EU-CIP

European Knowledge Hub and Policy Testbed for Critical Infrastructure Protection

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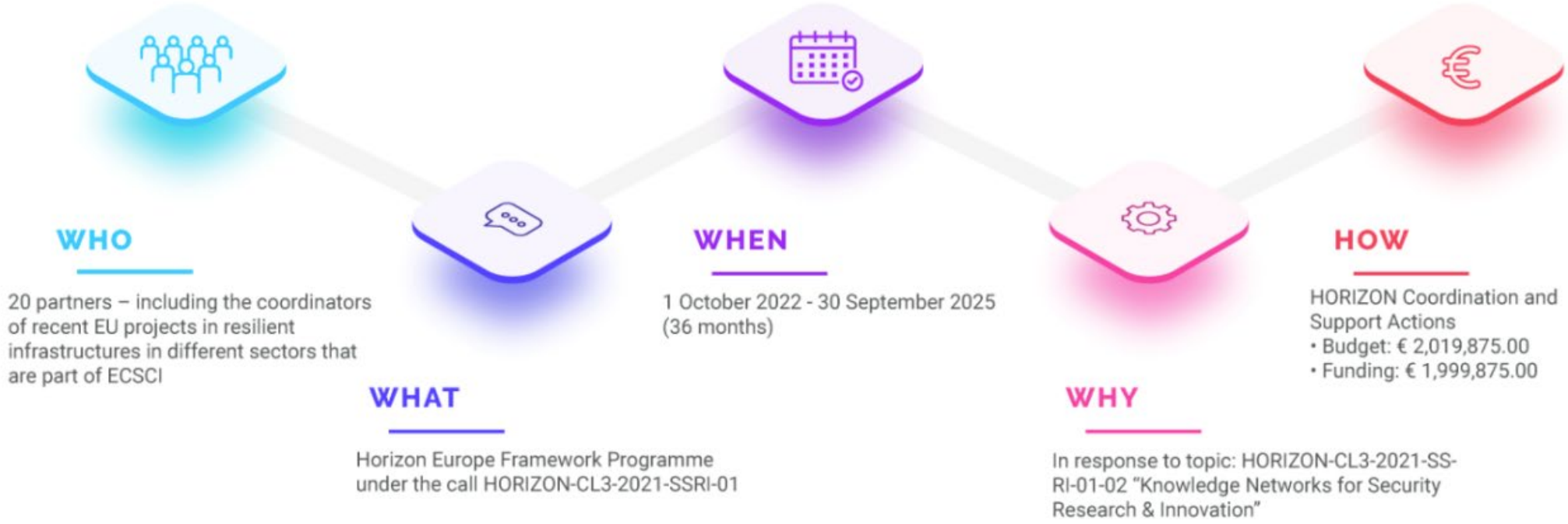
Info day nazionale Horizon Europe – Cluster 3 "Civil Security for Society"

21st June 2024

This project has received funding from the European Union's Horizon Europe research and innovation programme under the grant agreement No 101073878.

eu-cip.eu

EU-CIP Facts & Figures



Mission: Offer data analysis and services (knowledge, insights, foresights and guidance) for the development of evidence-based R&I policies and opportunities in the CIP domain.

EU-CIP Landscape and Objective

Innovation and policy development for Resilient Infrastructures and Critical Infrastructure Protection (CIP) is a complex, multi-disciplinary process involving **different stakeholders** and analysing a very **rich set of data and information** from different sources.

MAIN DRIVERS

>> **REDUCING** information fragmentation

>> **ENSURING** structured analysis

>> **BOOSTING** evidence-based policy making

The **main goal** of EU-CIP is to establish a novel **pan European knowledge network** for Resilient Infrastructures, which will enable policy makers to shape and produce data-driven evidence-based policies, while boosting the innovation capacity of Critical Infrastructures (CI) operators, authorities, and innovators (including SMEs).

