



Project Title	Boosting Smart Specialization and Encouraging
	Spin-offs in IT across Danube Region
Call	Danube Region Programme
Project number	DRP0200277
Coordinator	ZEDA
Project duration	30 months 0 days
Project website	https://interreg-danube.eu/projects/spinit
Specific objective	Creating a framework outlining the obligatory
	elements of each curriculum/methodology to be
	developed. This framework should align with the
	project goals and the developed LAP.
Activity	Activity 2.2 Next-gen Pilot Projects for Smart
	Specialization and IT

# **SpinIT**

Reporting Template for Deliverable D.2.2.3 Development / Selection of appropriate			
methodology / curri	methodology / curriculum for pilot project implementation		
Due date:	30.06.2025.	Actual submission	10.05.2025.
		date:	
Organization:	Zenica	Authors:	Jasmin Azemović
	Development		and Mirza Sikirić
	Agency - ZEDA		
Status:	F	Dissemination level:	CO
		Public (PU)	
Final (F)		Confidential, only	
Draft (D)		for members of the	
Revised draft (RV)		consortium (CO)	







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#### 1. Introduction

During D2.2.3 each Territorial Partner (TP) will design and utilize a tailored methodology and curriculum for the implementation of their chosen pilot project focusing on areas such as ICT, Edtech, AR/VR, AI, Industry 4.0, visibility, transparency, predictive capacity, adaptability, and ICT cross-sectoral collaboration. These methodologies and curricula will be specifically designed to enable the effective execution of the Local Action Plan (LAP).

The purpose and aim of this document is to ensure the alignment of methodologies with project goals and local requirements by providing common template for each TP to fill. The following information is to be provided below: basic information about the TP and their pilot project; detailed description of the pilot project; skills to be developed, learning methodologies to be used during the pilot project; curriculum and schedule of the pilot project; and finally, every resource (books, articles etc.) used during the pilot project implementation.





# 2. TP and pilot project identification

Please provide information about yourself and your selected pilot project. *Use the following table as a template.* 

Territorial Partner (TP)	
Name of the organization	Zenička razvojna agencija ZEDA
in original language	
Name of the organization	Zenica Development Agency ZEDA
in English	
Organization abbreviation	ZEDA
Pilot project	
Name of the pilot project	SpinIT CyberSafe (BASIC & PRO Modules)
Name of the lead	Zenička razvojna agencija ZEDA
organization in original	
language	
Name of the lead	Zenica Development Agency ZEDA
organization in English	





## 3. Introduction of the selected pilot project

The SpinIT CyberSafe pilot project is an educational initiative developed by the Zenica Development Agency (ZEDA) aimed at improving cybersecurity awareness and practical skills among SMEs, public institutions, NGOs, and academia in the Zenica-Doboj Canton and the wider region. The project was selected based on a structured process of stakeholder engagement through Local Discovery Group (LDG) workshops and reflects the expressed needs of the local ecosystem.

Cybersecurity emerged as a top priority during the LDG process due to a lack of awareness and preparedness among organizations facing rising digital threats. The pilot consists of two training modules:

- CyberSafe BASIC, conducted on 16 May 2025, targeted non-technical staff and general employees. It focused on fundamental cybersecurity knowledge, hygiene practices, threat recognition, and digital risk awareness.
- CyberSafe PRO, scheduled for 13 June 2025, is intended for IT professionals and advanced users. It will cover advanced topics such as threat modeling, incident response, encryption, and vulnerability assessments.

Both sessions are led by Prof. Dr. Jasmin Azemović, a prominent cybersecurity expert with extensive academic and practical experience, including over 30 years in information security and leadership roles in corporate cybersecurity operations.

The CyberSafe BASIC training successfully trained more than 60 participants, who showed measurable improvement in familiarity with key cybersecurity topics, including phishing, password security, and data protection. Entry and exit questionnaires demonstrated knowledge growth, while participant feedback confirmed high relevance and impact.

The entire training was recorded and will be made publicly available on the SpinIT YouTube channel, ensuring long-term accessibility and enabling replication in other regions.

The project is fully aligned with local and regional development strategies, particularly the Development Strategy of the City of Zenica 2021–2027 and the Strategy for SME Development, both of which emphasize digital transformation and cybersecurity capacity-building. It also supports the Federation of Bosnia and Herzegovina's RIS3-relevant goals in digitalization and innovation.

