

# REWIRE

CYBERSECURITY SKILLS ALLIANCE A NEW VISION FOR EUROPE

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Panel:

Promoting Excellence: capacity building activities embracing the ECSF

2ND EUROPEAN **CYBERSECURITY** SKILLS CONFERENCE 21-22 SEPTEMBER 2023

Segovia, Spain









The project Cybersecurity Skills Alliance – A New Vision for Europe, in short REWIRE, is co-funded by the ERASMUS+ programme of the European Union.

REWIRE aims to build a Blueprint for the Cybersecurity industry and a concrete European Cybersecurity Skills Strategy. Its work focuses on delivering concrete recommendations and sustainable solutions that will lead to the reduction of skill gaps between industry requirements and sectoral training provision and contribute to the growth, innovation and competitiveness of the Cybersecurity sector.





## REWIRE designs to the ECSF



### WP3 Design of the European Cybersecurity Blueprint

#### R3.3.1 Cybersecurity skills Framework (Public) – Download the PDF

This deliverable presents the REWIRE Cybersecurity Skills Framework, drawing on ENISA skills framework version 2 (draft version 0.5), considering the classification of European Skills, Competences, Qualifications and Occupations (ESCO) and other existing competence frameworks.

#### R3.4.1 Mapping the framework to existing courses and schemes (Public) - Download the PDF

This deliverable deals with the mapping of existing cybersecurity training courses, universities curricula, and certification schemes to the ENISA cybersecurity framework. To make the mapping possible, REWIRE groups are introduced that also allow a better understanding and analysis of the ENISA framework. Moreover, a new web application, namely the Curricula Profiler, is proposed since provides an easier and more user-friendly mapping of skills and existing courses than a Portable Document Format (PDF) report.

#### R3.5.1 Cybersecurity career pathway analysis (Public) - Download the PDF

This deliverable contains the results of the analysis of the 12 role profiles that fed into the European Cybersecurity Skills Framework, with the aim to identify the interconnections between them. The interconnections and relationships between the roles is a crucial step for the development of the career pathways or career propagation paths.

https://rewireproject.eu/deliverables/



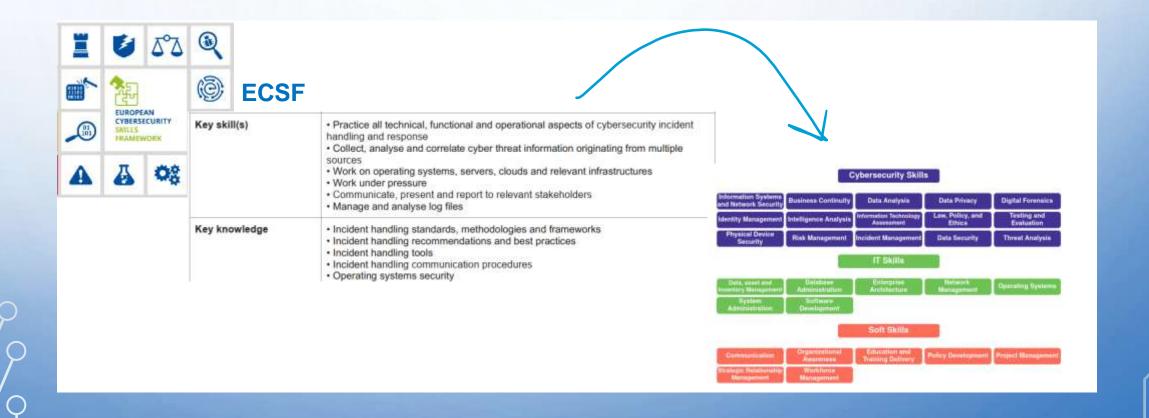






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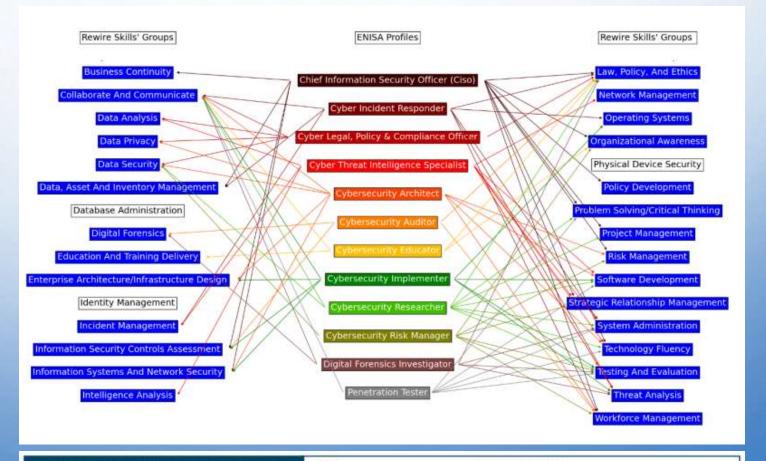