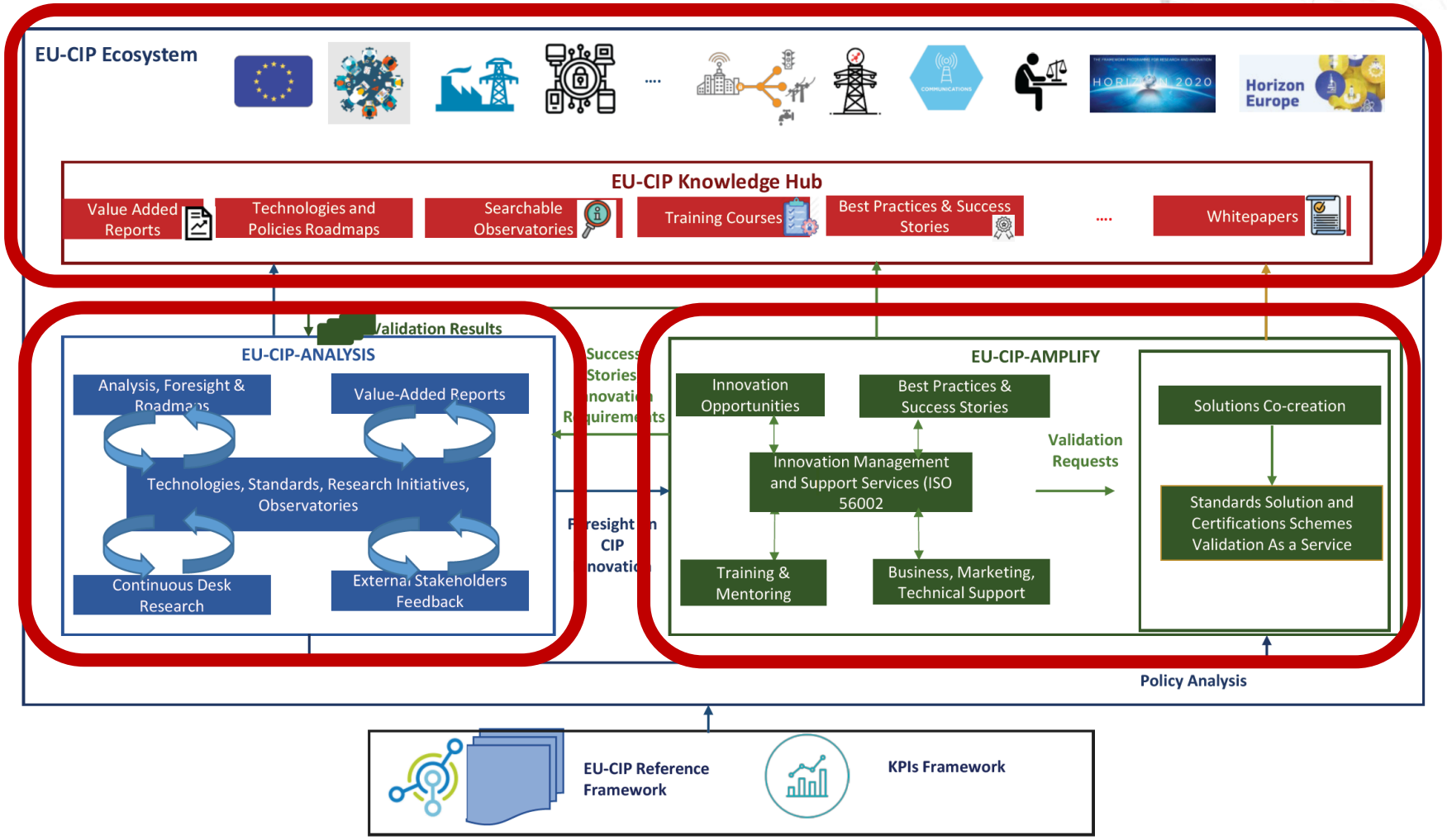
High level overview of activities and results

EU-CIP Main Pillars

OBJECTIVE 1 - EU-CIP-ANALYSIS: Enhance Europe's analytical capability regarding research outcomes, technologies, and policies – foster data-driven evidence-based policy and innovation development

OBJECTIVE 2 - EU-CIP-AMPLIFY: maximize the impact of R&I CIP/CIR activities in Europe through innovation support and solution validation services

OBJECTIVE 3 - EU-CIP-ECOSYSTEM: establish a Knowledge-Hub and create a vibrant ecosystem of interested and committed stakeholders around the project's results