By combining live training, recorded content, expert-led sessions, and participant engagement, SpinIT CyberSafe contributes to building a digitally resilient and security-aware community and serves as a replicable model for cybersecurity upskilling across the Danube Region.





# 4. Learning objectives

Please explain what the expected results of the pilot project are. *Use the following table as a template.* 

Cialdia la decida de	M Consult Consciolination
Field to be developed	⊠ Smart Specialization
Select one or more.	
	☑ Industry 4.0 Transition
Skills and key	SpinIT CyberSafe BASIC
competences to be	<ul> <li>Cybersecurity awareness and hygiene practices</li> </ul>
developed	<ul> <li>Ability to recognize phishing, ransomware, and</li> </ul>
	social engineering attacks
	<ul> <li>Understanding of secure password management</li> </ul>
	and multi-factor authentication
	<ul> <li>Knowledge of cryptographic principles and basic</li> </ul>
	encryption tools
	Safe use of mobile devices and cloud storage
	<ul> <li>Awareness of Al-related risks, data privacy, and</li> </ul>
	regulatory compliance (e.g. GDPR, EU Al Act)
	Familiarity with real-world security breaches and
	cyber incident response practices
	<ul> <li>Critical thinking for identifying suspicious digital</li> </ul>
	behavior
	SpinIT CyberSafe PRO
	Understanding of security strategy and cost
	modeling
	<ul> <li>Knowledge of SOC operations, offensive/defensive</li> </ul>
	security
	Hands-on incident response and containment
	planning
	<ul> <li>Familiarity with compliance standards (ISO 27001,</li> </ul>
	SOC2, GDPR)
	<ul> <li>Application of SQL Server encryption models</li> </ul>
	- Application of SQL Server energybrion models
Specific learning outcomes	30 participants successfully trained through the
and results	SpinIT Cybersafe BASIC event
and results	<ul> <li>Entry and exit questionnaires confirmed significant</li> </ul>
	improvement in cybersecurity knowledge and self-
	confidence:
	connaence:







- e.g. phishing recognition scores improved from 2.61 to 3.22, encryption awareness from 3.09 to 3.56
- Participants gained practical knowledge in recognizing cyber threats and applying daily protective measures
- Improved digital safety habits among participants (e.g. safer passwords, use of MFA, use of password managers)
- Participants committed to applying newly acquired practices in their workplaces, boosting institutional resilience
- The training helped reduce the knowledge gap in cybersecurity between technical and non-technical staff
- Established a foundational training model for future regional replication and further development (PRO level)





# 5. Teaching and Learning Methods

Please explain the methodology for conducting the pilot project. *Use the following table as a template.* 

Pilot project implementation and knowledge transfer		
Form	⊠ In person	
Select one or more.	☐ Hybrid	
	☑ Online (e.g. digital platform, e-learning)	
	☐ Other (such as):	
Description	<ul> <li>The pilot project consists of two main live training events:</li> <li>CyberSafe BASIC (May 16, 2025) – In-person session targeting non-technical staff and employees from SMEs, public institutions, NGOs, and academia. Focused on fundamental cybersecurity principles, digital hygiene, and awareness.</li> <li>CyberSafe PRO (June 13, 2025) – In-person training for IT professionals and advanced users, focusing on technical cybersecurity competencies, including</li> </ul>	
	threat modeling, incident response, and vulnerability assessment.	
	Supplementary online materials such as slides, checklists, and recorded video lectures are provided to participants after each session via the SpinIT YouTube channel. This ensures continuous learning and broader accessibility of	
	the training content.	
Instructional approach	Instructional approaches	
Instructional approach Select one or more.	<ul><li>☑ Lectures</li><li>☑ Workshops</li></ul>	
Select one of more.	☐ Other (such as):	
Description	Lectures delivered by Prof. Dr. Jasmin Azemović introduced core concepts of information security, cryptography, cyber threat landscape, cyber hygiene, and Al-related risks.	
	Workshops included:	