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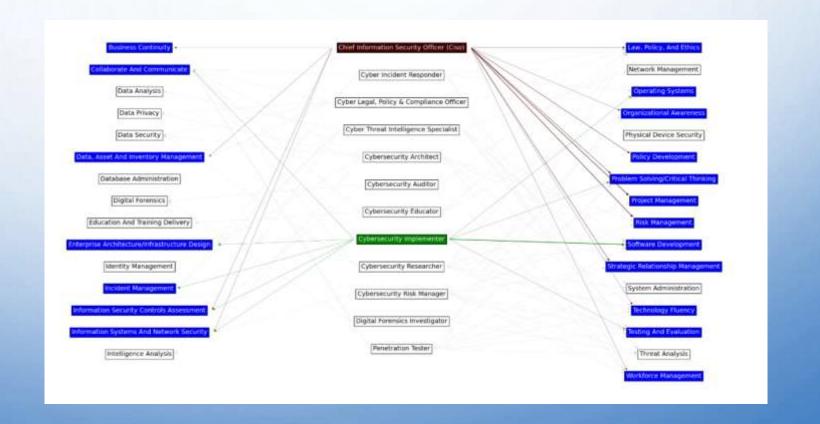








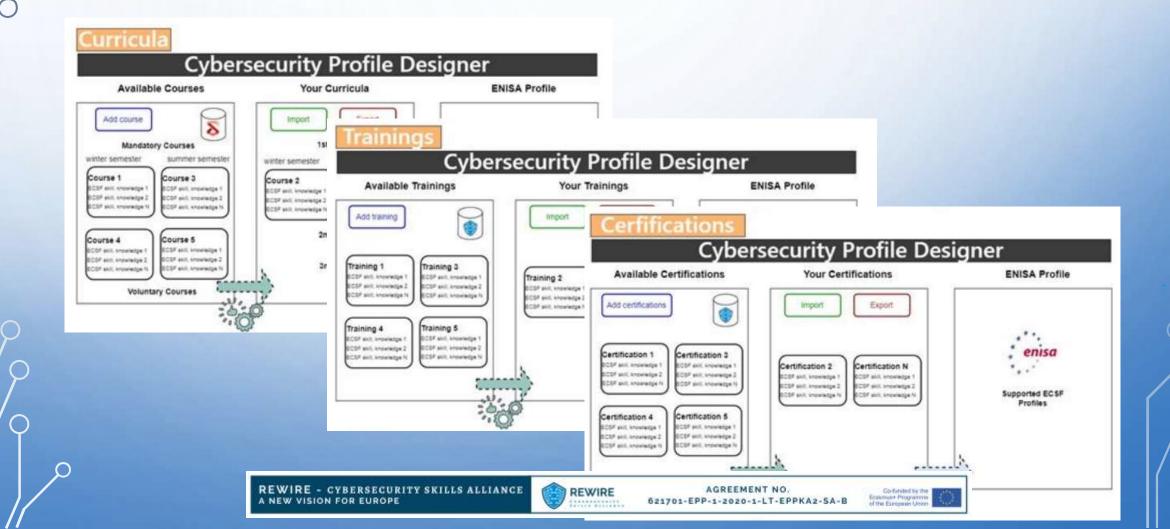
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## REWIRE maps to the ECSF

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## REWIRE builds to the ECSF

Four courses have been created and the REWIRE VLE is currently being suitably populated.