Highlights: Capability Needs and Gaps (CN/CG)

Identification of Initial Set of Capability Gaps and Needs

Continuous Refinement & Improvement based on Stakeholders' Feedback

CN/CG (Sample List)

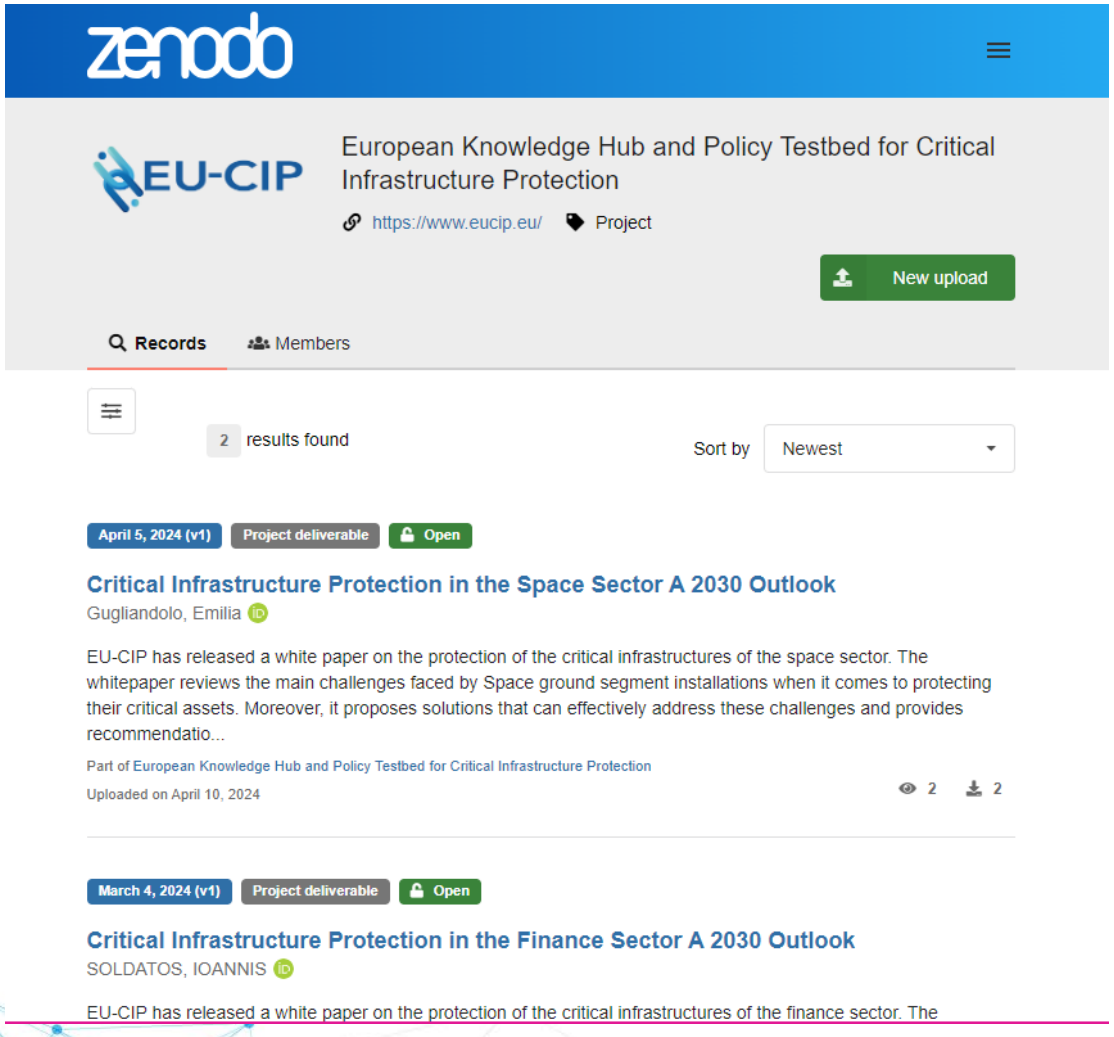
Capability Needs	Capability Gaps
C1 - Enhanced adaptability	CG1 - Poor Automation
C2 - Reduced Response Times	CG2 – Lack of proper control of Interconnectedness
C3 - Increased Transparency	CG3 – Poor Alignment of Resilience Indicators
C4 - Improved Detection Capabilities	CG4 – Lack of agreed Standards-based stress-testing procedures
C5 - Improved risk and impact assessment capabilities	CG5 – Problems with the classification of IoT Devices
C6 - Better integration of Telco Security tools with Information Security Management tools	CG6 – Scalability in the Mitigation of Distributed Denial of Service (DDoS) attacks
C7 – Solutions addressing cascading effects between different entities and states	CG7 – Development and Deployment of AI-based systems
C8 - Transformation of proactive and adaptive protection tools and methods to incorporate real-time functionalities	CG8 – Lack of Holistic Security Management Systems
C9 – Better exploitation of information from critical sensors towards augmented situation awareness	CG9 – Gaps in Emergency Management Processes
C10 – Risk prediction and anticipation	CG10 – Inability to cope with dynamically evolving threats
C11 – Training, Reskilling and Upskilling	CG11 – Poor Awareness about modern CIP/CIR challenges
C12 - Supply Chain Security	CG12 – Adaptive Threat Intelligence
C13 - Public-Private Collaboration Frameworks	CG13 - Incident Response Coordination
C14 - Cross-Border Coordination	CG14 - Emerging Technology Adoption
C15 - Business Continuity and Disaster Recovery (BCDR)	CG15 - Rapid Recovery Strategies
C16 - Resilience Metrics and Reporting	

