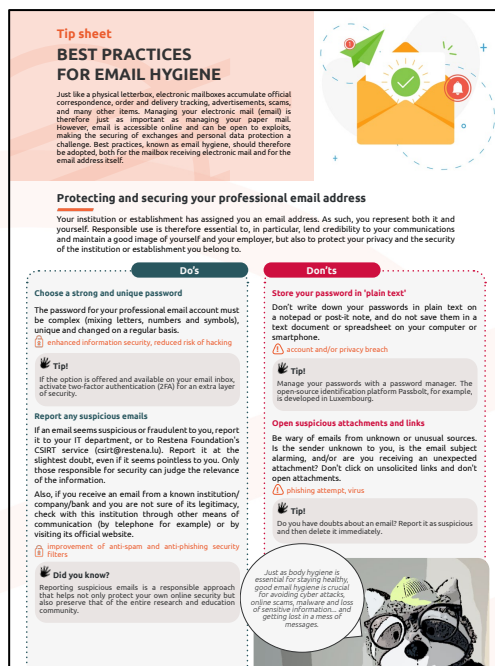
- the booking of the room where the event will be held and related logistics,
- The speakers have already been selected (but not officially announced yet),
- a dedicated event webpage on restena.lu webpage (<https://restena.lu/en/event/benelux-security-and-privacy-meeting-2025.lu>)

2. Task T4.2. Awareness materials

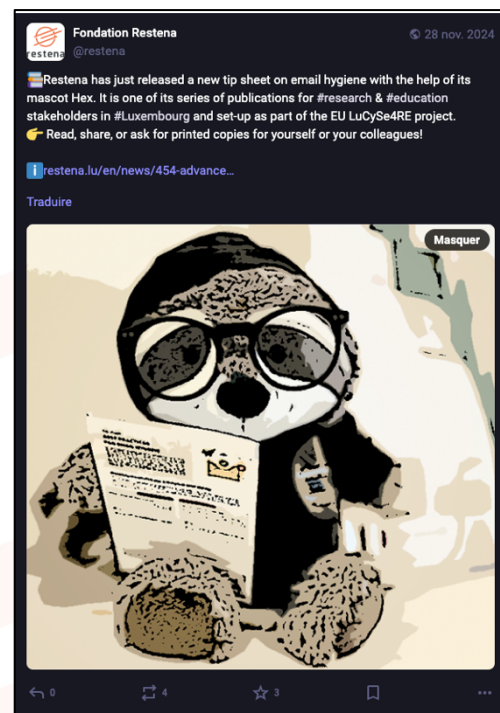
A tip-sheet - whose ambition is to raise awareness of key issues among people working in the research or education sector in Luxembourg - has been published and is listing the best practices for email hygiene. While the content of the tip sheet has been written by Restena employees, its translation process from French to English was outsourced to an external translation agency. To illustrate the tip-sheet a photography has been bought from an online stock photo agency. The printing of 100 exemplars of the tip-sheet in French and 100 additional in English has also been outsourced.

The tip-sheet entitled '**BEST PRACTICES FOR EMAIL HYGIENE**' is shared within the research and education community in Luxembourg via download from the Restena corporate website at <https://www.restena.lu/en/publications>, via distribution at events co-organised by Restena with a focus on cybersecurity (i.e. CyberDay.lu) or on express request from the R&E institutions.

The tip sheet has been promoted as a news on the Restena corporate website (<https://restena.lu/en/news/454-advanced-protection-and-security-thanks-good-email-hygiene>), then shared on Restena social media channels LinkedIn, mastodon and Facebook.



14- Tip sheet (Best practices for email hygiene) – English language (Abstract)



15- Tip sheet announcement on mastodon (printscreen – 23 July 2025)

3. Task T4.3. Trainings

Five trainings, representing a total of 31 hours, was given at the Digital Learning Hub (DLH), a continuing professional education structure of the Luxembourgish Ministry of Education, Children and Youth.