Swintz	
SpinIT	<ul> <li>Simulated phishing exercises and analysis of major real-world breaches (e.g. Uber, SolarWinds, Log4j).</li> <li>Interactive demonstrations using tools like haveibeenpwned.com, password strength testers, and security.org.</li> <li>Discussion-based learning with participants contributing personal practices and challenges.</li> <li>Training was highly practical, with examples relevant to SMEs and public institutions, and structured around real case scenarios.</li> </ul>
	Methodologies
Assessments	□ Preliminary-pilot knowledge test     □ Prelimi
Select one or more.	□ Post-pilot knowledge test     □ Mid to me and me
	☐ Mid-term exam
	☐ Final exam
	☑ Other (such as): Simulation exercises, informal testing,
Description	live discussion-based validation  Participants completed structured entry and exit
Feedback Select one or more.	questionnaires. Entry results revealed moderate awareness levels, with ratings between 2 and 4 (on a 1–5 scale) across topics such as phishing, password creation, and use of MFA.  Exit surveys showed increased familiarity, with 80% of participants rating themselves at 4 or 5, and 100% stating they plan to improve personal or organizational cybersecurity practices.  Simulation exercises, password audits, and real-time scenario problem solving were included to reinforce understanding and encourage self-evaluation.  □ Preliminary-pilot knowledge test □ Post-pilot knowledge test □ Mid-term exam □ Final exam
	☑ Other (such as):Instructor-led debrief, written
B	evaluations, participant reflections
Description	Feedback was collected via Google Forms and open
	discussions. Participants valued:
	Practicality of examples











# 6. Structure and content

Please draft the planned curriculum and schedule of the chosen pilot project. This must include:

- theoretical and practical parts
- training framework (units/timeframes): full list of modules with name and duration *Use the following table as a template.*

Duration	4 h
Teaching topics	SpinIT CyberSafe BASIC
Please provide a list of	Cybersecurity Fundamentals – 45 min
topic titles.	Cryptography Basics – 30 min
·	Threats and Data Breaches – 60 min
	<ul> <li>Cyber Hygiene Practices – 45 min</li> </ul>
	Al and Cybersecurity – 30 min
	<ul> <li>Self-assessment and Security Tools – 30 min</li> </ul>
	SpinIT CyberSafe PRO
Learning aims	Understand cybersecurity as an ongoing process;
	distinguish security, safety, and privacy
	<ul> <li>Understand basic cryptographic principles;</li> </ul>
	recognize applications in daily tools
	<ul> <li>Recognize how breaches happen; understand</li> </ul>
	their consequences and prevention strategies
	<ul> <li>Adopt safe digital behavior; evaluate and improve</li> </ul>
	personal and institutional security habits
	<ul> <li>Learn about the intersection of Al and security;</li> </ul>
	understand regulatory expectations
	<ul> <li>Identify personal and organizational risk exposure;</li> </ul>
	evaluate baseline security readiness
Methodologies	<ul> <li>Lecture, real-time Q&amp;A, interactive discussion</li> </ul>
e.g. learning video of 5	<ul> <li>Presentation with visual aids, practical examples</li> </ul>
minutes, quiz, word cloud	<ul> <li>Case analysis, video excerpts, group reflection</li> </ul>
via Mentimeter	<ul> <li>Kahoot quizzes, online tool demos</li> </ul>
	(haveibeenpwned.com)
	<ul> <li>Lecture, real-world AI misuse examples</li> </ul>
	<ul> <li>Hands-on demonstrations, simulation tools</li> </ul>





# SpinIT CyberSafe BASIC

Cybersecurity Fundamentals		
Duration	45 min (01:30 – 47:41)	
Content	This session introduced participants to the foundational	
	principles of cybersecurity. The instructor emphasized	
	that security is a continuous process, not a final	
	destination, and that no system can ever be 100% secure.	
	Participants learned to differentiate between "security,"	
	"safety," and "privacy," and explored the many	
	environments where information security is crucial —	
	from business operations and healthcare to smart cities	
	and personal devices. The goal was to build a mindset of	
	vigilance and ongoing learning as the baseline for any	
	cybersecurity culture.	
Methodology	Live lecture with real-world examples	
e.g. watching a video,	Q&A with participants	
answering quiz questions	<ul> <li>Interactive conversation based on instructor's</li> </ul>	
via Kahoot	experience	
	Cryptography Basics	
Duration	30 min (47:42 – 1:04:58)	
Content	In this segment, participants were introduced to the	
	essential concepts of cryptography, cryptanalysis, and	
	cryptology. The training covered the use of ciphers and	
	encryption keys, highlighting the differences between	
	symmetric and public-key systems. Real-life applications	
	were explained, such as HTTPS in web browsing, email	
	encryption, and secure messaging platforms. The topic	
	helped participants understand how cryptography	
	protects sensitive data in everyday digital interactions.	
Methodology	Visual presentation with examples	
e.g. watching a video,	Verbal walkthrough of cryptographic flow	
answering quiz questions	(plaintext $\rightarrow$ ciphertext $\rightarrow$ decryption)	
via Kahoot	Live explanation using diagrams	
Threats and Data Breaches		