Drive different EU-CIP Activities

CN/CG Drive Different Activities

- **R&I Roadmaps**
- **Market Analysis**
- **Skills & Learning Paths**

Highlights: Sectorial Insights via Whitepapers



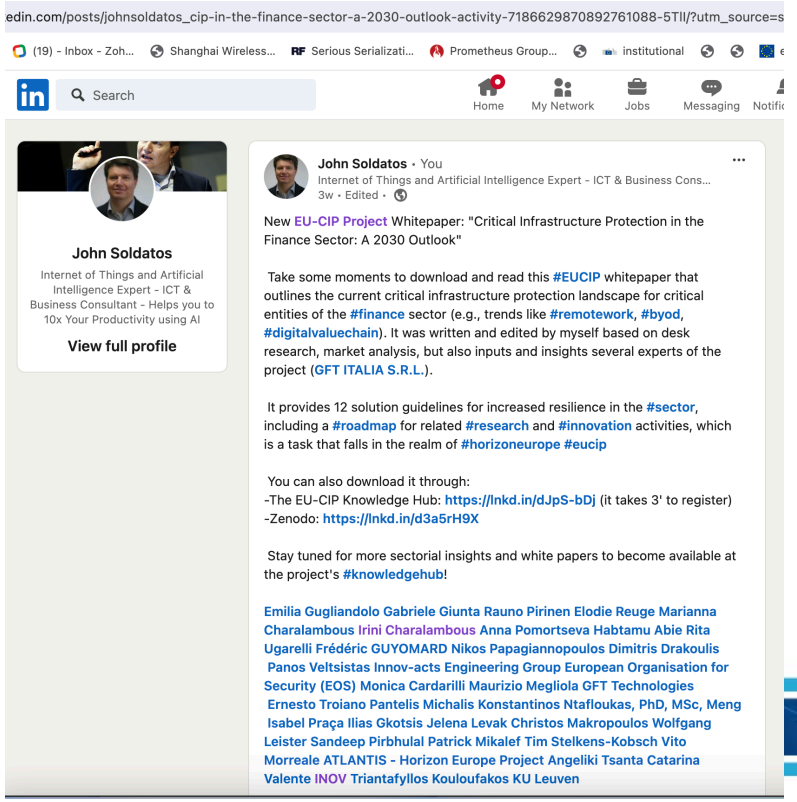
5 Sectorial Whitepapers:

- Finance
- Water
- Space
- Telecommunications
- Energy

Scope (Outlook 2030):

