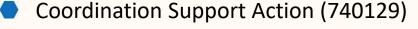
Cybervatching.Cu The European watch on cybersecurity & privacy

Understanding the Cybersecurity research and Innovation landscape

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> Funded by the European Commission Horizon 2020 – Grant # 740129



- May 2017 July 2021 (51 months)
- Keywords: TECHNOLOGY, POLICY & STANDARDS, ENGAGEMENT, MARKET



21 May 2021 - 11:00-13:00 CEST

Financial Sector Cybersecurity

Collaboration & Engagement of Stakeholders

ONLINE EVENT



CERTFin €∞Infinitech





Cybersecurity and Privacy R&I

Why are these numbers significant for the period of 2004-2021?



●€1.1 billion







R&I Cybersecurity and Privacy Landscape

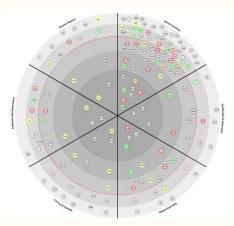
- Why are these numbers significant for the period of 2004-2021?
 - 115 EC Open calls
 - ●€1.1 billion invested
 - 280+ projects funded
- Challenging to understand the landscape
 - Dispersed information (project websites, individual partners)
 - Standard static information on projects & calls (CORDIS and reports)
 - Analysis found in mapping reports (generally dispersed info)



How can you make sense of the landscape?

- Could a radar be the answer? well a little more than a radar perhaps
 - A single online resource or tool
 - Managed by projects
- Find and contact projects
 - Technology
 - Sector
 - Project Lifecycle
 - Market & Technology Readiness





R&I & Ecosystem domains Vertical sectors Lifecycle Relative progress Live info Contact Automated upload

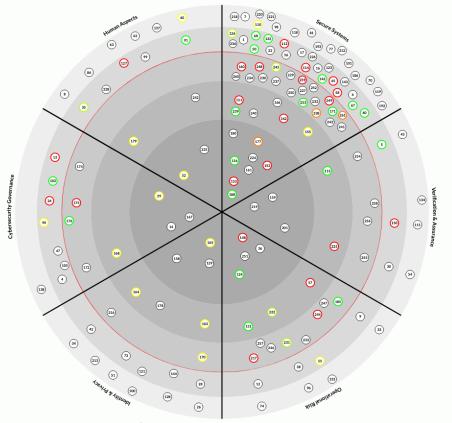


Radar visualization elements: Segments

Full radar overview – High-level R&I categories*

Secure systems

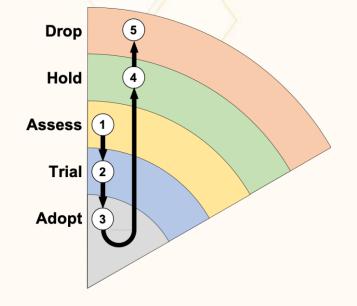
- Verification and assurance
- Operational risk
- Identity & Privacy
- Cybersecurity governance
- Human aspects







Radar visualization elements: Rings



Assess \rightarrow Trial \rightarrow Adopt \rightarrow Hold \rightarrow Drop

Rings illustrate project age

Relative to radar date

Active projects

- ADOPT The project finished less than 1 year ago.
- TRIAL Project is running, but has less than 6 months to go.
- ASSESS Project is running, and has more than 6 months to go.

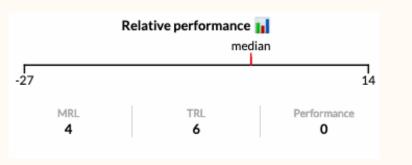
Finished projects

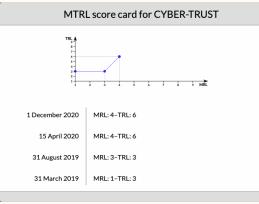
- HOLD The project finished 1 2 years ago.
- DROP The project finished more than 2 years ago.



Radar visualization elements: project's performance

- Market and Technology Readiness Level
 - Based on self-assessment carried out by 60+ projects in 2019-2021
 - With many projects regularly submitting MTRL scores, we can calculate "relative performance" with other projects
 - Traffic-light Coloured dots show the project Market and Technology readiness level relative to the average of their lifecycle stage and radar domain. Green showing fastest relative progress.



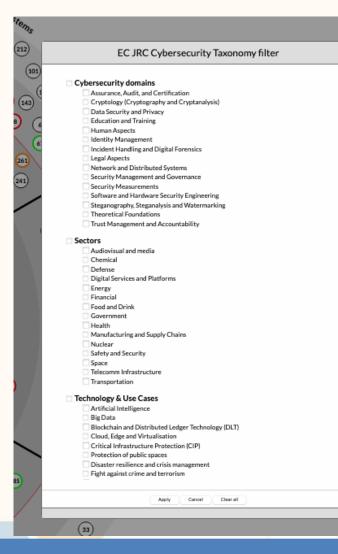




2 project readiness level clusters formed & sector specific clusters now collaborating Visualises projects relative performance and where the project stand with its peers

https://www.cyberwatching.eu/d23-methodology-classification-projectsservices-and-marketsreadiness





Project tagging to JRC taxonomy

Projects can tag themselves based on JRC Taxonomy

- Cybersecurity domains
- Vertical Sectors
- Technology & use cases
- Radar entries can be filtered based on JRC taxonomy
- Live statistical information presented based on filtering



JRC – Key EC CS&P reference providing more detail to radar capabilities





https://radar.cyberwatching.eu/radar





Who can benefit from the Radar

Policy makers: EC Project Officers, JRC, Project Assessment Office

- Bird's eye view of R&I investment (past and present) quick and easy for events like these
- Identification of low and over-developed/funded spaces
- Track project progress & maturity/readiness
- Projects mapped to JRC taxonomy
- Saving the user time and money by processing and analysing detailed landscape data.
- Make swift yet statistically sound statements on the state of the art of the EU CS&P research landscape.