SpinIT		
Duration	60 min (1:05:07 – 2:18:15, 2:21:22 – 2:23:38, 2:23:48 -	
	2:34:03)	
Content	This part of the training focused on real-world cyber	
	incidents that demonstrated the impact of security	
	failures. Participants reviewed notable case studies such	
	as the Uber breach, SolarWinds attack, and the	
	exploitation of the Log4j vulnerability. The session	
	included insights into how these breaches occurred, the	
	scale of data loss, and their consequences on businesses	
	and end-users. A special focus was placed on how health	
	data breaches (e.g., the Johnson & Johnson incident) can	
	lead to high-value data being sold on darknet markets	
	and used in phishing or fraud attempts.	
Methodology	Case study presentation (slides)	
e.g. watching a video,	<ul> <li>Open discussion about breach consequences</li> </ul>	
answering quiz questions	<ul> <li>Quiz questions via Kahoot to test comprehension</li> </ul>	
via Kahoot		
	Cyber Hygiene Practices	
Duration	45 min (2:34:04 – 3:35:15)	
Content	This highly practical section helped participants evaluate	
	their digital habits and recognize everyday vulnerabilities.	
	Topics included how to create strong, unique passwords,	
	enable multi-factor authentication (MFA), install and	
	update antivirus software, and protect smartphones and	
	USB devices. The instructor demonstrated tools such as	
	haveibeenpwned.com and password strength checkers.	
	Participants reflected on unsafe practices like opening	
	suspicious attachments or reusing passwords, and	
	discussed how to avoid common cyber traps such as	
	social engineering and phishing emails.	
Methodology	<ul> <li>Live tool demos (e.g. haveibeenpwned.com)</li> </ul>	
e.g. watching a video,	<ul> <li>Answering quiz questions via Kahoot</li> </ul>	
answering quiz questions	Step-by-step hygiene checklist	
via Kahoot	<ul> <li>Group reflection on habits and institutional</li> </ul>	
	weaknesses	
	Al and Cybersecurity	
Duration	30 min (3:40:25 -4:02:30)	





Content  This module explored the intersection between artificial intelligence and cybersecurity. Participants learned how AI models can embed social biases, how attackers can manipulate AI outputs through prompt injection, and how unregulated use of AI may violate data privacy laws like GDPR. Case examples included biased hiring algorithms and data leakage in healthcare settings. The segment concluded with a brief overview of the regulatory landscape, especially the upcoming requirements of the EU AI Act, which mandates fairness, transparency, and accountability in AI use.  Methodology e.g. watching a video, answering quiz questions via Kahoot  Self-assessment and Security Tools  Duration  Self-assessment and Security Tools  Duration  Content  In the final session, participants were introduced to practical tools they can use to assess their personal or organizational cybersecurity readiness. The instructor demonstrated VPN tools, endpoint protection software, and phishing test platforms. Attendees engaged in self-evaluation exercises to measure their risk exposure, assess password strength, and identify weak spots in their cyber hygiene. This concluding activity empowered participants to take immediate and concrete steps toward improving their security posture.  Methodology e.g. watching a video, answering quiz questions via Kahoot  Nethodology e.g. watching a video, answering quiz questions via Kahoot  Reflection activity on what to change after the	SpinIT	
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<ul> <li>Lecture with practical examples</li> <li>e.g. watching a video, answering quiz questions via Kahoot</li> <li>Real-world stories (e.g. Al denying loans, violating HIPAA)</li> <li>Self-assessment and Security Tools</li> <li>Duration</li> <li>In the final session, participants were introduced to practical tools they can use to assess their personal or organizational cybersecurity readiness. The instructor demonstrated VPN tools, endpoint protection software, and phishing test platforms. Attendees engaged in self-evaluation exercises to measure their risk exposure, assess password strength, and identify weak spots in their cyber hygiene. This concluding activity empowered participants to take immediate and concrete steps toward improving their security posture.</li> <li>Methodology</li> <li>e.g. watching a video, answering quiz questions</li> <li>via Kahoot</li> <li>Reflection activity on what to change after the</li> </ul>		requirements of the EU Al Act, which mandates fairness,
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Self-assessment and Security Tools  Duration 30 min  Content In the final session, participants were introduced to practical tools they can use to assess their personal or organizational cybersecurity readiness. The instructor demonstrated VPN tools, endpoint protection software, and phishing test platforms. Attendees engaged in self-evaluation exercises to measure their risk exposure, assess password strength, and identify weak spots in their cyber hygiene. This concluding activity empowered participants to take immediate and concrete steps toward improving their security posture.  Methodology  e.g. watching a video, answering quiz questions via Kahoot  Reflection activity on what to change after the	e.g. watching a video,	<ul> <li>Instructor-led explanation of regulatory context</li> </ul>
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	via Kahoot	Reflection activity on what to change after the
training		training