There, Restena employees shared their knowledge with a total of 37 attendees about

- The Multi-factor Authentication (7 October 2024),
- Introduction to the Domain Name System (DNS) (15 November 2024)
- Operating a DNS authoritative service (22 November 2024)
- Principles of the Domain Name System Security Extensions (DNSSEC) (6 December 2024)
- Advanced DNSSEC infrastructure (13 December 2024)

Below the extract of the attendance certificate:

Date	Course description	N° attendees
07.10.2024	Multi-factor Authentication	6
15.11.2024	Introduction to the Domain Name System	14
22.11.2024	Operating a DNS Authoritative Service	7
29.11.2024	Operating a DNS Resolution Service	CANCELLED
06.12.2024	Principles of the Domain Name System Security Extensions (DNSSEC)	4
13.12.2024	Advanced DNSSEC Infrastructure	6

The certificate for 2025 will be available on Decembre 31st 2025 only.

4. Task T4.4. Project Dissemination

4.1.1 External promotion

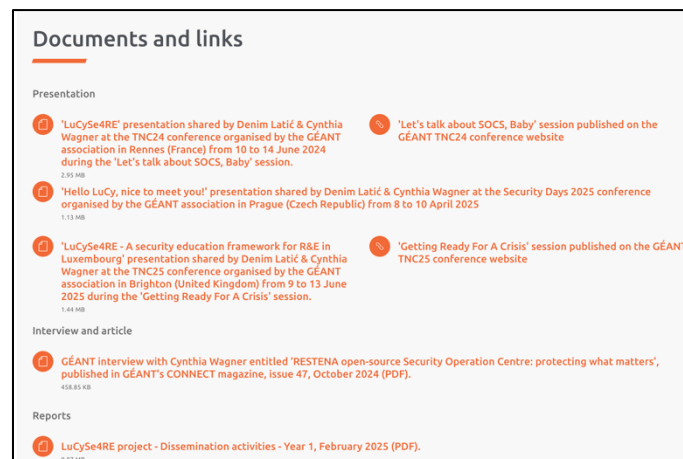
4.1.1.1 LuCySe4RE project online presence

As originally planned, the webpage dedicated to the LuCySe4RE project on Restena corporate website (<https://www.restena.lu/en/project/lucyse4re> for the English language and <https://www.restena.lu/fr/project/lucyse4re> for the French one) has been regularly updated with project presentations, interviews and articles and reports under the sub-section 'Documents and links'. More precisely, the following documents were added during the second year of the project:

- The 'LuCySe4RE' presentation shared by Denim Latić & Cynthia Wagner at the TNC24 conference organised by the GÉANT association in Rennes (France) from 10 to 14 June 2024 during the 'Let's talk about SOCS, Baby' session - Format PDF and video.

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- The article 'RESTENA open-source Security Operation Centre: protecting what matters', published in GÉANT's CONNECT magazine, issue 47, October 2024 - Format PDF
- The LuCySe4RE project - Dissemination activities - Year 1 report - Format PDF
- The 'Hello LuCy, nice to meet you!' presentation shared by Denim Latić & Cynthia Wagner at the Security Days 2025 conference organised by the GÉANT association in Prague (Czech Republic) from 8 to 10 April 2025 - Format PDF
- The 'LuCySe4RE - A security education framework for R&E in Luxembourg' presentation shared by Denim Latić & Cynthia Wagner at the TNC25 conference organised by the GÉANT association in Brighton (United Kingdom) from 9 to 13 June 2025 during the 'Getting Ready For A Crisis' session - Format PDF and video.



16-LuCySe4RE webpage (Abstract – Section 'Documents and links')– Screenshot 23 July 2025

4.1.1.2 Press coverage

The GÉANT Association, which manages the pan-European research network, conducted an interview with Cynthia Wagner, a member of the LuCySe4RE project. In the interview, the central role of the LuCySe4RE project was highlighted throughout the process of building a Security Operation Centre at Restena. The interview was published within the GÉANT CONNECT online magazine - issue 47, in October 2024.

The article is available for download from the LuCySe4RE project webpage, under the sub-section 'Documents and links' (see 4.1.1 LuCySe4RE project online presence) and the related GÉANT CONNECT online magazine is available at <https://connect.geant.org/wp-content/uploads/2024/10/GEANT-CONNECT-47.pdf>.

Dissemination activities YEAR 2 [REP-Y2-LuCySe4RE-D4.2-Final]

RESTENA open-source Security Operation Centre: protecting what matters

World events and the rise of cyber threats to global critical infrastructure, combined with the increasing awareness and growing number of security-related incidents are stimulating the demand for enhanced cybersecurity measures. The increasing complexity of R&E networks and product sets require more specialist skills. In response, several NRENs around the globe and connected institutions have coupled their established Network Operation Centre (NOC) with a Security Operation Centre (SOC). CONNECT met with Cynthia Wagner, Chief Information Security Officer for Restena, the Luxembourgish NREN, to talk about their requirements, plans and processes to build a SOC.