Research community

- Dissemination channel for projects
- Synergy ignition levers based on sector, technology, Maturity
 - Radar used as basis for 4 clusters of CS&P projects and ongoing collaboration
 - Dissemination opportunities based on sector & maturity levels
- Very easy UX for projects to update profiles and new projects to join
- Outreach campaign to encourage projects to update profiles and map to JRC taxonomy: Jan-Feb.

Standardisation bodies, activities and projects (StandICT.eu) etc.

- Identify projects focussing on a technology / sector and contact for engagement
- Direct liaison with projects for contributions, collaboration, validation, funding (StandICT.eu)

Single resource providing bird's eye & detailed updated information on CS&P landscape



What happens to all this investment?What are the tangible results?









Cyberwatching.eu Marketplace

CYBERSECURITY & PRIVACY MARKETPLACE cyberwatching.eu

Cyberwatching Marketplace

- EU innovation
- R&I project results
- SMEs & Micro-enterprises
- Interactive & dynamic platform

EUROPEAN CYBER SECURITY ORGANISATION

ECSO SME Registry

- EU solutions for EU companies
- R&I results & SME products
- Promotion
- Search
- Matchmaking

2017 - 2021

July 2021 - \rightarrow

Sustainability of the Marketplace through ECSO's SME Regsitry

REACT Final Event | 20 May 2021 | www.cyberwatching.eu | @cyberwatching.eu



The situation

99% of enterprises in EU are SMEs

- 25+ million SMEs, employing 100 million people, of which 93% were micro-SMEs.
- As susceptible and more vulnerable than larger enterprises to cyber attacks.
- More regulations, more standards and more complexity
- Requirements for a more robust and trusted market



A complex path for your average Micro-SME!



The problem

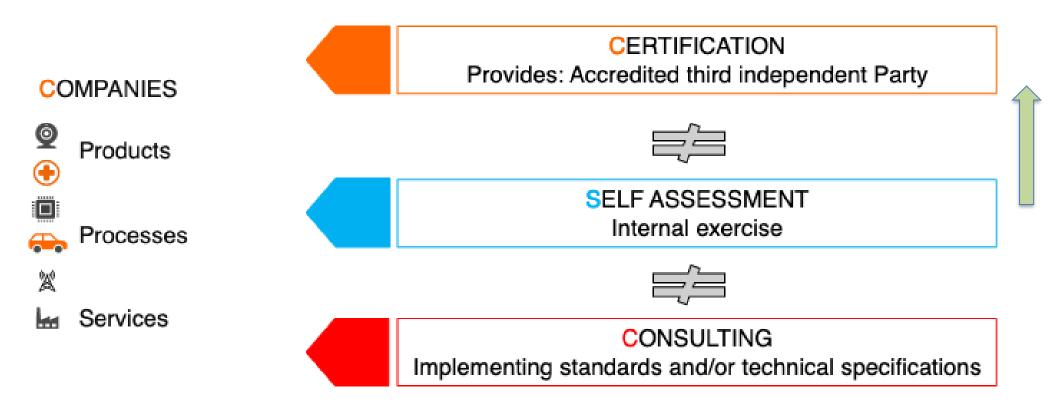
99% of enterprises in EU are SMEs

- 25+ million SMEs, employing 100 million people, of which 93% were micro-SMEs.
- Lack of resources, skills & time
- Seen as an IT not human problem It's the IT guy's problem
- We're too small to be hit
- CS can be an after thought in the race to market
- CS doesn't make money

Better Cybersecurity can be a differentiator though



A small part of the solution



Courtesy of Lucio Gonzàlez Jiménez, SGS

Lightweight and affordable self—assessment can set SMEs on the right path







Cybersecurity Seal

Topics

- Software requirements
- Protocol requirements
- Service requirements
- Hardware requirements
- Infrastructure requirements
- Security policy and associated regulations
- External Provider requirements



SGS

 Requirements for Critical Business Products



Affordable, self-assessment to lower barriers to certification - Launch June 2021







Topics

- Capacity building
- Cybersecurity framework
- Who has admin rights to company systems
- Acceptable use and access authorisation policies

Managing risk

- Log in authentication
- Regularity of password changes
- Regularity of vulnerability assessment and remediation plan for systems
- Intrusion detection system
- Delivered to **Regularity of back-up**

Language versions

Free and lightweight way to understand areas at risk



GDPR







- Understand risk exposure to sanctions
 - Individual consent for data processing
 - Services to children aged 13 or over
 - Automated processing of personal data
 - Data transfer out of EU
 - Training or written instruction to staff
 - DPO appointed.....
- Practical check-list for the components required in an Information Notice under the GDPR



Free resource to understand risk of GDPR sanctions



Upcoming events

Concertation Meeting series

Cybersecurity in the Finance Sector, 11:00 – 13:00, 21 May

Registration open

Standards and certification for a more resilient Europe, 10:30 – 13:00 14 June

Critical Infrastructure – the case of Health and Energy in cybersecurity, Date TBC

Charting a course for cybersecurity in Europe, Late June/Early July

Thank you and keep in touch

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