- Challenges
- Solutions Roadmaps

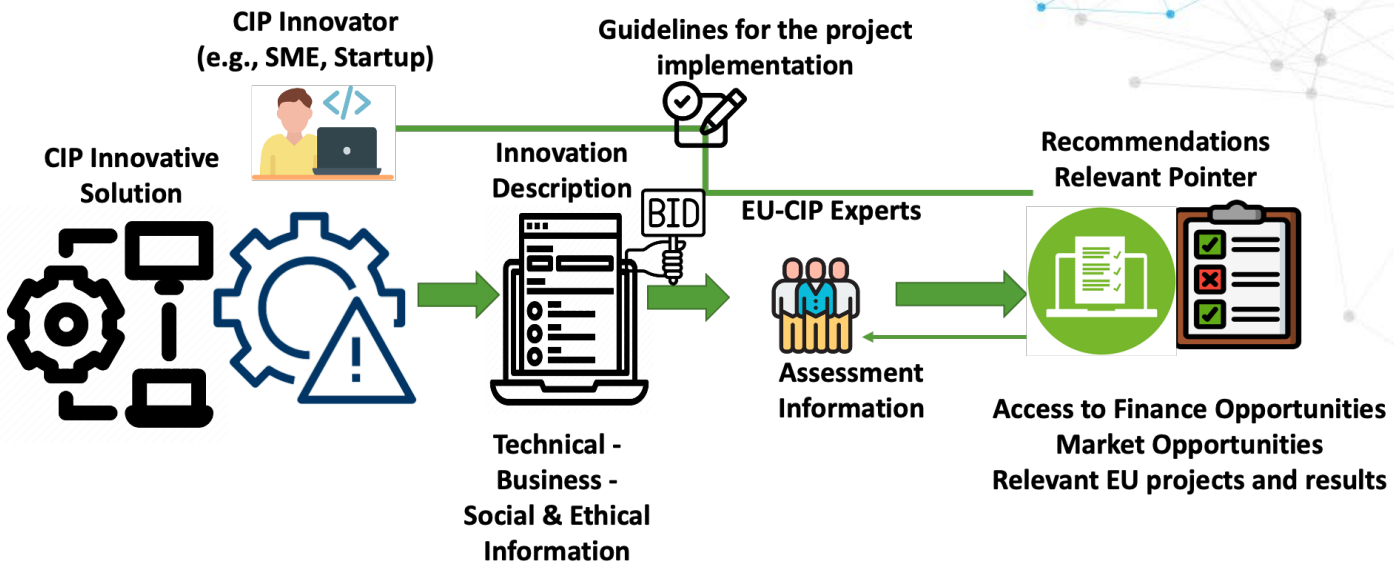
2100+ Engagements



Highlights: EU-CIP Virtual Innovation Hub

5 Innovation Services Launched
(*Integrated in KH; Validated in OC TypeB*)

1. EU-CIP Innovation Support Form Service
2. Training Services
3. Business Plan and Co-Creation Support
4. Virtualized Innovation Lab for Solution Validation – **Type B Open Calls**
5. Catalogue of Best Practices and Success Stories



Highlights: EU-CIP Training and Skills Development Pillar

Methodology for Skills Profiles and Learning Paths

Capability Needs

Capability Gaps

How to address capability Gaps:
- Trends
- Standards
- SotA Technologies

Innovation areas and related opportunities

Internal consultation survey

Results Analysis + Market Trends

Skills Profiles Identified to fill-in the Capability Gaps & Needs

Cybersecurity Specialist	Risk Management Analyst	Emergency Response Coordinator	Physical Security Specialist	Network Infrastructure Engineer
Critical Infrastructure Resilience Planner	Incident Response Manager	Compliance Auditor	Industrial Control Systems (ICS) Engineer	Crisis Communication Specialist
Business Continuity Planner	Data Privacy Officer	Physical Infrastructure Engineer	Supply Chain Security Manager	Cyber Threat Intelligence Analyst