Interview by: Rosanna Norman, GÉANT

What technologies and tools will you be leveraging to build this new facility?

From the outset, it was clear that we would rely as much as possible on open-source technologies, and nothing could make us reconsider that decision. After thorough investigations, we identified a variety of components: Fluentd, Logstash, OpenSearch, Suricata and the MSP platform, among others. We are particularly proud to use the MSP platform, developed in Luxembourg by our partner, the Computer Incident Response Center Luxembourg (CIRCL) of the Luxembourg House of Cybersecurity. MSP is not the only tool from our partners that we utilized in the project. We also employed the GÉANT Security Baseline to assess the maturity levels of the institutions participating in the project.

What challenges did you encounter during the implementation process?

Even though the implementation process is still ongoing and new challenges undoubtedly await us, one of the initial major obstacles was the sheer volume of data transmitted by the participating institutions. This data already amounts to many gigabytes, besides all institutions having onboarded yet.

Another significant challenge arose when we decided to rethink our internal infrastructure setup, switching from Elastic to OpenSearch. This decision was crucial for cost reduction and project simplification.

Will you monitor your network and your connected institutions, do you intend to measure security maturity levels?

Restena has been operating a NOC for many years monitoring all connected infrastructures. The future SOC and NOC will collaborate, as the data collected is valuable to both. In addition, the SOC will work closely with the

Restena Computer Security Incident Response Team (CSIRT) to manage identified incidents, thus enabling advanced monitoring for our connected institutions.

Before implementing the SOC, we used the GÉANT Security Baseline to establish the current state of security maturity within Restena and the SOC-Project participants. This assessment was repeated at the conclusion of LuCySe4RE, scheduled for August 2025. By doing so, we will be able to measure the evolution and overall impact of the LuCySe4RE project on Restena and the participating institutions.

How will the SOC handle customer-facing interactions out of hours? Will you outsource?

One of the first decisions was to operate the SOC only during office hours. Among our community members, there is limited availability to handle security alerts on 24/7. However, we are now exploring the possibility to include a CSIRT on-call duty for internal purposes in the future. This initiative might inspire others to follow suit.

Restena is ready to offer assistance to any NREN looking to get started!

About Cynthia

Cynthia Wagner (fourth from left in the first row in the above photo) is the Chief Information Security Officer and Security Manager at the Restena Foundation, the national research and education network in Luxembourg. Previously, Cynthia was managing the Restena Computer Security Incident Response Team. She graduated with distinction from the University of Luxembourg with a PhD in computer science, where she studied the effects of various data mining approaches on flow measurements for improving security. She is currently also an active member of several working groups at GÉANT. As a topologist, she is a member of various advisory boards and the co-founder of Restena CyberDay and the Data Privacy Day conference. Cynthia is actively involved in teaching and in her spare time, she loves gardening and trying new recipes in her kitchen (which she is successful or not).

Picture: The team of the LuCySe4RE

17-LuCySe4RE interview in the CONNECT online magazine by GÉANT, October 2024

The interview being promoted on social media by the GÉANT Association, the message has been in turn reposted on the corresponding Restena communication channels (Linkedin, mastodon and Facebook)

Fondation Restena
1039 abonnés
restena 8 mois · Modifié ·

This post says it all 📖 Read about **Cynthia Wagner** - Restena Security Manager and CISO - interview on page 18, and do not forget to get through all the other interesting articles written by **GÉANT** in cooperation with NRENs across Europe and beyond within its monthly Magazine **CONNECT**.