# SpinIT CyberSafe PRO

Strategic Cybersecurity and Security Departments		
Duration	45 min (00:00 – 37:59)	
Content	This session introduced participants to the strategic	
	importance of dedicated cybersecurity departments in	
	organizations. It debunked the misconception that "IT	
	equals security" and clarified that roles like CEO, COO, or	
	even CTO do not inherently include cybersecurity	
	oversight. Through the lens of real-world risks and	
	breach consequences, the instructor presented a	
	decision-making model for assessing whether and when	
	a company needs a security department. The "Ground	
	Zero" model outlined how to start from an internal	
	security baseline, identify missing elements, and	
	establish governance from scratch. Participants reflected	
	on their organizational environments, assessing whether	
	they had appropriate ownership of security	
	responsibilities.	
Methodology	<ul> <li>Live lecture using business risk examples</li> </ul>	
e.g. watching a video,	Interactive discussion with participants on	
answering quiz questions	organizational structure	
via Kahoot	Strategic models illustrated through visual slides	
	and hypothetical cases	
Building and Leading Security Teams		
Duration	45 minutes (38:30 – 57:28)	
Content	In this segment, participants explored how to structure	
	and manage security teams using the defensive (blue	
	team) and offensive (red team) models. The instructor	
	explained how a Security Operations Center (SOC)	
	supports detection, monitoring, and response efforts.	
	The defensive role was presented as safeguarding	
	internal processes and systems, while offensive roles	
	were aligned with ethical hacking, vulnerability testing,	
	and red-teaming. Real organizational practices were	
	discussed, including the importance of not using SOC	





SpinIT	
	team members on delivery projects, how to ensure
	reporting loops between compliance and security, and
	how to manage security across hybrid IT environments.
Methodology	Diagram-driven presentation (SOC structure, team
e.g. watching a video,	roles)
answering quiz questions	<ul> <li>Instructor-led explanation of real-world team</li> </ul>
via Kahoot	setups
	<ul> <li>Role-based learning through use cases</li> </ul>
Incident	Response and Containment Strategies
Duration	45 minutes (59:32 – 2:09:33)
Content	This critical session offered a step-by-step walkthrough of
	how security teams respond to cyberattacks. Using a
	simulated phishing attack scenario, the instructor
	showed how attackers bypass basic controls, capture
	credentials, and attempt to infiltrate systems. The
	session emphasized early detection signals, SOC
	responsibilities during mitigation, and containment
	actions such as user isolation, forced password resets,
	and MFA reinitialization. Post-incident steps like log
	analysis, reviewing accessed files, and root cause
	documentation were also covered. Participants gained
	insight into how well-coordinated response efforts
	minimize disruption and protect organizational assets.
Methodology	Case study presentation (slides)
e.g. watching a video,	Open discussion about breach consequences
answering quiz questions	Quiz questions via Kahoot to test comprehension
via Kahoot	
Co	ompliance and Security Standards
Duration	30 minutes (2:26:29 – 3:13:50)
Content	This module focused on the legal and procedural side of
	cybersecurity. Participants learned the differences and
	overlaps between various international standards such
	as ISO/IEC 27001, HIPAA, GDPR, SOC2, and TISAX. The role
	of compliance teams was contextualized as the bridge
	between security policies and legal mandates. Emphasis
	was placed on aligning security practices with
	documentation, auditing procedures, and evidence-
	based controls. The instructor explained how a well-