3 EU-CIP Courses
3 Webinars
100+ Third Party Courses

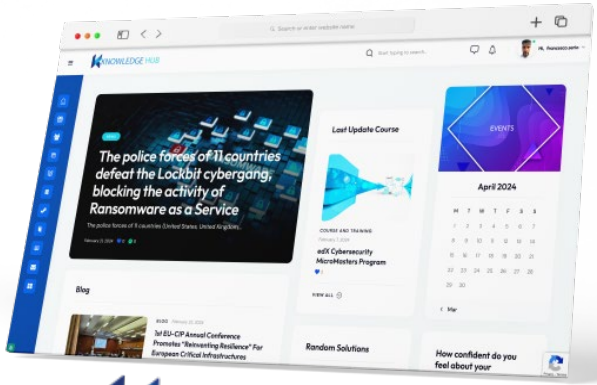
EU-CIP Knowledge Hub

The Knowledge Hub is supported by a proper digital infrastructure, and it provides a **single access point** to the project's results, boosting knowledge sharing and collaboration between the various stakeholders. It is potentially a crucial tool in **mitigating information fragmentation** in the CIP/CIR sector.

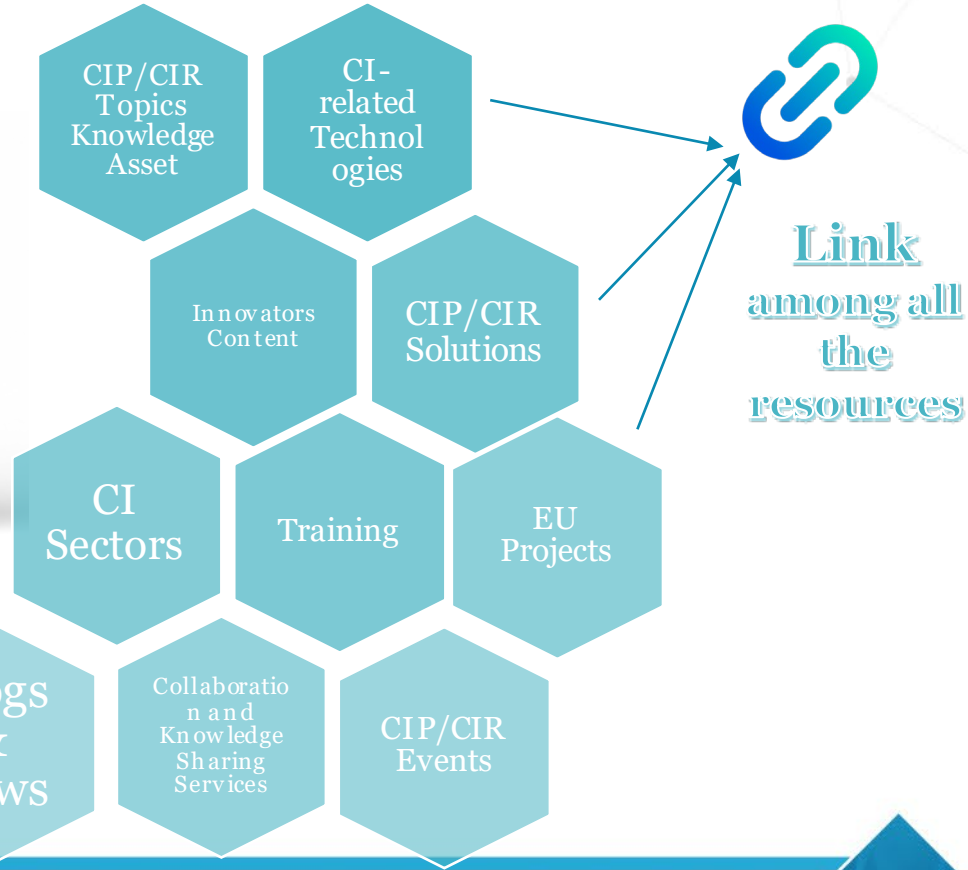
Collaborative Environment

A large ecosystem including all parties involved in CIP/CIR

https://knowledgehub.eucip.eu/

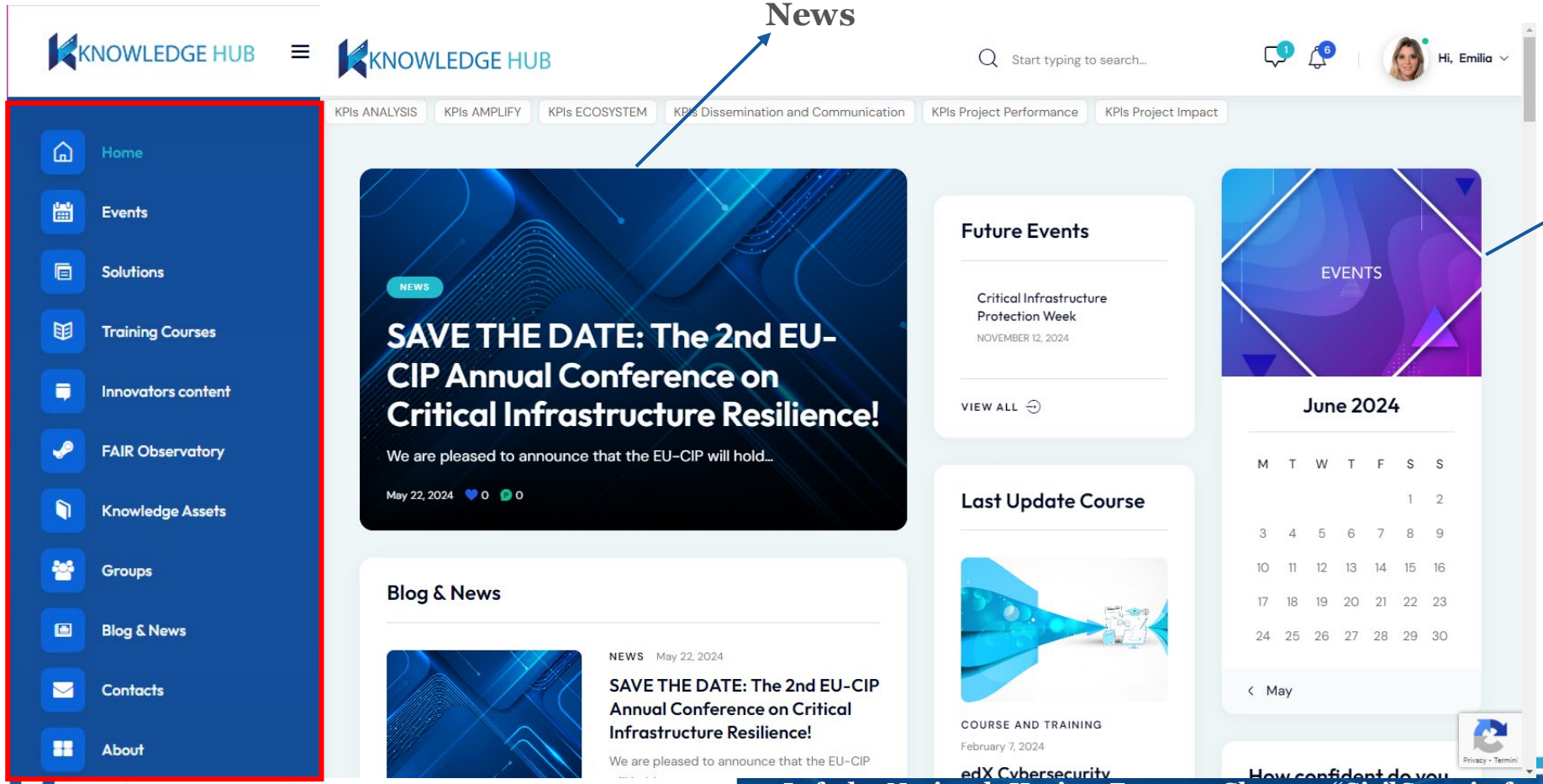


KNOWLEDGE HUB

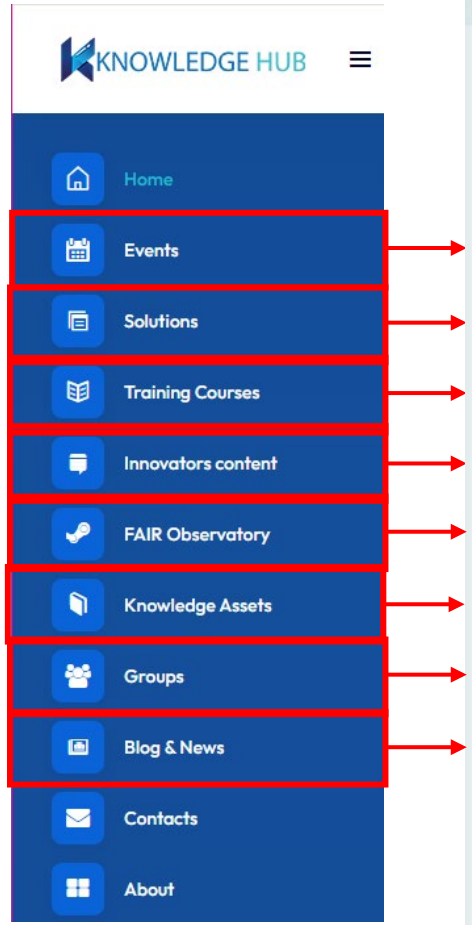


EU-CIP Knowledge Hub

The body of the homepage dynamically showcases a wealth of information pertinent to the CIP/CIR landscape, such as the latest news, recently published blogs, upcoming events, and the calendar, among other features.



EU-CIP Knowledge Hub



Show All | Blog | News | Newsletter

SAVE THE DATE: The 2nd EU-CIP Annual Conference on Critical Infrastructure Resilience!

We are pleased to announce that the EU-CIP will hold its second Annual Conference on Critical Infrastructure Resilience #EUCIP2024, on November, 12 in Madrid, Spain. The conference is organized together with the CIPRE (Critical Infrastructure Protection and Resilience Europe)...

Read More

EU-CIP establishes cooperation with the EU-HYBNET project!