Afficher la traduction

GÉANT
13 911 abonnés
8 mois ·

In response to the rise of cyberthreats to global infrastructure, **#NRENs** around the world are increasingly coupling their Network Operation Centres with Security Operation Centres (**#SOCs**). We spoke to **Cynthia Wagner**, CISO and Security Manager at **Fondation Restena**, to learn more about their plans to build an **#OpenSource**-based SOC for the Luxembourgish Research and Education community through the **#LuCySe4RE** project: <https://lnkd.in/e6m-4QYy>

This article was published as part of **#CONNECT47**, the latest issue of the **GÉANT CONNECT** Magazine: <https://lnkd.in/e6m-4QYy>

#CyberSecMonth #Security #Cybersecurity #InformationSecurity #Luxembourg #Research #Education #OpenSourceSoftware #OSS #OpenSourceSecurity #OpenSourceCybersecurity European Cyber Security Month European Union Agency for Cybersecurity (ENISA)

Afficher la traduction

18- LuCySe4RE interview in the CONNECT online magazine by GÉANT, repot on LinkedIn (printscreen – 24 July 2025)

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4.1.1.3 Newsletter

Restena kept on informing its community about the LuCySe4RE project within its bi-annual newsletter 'Restena NEWS'. The information posted on the [restena.lu](https://www.restena.lu) website during the first year of the LuCySe4RE project (the project main milestones of the project first year of execution) was shared through 'Restena NEWS', January 2025 edition. It was one of the four information of the publication send to all people interested in receiving the latest information from the Restena Foundation in their own inbox (611 people on the mailing list as of 31 January 2025).

The newsletter, available in French and English, are available on

<https://www.restena.lu/en/restena-news-10-february-2025>

and <https://www.restena.lu/fr/restena-news-10-fevrier-2025>



19- LuCySe4RE promotion within Restena NEWS, February 2025 (Abstract)

4.1.1.4 Participation at conferences

Throughout its second year of execution, the LuCySe4RE project intermediate results, progress and ambition were presented at various conferences in Luxembourg and abroad.

- In October 2024, to the worldwide LibreOffice Community and related stakeholders at the annual LibreOffice and Open Source conference organised in 2024 in Luxembourg.
- In October 2024 to the research and education sector in Luxembourg, at the CyberDay.lu event organised by Restena (see section 1.1.1 The 2024 event).
- In April 2025 to cybersecurity experts and individuals with an interest in security from across the international research and education community and beyond, at the Security Days 2025.
- in June 2025 to the international research and education community with a 30-minute session at the TNC 2025 event, the annual research and education networking conference. There a presentation was shared and the session recorded. Those are available on the LuCySe4RE project webpage on restena.lu.



20- LuCySe4RE presentation at CyberDay.lu, October 2024

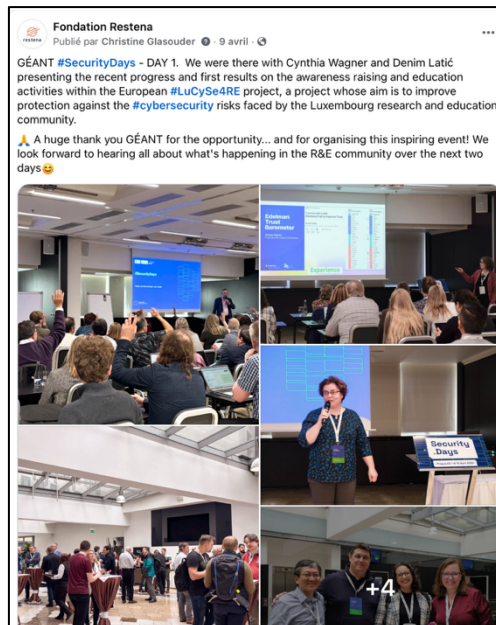
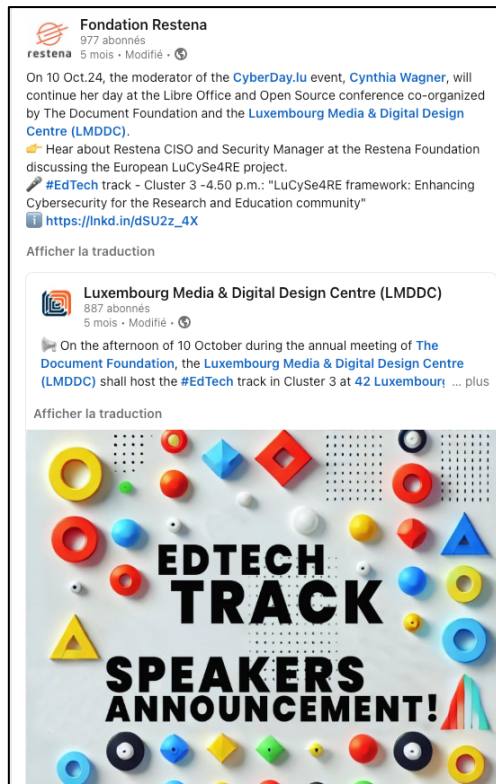