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	integrated compliance function supports continuous
	improvement and stakeholder trust.
Methodology	Overview of security governance frameworks
e.g. watching a video,	Comparison tables of regulatory requirements
answering quiz questions	Case-based discussion of non-compliance
via Kahoot	examples
SC	L Server Encryption – Case Study
Duration	60 minutes (3:15:39-4:04:25)
Content	The final and most technical session demonstrated best
	practices in database-level encryption using Microsoft
	SQL Server. Participants learned about data-at-rest
	protection through Transparent Data Encryption,
	column-level Symmetric Key Encryption, and client-side
	Always Encrypted implementations. The instructor
	illustrated how these mechanisms are applied in
	production environments, including their cryptographic
	hierarchies and performance considerations. The
	importance of separating encryption keys from
	application layers and securing backups was emphasized.
	The session concluded with SQL code examples and
	resources for further reading, including links to Microsoft
	Docs, GitHub repositories, and white papers.
Methodology	Technical walkthrough with SQL Server diagrams
e.g. watching a video,	Instructor-led demo of encryption hierarchies
answering quiz questions	Discussion of common misconfigurations and
via Kahoot	performance impacts



#### 7. Resources

## 7.1. Materials Developed and Used

#### **PowerPoint Presentations:**

Customized slide decks for both BASIC and PRO levels, covering theory, tools, case studies, and technical procedures. These materials were delivered live and distributed in PDF format post-training.

#### **Recorded Sessions:**

Both workshops (BASIC and PRO) were professionally recorded. The videos will be uploaded to the SpinIT YouTube channel, ensuring long-term access and enabling reuse by other partners and regions.

#### **Entry and Exit Questionnaires:**

Digital self-assessment forms designed to gauge participant familiarity with cybersecurity topics before and after the training. The results informed content focus and measured impact.

#### **Interactive Quizzes:**

Used during the BASIC session (via Kahoot) to reinforce learning, particularly in cyber hygiene and threat recognition modules.

#### **Practical Exercises and Simulations:**

- Phishing scenario breakdown
- SQL injection demonstration (PRO)
- Account compromise and incident response sequence

## 7.2. Tools Introduced to Participants

Participants were encouraged to explore the following free or open-source cybersecurity tools:

- <a href="https://haveibeenpwned.com">https://haveibeenpwned.com</a> Credential breach checker
- <a href="https://www.security.org/how-secure-is-my-password/">https://www.security.org/how-secure-is-my-password/</a> Password strength tester
- SIEM, SOAR, XDR platforms (introduced conceptually in PRO session)
- VPN applications (discussion of safe selection and usage)
- Password managers (Bitwarden, KeePass, 1Password mentioned as examples)



## 7.3. Compliance and Reference Frameworks

The following international frameworks and regulations were discussed and referenced:

- ISO/IEC 27001 Information security management systems
- GDPR General Data Protection Regulation (EU)
- HIPAA Health Insurance Portability and Accountability Act (US)
- SOC2 Service Organization Control for data protection
- TISAX Trusted Information Security Assessment Exchange

Participants were advised on how to align organizational practices with these frameworks and the implications for public and private sector compliance.

## 7.4. Additional Reading and Learning Links

The following resources were recommended for continued learning:

- Microsoft SQL Server Encryption Documentation
- SQLShack SQL Server Cryptography Tutorials
- GitHub Repository: github.com/jasminazemovic/Book-Securing-Sql-Server

### 7.5. Transferability

The training modules, tools, and materials developed under the SpinIT CyberSafe pilot are fully transferable. The curriculum can be replicated across partner regions using the provided recordings, training decks, and questionnaires. Due to the modular design, local stakeholders can adapt the content to fit basic or advanced target groups depending on their digital maturity.