The courses contain:

- reading materials
- videos
- presentations and
- exercises (some of them administered through the REWIRE cyber range)





## REWIRE builds to the ECSF

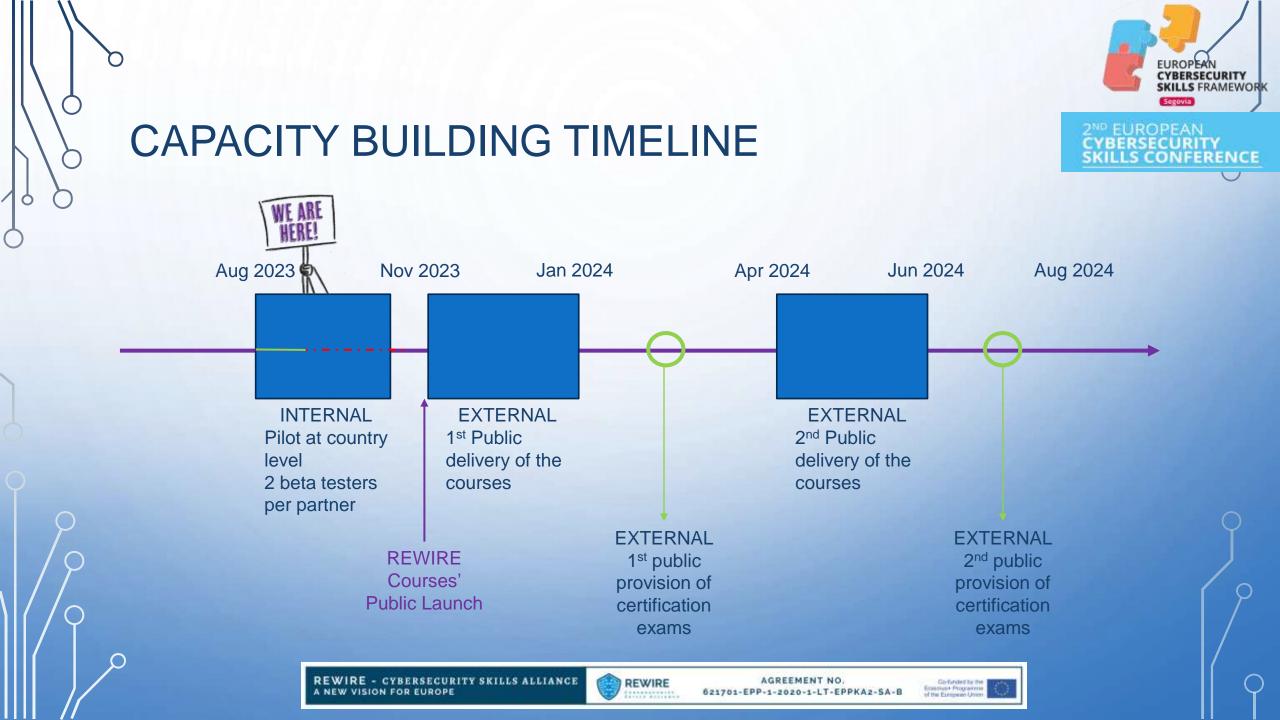
Four certification schemes have been created and an online examination system is currently being suitably populated.

The certification schemes are aligned to ISO 17024 and are supported by

- core processes
- documents
- theoretical examination items
- practical examination items (cyber range)