We are glad to announce that EU-CIP expands its network of sister projects! This time, we are proud to establish cooperation with the EU-HYBNET project. EU-HYBNET (Empowering a Pan-European Network to Counter Hybrid Threats) is a project funded by the...

Read More

AHEAD
Toward sustainable foresight capabilities for increased civil security

EU-CIP establishes cooperation with AHEAD project

The EU-CIP project is pleased to announce a new collaboration as part of its networking and clustering activities with the AHEAD EU project (GA No 101121338). AHEAD objectives are to: 1. Design and test a holistic foresight framework combining megatrends...

Read More

EU-CIP Knowledge Hub – Benefits

The KH can serve as a promotional channel for registered users that can boost their exploitation and sustainability strategies.

EU-CIP will market/promote the solutions within the KH to the European CIP community

HOW?

- **Integration into the Knowledge Network: other projects can include their solutions in the "Solutions" section of the KH → they will benefit their exploitation, dissemination and marketing strategies.**
- **Active Participation and Collaboration: other projects can contribute other content like Blogs, Knowledge Assets (Whitepapers, report and so on) Trainings, Events →** This will enable to reach a **broader audience** and to make **content available** as part of a structure that is available in the long term.
- **Participation to Thematic Group**: other projects should actively engage in the various **collaborative sections** provided by the Knowledge Hub, such as **thematic groups**. We have a thematic group **"EU Project Synergies"** dedicated to projects and where discussions can be implemented. This participation fosters knowledge exchange and helps stakeholders stay updated with the latest developments in CIP/CIR.

EU-CIP Knowledge Hub –Benefits

- **Enhanced Visibility and Impact:** By participating in the Knowledge Hub, other projects gain visibility among a broader community of stakeholders, including policymakers, industry leaders, and other researchers. This can enhance the impact of the project's outcomes.
- **Access to a Broader Network:** The Knowledge Hub provides access to a pan-European network of CIP/CIR stakeholders. This network can be a valuable resource for establishing new collaborations, finding project partners, or disseminating research findings.
- **Feedback and Support:** Through continuous interaction with the community, projects can receive real-time feedback and insights that can help in refining technologies or methodologies. This collaborative feedback mechanism is crucial for iterative development.
- **Policy Influence:** By contributing to a hub that directly informs policy recommendations and decisions, projects have a unique opportunity to influence European policies related to critical infrastructure protection and resilience.

EU-CIP Knowledge Hub

REGISTER HERE

EU-CIP Knowledge Hub

https://knowledgehub.eucip.eu/

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Thank you!

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