21-LuCySe4RE presentation at TNC 2025, June 2025 (Copyright: GÉANT Association)

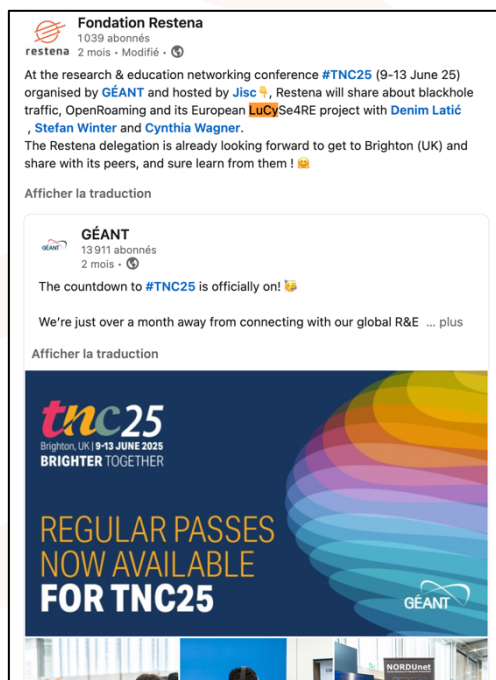
In addition, the LuCySe4RE project is regularly presented within the CISO-Belval group, a group of Chief Information Security Officers from R&E institutions in Luxembourg that regularly meets to discuss threats and news in security.

In any case, if the presentation of the LuCySe4RE project at a conference was promoted by the conference organiser on their own social media channels, the related posts were reposted on the corresponding Restena social media channels (LinkedIn and Facebook).

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23- Repost LinkedIn for LuCySe4RE at the LibreOffice and Open Source conference 2024 (printscreen – 14 March 2025)



24- Repost LinkedIn for LuCySe4RE promotion at TNC 2025 (printscreen – 24 July 2025)

4.1.2 Internal promotion

Throughout the second year of the project, as within its first year, the LuCySe4RE was the subject of a regular communication, within Restena employees and external stakeholders.

Internally, from September 2024 till August 2025, an update of the work progress done by the LuCySe4RE team was reported to Restena employees via the monthly internal newsletter 'Restena CONNECTOR'.

5. Outlook on the Year 3

The following plan of action is already known for the second year of the LuCySe4RE project (1 September 2025 till 30 August 2026).

- October 2025: multi-factor authentication training
- 9 October 2025: CyberDay.lu event organization
- 20 and 21 October: Benelux Security and Privacy Meeting organisation
- 30 October 2025: tip-sheet release
- 28 January 2026: Data Privacy Day event organization
- 31 January 2026: info on year 2 report within the Restena newsletter – January 2026
- 30 August 2026: end of project news on restena.lu website

Additional training - and presentations - will be added to this agenda.

6. References and Links

List of references	
CyberDay.lu event website	https://cyberday.lu
Data Privacy Day event website	https://dataprivacyday.lu
Restena account on LinkedIn	https://www.linkedin.com/company/restena-foundation
Restena account on Mastodon	https://mstdn.social/@restena
Restena account on Facebook	https://www.facebook.com/fondationrestena
Restena corporate website - publication section	https://www.restena.lu/en/publications
Restena corporate website - news about the 'BEST PRACTICES FOR EMAIL HYGIENE' tip-sheet	<ul style="list-style-type: none"> • https://restena.lu/en/news/454-advanced-protection-and-security-thanks-good-email-hygiene • https://restena.lu/fr/news/454-protection-et-securisation-avancees-grace-une-bonne-hygiene-e-mail
Restena corporate website - LuCySe4RE project webpage	<ul style="list-style-type: none"> • https://www.restena.lu/en/project/lucyse4re • https://www.restena.lu/fr/project/lucyse4re
'Restena NEWS', January 2025 edition	<ul style="list-style-type: none"> • https://www.restena.lu/en/restena-news-10-february-2025 • https://www.restena.lu/fr/restena-news-10-fevrier-2025