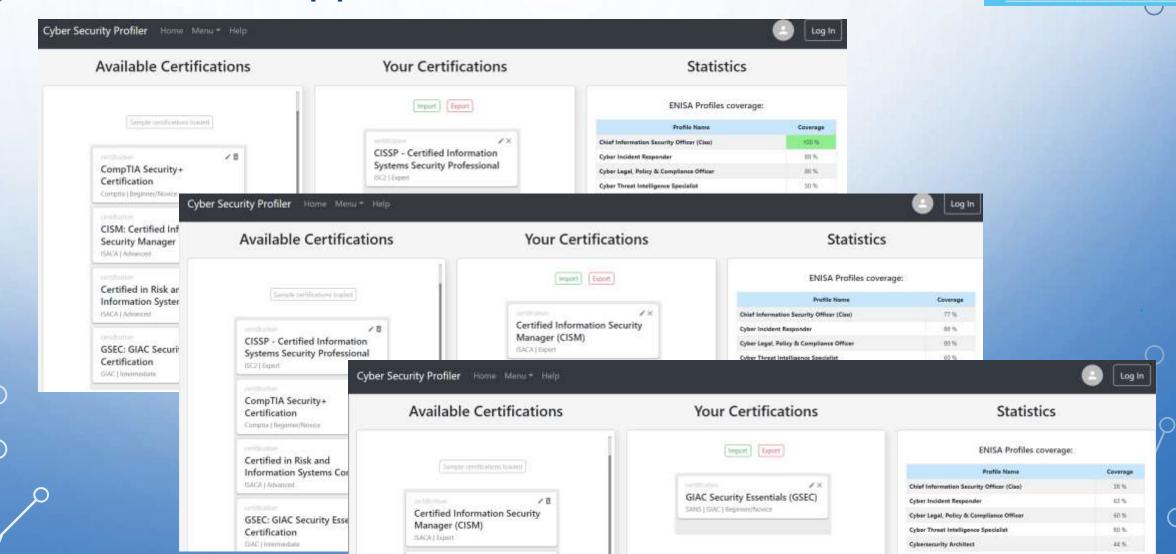






## REWIRE supports the ECSF

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## REWIRE queries on the ECSF

Cybersecurity Roles	Number of Ads	Percentage within
(in blue background the ones of the ECSF)	within analysed sample	analysed sample
CYBERSECURITY IMPLEMENTER	180	50,28%
CYBERSECURITY ANALYST	34	9,50%
CYBERSECURITY ARCHITECT	26	7,26%
CHIEF INFORMATION SECURITY OFFICER (CISO)	24	6,70%
PENETRATION TESTER	20	5,59%
CYBERSECURITY CONSULTANT	19	5,31%
CYBER INCIDENT RESPONDER	14	3,91%
N/A	8	2,23%
DIGITAL FORENSICS INVESTIGATOR	6	1,68%
APPLICATION SECURITY SPECIALIST	5	1,40%
SECURITY OPERATIONS CENTER (SOC) PROFESSIONAL	5	1,40%
CYBER THREAT INTELLIGENCE SPECIALIST	4	1,12%
CYBERSECURITY RISK MANAGER	3	0,84%
CYBERSECURITY RESEARCHER	3	0,84%
CYBER LEGAL, POLICY & COMPLIANCE OFFICER	3	0,84%
CYBERSECURITY AUDITOR	2	0,56%
AI CYBERSECURITY SPECIALIST	1	0,28%
CYBER RANGE SPECIALIST	1	0,28%

### Jobs ads analyzer

Sample of 180 ads Currently 1.000 are being analyzed

Alternative Title of the Cybersecurity Implementer (in blue background the ones of the ECSF)	Percentage*
Advanced Cyber Security Engineer	0,78%
Cyber Security Administrator	0,78%
Cyber Security Applications Expert	0,78%
Cyber Security Engineer	48,84%
Cyber Security Expert	3,10%
Cyber Security Specialist	19,38%
Cybersecurity Developer	0,78%
CyberSecurity Operations Administrator	0,78%
Cybersecurity Professional	2,33%
Cybersecurity Specialist	0,78%
Data Security Administrator	0,78%
ICT security specialist	0,78%
Information Security Implementer	2,33%
Information Security Professional	0,78%
Offensive Cyber Security Engineer	0,78%
Operational Technology Security	0,78%
Security Engineer	9,30%
Security Engineering Manager	3,88%
Security Specialist	0,78%
Systems Administrator	1,55%









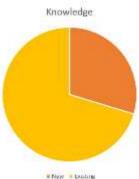
## REWIRE maps the ECSF

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### **ESCO**

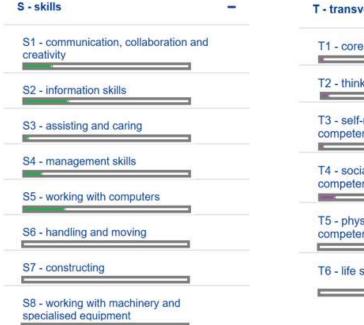


420 skills were identified of which 92 were proposed as new.

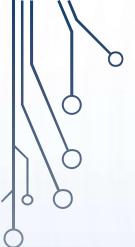


320 knowledge items were identified of which 95 were proposed as new.

The following diagrams depict the distribution of the skills of the 12 ECSF profiles to the high level hierarchy of ESCO. (The color bars below each hierarchy item show the percentage of the skills mapped to this item – this relates to the sum of the skills for all 12 ECSF profiles).







## **THANK YOU**

More information: https://rewireproject.eu/

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